

# Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020 Groundwater Monitoring Report

## Former Fort Ord, California



Prepared for:

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On behalf of:



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## Report Approval

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Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California**

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## Acronyms and Abbreviations

µg/L	micrograms per liter
1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloroethane
ACL	Aquifer Cleanup Level
Army	U.S. Department of the Army
CCRWQCB	California Regional Water Quality Control Board, Central Coast Region
COC	chemical of concern
CT	carbon tetrachloride
DO	dissolved oxygen
EISB	enhanced in situ bioremediation
FO-SVA	Fort Ord Salinas Valley Aquitard
GWMP	groundwater monitoring program
GWTP	groundwater treatment plant
GWTS	groundwater treatment system
MCL	Maximum Contaminant Level
MNA	monitored natural attenuation
N/A	not applicable
ND	not detected
ORP	oxidation-reduction potential
OU2	Operable Unit 2
OUCTP	Operable Unit Carbon Tetrachloride Plume
PCE	tetrachloroethene
PDB	passive diffusion bag
QAPP	Quality Assurance Project Plan
RAWP	Remedial Action Work Plan
ROD	Record of Decision
SGS	SGS North America, Inc.
SIM	selected ion monitoring
TCE	trichloroethene
total 1,2-DCE	total 1,2-dichloroethene
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound
VSR	Validation Summary Report

## 1.0 Introduction

The former Fort Ord, located in northern Monterey County, California (Figure 1) was an active U.S. Army base from 1917 to 1994 encompassing approximately 28,000 acres. The U.S. Environmental Protection Agency (USEPA) added Fort Ord to the National Priorities List primarily on the basis of groundwater contamination discovered in 1990 beneath the Fort Ord Landfills, which were subsequently designated as Operable Unit 2 (OU2). Fort Ord was placed on the Base Realignment and Closure list in 1991. As the lead agency, the U.S. Department of the Army (Army) manages the cleanup of the former Fort Ord in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, commonly known as Superfund. Activities include conducting risk assessments, remedial investigations, feasibility studies, and implementation of selected remedies for site cleanup of hazardous substances released into the environment as a result of previous Army activities. The remedial alternative and cleanup goals are selected in a decision document, and remedial activities are initiated accordingly. Monitoring of remedial activities ensures the remedy is operating properly and successfully to achieve cleanup goals.

The quarterly groundwater monitoring program (GWMP) at the former Fort Ord began in 1993 as a result of a Basewide Remedial Investigation/Feasibility Study conducted in accordance with the Federal Facility Agreement. The Federal Facility Agreement became effective November 19, 1990 after it was signed by representatives of the Army, USEPA Region 9, the California Department of Health Services (now the California Department of Toxic Substances Control), and the California Regional Water Quality Control Board, Central Coast Region (CCRWQCB). The GWMP currently includes monitoring the progress of remedial actions at three sites: Sites 2 and 12, OU2, and Operable Unit Carbon Tetrachloride Plume (OUCTP). This report summarizes remedial activities and monitoring at OUCTP.

The quarterly GWMP includes measuring depth to water and collecting groundwater samples for chemical analysis from groundwater monitoring and extraction wells at OUCTP (Figure 2).<sup>1</sup> The presence and concentration of chemicals of concern (COCs) in wells associated with OUCTP are compared with each COC's Aquifer Cleanup Level (ACL) to determine their horizontal and vertical distribution in the aquifers. Table 1 lists the ACLs for OUCTP groundwater COCs as stated in the *Record of Decision, Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California* (OUCTP ROD; Army, 2008). Groundwater elevations and flow directions are determined using depth to water measurements collected during the quarterly GWMP events.

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<sup>1</sup> Well names are referenced throughout this report according to a Fort Ord-specific naming convention (ST-SSS-000-XXX), where ST = monitoring station type, SSS = two- or three-character site identification code, 000 = monitoring station number, and XXX = monitoring depth or aquifer designation. Monitoring station type codes (ST) are EW = extraction well, MP = multi-port well, MW = monitoring well, PZ = piezometer, and TS = treatment system. Site identification codes are BW = Basewide (generally OUCTP wells), OU1 = Operable Unit 1, and OU2 = Operable Unit 2, though a well with a specific code may be used to monitor more than one study area. Monitoring depths are expressed as feet below ground surface and aquifer designations are A = A-Aquifer, 180 = Upper or Lower 180-Foot Aquifer, and 400 = 400-Foot Aquifer. For example, well name MW-BW-15-A represents OUCTP monitoring well number 15 that is screened in the A-Aquifer.

Project activities were performed according to the following documents:

- *Quality Assurance Project Plan, Former Fort Ord, California, Volume 1, Appendix A, Final Revision 7, Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume* (QAPP; AEI, 2019)
- *Final Operable Unit Carbon Tetrachloride Plume Remedial Action Work Plan Addendum, Former Fort Ord, California* (RAWP Addendum; AEI, 2016)
- *Accident Prevention Plan, Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California* (Ahtna, 2019) and associated Activity Hazard Analyses

## 1.1 Purpose of this Report

Ahtna Global, LLC prepared this *Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020 Groundwater Monitoring Report* on behalf of the U.S. Army Corps of Engineers (USACE) Sacramento District, per Contract W91238-19-C-0027. This report documents the groundwater remediation and monitoring activities conducted at OUCTP in the former Fort Ord, California (Figure 1) from October 1, 2019 through September 30, 2020 (the “reporting period”). The guidance contained in the *O&M Report Template for Ground Water Remedies (with Emphasis on Pump and Treat Systems)* (USEPA, 2005) was utilized in preparing this report.

This report presents:

- OUCTP GWMP data.
- OUCTP enhanced in situ bioremediation (EISB) post-treatment monitoring data from previous deployment areas.
- Detailed discussions of OUCTP GWMP results and remedy performance results.
- Recommendations for system modifications to improve performance, reduce costs, and/or increase the likelihood of site closeout.

## 1.2 Brief Summary of Conceptual Site Model

OUCTP includes portions of three aquifers: the A-Aquifer, the Upper 180-Foot Aquifer, and the Lower 180-Foot Aquifer. OUCTP COCs for each aquifer are listed in Table 1; however, carbon tetrachloride (CT), with an ACL of 0.5 micrograms per liter ( $\mu\text{g/L}$ ), is used to define the extent of the OUCTP area because it is historically the most frequently detected COC with a plume extent that encompasses the areas of all other detected COCs. No contamination has been observed in the 400-Foot Aquifer.

Depth to groundwater in the unconfined A-Aquifer is 24 feet to 175 feet below ground surface across the northern part of the former Fort Ord. Groundwater in the A-Aquifer flows from the south to the north and deviates to the west and east along a north to northeast-trending groundwater divide, which extends from the eastern portion of the Fort Ord Landfills to the former Fritzsche Army Airfield (now the Marina Municipal Airport) (Figures 3 through 6). Groundwater west of the A-Aquifer divide flows toward the western edge of the Fort Ord Salinas Valley Aquitard (FO-SVA), where it enters the unconfined portion of the Upper 180-Foot Aquifer. Groundwater flowing east of the A-Aquifer divide eventually discharges to the Salinas River. The A-Aquifer lithology consists primarily of fine to medium well-sorted



dune sands and is separated from the Upper 180-Foot Aquifer by the FO-SVA, which consists primarily of blue-gray plastic clay with interbedded units of fine sand. The FO-SVA Channel Low preferential pathway is present in the A-Aquifer and is a very important feature. This feature is a significant reason for the locations of new wells for the site.

CT was apparently disposed of at a location near what is now Lexington Court (within the former Fort Ord) possibly sometime in the 1950s as part of various training and maintenance activities where CT and other solvents were used (MACTEC, 2006). CT (and other volatile organic compounds [VOCs] to a lesser extent) entered the underlying A-Aquifer and migrated north along the western edge of the groundwater divide, then west-northwest parallel to Reservation Road.

Depth to groundwater in the Upper 180-Foot Aquifer is between 45 feet and 260 feet below ground surface across the northern part of the former Fort Ord. The Upper 180-Foot Aquifer lithology consists primarily of sandy deposits with some gravel approximately 60 feet thick and is separated from the Lower 180-Foot Aquifer by the Intermediate 180-Foot Aquitard, which consists primarily of silt and clay units. Groundwater in the Upper 180-Foot Aquifer flows eastward and southeastward (Figures 14 through 17). The plume migrated into the Upper 180-Foot Aquifer through two known vertical conduits in the FO-SVA, creating two distinct parallel plumes. These vertical conduits (monitoring wells installed with inadequate sanitary seals) were decommissioned in 1999 and 2005. The two parallel plumes commingled and continued to migrate southeastward toward a natural vertical conduit (a discontinuity in the Intermediate 180-Foot Aquitard) southeast of monitoring well MW-OU2-64-180.

The Lower 180-Foot Aquifer consists of approximately 200 feet of coarse sand and gravel. Significant local and regional pumping from this aquifer since the 1940s has resulted in seawater intrusion that extends to the northern portion of OUCTP and a reversal of natural groundwater flow direction. Groundwater flows to the east in the Lower 180-Foot Aquifer (Figures 25 through 28) but varies seasonally between northeast and southeast in response to increased agricultural pumping in the Salinas Valley. CT entered the Lower 180-Foot Aquifer likely through at least one of the same vertical conduits through which it entered the Upper 180-Foot Aquifer, and also through the natural vertical conduit in the Intermediate 180-Foot Aquitard, creating two distinct plumes: one north and one south of Reservation Road. VOC concentrations associated with OUCTP in the Lower 180-Foot Aquifer south of Reservation Road are commingled with VOC concentrations associated with OU2.

### **1.3 Statement of Remedy Goals and Conditions for Terminating the Groundwater Remedy**

Groundwater at OUCTP is considered a potential drinking water, industrial water, and agricultural water source under the *Water Quality Control Plan for the Central Coast Basin* (CCRWQCB, 2019) although the water is not currently being used for these purposes. Accordingly, the OUCTP groundwater remedy goals are to protect human health and comply with Federal and State laws and regulations by returning groundwater to a condition that will allow beneficial use, including potential future use as a drinking water source, as described in OUCTP ROD (Army, 2008). Specifically, the remedial action objective is to remediate COCs in the A-Aquifer, Upper 180-Foot Aquifer, and Lower 180-Foot Aquifer to Federal or State drinking water Maximum Contaminant Levels (MCLs) or lower for some COCs. These goals are

accomplished through EISB and monitored natural attenuation (MNA) in the A-Aquifer, hydraulic control and containment of contaminated groundwater through extraction and treatment of groundwater exceeding ACLs in the Upper 180-Foot Aquifer, and MNA in the Lower 180-Foot Aquifer. It is further stated in the OUCTP ROD that the achievement of the remedial action objectives would restore the beneficial uses of groundwater within and adjacent to OUCTP and the ACLs are acceptable contaminant concentrations that, when achieved within a site, would reduce potential risks and comply with applicable or relevant and appropriate requirements. It is anticipated that the remedies will achieve the cleanup of the COCs to MCLs in groundwater at the OUCTP in 2029.

The OUCTP groundwater plume is characterized by the presence of eight COCs (Chloroform; CT; 1,1-dichloroethene [1,1-DCE]; methylene chloride; tetrachloroethene [PCE]; total 1,2-dichloroethene [total 1,2-DCE]; vinyl chloride; and trichloroethene [TCE]) in groundwater in the A-Aquifer, one COC (CT) in the Upper 180-Foot Aquifer, and two COCs (CT and 1,2-dichloroethane [1, 2-DCA]) in the Lower 180-Foot Aquifer at concentrations above their respective ACLs (Table 1).

Criteria for terminating the groundwater remedy are based on decision rules identified in the QAPP (AEI, 2019). Groundwater monitoring wells and extraction wells are sampled quarterly during the remediation monitoring phase.<sup>2</sup> The remediation monitoring phase is complete and the attainment monitoring phase begins when four consecutive quarters of monitoring data show concentrations of all COCs in a well are less than or equal to their respective ACLs. The attainment monitoring phase for a well is complete when concentrations of all COCs in the well meet one of the following statements:

- COC concentrations are less than or equal to their respective ACLs in eight consecutive monitoring events and data analysis indicates COC concentrations are stable or declining,<sup>3</sup> or
- COC concentrations are below their respective limits of quantitation or below 10 percent of their respective ACLs, whichever is greater, in six consecutive monitoring events.

When the attainment monitoring phase for a well is complete, the well may be removed from the sampling program. If the well is no longer needed for groundwater elevation data, it will be proposed for decommissioning. The groundwater remedy termination metric to be evaluated will be whether the attainment monitoring phase is complete for all wells within each hydraulic zone at OUCTP,<sup>4</sup> at which point the groundwater remedy for each aquifer may be terminated and closure of the OUCTP groundwater remedies will be proposed in a remedial action completion report.

## 1.4 Remedy Description

The A-Aquifer, Upper 180-Foot Aquifer, and Lower 180-Foot Aquifer are impacted by OUCTP COCs (Table 1). The remedies for each aquifer are described in the OUCTP ROD (Army, 2008) and summarized below. In a letter dated September 3, 2013, the USEPA concurred with the Army's determination that

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<sup>2</sup> As defined in *Recommended Approach for Evaluating Completion of Groundwater Restoration Remedial Actions at a Groundwater Monitoring Well* (USEPA, 2014).

<sup>3</sup> The eight consecutive monitoring events may include events completed during the remediation monitoring phase.

<sup>4</sup> See the QAPP (AEI, 2019) for descriptions of OUCTP hydraulic zones. Maps of the OUCTP hydraulic zones in the A-Aquifer, Upper 180-Foot Aquifer, and Lower 180-Foot Aquifer are presented in Appendix C.

the OUCTP remedies are “operating properly and successfully” and provided a remedy construction complete determination (USEPA, 2011 and 2013).

#### **1.4.1 A-Aquifer EISB**

The OUCTP A-Aquifer groundwater remedy is EISB performed in six deployment areas (Pilot Study, 1A, 1B, 1C, 2A, and 2B) from 2007 to 2012, and MNA as described in the *Final Operable Unit Carbon Tetrachloride Plume A-Aquifer Remedial Action Construction Completion Report* (Shaw, 2012).<sup>5</sup>

In June 2015 eight new OUCTP A-Aquifer groundwater monitoring wells were installed to delineate the CT plume in the southeastern portion of the estimated plume extent near the groundwater divide. The results of the investigation indicated the CT plume had migrated further east and north than previously defined and the potential for the plume to migrate further. Therefore, EISB Deployment Area 3A was constructed in October 2016 and began operation in December 2016 according to the RAWP Addendum (AEI, 2016). Injection and recirculation of the sodium lactate substrate was completed in August 2017, after which the injection and recirculation system was shut down and long-term performance monitoring was initiated. The ten extraction wells and four monitoring wells within EISB Deployment Area 3A were monitored quarterly, from the Third Quarter 2017 through the Fourth Quarter 2018. Detailed analysis of the results of the EISB treatment in Deployment Area 3A is presented in the *OUCTP Deployment Area 3A Data Summary Report, EISB* (AEI, 2020).

Groundwater in the A-Aquifer is monitored in select deployment area wells for post EISB-treatment water quality parameters as well as COCs. The measurement data is used to assess the effect of EISB on the aquifer and reduction of COC concentrations to support MNA as described in the *Final Operable Unit Carbon Tetrachloride Plume Remedial Action Work Plan, Former Fort Ord, California; Appendix A, Operable Unit Carbon Tetrachloride Plume A-Aquifer Remedial Design Addendum* (AES, 2014).

#### **1.4.2 Upper 180-Foot Aquifer Pump and Treat**

The Upper 180-Foot Aquifer groundwater remedy has been in operation since September 2011 and includes one groundwater extraction well (EW-OU2-09-180) connected to the OU2 groundwater treatment system (GWTS). The extracted groundwater is treated with granular activated carbon as described in the OU2 Groundwater Monitoring and Treatment System Quarterly and Annual Reports. The OU2 groundwater treatment plant (GWTP) was transitioned from the old facility located at the western extent of the OU2 plume area to a new facility located at the Fort Ord Landfills. During the transition period (October 12 to November 21, 2018), the OU2 GWTS and EW-OU2-09-180 were offline; however, there were no significant changes in CT concentrations observed at EW-OU2-09-180 or nearby monitoring wells as a result of the OU2 GWTS being offline during the transition.

#### **1.4.3 Lower 180-Foot Aquifer MNA**

MNA was implemented as the groundwater remedy for the Lower 180-Foot Aquifer in March 2011 as described in the *Final Operable Unit Carbon Tetrachloride Plume, Lower 180-Foot Aquifer Remedial Design* (Shaw, 2010) and in the *Final Well Installation Completion Report, Operable Unit Carbon*

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<sup>5</sup> EISB provides a substrate (carbon source) to the existing bacteria in the groundwater to support anaerobic degradation (reductive dechlorination) of COCs. Sodium lactate was used as the substrate in all of the OUCTP EISB deployment areas.

*Tetrachloride Plume Lower 180-Foot Aquifer and Operable Unit 2* (AES, 2011). Additionally, there is a contingency plan for wellhead treatment of groundwater (via granular activated carbon or air stripping) at potable water supply wells that are extracting groundwater from the Lower 180-Foot Aquifer if COCs associated with OUCTP are detected at concentrations above the ACLs in these water supply wells (Shaw, 2010). Groundwater monitoring locations for each aquifer are shown in Figure 2.

#### **1.4.4 Other Remedy Components**

As specified in the OUCTP ROD (Army, 2008), the remedy includes institutional controls (i.e., deed restrictions) to prevent access or use of groundwater within the OUCTP area for any purpose until cleanup levels are met, and to maintain the integrity of any current or future remedial or monitoring system including monitoring, extraction, and injection wells.

## 2.0 Subsurface Performance Summary

### 2.1 Sampling Events Performed During this Reporting Period

This report summarizes OUCTP GWMP field and laboratory data gathered during four quarterly monitoring events. The monitoring events occurred as tabulated below.<sup>6</sup>

#### Scheduled GWMP Events

Event Description	Start Date	End Date
Fourth Quarter 2019	December 2, 2019	December 6, 2019
First Quarter 2020	March 2, 2020	March 6, 2020
Second Quarter 2020	June 1, 2020	June 5, 2020
Third Quarter 2020	August 31, 2020	September 4, 2020

### 2.2 Sampling Methodologies and Laboratory Analyses

The majority of the groundwater samples were collected using passive diffusion bags (PDBs) at groundwater monitoring wells and extraction wells where the extraction pump was removed. Vertical placement of a PDB within the well screen is designed to capture the highest COC concentration zone of the aquifer based on historical data from the saturated screen interval. If the well has two or more high (or similar) COC concentration zones, then hanging multiple PDBs or periodically rotating a PDB between hanging stations is necessary.

PDBs are placed at a designated depth using PDB sampler hardware consisting of a dedicated rope and stainless steel weight secured to the top of the well casing or well cap. The PDB hardware rope is fitted with PDB hanging stations, usually at 5-foot intervals in the well screen zone. Depth to water measurements taken prior to sample collection ensures proper placement and complete groundwater submersion of the PDB, which is necessary for representative data collection. Once sampling is completed, a new PDB for the next quarterly GWMP event (if the well is sampled quarterly) is hung at the appropriate station. PDBs are typically left in place for three months (but must remain in place for at least two weeks) before sampling.

Some monitoring wells are multiport wells with multiple screened zones across multiple aquifers. These multiport wells are sampled and monitored for depth to groundwater using Westbay Instruments® multilevel groundwater monitoring system.

Select monitoring wells in the EISB deployment areas are also monitored for water quality parameters including dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, specific conductance, temperature, and turbidity (AES, 2014). A downhole water quality meter is used to measure the water quality parameters at each of the wells after they are sampled with PDBs.

<sup>6</sup> The listed start and end dates are the scheduled GWMP event dates. Additional samples may be collected after the scheduled end date for technical reasons (see Section 2.3 and Table 3).

Samples from operable Fort Ord supply wells are collected from a designated sampling spigot at the wellhead, which is turned online for a sufficient time before sampling to remove stagnant water from pumping and sampling pipes. Sampling standard operating procedures and the monitoring schedule for the OUCTP GWMP are in the QAPP (AEI, 2019).

SGS North America, Inc. (SGS) performed analyses for the OUCTP GWMP. SGS is accredited through the Department of Defense Environmental Laboratory Accreditation Program. OUCTP GWMP samples are analyzed for a project-specific list of OUCTP COCs (Table 1) by USEPA Method 8260 SIM (selected ion monitoring).

### **2.3 Deviations from the QAPP**

The scheduled GWMP sample locations are listed in Table 2. Changes in the GWMP during the reporting period are listed in Table 3.

The groundwater monitoring well sampling schedule is adjusted periodically to fill data gaps or reduce sampling frequency at locations that have historically low COC concentrations. These adjustments are made based on analyses of historical results at each sampling point and comparison to decision rules in the QAPP (AEI, 2019).

### **2.4 Well Maintenance**

Field teams evaluated the physical integrity of each well during routine monitoring activities to ensure collection of representative samples, aquifer protection from potential exposure to surface contaminants, and safe access to the well by field technicians. Well maintenance notes and repairs are shown in Table 4.

### **2.5 Sampling Results and Interpretation**

#### **2.5.1 A-Aquifer**

##### **2.5.1.1 Water Levels**

Depth to groundwater measurements were collected from 99 OUCTP A-Aquifer wells during the reporting period. Measurements and calculated groundwater elevations are presented in Table 5. Groundwater elevation contours for the OUCTP A-Aquifer during the reporting period are presented in Figures 3 through 6. Hydrographs of representative A-Aquifer wells in Figure 7 show relatively steady groundwater elevations in the A-Aquifer over time, though with a downward trend. Groundwater elevations decreased by 0.37 of a foot on average since the Second Quarter 2020 (Ahtna, 2020) and increased by 1.14 feet on average compared to Third Quarter 2019 (Ahtna, 2021). The average OUCTP A-Aquifer groundwater elevation has increased 4.7 feet since the Second Quarter 2015, which was the lowest groundwater elevation observed in the last eight years.

During the reporting period, groundwater elevations and flow directions in the A-Aquifer were consistent with previous trends. Groundwater elevations in the A-Aquifer do not exhibit significant seasonal variation, likely due to the thick vadose zone (up to 175 feet) that appears to buffer precipitation infiltration over time and no seasonal increased pumping of the aquifer. With the exception of the western A-Aquifer near the edge of the FO-SVA where groundwater elevations were

consistent throughout the period of the hydrograph, elevations have exhibited a decreasing trend since reaching relative highs during El Niño related precipitation in 1997 and 1998 and reached historic lows during the Second Quarter 2015.

Local drought conditions led to less than normal precipitation in water years 2012 through 2015, with recent water years 2016 through 2019 reaching normal and above-normal precipitation (except for water year 2018 and a decrease in 2020), as shown in the table below. California drought intensity was categorized as tabulated below during the same time span. The drought intensity peaked during the 2015 water year, with 46 percent of the state of California categorized as “D4: Exceptional Drought” conditions. Dramatic drought condition improvement was seen in the 2017 water year with 54 percent of the state of California with “None: No Drought” conditions. This drought improvement receded in the 2018 water year with 35 percent of the state with “None: No Drought” conditions and 32 percent in the “D0: Abnormally Dry” conditions, though in the 2019 water year 62 percent of the state of California was in “None: No Drought” conditions, which was the highest observed since 2013. Drought conditions were similar in 2020.

**Local Precipitation Drought Conditions, Water Years 2012 through 2020**

Water Year <sup>7</sup>	Percent of Average Precipitation in California Central Coast <sup>8</sup>	Percent Area Covered in California: Average Drought Intensity <sup>9</sup>					
		None: No Drought	D0: Abnormally Dry	D1: Moderate Drought	D2: Severe Drought	D3: Extreme Drought	D4: Exceptional Drought
2012	67	No Data					
2013	56	9	17	26	46	2	0
2014	47	1	1	5	33	36	23
2015	73	0	2	5	21	27	46
2016	90	1	8	16	20	23	32
2017	150	54	15	11	7	7	6
2018	59	35	32	20	11	2	0
2019	136	62	16	17	5	1	0
2020	81	47	23	19	10	2	0

**2.5.1.2 Groundwater COC Concentrations**

The following summarizes GWMP events during the reporting period.

<sup>7</sup> Water Year: time period of 12 months between October 1 and Sept 30 for which precipitation totals are measured.

<sup>8</sup> Source (DWR, 2012 to 2020).

<sup>9</sup> Source (NIDIS, 2020).

- During the Fourth Quarter 2019 groundwater samples were collected at 44 OUCTP A-Aquifer well locations. Analytical results for these samples are presented in Table 6 and CT concentrations and COC contours at the ACL are shown in Figure 8.<sup>10</sup>
- During the First Quarter 2020 groundwater samples were collected at 45 OUCTP A-Aquifer well locations. Analytical results for these samples are presented in Table 7 and CT concentrations and COC contours at the ACL are shown in Figure 9.
- During the Second Quarter 2020 groundwater samples were collected at 48 OUCTP A-Aquifer well locations. Analytical results for these samples are presented in Table 8 and CT concentrations and COC contours at the ACL are shown in Figure 10.
- During the Third Quarter 2020 groundwater samples were collected at 66 OUCTP A-Aquifer well locations. Analytical results for these samples are presented in Table 9 and CT concentrations and COC contours at the ACL are shown in Figure 11.

Figure 12 shows historical and current CT ACL exceedance contours for 2008 and 2020. The Validation Summary Reports (VSRs) are presented in Appendix A. Appendix B contains CT historical trend charts for select OUCTP monitoring wells. Below is a summary of COC analytical results at the OUCTP A-Aquifer for the Third Quarter 2020.

Two of the eight COCs (CT and chloroform) were detected above their ACLs in the OUCTP A-Aquifer during the Third Quarter 2020. The other six COCs were either detected below their ACLs or not detected (ND) in the OUCTP A-Aquifer (Table 9). The maximum concentration of each COC in the Third Quarter 2020 is summarized in the table below.

**Maximum COC Concentrations for the OUCTP A-Aquifer in the Third Quarter 2020**

COC Name	Maximum Concentration (µg/L)		Locations Above ACL	Locations with Detections	Additional Comments
	Result	Location			
1,1-DCE	ND <sup>11</sup>	N/A <sup>12</sup>	0	0%	No detections in the A-Aquifer
Total 1,2-DCE	0.17 J <sup>13</sup>	EW-BW-135-A	0	3%	EISB Deployment Area 2A
CT	3.3	MW-BW-26-A	20	62%	EISB Deployment Area 2A
Chloroform	9.3	MW-BW-35-A	4	56%	Downgradient of EISB Deployment Area 2A
Methylene chloride	ND	N/A	0	0%	No detections in the A-Aquifer

<sup>10</sup> CT ACL exceedance contours in Figures 8 through 13, 19 through 24, and 30 through 39 are not drawn around single wells with CT concentrations above the CT ACL if the well is outside the main CT plume and there are insufficient data to establish the extent of a plume contour. Regardless, all wells with detected concentrations of CT above the CT ACL are indicated by bolded font in the figures and associated tables.

<sup>11</sup> ND: Not detected at monitoring or extraction well locations during the reporting period. A detection is a concentration at or above the laboratory limit of detection.

<sup>12</sup> N/A: not applicable.

<sup>13</sup> J: an estimated detection below the limit of quantitation.



COC Name	Maximum Concentration (µg/L)		Locations Above ACL	Locations with Detections	Additional Comments
	Result	Location			
PCE	0.11J	EW-BW-124-A	0	2%	EISB Deployment Area 2A
TCE	1.1	EW-BW-124-A, EW-BW-129-A, EW-BW-135-A	0	21%	EISB Deployment Area 2A
Vinyl chloride	ND	N/A	0	0%	No detections in the A-Aquifer

Two of the eight OUCTP A-Aquifer COCs were detected at concentrations exceeding their respective ACLs during the reporting period (CT and chloroform). The remaining six OUCTP A-Aquifer COCs were detected at concentrations at or below their respective ACLs or were ND in the OUCTP A-Aquifer (Tables 6 through 9). Figures 8 through 11 show CT detections and detections of COCs other than CT that exceeded their respective ACLs during the reporting period, and the validation qualifiers as described in Appendix A. The maximum concentration of each COC in the reporting period is summarized in the table below.

**Maximum COC Concentrations for the OUCTP A-Aquifer during the Reporting Period (2019-4Q through 2020-3Q)**

COC Name	ACL (µg/L)	Maximum Concentration (µg/L)		Quarter Identified	Additional Comments
		Result	Location		
1,1-DCE	6.0	ND	N/A	N/A	No detections in the A-Aquifer; the last detection was in the 2016-2017 reporting period at MW-BW-50-A.
Total 1,2-DCE	6.0	0.22 J	EW-BW-135-A	2020-1Q	Located in EISB Deployment Area 2A; total 1,2-DCE was only detected in one other well (MW-BW-27-A in EISB Deployment Area 2B), which is similar to the previous reporting period (Ahtna, 2021).
CT	0.5	4.9	MW-BW-26-A	2020-1Q	EISB Deployment Area 2A; this detection decreased compared to the previous reporting period (Ahtna, 2021).
Chloroform	2.0	21.3	MW-BW-35-A	2019-4Q	Downgradient of EISB Deployment Area 2B MW-BW-36-A; maximum chloroform concentration trend since monitoring began in 2000 (Appendix B, Figure B30).

COC Name	ACL (µg/L)	Maximum Concentration (µg/L)		Quarter Identified	Additional Comments
		Result	Location		
Methylene Chloride	5.0	0.75 J	MW-BW-26-A MW-BW-65-A	2019-4Q 2020-2Q	EISB Deployment Area 2A and downgradient of Pilot Study. There were no detection in the previous reporting period (Ahtna, 2021).
PCE	5.0	0.14 J	EW-BW-124-A	2019-4Q	EISB Deployment Area 2A. PCE was only detected at EW-BW-124-A during the reporting period and has decreased since the previous reporting period (Ahtna, 2021).
TCE	5.0	1.2	EW-BW-124-A EW-BW-135-A	2019-4Q	EISB Deployment Area 2A. TCE has an overall decreasing or constant concentration trend below the ACL (Appendix B, Figures B8 and B11).
Vinyl chloride	0.1	0.050 J	EW-BW-135A	2020-1Q	EISB Deployment Area 2A. This was the only detection of vinyl chloride during the reporting period, similar to the previous reporting period (AGL, 2020).

The maximum concentrations of COCs detected during the reporting period are consistent with the maximum COC concentrations detected in the previous reporting period (Ahtna, 2021) and generally occurred at the same wells or in the same hydraulic zone and monitoring frequencies are included in Table 2.

Select A-Aquifer monitoring well COC concentration trends that are representative for each hydraulic zone are presented in Appendix B.<sup>14</sup> The extent of the CT plume has historically remained relatively stable through the reporting period; however, the CT plumes in the A-Aquifer exhibited some changes during the previous reporting period (Ahtna, 2021). The CT A-Aquifer plume changes during the reporting period are described below according to hydraulic zone as shown in the QAPP (AEI, 2019) and Appendix C:

- Hydraulic Zone 1:** This area encompasses the Lexington Court source area (Appendix C and Figure 11) and EISB Deployment Areas 1A, 1B, and 1C (Figure 13). The CT plume remained the same during the reporting period in this hydraulic zone. EW-BW-109-A was the only well with concentrations of CT above the ACL; however, this well is not connected to the main CT plume due to CT concentrations below the ACL in several wells to the north. Monitoring wells in EISB Deployment Areas 1A and 1B have been removed from the groundwater monitoring program due to low CT concentrations; however, wells in EISB Deployment Area 1C continue to be

<sup>14</sup> Hydraulic zones are based on the zone of groundwater with COC concentrations above ACLs and influenced by the groundwater remedy.

monitored. During the reporting period, the maximum CT concentration was 1.4 µg/L at EW-BW-109-A in the Fourth Quarter 2019 (Table 6 and Figure 8). Key monitoring well trends observed in this reporting period are discussed below and monitoring frequencies are included in Table 2.

- **EW-BW-109-A (Appendix B, Figure B5):** Located in EISB Deployment Area 1C. EW-BW-109-A is the only well in Hydraulic Zone 1 with CT concentrations above the ACL. CT concentrations have been above the ACL in this well since it was installed in 2009, except for one event in 2014. The historical maximum CT concentration was 6.6 µg/L in 2012. CT concentrations have been declining since 2014 and concentrations ranged from 0.63 to 1.4 µg/L during the reporting period.
- **EW-BW-112-A (Appendix B, Figure B6):** Located in EISB Deployment Area 1C. CT concentrations declined to ND after EISB treatment in 2010. This well was proposed for removal from the GWMP in the previous reporting period (Ahtna, 2021) and the last sample was collected during the reporting period in the Third Quarter 2020 (Table 9).
- **EW-BW-119-A (Appendix B, Figure B7):** Located in EISB Deployment Area 1C. CT concentrations were above the ACL from 2009 through 2014 and have been ND since 2016. This well was proposed for removal from the GWMP in the previous reporting period (Ahtna, 2021) and the last sample was collected during the reporting period in the Third Quarter 2020 (Table 9).
- **MP-BW-46-095 (Appendix B, Figure B21):** Located in EISB Deployment Area 1C adjacent to EW-BW-109-A. CT concentrations steadily declined since 2005, decreased below the ACL after EISB treatment in 2011, and have remained near or below the ACL since then, with the CT concentration at 0.13 µg/L during the reporting period. This well is proposed for removal from the GWMP (Section 4.0).
- **MW-BW-24-A (Appendix B, Figure B25):** Located south of EISB Deployment Area 2A and northwest of EISB Deployment Area 1C. CT was first detected at MW-BW-24-A above the ACL in 2008, with concentrations peaking in 2011 at 7.5 µg/L followed by declining concentrations from 2011 through 2013, which may be related to this monitoring well's location downgradient of EISB Deployment Area 1C. A significant increase in CT concentration was observed in 2016 (8.8 µg/L, the maximum historical concentration for this well), though concentrations have been declining since then. CT was ND during the reporting period. TCE concentrations follow a similar pattern to CT, though measured TCE concentrations were always below the ACL. This well is proposed for a reduction in monitoring frequency from quarterly to annually (Section 4.0).
- **Hydraulic Zone 2:** This area encompasses a portion of EISB Deployment Area 3A and downgradient areas east of the groundwater divide.<sup>15</sup> The extent of the CT plume in this area increased during the First Quarter 2020 event (Figure 9) when CT concentrations were detected above the ACL at monitoring wells MW-BW-58-A and MW-BW-94-AR. During the reporting period, seven monitoring wells in this area had concentrations of CT that were above the ACL,

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<sup>15</sup> EISB treatment at Deployment Area 3A was conducted from 2016 to 2017 (see Section 2.5.1.3).

with a maximum concentration of 2.6 µg/L at MW-BW-87-A (Figure 9). Key monitoring well trends observed in this reporting period are discussed below and monitoring frequencies are included in Table 2.

- **EW-BW-160-A (Appendix B, Figure B15):** Located in the northeastern area of EISB Deployment Area 3A and converted from an extraction well to a monitoring well after treatment was completed in 2017. CT concentrations have been above the ACL since the well was installed in 2016 with concentrations ranging from 1.2 µg/L to 2.2 µg/L during the reporting period.
- **MW-BW-85-A (Appendix B, Figure B43):** Located east of EISB Deployment Area 3A and east of the groundwater divide. CT concentrations in this well were near the ACL from when it was installed in 2015 until 2016, when CT concentrations increased to twice the ACL. CT concentrations during the reporting period ranged from 0.77 to 1.2 µg/L.
- **MW-BW-87-A (Appendix B, Figure B44):** Located in the northern section of EISB Deployment Area 3A and east of the groundwater divide. Since installation in 2015, CT concentrations had an increasing trend and reached the historical maximum of 5.1 µg/L in 2016. EISB treatment began in December 2016 and CT concentrations declined, with concentrations below the ACL in 2017. CT Concentrations increase above the ACL in 2018 and remained above the ACL through the reporting period, ranging from 1.5 µg/L to 2.6 µg/L.
- **MW-BW-90-A (Appendix B, Figure B47):** Located north of EISB Deployment Area 3A and east of the groundwater divide. Since installation in 2015, CT concentrations in this well were near the ACL, but began to increase in 2017 reaching the historical maximum of 1.9 µg/L in the Third Quarter 2020 event.
- **MW-BW-91-A (Appendix B, Figure B48):** Located in the east-central portion of EISB Deployment Area 3A and east of the groundwater divide. Since installation in 2015, CT concentrations in this well have been mostly above the ACL, with the historical maximum of 4.4 µg/L observed in 2015 and 2017. Since 2018, CT concentrations have been on a declining trend, ranging from 0.93 µg/L to 1.0 µg/L during the reporting period. Groundwater flow modeling indicated MW-BW-91-A was not directly in the pathway of sodium lactate substrate distribution (AEI, 2016), indicating variability in CT concentrations in this well is an indirect result of its proximity to the groundwater divide and upgradient EISB treatment reducing CT concentrations in portions of the A-Aquifer.
- **MW-BW-94-AR (Appendix B, Figure B51):** This monitoring well was installed in January 2019. After an initial detection of CT above the ACL, CT concentrations were below the ACL until 2020 and have been above the ACL since then, ranging from 0.49 µg/L to 0.64 µg/L during the reporting period. This well defined the boundary of the CT plume to the northeast, east of the groundwater divide; however, because CT concentrations were consistently above the CT ACL during the reporting period, monitoring well MW-40-01-A is proposed for quarterly monitoring (Section 4.0).
- **Hydraulic Zone 3:** This area encompasses a portion of EISB Deployment Area 3A and downgradient areas west of the groundwater divide. The extent of the CT plume in this area was

consistent during the reporting period. During the reporting period, three monitoring wells in this area had CT concentrations above the ACL, with the maximum CT concentration of 1.5 µg/L detected at MW-BW-88-A and MW-BW-95-A. Key monitoring well trends observed in this reporting period are discussed below and monitoring frequencies are included in Table 2.

- **EW-BW-166-A (Appendix B, Figure B17):** Located in the northwestern section of EISB Deployment Area 3A west of the groundwater divide. CT concentrations were above the ACL during EISB treatment in 2016 and 2017, with the historical maximum concentration of 1.7 µg/L observed at the beginning of EISB treatment. A decreasing trend started in 2018, with CT concentrations going below the ACL to ND in the First Quarter 2019. CT concentrations were ND during the reporting period. This well is proposed for a reduction in monitoring frequency from quarterly to annually (Section 4.0).
- **EW-BW-169-A (Appendix B, Figure B20):** Located in the southern section of EISB Deployment Area 3A west of the groundwater divide. CT concentrations were mostly above the ACL during EISB treatment in 2016 and 2017, with the historical maximum concentration of 1.0 µg/L observed at the beginning of EISB treatment. After EISB treatment was completed in 2017, CT concentrations have been consistently below the ACL and were ND during the reporting period.
- **MW-BW-56-A (Appendix B, Figure B34):** Located in the southern section of EISB Deployment Area 3A west of the groundwater divide. Measured CT concentrations were ND since installation in 2002. However, CT was detected at a concentration above the ACL in 2019 and the monitoring frequency for this well was increased to quarterly during the reporting period. Since then, CT concentrations were below the ACL (ranging from ND to 0.28 µg/L) during the reporting period.
- **MW-BW-93-A (Appendix B, Figure B50):** Monitoring well installed in 2018 and located north of EISB Deployment Area 3A. This well bounds the CT plume to the north and west of the groundwater divide. CT concentrations have been below the ACL, with concentrations ranging from 0.23 µg/L to 0.33 µg/L during the reporting period.
- **MW-BW-95-A (Appendix B, Figure B52):** Monitoring well installed in 2018 and located north of EISB Deployment Area 2B. Detection of CT in this well at concentrations above the ACL increased the CT plume extent to the north and west of the Marina Municipal Airport (formerly Fritzsche Army Airfield). CT concentrations ranged from 1.1 µg/L to 1.5 µg/L during the reporting period.
- **Hydraulic Zone 4:** This area encompasses the central part of the CT plume, including EISB Deployment Areas 2A and 2B and downgradient areas. During the reporting period, CT was detected at concentrations above the ACL in eight monitoring wells, with the maximum CT concentration of 4.9 µg/L detected at MW-BW-26-A in the First Quarter 2020 event (Figure 9). Additionally, the concentration of chloroform exceeded the ACL in four monitoring wells during the reporting period, with the maximum chloroform concentration of 21.3 µg/L detected at MW-BW-35-A in the Fourth Quarter 2019 event (Table 6). Key monitoring well trends observed in this reporting period are discussed below and monitoring frequencies are included in Table 2.

- **EW-BW-124-A (Appendix B, Figure B8):** Located in EISB Deployment Area 2A. The CT concentration in this well increased to a historical maximum of 20 µg/L in 2011 after EISB treatment was completed at Deployment Area 2A. CT concentrations have been declining since then, with CT concentrations ranging from ND to 0.33 J µg/L during the reporting period.
- **EW-BW-129-A (Appendix B, Figure B9):** Located in EISB Deployment Area 2A. This well was recommended for quarterly monitoring during the previous reporting period due to increasing CT concentrations at MW-BW-26-A (Ahtna, 2021). Quarterly monitoring began in the Second Quarter 2020 with CT concentrations ranging from 2.0 to 2.2 µg/L during the reporting period.
- **EW-BW-132-A (Appendix B, Figure B10):** Located in EISB Deployment Area 2B. The CT concentration in this well increased to a historical maximum of 9.3 µg/L in 2012 during EISB treatment, but declined after treatment was completed, with CT concentrations near the ACL since 2013. The CT concentrations were ND during the reporting period. This well is proposed for removal from the GWMP (Section 4.0).
- **EW-BW-155-A (Appendix B, Figure B14):** Located in EISB Deployment Area 2B. The CT concentration in this well increased to a historical maximum of 15.6 µg/L in 2013 after EISB treatment was completed. CT concentrations have been declining, with concentrations ranging from 0.12 J µg/L to 0.33 J µg/L during the reporting period.
- **MW-BW-17-A (Appendix B, Figure B24):** Located in EISB Deployment Area 2A. Recent CT concentrations have been below the ACL, with only two events above the ACL since 2014: in 2016 and 2018. During the reporting period CT concentrations ranged from ND to 0.42 J µg/L.
- **MW-BW-26-A (Appendix B, Figure B26):** Located in EISB Deployment Area 2A. CT has been consistently detected in this well at concentrations above the ACL since the well was installed in 2000, though this well is not within the main CT plume as indicated by CT concentrations in adjacent monitoring wells. A significant decline in CT concentrations at MW-BW-26-A was observed in 2011 due to local EISB treatment; however, concentrations increased again and reached the historical maximum of 6.9 µg/L in 2018. During the reporting period CT concentrations ranged from 3.3 to 4.9 µg/L.
- **MW-BW-28-A (Appendix B, Figure B27):** Located north of EISB Deployment Area 2B. CT concentrations declined below the ACL in 2001 but increased above the ACL in 2008, reaching a historical maximum of 2.3 µg/L in 2011. CT concentrations were above the ACL from 2008 through 2019 except for one event in 2016. CT concentrations declined to ND during the reporting period.
- **MW-BW-31-A (Appendix B, Figure B28):** Located in the central plume area downgradient of EISB Deployment Area 2B. During the reporting period, CT concentrations ranged from 0.33 J to 1.3 µg/L. Chloroform, a by-product of biodegradation of CT, was detected at concentrations ranging from 0.48 J to 2.3 µg/L during the reporting period.
- **MW-BW-35-A (Appendix B, Figure B30):** Located in the central plume area downgradient of EISB Deployment Area 2B. CT concentrations ranged from 0.12 J µg/L to 0.34 J µg/L during the reporting period. Chloroform concentrations were historically ND or below the ACL of

- 2.0 µg/L; however, during the reporting period chloroform concentrations increased to the historical maximum concentration of 21.3 µg/L in the Fourth Quarter 2019.
- **MW-BW-36-A (Appendix B, Figure B31):** Located in the central plume area downgradient of EISB Deployment Area 2B. CT was initially detected in this well in 2009 and reached a maximum concentration of 3.4 µg/L in 2015. Since then, CT concentrations have been on a declining trend, and ranged between 0.21 J µg/L and 0.71 µg/L during the reporting period. Chloroform concentrations increased above the ACL in 2018, reaching the maximum historical concentration of 7.5 µg/L in Third Quarter 2020.
  - **MW-BW-60-A (Appendix B, Figure B35):** Located in EISB Deployment Area 2B. CT concentrations increased to the maximum of 8.3 µg/L in 2011 during EISB treatment. After EISB treatment was completed, CT concentrations declined and went below the ACL in Third Quarter 2019, with concentrations ranging from 0.17 J µg/L to 0.36 J µg/L during the reporting period. This well is proposed for a reduction in monitoring frequency from quarterly to annually (Section 4.0).
  - **Hydraulic Zone 5:** This area encompasses the EISB Pilot Study area and downgradient areas in the City of Marina. During the reporting period CT concentrations in monitoring wells downgradient of the EISB Pilot Study area fluctuated above and below the ACL resulting in variability in the CT plume extent (Figures 8 through 11). During the reporting period, CT was detected at concentrations greater than the ACL in seven monitoring wells in this area, with the maximum concentration of 3.3 J+ µg/L at MW-BW-80-A in the Fourth Quarter 2019 event (Figure 8). Key monitoring well trends observed in this reporting period are discussed below and monitoring frequencies are included in Table 2.
    - **EISB-EW-01 (Appendix B, Figure B1):** Located in the EISB Pilot Study area. CT concentrations increased after EISB treatment to the historical maximum of 5.0 µg/L in 2008. CT concentrations have declined since then, and CT was detected at a concentration below the ACL during the reporting period, with concentrations ranging from 0.22 J µg/L to 0.36 J µg/L.
    - **EISB-EW-09 (Appendix B, Figure B3):** Located in the EISB Pilot Study area. CT concentrations increased after EISB treatment to the historical maximum of 6.5 µg/L in 2008 and have been on a declining trend since 2017, with concentrations ranging from 0.90 to 1.4 µg/L during the reporting period.
    - **MW-BW-49-A (Appendix B, Figure BC33):** Located downgradient of the EISB Pilot Study area in the City of Marina. CT concentrations in this well increased above the ACL in 2003 and reached a historical maximum concentration of 4.8 µg/L in 2004, followed by an overall declining trend through 2014. During the reporting period CT concentrations ranged from 0.33 J µg/L to 1.4 J+ µg/L.
    - **MW-BW-65-A (Appendix B, Figure B36):** Located downgradient of the EISB Pilot Study area in the City of Marina. CT concentrations have varied over time, with a maximum CT concentration of 1.6 µg/L in 2013. CT concentrations ranged from ND to 0.70 J+ µg/L during the reporting period.
    - **MW-BW-66-A (Appendix B, Figure B37):** Located in the EISB Pilot Study area. CT concentrations have been consistently above the ACL at this location, increasing to a

- historical maximum of 9.5 µg/L in 2011 with a declining trend since then. CT concentrations varied during the reporting period between 0.35 J and 1.1 µg/L.
- **MW-BW-74-A (Appendix B, Figure B38):** Located downgradient of the EISB Pilot Study area in the City of Marina. This well is sampled at two depths, one shallow near the groundwater surface and one deeper. CT concentrations were ND until 2010 and 2012 for the deep and shallow locations, respectively. CT concentrations in the shallow sample were ND and the deeper sample ranged from ND to 0.12 J µg/L during the reporting period. This well is proposed for a reduction in monitoring frequency from quarterly to annually (Section 4.0).
  - **MW-BW-75-A (Appendix B, Figure B39):** Located downgradient of the EISB Pilot Study area in the City of Marina. CT concentrations have been mostly below the ACL historically; however, there has been an increasing trend since 2017, with the maximum historical concentration at 2.2 µg/L detected during the reporting period in the Third Quarter 2020.
  - **MW-BW-79-A (Appendix B, Figure B40):** Located downgradient of the EISB Pilot Study area in the City of Marina. CT concentrations have been mostly below the ACL historically, with single detections above the ACL in 2007 and 2015 and a few above the ACL during the previous reporting period. During the reporting period, CT concentrations were below the ACL and ranged between 0.10 J and 0.26 J µg/. This well is proposed for a reduction in monitoring frequency from quarterly to annually (Section 4.0).
  - **MW-BW-80-A (Appendix B, Figure B41):** Located downgradient of the EISB Pilot Study area in the City of Marina. CT detections in this well have historically varied at concentrations near the ACL. CT concentrations ranged between 2.0 µg/L and the historical maximum of 3.3 J+ µg/L during the reporting period.
  - **MW-BW-82-A (Appendix B, Figure B42):** Located downgradient of the EISB Pilot Study area in the City of Marina. This well was recommended for quarterly monitoring during the previous reporting period due to increasing CT concentrations at MW-BW-75-A (Ahtna, 2021). Quarterly monitoring began in the Second Quarter 2020 with CT concentrations during the reporting period ranging from 1.1 to 1.2 µg/L. MW-BW-82-A is the furthest downgradient monitoring well; therefore, additional monitoring is proposed at adjacent monitoring well MW-BW-81-A (Section 4.0).

### 2.5.1.3 EISB Post-Treatment and Long-Term Monitoring

EISB was conducted between 2008 and 2012 and again from 2016 to 2017. Post-treatment and long-term monitoring are conducted at select wells in each of the seven deployment areas (Pilot Study, 1A, 1B, 1C, 2A, 2B, and 3A) within the OUCTP A-Aquifer. Water quality parameters are measured with a downhole meter at each well to collect DO, ORP, pH, specific conductance, temperature, and turbidity. These wells are also monitored for COCs with PDBs.<sup>16</sup> DO, ORP, and COC data for each well and each

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<sup>16</sup> In Deployment Area 3A monitoring wells were also sampled for a select list of COCs (CT, chloroform, methylene chloride, and TCE) using a low-flow pump. Analytical results for the select list of COCs were only collected at EISB Deployment Area 3A in the Fourth Quarter 2018 event (Table 6) and are discussed in the *OUCTP Remedial Action Summary Report Addendum* (AEI, 2020).



deployment area are evaluated for enhanced biodegradation and potential COC rebound in the OUCTP A-Aquifer.

Within each deployment area, DO and ORP return to baseline levels as untreated groundwater enters the area. The conditions in the downgradient wells are more favorable for EISB as indicated by lower DO and ORP values. Table 10 and Figure 13 show the EISB post-treatment parameter results during the reporting period. Monitoring results are summarized below:

- **Pilot Study Area:** Treatment was conducted from January to April 2008.<sup>17</sup> Two wells (EISB-EW-12 and EISB-EW-15) were monitored quarterly for water quality parameters in the EISB Pilot Study area during the reporting period. DO and ORP concentrations increased at these wells during the reporting period. DO concentrations indicate limited reducing conditions are present and have increased compared to the previous reporting period (Ahtna, 2021). Concentrations of CT in wells in the Pilot Study Area were generally below the ACL except at EISB-EW-09 and MW-BW-66-A (Figures 8 through 11) with the maximum CT concentration during the reporting period of 1.4 µg/L at EISB-EW-09. CT concentrations downgradient of the Pilot Study Area within the City of Marina increased at MW-BW-75-A, MW-BW-80-A, and MW-BW-82-A during the reporting period (Appendix B, Figures B39, B41, and B42).
- **Deployment Area 1A:** Treatment was conducted from September to November 2009 and post-treatment monitoring was completed in 2016. Long-term monitoring in Deployment Area 1A was completed in 2018 and no wells were monitored for water quality parameters during the reporting period.
- **Deployment Area 1B:** Treatment was conducted from March to June 2010 and post-treatment monitoring was completed in 2017. Long-term monitoring in Deployment Area 1B was completed in 2018 and no wells were monitored for water quality parameters during the reporting period.
- **Deployment Area 1C:** Treatment was conducted from August to November 2010. Three wells (EW-BW-112-A, EW-BW-119-A, and EW-BW-159-A) were monitored quarterly for water quality parameters in Deployment Area 1C during the reporting period. The DO concentrations remained relatively steady during the reporting period. The ORP concentrations increased at EW-BW-119-A and EW-BW-159-A and decreased at EW-BW-112-A. The DO and ORP concentrations at the monitored wells were comparable to the previous reporting period and indicate limited reducing conditions persist in this area (Ahtna, 2021 and Table 10). CT was detected at concentrations above the ACL at one location in Deployment Area 1C (EW-BW-109-A with a maximum concentration of 1.4 µg/L during the reporting period), which is similar to the previous reporting period (Ahtna, 2021).
- **Deployment Area 2A:** Treatment was conducted from February to June 2011. Three wells (EW-BW-124-A, EW-BW-135-A, and EW-BW-144-A) were monitored quarterly for water quality parameters in Deployment Area 2A during the reporting period. The DO concentrations were comparable to the previous reporting period with a notable increase at EW-BW-124-A and EW-

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<sup>17</sup> Treatment includes substrate injection and recirculation.

BW-135-A. ORP concentrations increased at EW-BW-124-A and EW-BW-159-A during the reporting period, indicating limited reducing conditions persist in this area. CT was detected at concentrations above the ACL at two locations in EISB Deployment Area 2A during the reporting period (EW-BW-129-A and MW-BW-26-A), with a maximum CT concentration of 4.9 µg/L at MW-BW-26-A. CT concentrations have been consistently above the ACL at MW-BW-26-A (Appendix B, Figure B26).

- **Deployment Area 2B:** Treatment was conducted from November 2011 to March 2012. Three wells (EW-BW-149-A, EW-BW-150-A, and EW-BW-155-A) were monitored quarterly for water quality parameters in Deployment Area 2B during the reporting period. The DO concentrations increased at the monitored wells during the reporting period, and increased compared to the previous reporting period, indicating limited reducing conditions are persisting in this area. ORP concentrations increased at the wells during the reporting period. CT was detected at concentrations above the ACL at MW-B-14-A with a maximum concentration of 0.73 µg/L at MW-B-14-A during the reporting period.
- **Deployment Area 3A:** Treatment was conducted from December 2016 to August 2017. Four wells (EW-BW-160-A, EW-BW-161-A, EW-BW-164-A, and EW-BW-166-A) in Deployment Area 3A were monitored for water quality parameters during the reporting period. DO and ORP concentrations increased during the reporting period (except DO at EW-BW-164-A and EW-BW-166-A). CT was above the ACL at three locations during the reporting period (EW-BW-160-A, MW-BW-87-A, and MW-BW-91-A) with a maximum CT concentration of 2.6 µg/L at MW-BW-87-A. The EISB treatment system was decommissioned in January 2019. The processing system container and wellhead equipment were stored at the Fort Ord Landfills for potential future EISB deployment. Detailed results of EISB treatment in Deployment Area 3A and recommendations are presented in the OUCTP Remedial Action Summary Report Addendum (AEI, 2020).

## 2.5.2 Upper 180-Foot Aquifer

### 2.5.2.1 Water Levels

Depth to groundwater measurements were collected from 39 OUCTP Upper 180-Foot Aquifer wells during the reporting period. Measurements and calculated groundwater elevations are presented in Table 5. Groundwater elevation contours for the OUCTP Upper 180-Foot Aquifer are presented in Figures 14 through 17 and were consistent with previous contours. Hydrographs of representative Upper 180-Foot Aquifer wells are shown in Figure 18. Groundwater elevations decreased by 2.5 feet on average since the Second Quarter 2020 (Ahtna, 2020) and increased by 0.46 of a foot on average compared to Third Quarter 2019 (Ahtna, 2021). The average OUCTP Upper 180-Foot Aquifer groundwater elevation for all monitoring wells follows a seasonal cycle with elevations at their peak in the first quarter (March) and at their lowest in the third quarter (September) each year.

During the reporting period, groundwater elevations and flow directions in the eastern Upper 180-Foot Aquifer were consistent with previous trends. The hydrographs presented in Figure 18 illustrate the variability in Upper 180-Foot Aquifer groundwater elevations at OUCTP from September 1999 through September 2020. Groundwater elevations in the eastern Upper 180-Foot Aquifer fluctuate seasonally in

response to variations in precipitation and drainage through the natural discontinuity in the Intermediate 180-Foot Aquitard to the Lower 180-Foot Aquifer due to local pumping from active supply wells and regional pumping from the Salinas Valley (HLA, 1995 and MACTEC, 2006).

### 2.5.2.2 Groundwater COC Concentrations

The following summarizes GWMP events during the reporting period.

- During the Fourth Quarter 2019 groundwater samples were collected at nine OUCTP Upper 180-Foot Aquifer well locations. Analytical results for these samples are presented in Table 11 and CT concentrations and COC contours at the ACL are shown in Figure 19.
- During the First Quarter 2020 groundwater samples were collected at eight OUCTP Upper 180-Foot Aquifer well locations. Analytical results for these samples are presented in Table 11 and CT concentrations and COC contours at the ACL are shown in Figure 20.
- During the Second Quarter 2020 groundwater samples were collected at ten OUCTP Upper 180-Foot Aquifer well locations. Analytical results for these samples are presented in Table 11 and CT concentrations and COC contours at the ACL are shown in Figure 21.
- During the Third Quarter 2020 groundwater samples were collected at 13 OUCTP Upper 180-Foot Aquifer well locations. Analytical results for these samples are presented in Table 11 and CT concentrations and COC contours at the ACL are shown in Figure 22.

Figure 23 shows historical and current CT ACL exceedance contours for 2007 and 2020, respectively. A summary of analytical data during the reporting period is presented in Appendix A with the VSR presented in Appendix B. Appendix C contains CT historical trend charts for select OUCTP monitoring wells.

The maximum CT concentration detected in the Third Quarter 2020 was 6.6 J+  $\mu\text{g/L}$  at MW-OU2-64-180 (Table 11 and Figure 22). The maximum CT concentration detected during the reporting period was 8.8  $\mu\text{g/L}$  at MW-OU2-64-180 in the Fourth Quarter 2019 (Table 11 and Figure 19). This was similar to the maximum CT concentration of 8.9  $\mu\text{g/L}$  detected at MP-BW-46-170 in the previous reporting period (Ahtna, 2020). A detailed discussion of the CT plumes and trends in the OUCTP Upper 180-Foot Aquifer are presented below according to hydraulic zone as shown in the QAPP (AEI, 2019) and Appendix C.

OUCTP Upper 180-Foot Aquifer Hydraulic Zone 6 encompasses two distinct CT plumes, which were historically one plume (Figure 23). The CT plumes were similar in extent and concentration during the reporting period (Figures 19 through 22) and were similar to the previous reporting period (Ahtna, 2021). CT concentrations were above the ACL at four monitoring wells in the Upper 180-Foot Aquifer during the reporting period. The extraction well and key monitoring wells located in OUCTP Upper 180-Foot Aquifer Hydraulic Zone 6 are discussed below.

- **Extraction Well EW-OU2-09-180 (Appendix B, Figure B53):** EW-OU2-09-180 is the extraction well installed in 2011 for the OUCTP Upper 180-Foot Aquifer remedy and is located between the two CT plumes. CT was ND in this well until 2014. Since then, there have been several estimated detections at concentrations below the ACL, with the historical maximum of 0.21 J  $\mu\text{g/L}$  detected in 2016; however, CT has been ND since 2018. EW-OU2-09-180 was operational 91 percent of the time during the reporting period at an average flow rate of 58 gallons per minute.

Downtime included maintenance activities at the OU2 GWTP, power outages, and communications losses. Due to low COC concentrations, operational downtime did not have any discernable effect on local CT concentration trends nor the extent of the CT plume in the Upper 180-Foot Aquifer.

- **Northern CT Plume:** Historically the northern CT plume has been defined by two monitoring wells.
  - **MP-BW-46-170 (Appendix B, Figure B54):** Defines the northern extent of the northern CT plume. CT concentrations have been above the ACL at this well since it was installed in 2003, with an overall increasing CT trend that reached a historical maximum of 8.9 µg/L during the previous reporting period (Ahtna, 2021). This part of the northern CT plume is within the modeled capture area of EW-OU2-09-180.<sup>18</sup> CT concentrations ranged from 4.0 J+ µg/L to 6.5 µg/L during the reporting period. Due to the increasing trend, indicating a possible upgradient CT source, two upgradient monitoring wells (MW-BW-21-180 and MW-BW-43-180) were sampled in the Second Quarter 2020 and Third Quarter 2020 and CT concentrations were below the ACL.
  - **MW-BW-52-180 (Appendix B, Figure B55):** Defines the southern extent of the northern CT plume. Following installation in 2003, CT concentrations increased to the historical maximum of 4.4 µg/L in 2004 and have remained above the ACL since, but with an overall declining trend. During the reporting period, CT concentrations ranged from 0.52 to 0.92 µg/L. This part of the northern CT plume is within the modeled capture area of EW-OU2-09-180.<sup>19</sup>
- **Southern CT Plume:** Historically the southern CT plume has been defined by two monitoring wells. The southern CT plume is not in the modeled capture area of EW-OU2-09-180.<sup>20</sup>
  - **MW-BW-57-180 (Appendix B, Figure B56):** This well was installed in September 2018 and the CT concentration increased above the ACL during the reporting period, with concentrations ranging from 0.96 to 1.1 µg/L. This well defines the northern extent of the southern CT plume.
  - **MW-OU2-64-180 (Appendix B, Figure B57):** MW-OU2-64-180 was installed in 1999 and CT concentrations were below the ACL until 2005. Concentrations of CT in MW-OU2-64-180 appear to vary seasonally, with lower concentrations typically observed during Second Quarter events and higher concentrations typically observed during Fourth Quarter events. There was an overall increasing CT concentration trend between 2004 and 2014, reaching a historical maximum of 10.5 µg/L in 2014. During the reporting period, CT concentrations ranged from 4.3 to 8.8 µg/L.
  - **MW-OU2-67-180 (Appendix B, Figure B58):** Located southeast of the southern CT plume in the Upper 180-Foot Aquifer. CT was ND in this well from when it was installed in 1999 until 2016, when an estimated concentration was observed. The CT concentration was above the

<sup>18</sup> See the *OU2 Fourth Quarter 2019 through Third Quarter 2020 Groundwater Monitoring and Treatment System Report* (OU2 Annual Report).

<sup>19</sup> See the OU2 Annual Report.

<sup>20</sup> See the OU2 Annual Report.

ACL twice at MW-OU2-67-180 in 2017 and 2018, reaching the historical maximum concentration of 0.71 µg/L in 2017. The CT concentration ranged from ND to 0.11 J µg/L during the reporting period.

### 2.5.3 Lower 180-Foot Aquifer

#### 2.5.3.1 Water Levels

Depth to groundwater measurements were collected from 91 OUCTP Lower 180-Foot/400-Foot Aquifers wells during the reporting period. Measurements and calculated groundwater elevations are presented in Table 5. Groundwater elevation contours for the OUCTP Lower 180-Foot/400-Foot Aquifers are presented in Figures 25 through 28, and hydrographs of representative Lower 180-Foot Aquifer monitoring wells presented in Figure 29. Groundwater elevations decreased by 2.6 feet on average since the Second Quarter 2020 (Ahtna, 2020) and decreased by 0.48 of a foot on average compared to Third Quarter 2019 (Ahtna, 2021). The average OUCTP Lower 180-Foot/400-Foot Aquifers groundwater elevation for all monitoring wells follows a seasonal cycle with elevations at their peak in the first quarter (March) and at their lowest in the third quarter (September), similar to the Upper 180-Foot Aquifer.

During the reporting period, groundwater elevations and flow directions in the Lower 180-Foot Aquifer were consistent with previous trends. The hydrographs presented in Figure 29 illustrate the variability in Lower 180-Foot Aquifer groundwater elevations at OUCTP from September 1997 through September 2020. Groundwater elevations in the eastern Lower 180-Foot Aquifer fluctuate seasonally in response to variations in precipitation, pumping from active local supply wells, and regional agricultural pumping in the Salinas Valley.

#### 2.5.3.2 Groundwater COC Concentrations

The Lower 180-Foot Aquifer COCs are CT and 1,2-DCA. Though not a COC, TCE is monitored to evaluate for potential impacts to downgradient supply wells. Typically, CT and TCE concentrations vary seasonally, consistent with the seasonal variations in groundwater elevations described above.

The following summarizes GWMP events during the reporting period.

- During the Fourth Quarter 2019 groundwater samples were collected at 18 OUCTP Lower 180-Foot Aquifer well/multiport locations. Analytical results for these samples are presented in Table 12; CT and TCE concentrations and COC contours at the ACL are shown in Figure 30.
- During the First Quarter 2020 groundwater samples were collected at 18 OUCTP Lower 180-Foot Aquifer well/multiport locations. Analytical results for these samples are presented in Table 12; CT and TCE concentrations and COC contours at the ACL are shown in Figure 31.
- During the Second Quarter 2020 groundwater samples were collected at 18 OUCTP Lower 180-Foot Aquifer well/multiport locations. Analytical results for these samples are presented in Table 12; CT and TCE concentrations and COC contours at the ACL are shown in Figure 32.
- During the Third Quarter 2020 groundwater samples were collected at 20 OUCTP Lower 180-Foot Aquifer well/multiport locations. Analytical results for these samples are presented in Table 12; CT and TCE concentrations and COC contours at the ACL are shown in Figure 33.

Figure 34 shows historical and current CT ACL exceedance contours for 2001 and 2020. The VSRs are presented in Appendix A. Appendix B contains CT historical trend charts for select OUCTP monitoring wells.

The maximum CT concentration detected in the Lower 180-Foot Aquifer for the Third Quarter 2020 was 2.2 µg/L at MP-BW-49-316. The maximum CT concentration detected during the reporting period was 3.1 µg/L at MP-BW-49-316 during the Second Quarter 2020. This was similar to the maximum CT concentration of 2.4 µg/L detected at MP-BW-49-316 in the previous reporting period (AGL, 2020e).

During the reporting period, 1,2-DCA was ND in the OUCTP Lower 180-Foot Aquifer (Table 12) similar to the previous reporting period (Ahtna, 2021).

TCE is not a COC for OUCTP in the Lower 180-Foot Aquifer; however, TCE concentrations are monitored to evaluate potential impacts to downgradient Fort Ord supply wells FO-29, FO-30, and FO-31, as discussed in Section 2.5.4 and shown in Figures 30 through 33. The maximum TCE concentrations for the Lower 180-Foot Aquifer for the Third Quarter 2020 (9.8 µg/L) and for the reporting period (10.9 µg/L in the Second Quarter 2020) were detected at MW-BW-59-180. TCE was detected above the MCL in one Lower 180-Foot Aquifer well (MW-BW-59-180) during the reporting period.<sup>21</sup>

A detailed discussion of the CT plumes and trends in the OUCTP Lower 180-Foot Aquifer is presented below according to hydraulic zone, as shown in the QAPP (AEI, 2019) and Appendix C.

- **Hydraulic Zone 7:** The southern CT plume monitoring area is encompassed by Hydraulic Zone 7. The extent of the southern CT plume during the reporting period was consistent with the previous reporting period (Figures 30 through 33). Three monitoring wells had CT concentrations above the ACL during the reporting period, with the maximum CT concentration of 3.1 µg/L at MP-BW-49-316. Key monitoring wells located in Hydraulic Zone 7 are discussed below.
  - **MP-BW-49-316 (Appendix B, Figure B68):** CT concentrations have been above the ACL at this multipoint location since it was installed in 2011, with a historical maximum of 3.1 µg/L in 2020. CT concentrations ranged from 1.8 to 3.1 µg/L during the reporting period.
  - **MP-BW-49-400 (Appendix B, Figure B69):** TCE concentrations at this multipoint location were on an increasing trend since it was installed in 2011, but have been relatively stable since 2014, with a historical maximum of 5.0 µg/L in 2015. TCE concentrations ranged from ND to 4.4 µg/L during the reporting period.
  - **MP-BW-50-339 (Appendix B, Figure B70):** CT concentrations have varied at this location since it was installed in 2011, with a historical maximum of 1.3 µg/L detected in 2019. CT concentrations ranged from 0.48 µg/L to 1.2 µg/L during the reporting period.
  - **MW-OU2-69-180 (Appendix B, Figure B75):** CT concentrations were below the ACL until 2002, with a historical maximum of 1.1 µg/L detected in 2005 and 2020. CT concentrations

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<sup>21</sup> The MCL is the maximum concentration of a chemical that is allowed in public drinking water systems. Federal MCLs are established by USEPA and California MCLs are established by the State Department of Public Health. The Federal and California MCL for TCE is 5.0 µg/L.

have varied near the ACL, with an overall increasing trend since 2017. During the reporting period the CT concentration ranged from 0.91 µg/L to 1.1 µg/L.

- **Hydraulic Zone 8:** The northern CT plume monitoring area is encompassed by Hydraulic Zone 8. No monitoring wells (Airfield and Mini-Storage) had detections of CT above the ACL during the reporting period (Figures 30 through 33). The monitoring wells in this area show a reduction in CT concentrations since 2015. Key monitoring wells located in Hydraulic Zone 8 are discussed below.
  - **Airfield (Appendix B, Figure B59):** Located at the Marina Municipal Airport. The CT concentration increased to the historical maximum of 3.0 µg/L in 2002. Concentrations have exhibited an overall decreasing trend since then. During the reporting period, CT concentrations ranged from 0.30 J to 0.44 J µg/L. This well is proposed for moving to annual monitoring frequency (Section 4.0).
  - **Mini-Storage (Appendix B, Figure B64):** A privately owned irrigation well located outside the boundary of the former Fort Ord that is monitored annually. The historical maximum CT concentration of 6.95 µg/L was detected in 2000. Concentrations have declined since then and have been below the ACL since 2015. In the Third Quarter 2020, the CT concentration was 0.36 J µg/L.

#### 2.5.4 Supply Wells

Fort Ord supply wells include FO-29, FO-30, and FO-31, which are owned and operated by the Marina Coast Water District and are downgradient of VOC concentrations associated with OU2 and OUCTP in the Lower 180-Foot Aquifer (Figures 30 through 33).<sup>22</sup>

The maximum detected TCE concentration for the reporting period was 1.8 µg/L in the sample collected from FO-29 in the Second and the Third Quarter 2020 (Table 12). TCE was first detected at FO-29 in 2000 (Appendix B, Figure B61). Detected TCE concentrations at FO-30 and FO-31 are lower, ranging from ND to 0.52 µg/L at FO-30 and ND to 0.85 µg/L at FO-31 during the reporting period (Table 12), though there is no discernable increasing or decreasing TCE trend at these wells (Appendix B, Figures B62 and B63). TCE has not been detected at the supply wells at concentrations exceeding the MCL of 5.0 µg/L.

The maximum detected CT concentration for the reporting period was at 0.24 J µg/L at FO-30 in the Second Quarter 2020 (Table 12). CT was ND until 2016 at FO-29 and FO-30 and until 2017 at FO-31 (Appendix B, Figures B61, B62, and B63). CT concentrations at the supply wells reached the historical maximum concentrations at FO-30 and FO-31 during the reporting period; however, the concentrations remain estimated below the limit of quantitation. CT has not been detected at the supply wells at concentrations exceeding the ACL of 0.50 µg/L.

The detections of CT in the supply wells from 2016 through the reporting period are due to the change in analytical method from USEPA Method 524.2 to USEPA Method 8260 SIM in 2016. This method was used so that detectable low-level concentrations of COCs between the detection limit and limit of

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<sup>22</sup> The supply wells continue to be referred to as FO-29, FO-30, and FO-31 in the GWMP, though they have been renamed by the Marina Coast Water District as 29(A), 30(B), and 31(C), respectively.

quantitation would be reported (estimated results below the limit of quantitation are not reported using USEPA Method 524.2) and the results could be used for project decision-making. While a seasonal cycle in CT concentrations in the supply wells is apparent, there was no increasing CT concentration trend in the supply wells during the reporting period based on the available data.

There are no increasing CT nor TCE concentration trends in monitoring wells upgradient of the supply wells (Appendix B, Figures B76 and B72). MW-BW-04-180, which is upgradient of FO-30, had a CT concentration of 0.45 J µg/L during both the reporting period and the previous reporting period (Appendix B, Figure B73 and Ahtna, 2021).

### 2.5.5 Data Validation and Quality Control Assessment

Fourteen duplicate samples were collected during the Third Quarter 2020 GWMP at OUCTP. Trip blanks, field blanks, and equipment blanks were also collected during the GWMP event.<sup>23,24,25</sup> Target analytes were not detected in these samples.

Data validation for the Third Quarter 2020 GWMP event was performed per QAPP guidelines (AEI, 2019) and the validation summary report is provided in Appendix A. Seventeen GWMP results required qualification based on 100 percent Stage 2B and 10 percent Stage 4 data validation review. Ten results were qualified with an estimated limit of detection (“UJ” qualifier) for ND results and estimated results qualified with a low bias (J-) or high bias (J+) due to a surrogate outside the control limits. Seven results were qualified with an estimated limit of detection (“UJ” qualifier) for ND results and estimated results qualified with a low bias (J-) due to headspace in the sample vial. All GWMP data are considered acceptable and suitable for use.

The laboratory assigns data qualifiers when analytical results are less than the laboratory limit of quantification or quality control measures are not met. Laboratory qualifiers include a “U” meaning the analyte was ND at or above the limit of detection and a “J” meaning the analyte was detected at or above the detection limit but below the limit of quantitation.

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<sup>23</sup> Trip blanks are laboratory provided sample bottles filled with analyte free water that are not opened, but travel with regular field samples.

<sup>24</sup> Field blanks are sample bottles filled with analyte free water from an unused PDB during regular field sampling.

<sup>25</sup> Equipment blanks are sample bottles filled with analyte free decontamination water from cleaning the reusable sample pump used to sample the multipoint Westbay monitoring wells which are designated with “MP” well location identification instead of “MW”.



### 3.0 Interpretation of Progress Toward System Goals

As described in the OUCTP ROD (Army, 2008), the goal of the OUCTP groundwater remedy is to comply with Federal and State laws and regulations by returning groundwater to a condition that will allow beneficial use, including potential future use as a source for drinking water, industrial water, and agricultural water. These goals are accomplished through EISB and MNA in the A-Aquifer, hydraulic control and containment of contaminated groundwater through extraction and treatment of groundwater exceeding ACLs in the Upper 180-Foot Aquifer, and MNA in the Lower 180-Foot Aquifer.

#### 3.1 Progress with Respect to Short-Term Goals

Short-term goals for all three OUCTP groundwater remedial units (i.e., the remedies for all three aquifers) are summarized below. Based on comparisons of the observed COC distribution to EISB deployment areas in the A-Aquifer, hydraulic capture areas in the Upper 180-Foot Aquifer, and water supply wells in the Lower 180-Foot Aquifer, improvements are possible and recommended:

**A-Aquifer:** EISB Deployment Areas are shown on Figure 13 and A-Aquifer Hydraulic Zones are shown in Appendix C on Figure C1. EISB treatment resulted in a reduction of CT concentrations to below the ACL during the 2017-2018 reporting period in EISB Deployment Areas 1A and 1B in Hydraulic Zone 1 and sampling was discontinued. Elevated CT concentrations persist in northern Hydraulic Zone 1 at EISB Deployment Area 1C well EW-BW-109-A, though CT concentrations have been on a declining trend since 2014 (Appendix B, Figure B5), and MW-BW-24-A, though CT concentrations declined to ND during the reporting period (Appendix B Figure B25). The overall CT plume extent in Hydraulic Zone 2 was reduced due to treatment at EISB Deployment Area 3A. Future EISB treatment in Deployment Area 3A is not recommended at this time. However, the CT concentrations downgradient of EISB Deployment Area 3A have increased above the ACL at MW-BW-94-AR (Appendix B, Figure B51), and additional monitoring is recommended at downgradient monitoring well MW-40-01-A (Section 4.0). The CT plume extent in Hydraulic Zone 3 remained consistent during the reporting period. CT concentration trends in Hydraulic Zone 4 may indicate an overall reduction in CT mass, though this area had the maximum detected concentrations of CT (MW-BW-26-A) and chloroform (MW-BW-35-A) for the OUCTP A-Aquifer during the reporting period. MW-BW-26-A is located at the western extent of EISB Deployment Area 2A. While CT concentrations at MW-BW-26-A initially declined as a result of EISB at Deployment Area 2A, they have been on an increasing trend since the completion of recirculation (Appendix B, Figure B26), indicating an upgradient source of CT that was not completely remediated by EISB at Deployment Area 2A. During the reporting period, three EISB Deployment Area 2A extraction wells (EW-BW-129-A, EW-BW-140-A, and EW-BW-144-A) were added to the quarterly monitoring schedule to better define the plume and monitor CT concentrations near MW-BW-26-A. CT concentrations in Hydraulic Zone 5 increased during the reporting period and will continue to be monitored. During the reporting period, two monitoring wells (MW-BW-82-A and MW-BW-83-A) were added to the quarterly monitoring schedule to better define the downgradient CT plume extent. Additional monitoring is recommended at downgradient monitoring well MW-BW-81-A where CT had historically been ND (Section 4.0).

**Upper 180-Foot Aquifer:** CT has been ND in EW-OU2-09-180 since 2018 (Appendix B, Figure B53) and CT was detected at concentrations above the ACL in cross-gradient monitoring wells MW-BW-57-180 and MW-OU2-64-180 during the reporting period. Therefore, additional groundwater extraction is recommended to improve hydraulic control and containment of the OUCTP in this aquifer due to persistent CT plumes outside of the capture area of EW-OU2-09-180 (see the OU2 Annual Report). MP-BW-46-170 defines the northern extent of the northern CT plume, and CT concentrations at this location have been above the ACL at this multiport well since it was installed in 2003, with an overall increasing CT concentration trend that reached a historical maximum of 8.9 µg/L in 2019, indicating an upgradient source of CT. During the reporting period, CT at MP-BW-46-170 was detected at 6.5 µg/L. No CT was detected above the ACL in upgradient wells in this area (MW-BW-21-180 and -43-180) during the reporting period.

**Lower 180-Foot Aquifer:** MNA has been effective in the short-term for OUCTP in the Lower 180-Foot Aquifer, particularly for the northern area, and groundwater monitoring will continue accordingly. The extent of the TCE increased in the Lower 180-Foot Aquifer based on data from new well MW-BW-59-180, and this area will continue to be monitored. CT is now being detected in the water supply wells due to the change in analytical method used for samples collected from FO-29, FO-30 and FO-31; however, these concentrations are estimated and below the CT ACL of 0.50 µg/L with no evidence of an increasing trend. Therefore, implementation of the wellhead treatment contingency for CT is not required (Shaw, 2010). TCE was the only other VOC detected in the supply wells, and concentrations remain below the MCL of 5.0 µg/L. Water from these wells continues to meet all State and Federal guidelines for drinking water.

### 3.2 Progress with Respect to Long-Term Goals

The long-term goal is the closure of all three OUCTP groundwater remedial units (i.e., the remedies for all three aquifers). This goal includes attainment monitoring to evaluate whether concentrations of COCs will remain below ACLs. It was estimated that long-term remedy goals for all three OUCTP groundwater remedial units would be achieved in 30 years from implementation of the remedy (Army, 2008).

**A-Aquifer:** monitoring is conducted for VOCs and natural attenuation parameters throughout the duration of EISB treatment and follow-up monitoring to assess the potential for concentrations of COCs to 'rebound' after treatment is discontinued for a duration of 20 years (Army, 2008). EISB treatment was initiated in 2009; therefore, remedy completion is estimated to be in 2029. Progress toward achieving long-term goals is currently being accomplished through:

- Continued monitoring of the effectiveness of EISB in each of the deployment areas.
- Evaluation of additional EISB in existing or new deployment areas.
- Data collection for the GWMP, which supports the implementation of QAPP decision rules for modification of the GWMP and termination of the groundwater remedies as described in Section 1.3.

There are five hydraulic zones for OUCTP in the A-Aquifer and progress with respect to long-term goals varies in each zone:

- Hydraulic Zone 1: the overall CT plume extent in this zone was reduced due to treatment at EISB Deployment Areas 1A, 1B, and 1C. There were declining CT concentrations above the ACL observed in this zone during the reporting period at EW-BW-109-A (see Section 2.5.1.2). CT concentration trends in this well indicate long-term remedy goals could be achieved by 2024 (Appendix B, Figure B5).
- Hydraulic Zone 2: the overall CT plume extent in this zone was reduced due to treatment at EISB Deployment Area 3A. Future EISB treatment in Deployment Area 3A is not recommended at this time, though CT concentrations exceeded the ACL in seven wells in Hydraulic Zone 2 during the reporting period (see Section 2.5.1.2), because no CT concentrations were more than one order of magnitude greater than the ACL (Tables 6 through 9). Variability in historical CT concentrations in this zone prevents prediction of future concentration trends; therefore, further progress with respect to long-term goals will be assessed based on the results of future data collection.
- Hydraulic Zone 3: the CT plume extent in the southern part of this zone was reduced due to treatment at EISB Deployment Area 3A. Downgradient wells in this zone exhibit differing CT concentration trends, with MW-BW-88-A decreasing (Appendix B, Figure B45), MW-BW-89-A decreasing (Appendix B Figure B46), and MW-BW-95-A stable (Appendix B, Figure B52); however, no CT concentrations were more than one order of magnitude greater than the ACL during the reporting period (Tables 6 through 9). This variability in CT concentration trends between wells in this zone requires progress with respect to long-term goals to be further assessed based on the results of future data collection.
- Hydraulic Zone 4: the maximum concentration of CT observed in this zone during the reporting period was at MW-BW-26-A, which is at the upgradient extent of this zone within EISB Deployment Area 2A (see Section 2.5.1.2). A decreasing CT concentration trend in this well since 2018 indicates long-term remedy goals could be achieved by 2022 (Appendix B, Figure B26). Downgradient wells in Hydraulic Zone 4 show decreasing CT concentration trends, with concentration near or below the ACL.
- Hydraulic Zone 5: the CT plume extent in the area of the former Fort Ord boundary was reduced due to treatment at the EISB Pilot Study area and decreasing CT concentration trends in this area indicate long-term remedy goals could be achieved by 2023 (Appendix B, Figures B3 and B37); however, downgradient wells in this zone exhibit differing CT concentration trends, with MW-BW-75-A and MW-BW-80-A increasing (Appendix B, Figures B39 and B41), MW-BW-74-A decreasing (Appendix B, Figure B38), and MW-BW-49-A flat (Appendix B, Figure B33). No CT concentrations were more than one order of magnitude greater than the ACL during the reporting period (Tables 6 through 9). This variability in CT concentration trends between wells in this zone requires progress with respect to long-term goals to be further assessed based on the results of future data collection.

**Upper 180-Foot Aquifer:** the remedy is a containment approach that includes a pumping scenario for migration control of the groundwater CT plume with aboveground treatment and reinjection of treated water back into the aquifer. The results of groundwater modeling simulation indicated this remedy would be effective in containing and remediating the majority of the Upper 180-Foot Aquifer CT plume

to below the ACL levels within a time period of approximately 30 years (Army, 2008). Groundwater extraction and treatment was initiated in 2011; therefore, remedy completion is estimated to be in 2041. Progress toward achieving long-term goals is currently being accomplished through:

- Continued operation of EW-OU2-09-180 to maintain hydraulic control and containment of the OUCTP in the Upper 180-Foot Aquifer.
- Data collection for the GWMP, which supports the implementation of QAPP decision rules for GWTS operations and termination of the groundwater remedies as described in Section 1.3.
- Expansion of the groundwater remedy to expedite progress toward achieving long-term goals.

Hydraulic Zone 6 defines the area of OUCTP in the Upper 180-Foot Aquifer. Progress with respect to long-term goals is affected by the same issues identified for progress with respect to short-term goals (Section 3.1). Therefore, progress toward achieving long-term goals should be assessed after implementation of additional groundwater extraction to improve hydraulic control and containment of the OUCTP in this aquifer.

**Lower 180-Foot Aquifer:** the remedy assumes CT plume(s) would naturally attenuate over a period of approximately 30 years to meet remedial action objectives with a contingency for wellhead treatment at water supply wells if CT associated with OUCTP is detected in these wells at concentrations above the ACL (Army, 2008). Additional groundwater monitoring wells were installed in 2011 to implement the MNA remedy; therefore, remedy completion is estimated to be in 2041. Progress toward achieving long-term goals is currently being accomplished through data collection for the GWMP, which supports the implementation of QAPP decision rules for GWTS operations, modification of the GWMP, and termination of the groundwater remedies as described in Section 1.3.

Hydraulic Zone 7 encompasses the southern area of OUCTP in the Lower 180-Foot Aquifer. The CT plume in this zone has historically been defined by three wells (Figures 28 through 31). These three wells exhibit persistent CT concentrations greater than the ACL, though there is no significant trend given the strong seasonal variation in CT concentrations (Appendix B, Figures B68, B70, and B75). While natural attenuation processes may be occurring in Hydraulic Zone 7, as indicated by CT concentrations in downgradient wells remaining consistently below the ACL (Appendix B, Figures B61, B62, B63, B72, and B73), the persistent CT concentrations in this zone suggest the OUCTP in the Upper 180-Foot Aquifer continues to be a source of CT to the Lower 180-Foot Aquifer. Therefore, progress with respect to long-term goals is adversely affected and should be assessed after implementation of additional groundwater extraction in the Upper 180-Foot Aquifer to improve hydraulic control and containment of the OUCTP.

Hydraulic Zone 8 encompasses the northern area of OUCTP in the Lower 180-Foot Aquifer. The CT plume in this zone has historically been defined by the downgradient Airfield well and the upgradient Mini-Storage well (Figures 30 through 33). A decreasing trend in CT concentrations at the Airfield well since 2015 (Appendix B, Figure B59) and CT concentrations below the ACL at the Mini-Storage well over the last several quarters indicate long-term goals have been accomplished in Hydraulic Zone 8. Due to low CT concentrations, annual monitoring was completed at the Mini-Storage well during the reporting period as recommended during the previous reporting period (Ahtna, 2021). The Airfield well is recommended for a reduction in sampling frequency from quarterly to annually (Section 4.0) per QAPP decision rules (AEI, 2019).

### 3.3 Gaps or Inconsistencies in the Conceptual Site Model

There are potential gaps or inconsistencies in the conceptual site model related to persistent CT concentrations above the ACL in both the A-Aquifer and the Upper 180-Foot Aquifer.

One A-Aquifer groundwater monitoring well (MW-BW-95-A) was installed in September 2018 to the northwest and downgradient of Deployment Area 3A as part of ongoing remedial activities at OUCTP (Ahtna, 2021), and CT has been detected in this well at concentrations exceeding the ACL by an order of magnitude. This well is located in the former Operable Unit 1 (OU1) area within the upgradient extent of an FO-SVA Channel Low, a preferential pathway for groundwater contaminants in the A-Aquifer (HGL, 2016). All other groundwater wells associated with OU1 have been decommissioned; therefore, additional investigation is recommended to determine how the CT detected at MW-BW-95-A is connected to the previously defined CT plume in the A-Aquifer and how far downgradient CT is present in the FO-SVA Channel Low (see Section 4.1).

In the Upper 180-Foot Aquifer south of Reservation Road and west of Imjin Parkway, the overall increasing CT concentration trend at MP-BW-46-170, which currently defines the northern extent of the northern CT plume in the Upper 180-Foot Aquifer, indicates an upgradient source of CT. As described in Section 1.2, The CT plume migrated from the A-Aquifer into the Upper 180-Foot Aquifer through two known vertical conduits in the FO-SVA, creating two distinct parallel plumes (Figure 24). These vertical conduits were decommissioned in 1999 and 2005; however, the eastern historical plume extended through the area of MP-BW-46-170. Therefore, additional monitoring of existing upgradient Upper 180-Foot Aquifer wells (MW-BW-21-180, -26-180 and -43-180) and data analyses, including a review historical analytical data and borehole logs, were recommended during the previous reporting period (Ahtna, 2021) to determine whether this source of CT is further upgradient in the Upper 180-Foot Aquifer, or an unidentified vertical conduit from the A-Aquifer. During the reporting period, MW-BW-21-180 and MW-BW-43-180 were monitored quarterly and CT concentrations were below the ACL. To confirm these results, it is recommended upgradient well MP-BW-33-272 also be monitored quarterly (Section 4.0).

## 4.0 Suggested Monitoring Modifications

GWMP modifications are made by comparing analytical results to QAPP decision rules (AEI, 2019). GWMP modifications during the reporting period are discussed in Section 2.3 and listed in Table 3. The modifications to the GWMP after the Third Quarter 2020 are presented in Table 13 and Appendix D. Wells recommended for termination of sampling will continue to be monitored for groundwater elevation data until they are recommended for decommissioning.

### 4.1 New Wells or Additional Remediation<sup>26</sup>

**A-Aquifer:** One A-Aquifer groundwater monitoring well (MW-BW-94-AR) was installed in January 2019 to the north and downgradient of Deployment Area 3A as part of ongoing remedial activities at OUCTP. Due to CT concentrations above the ACL at MW-BW-94-AR, it is recommended monitoring well MW-40-01-A be added to the GWMP to assess CT concentrations east of the A-Aquifer groundwater divide and north of CT plume boundary (Figure 35). In addition, one to three monitoring wells are recommended to be installed and monitored to better assess the extent of the CT plume in the vicinity and downgradient of MW-BW-94-AR.

Because CT concentrations at A-Aquifer groundwater monitoring well MW-BW-95-A exceed the ACL by an order of magnitude and all other groundwater wells associated with OU1 have been decommissioned, it is recommended two new A-Aquifer groundwater monitoring wells be installed at downgradient locations: one in the area of former monitoring well MW-OU1-88-A, and one in the area of former monitoring well MW-OU1-85-A, approximately halfway between MW-OU1-88-A and the former Fort Ord boundary (Figure 38). These proposed locations are within the FO-SVA Channel Low, a preferential pathway for groundwater contaminants in the A-Aquifer (HGL, 2016).

Due to increasing CT concentrations downgradient of the EISB Pilot Study area in the City of Marina (MW-BW-75-A, MW-BW-80-A, and MW-BW-82-A), quarterly monitoring is recommended at monitoring well MW-BW-81-A (Figure 35). Additionally, one to three monitoring wells are recommended to be installed and monitored to better assess the extent of the CT plume downgradient of MW-BW-75-A, MW-BW-80-A, and MW-BW-82-A.

**Upper 180-Foot Aquifer:** No new monitoring wells are recommended in the Upper 180-Foot Aquifer. A new OUCTP Upper 180-Foot Aquifer extraction well is recommended southeast of MW-OU2-64-180 to enhance containment and control of the OUCTP in the Upper 180-Foot Aquifer in accordance with the OUCTP ROD (Army, 2008) as shown in Figure 39.<sup>27</sup>

Due to increasing CT concentrations at MP-BW-46-170, upgradient existing well MP-BW-33-272 is recommended for quarterly monitoring (Figure 36).

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<sup>26</sup> If recommendations for new wells or additional remediation are implemented, a work plan will be prepared describing the proposed well locations, well construction details, and procedures for well borehole logging, development, and initial sampling.

<sup>27</sup> The actual location of any new extraction well will be optimized based on groundwater modeling.

**Lower 180-Foot Aquifer:** No new monitoring wells are recommended in the Lower 180-Foot Aquifer at this time; however, the applicability of OU2 and OUCTP decision documents with respect to TCE in the Lower 180-Foot Aquifer should be addressed in the next Five Year Review.

## **4.2 Well Decommissioning**

No wells are recommended for decommissioning at this time.

## 5.0 References<sup>28</sup>

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<sup>28</sup> At the end of references included in the Fort Ord Administrative Record are the Administrative Record Numbers (AR#s) (e.g. BW-1234). To find the referenced document, this number may be typed into the Online Search tool at: <http://www.fortordcleanup.com/documents/search/>. Please note the referenced documents were available in the Fort Ord Administrative Record at the time this document was issued; however, some may have been superseded by more current versions and were subsequently withdrawn.



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## **TABLES**

**Table 1. COCs in Groundwater and ACLs**

Chemical of Concern (COC)	OUCTP A-Aquifer ACLs (µg/L)	OUCTP Upper 180-Foot Aquifer ACLs (µg/L)	OUCTP Lower 180-Foot Aquifer ACLs (µg/L)
1,1-Dichloroethene (1,1-DCE)	6.0	-	-
1,2-Dichloroethane (1,2-DCA)	-	-	0.5
Carbon tetrachloride (CT)	0.5	0.5	0.5
Chloroform	2.0	-	-
Methylene chloride	5.0	-	-
Tetrachloroethylene (PCE)	5.0	-	-
Total 1,2-Dichloroethene (total 1,2-DCE)	6.0	-	-
Trichloroethene (TCE)*	5.0	-	-
Vinyl Chloride	0.1	-	-

**Notes:**

-: not a COC at the specified aquifer

\*TCE is not a COC for the Lower 180-Foot Aquifer, but is monitored to evaluate for potential impacts to downgradient Fort Ord supply wells.

**Acronyms and Abbreviations:**

µg/L: micrograms per liter

ACL: Aquifer Cleanup Level. Groundwater COCs and ACLs are taken from the Record of Decision (Army, 2008).

OUCTP: Operable Unit Carbon Tetrachloride Plume

**Table 2. GWMP Sampling Methods and Analytical Schedule**

Well Name	DO and ORP	VOCs (8260-SIM)	Water Levels	Sampling Methods	Rationale
<b>A-Aquifer</b>					
EISB-EW-01		Q	Q	PDB	OUCTP ROD
EISB-EW-02		A	Q	PDB	OUCTP ROD
EISB-EW-09		Q	Q	PDB	OUCTP ROD
EISB-EW-12	Q		Q	PTM	OUCTP ROD
EISB-EW-15	Q		Q	PTM	OUCTP ROD
EISB-MW-01		A	Q	PDB	OUCTP ROD
EW-BW-109-A		Q	Q	PDB	OUCTP ROD
EW-BW-112-A	Q	A	Q	PDB/PTM	OUCTP ROD
EW-BW-119-A	Q	A	Q	PDB/PTM	OUCTP ROD
EW-BW-124-A	Q	Q	Q	PDB/PTM	OUCTP ROD
EW-BW-132-A		A	Q	PDB	OUCTP ROD
EW-BW-135-A	Q	Q	Q	PDB/PTM	OUCTP ROD
EW-BW-144-A	Q		Q	PTM	OUCTP ROD
EW-BW-149-A	Q	Q	Q	PDB/PTM	OUCTP ROD
EW-BW-150-A	Q	A	Q	PDB/PTM	OUCTP ROD
EW-BW-155-A	Q	Q	Q	PDB/PTM	OUCTP ROD
EW-BW-159-A	Q		Q	PTM	OUCTP ROD
EW-BW-160-A	Q	Q	Q	PDB/PTM	OUCTP RAWP Addendum
EW-BW-161-A	Q		Q	PTM	OUCTP RAWP Addendum
EW-BW-164-A	Q		Q	PTM	OUCTP RAWP Addendum
EW-BW-165-A		A	Q	PDB	OUCTP RAWP Addendum
EW-BW-166-A	Q	Q	Q	PDB/PTM	OUCTP RAWP Addendum
EW-BW-167-A		A	Q	PDB	OUCTP RAWP Addendum
EW-BW-168-A		A	Q	PDB	OUCTP RAWP Addendum
EW-BW-169-A		A	Q	PDB	OUCTP RAWP Addendum
MP-BW-46-095		A	Q	Westbay Port	OUCTP ROD
MW-B-12-A		Q	Q	PDB	OUCTP ROD
MW-B-14-A		Q	Q	PDB	OUCTP ROD
MW-BW-15-A		Q	Q	PDB	OUCTP ROD
MW-BW-17-A		A	Q	PDB	OUCTP ROD
MW-BW-24-A		Q	Q	PDB	OUCTP ROD
MW-BW-26-A		Q	Q	PDB	OUCTP ROD
MW-BW-27-A		Q	Q	PDB	OUCTP ROD
MW-BW-28-A		Q	Q	PDB	OUCTP ROD
MW-BW-30-A		A	Q	PDB	OUCTP ROD
MW-BW-31-A		Q	Q	PDB	OUCTP ROD
MW-BW-32-A		Q	Q	PDB	OUCTP ROD
MW-BW-35-A		Q	Q	PDB	OUCTP ROD
MW-BW-36-A		Q	Q	PDB	OUCTP ROD

**Table 2. GWMP Sampling Methods and Analytical Schedule**

Well Name	DO and ORP	VOCs (8260-SIM)	Water Levels	Sampling Methods	Rationale
MW-BW-39-A		A	Q	PDB	OUCTP ROD
MW-BW-42-A		Q	Q	PDB	OUCTP ROD
MW-BW-43-A		A	Q	PDB	OUCTP ROD
MW-BW-44-A		A	Q	PDB	OUCTP ROD
MW-BW-48-A		A	Q	PDB	OUCTP ROD
MW-BW-49-A		Q	Q	PDB	OUCTP ROD
MW-BW-56-A		A	Q	PDB	OUCTP ROD
MW-BW-58-A		Q	Q	PDB	OUCTP ROD
MW-BW-60-A		Q	Q	PDB	OUCTP ROD
MW-BW-65-A		Q	Q	PDB	OUCTP ROD
MW-BW-66-A		Q	Q	PDB	OUCTP ROD
MW-BW-74-A		Q	Q	PDB	OUCTP ROD
MW-BW-75-A		Q	Q	PDB	OUCTP ROD
MW-BW-77-A		Q	Q	PDB	OUCTP ROD
MW-BW-78-A		Q	Q	PDB	OUCTP ROD
MW-BW-79-A		Q	Q	PDB	OUCTP ROD
MW-BW-80-A		Q	Q	PDB	OUCTP ROD
MW-BW-83-A		A	Q	PDB	OUCTP ROD
MW-BW-85-A		Q	Q	PDB	OUCTP ROD
MW-BW-86-A		Q	Q	PDB	OUCTP ROD
MW-BW-87-A		Q	Q	PDB	OUCTP ROD
MW-BW-88-A		Q	Q	PDB	OUCTP ROD
MW-BW-89-A		Q	Q	PDB	OUCTP ROD
MW-BW-90-A		Q	Q	PDB	OUCTP ROD
MW-BW-91-A		Q	Q	PDB	OUCTP ROD
MW-BW-92-A		Q	Q	PDB	OUCTP ROD
MW-BW-93-A		Q	Q	PDB	2019 Well Install Report
MW-BW-94-AR		Q	Q	PDB	2019 Well Install Report
MW-BW-95-A		Q	Q	PDB	2019 Well Install Report
<b>Upper 180-Foot Aquifer</b>					
EW-OU2-09-180		Q	Q	Sampling Port	OUCTP ROD
MP-BW-41-231		A	Q	Westbay Port	OUCTP ROD
MP-BW-46-170		Q	Q	Westbay Port	OUCTP ROD
MW-BW-52-180		Q	Q	PDB	OUCTP ROD
MW-BW-57-180		Q	Q	PDB	2019 Well Install Report
MW-BW-58-180		Q	Q	PDB	2019 Well Install Report
MW-OU2-64-180		Q	Q	PDB	OU2 ESD
MW-OU2-67-180		Q	Q	PDB	OU2 ESD
MW-OU2-70-180		A	Q	PDB	OU2 ESD

**Table 2. GWMP Sampling Methods and Analytical Schedule**

Well Name	DO and ORP	VOCs (8260-SIM)	Water Levels	Sampling Methods	Rationale
<b>Lower 180-Foot/400-Foot Aquifers</b>					
Airfield		Q	Q	PDB	OUCTP ROD
EW-OU2-07-180		Q	Q	PDB	OU2 ESD
FO-29		Q		Sampling Port	OUCTP ROD
FO-30		Q		Sampling Port	OUCTP ROD
FO-31		Q		Sampling Port	OUCTP ROD
Mini-Storage		A		Sampling Port	OUCTP ROD
MP-BW-31-292		A	Q	Westbay Port	OUCTP ROD
MP-BW-41-318		Q	Q	Westbay Port	OUCTP ROD
MP-BW-41-353		Q	Q	Westbay Port	OUCTP ROD
MP-BW-42-345		Q	Q	Westbay Port	OUCTP ROD
MP-BW-49-287		Q	Q	Westbay Port	OUCTP ROD
MP-BW-49-316		Q	Q	Westbay Port	OUCTP ROD
MP-BW-49-368		Q	Q	Westbay Port	OUCTP ROD
MP-BW-49-400		Q	Q	Westbay Port	OUCTP ROD
MP-BW-50-339		Q	Q	Westbay Port	OUCTP ROD
MP-BW-50-384		Q	Q	Westbay Port	OUCTP ROD
MP-BW-51-405		Q	Q	Westbay Port	OUCTP ROD
MW-BW-04-180		A	Q	PDB	OUCTP ROD
MW-BW-59-180		Q	Q	PDB	2019 Well Install Report
MW-OU2-66-180		Q	Q	PDB	OU2 ESD
MW-OU2-69-180		Q	Q	PDB	OU2 ESD
MW-OU2-72-180		Q	Q	PDB	OU2 ESD
MW-OU2-78-180		Q	Q	PDB	OU2 ESD
MW-OU2-82-180		Q	Q	PDB	OU2 ESD
<b>The Following Wells were Measured for Groundwater Elevation Data Only</b>					
<b>A-Aquifer</b>					
EISB-EW-03			Q	DTW	DTW trend analysis
EISB-MW-04			Q	DTW	DTW trend analysis
EW-BW-92-A			Q	DTW	DTW trend analysis
EW-BW-93-A			Q	DTW	DTW trend analysis
EW-BW-100-A			Q	DTW	DTW trend analysis
EW-BW-104-A			Q	DTW	DTW trend analysis
EW-BW-126-A			Q	DTW	DTW trend analysis
MP-BW-46-080			Q	DTW	DTW trend analysis
MP-BW-48-113			Q	DTW	DTW trend analysis
MP-BW-48-133			Q	DTW	DTW trend analysis
MW-40-01-A			Q	DTW	DTW trend analysis
MW-BW-16-A			Q	DTW	DTW trend analysis

**Table 2. GWMP Sampling Methods and Analytical Schedule**

Well Name	DO and ORP	VOCs (8260-SIM)	Water Levels	Sampling Methods	Rationale
MW-BW-18-A			Q	DTW	DTW trend analysis
MW-BW-25-A			Q	DTW	DTW trend analysis
MW-BW-34-A			Q	DTW	DTW trend analysis
MW-BW-38-A			Q	DTW	DTW trend analysis
MW-BW-41-A			Q	DTW	DTW trend analysis
MW-BW-45-A			Q	DTW	DTW trend analysis
MW-BW-46-A			Q	DTW	DTW trend analysis
MW-BW-51-A			Q	DTW	DTW trend analysis
MW-BW-53-A			Q	DTW	DTW trend analysis
MW-BW-54-A			Q	DTW	DTW trend analysis
MW-BW-57-A			Q	DTW	DTW trend analysis
MW-BW-59-A			Q	DTW	DTW trend analysis
MW-BW-63-A			Q	DTW	DTW trend analysis
MW-BW-67-A			Q	DTW	DTW trend analysis
MW-BW-71-A			Q	DTW	DTW trend analysis
MW-BW-81-A			Q	DTW	DTW trend analysis
MW-BW-82-A			Q	DTW	DTW trend analysis
<b>Upper 180-Foot Aquifer</b>					
MP-BW-30-282			Q	DTW	DTW trend analysis
MP-BW-32-287			Q	DTW	DTW trend analysis
MP-BW-33-272			Q	DTW	DTW trend analysis
MP-BW-35-242			Q	DTW	DTW trend analysis
MP-BW-37-178			Q	DTW	DTW trend analysis
MP-BW-37-193			Q	DTW	DTW trend analysis
MP-BW-41-202			Q	DTW	DTW trend analysis
MP-BW-41-256			Q	DTW	DTW trend analysis
MP-BW-42-195			Q	DTW	DTW trend analysis
MP-BW-42-215			Q	DTW	DTW trend analysis
MP-BW-42-235			Q	DTW	DTW trend analysis
MP-BW-46-185			Q	DTW	DTW trend analysis
MP-BW-46-200			Q	DTW	DTW trend analysis
MP-BW-46-215			Q	DTW	DTW trend analysis
MW-B-05-180			Q	DTW	DTW trend analysis
MW-BW-21-180			Q	DTW	DTW trend analysis
MW-BW-26-180			Q	DTW	DTW trend analysis
MW-BW-43-180			Q	DTW	DTW trend analysis
MW-BW-44-180			Q	DTW	DTW trend analysis
MW-BW-45-180			Q	DTW	DTW trend analysis
MW-BW-47-180			Q	DTW	DTW trend analysis



**Table 2. GWMP Sampling Methods and Analytical Schedule**

Well Name	DO and ORP	VOCs (8260-SIM)	Water Levels	Sampling Methods	Rationale
MW-BW-49-180			Q	DTW	DTW trend analysis
MW-BW-50-180			Q	DTW	DTW trend analysis
MW-BW-51-180			Q	DTW	DTW trend analysis
MW-BW-53-180			Q	DTW	DTW trend analysis
MW-BW-54-180			Q	DTW	DTW trend analysis
MW-BW-55-180			Q	DTW	DTW trend analysis
MW-BW-56-180			Q	DTW	DTW trend analysis
<b>Lower 180-Foot/400-Foot Aquifers</b>					
MCWD-08A			Q	DTW	DTW trend analysis
MP-BW-30-317			Q	DTW	DTW trend analysis
MP-BW-30-342			Q	DTW	DTW trend analysis
MP-BW-30-397			Q	DTW	DTW trend analysis
MP-BW-30-467			Q	DTW	DTW trend analysis
MP-BW-30-537			Q	DTW	DTW trend analysis
MP-BW-31-332			Q	DTW	DTW trend analysis
MP-BW-31-362			Q	DTW	DTW trend analysis
MP-BW-31-407			Q	DTW	DTW trend analysis
MP-BW-31-457			Q	DTW	DTW trend analysis
MP-BW-31-522			Q	DTW	DTW trend analysis
MP-BW-32-332			Q	DTW	DTW trend analysis
MP-BW-32-366			Q	DTW	DTW trend analysis
MP-BW-32-412			Q	DTW	DTW trend analysis
MP-BW-32-472			Q	DTW	DTW trend analysis
MP-BW-32-522			Q	DTW	DTW trend analysis
MP-BW-33-317			Q	DTW	DTW trend analysis
MP-BW-33-352			Q	DTW	DTW trend analysis
MP-BW-33-397			Q	DTW	DTW trend analysis
MP-BW-34-292			Q	DTW	DTW trend analysis
MP-BW-34-357			Q	DTW	DTW trend analysis
MP-BW-34-422			Q	DTW	DTW trend analysis
MP-BW-34-492			Q	DTW	DTW trend analysis
MP-BW-34-537			Q	DTW	DTW trend analysis
MP-BW-35-312			Q	DTW	DTW trend analysis
MP-BW-35-366			Q	DTW	DTW trend analysis
MP-BW-35-402			Q	DTW	DTW trend analysis
MP-BW-35-467			Q	DTW	DTW trend analysis
MP-BW-35-527			Q	DTW	DTW trend analysis
MP-BW-35-562			Q	DTW	DTW trend analysis
MP-BW-37-303			Q	DTW	DTW trend analysis

**Table 2. GWMP Sampling Methods and Analytical Schedule**

Well Name	DO and ORP	VOCs (8260-SIM)	Water Levels	Sampling Methods	Rationale
MP-BW-37-328			Q	DTW	DTW trend analysis
MP-BW-37-368			Q	DTW	DTW trend analysis
MP-BW-37-398			Q	DTW	DTW trend analysis
MP-BW-37-460			Q	DTW	DTW trend analysis
MP-BW-38-327			Q	DTW	DTW trend analysis
MP-BW-38-341			Q	DTW	DTW trend analysis
MP-BW-38-353			Q	DTW	DTW trend analysis
MP-BW-38-368			Q	DTW	DTW trend analysis
MP-BW-38-418			Q	DTW	DTW trend analysis
MP-BW-39-310			Q	DTW	DTW trend analysis
MP-BW-39-330			Q	DTW	DTW trend analysis
MP-BW-39-350			Q	DTW	DTW trend analysis
MP-BW-39-395			Q	DTW	DTW trend analysis
MP-BW-40-333			Q	DTW	DTW trend analysis
MP-BW-40-353			Q	DTW	DTW trend analysis
MP-BW-40-375			Q	DTW	DTW trend analysis
MP-BW-40-400			Q	DTW	DTW trend analysis
MP-BW-41-286			Q	DTW	DTW trend analysis
MP-BW-41-396			Q	DTW	DTW trend analysis
MP-BW-42-295			Q	DTW	DTW trend analysis
MP-BW-42-314			Q	DTW	DTW trend analysis
MP-BW-42-400			Q	DTW	DTW trend analysis
MP-BW-49-336			Q	DTW	DTW trend analysis
MP-BW-50-289			Q	DTW	DTW trend analysis
MP-BW-50-309			Q	DTW	DTW trend analysis
MP-BW-50-359			Q	DTW	DTW trend analysis
MP-BW-51-315			Q	DTW	DTW trend analysis
MP-BW-51-340			Q	DTW	DTW trend analysis
MP-BW-51-370			Q	DTW	DTW trend analysis
MP-BW-52-323			Q	DTW	DTW trend analysis
MP-BW-52-338			Q	DTW	DTW trend analysis
MP-BW-52-363			Q	DTW	DTW trend analysis
MP-BW-52-388			Q	DTW	DTW trend analysis
MP-BW-52-408			Q	DTW	DTW trend analysis
MW-BW-03-400			Q	DTW	DTW trend analysis
MW-OU2-07-400			Q	DTW	DTW trend analysis
MW-OU2-28-400			Q	DTW	DTW trend analysis
MW-OU2-68-180			Q	DTW	DTW trend analysis
MW-OU2-71-180			Q	DTW	DTW trend analysis

**Table 2. GWMP Sampling Methods and Analytical Schedule**

Well Name	DO and ORP	VOCs (8260-SIM)	Water Levels	Sampling Methods	Rationale
Test 2			Q	DTW	DTW trend analysis

**Notes:**

\*Schedule is current as of Groundwater QAPP Revision 7.

**Acronyms and Abbreviations:**

A: Sampled on an annual basis

DO: dissolved oxygen

DTW: depth to water

ESD: Explanation of Significant Differences

OU2: Operable Unit 2

OUCTP: Operable Unit Carbon Tetrachloride Plume

ORP: oxidation reduction potential

PDB: passive diffusion bag

PTM: post-treatment monitoring

Q: Sampled on a quarterly basis

RAWP: Remedial Action Work Plan

ROD: Record of Decision

SIM: selected ion monitoring

VOCs: volatile organic compounds

**Table 3. GWMP Schedule Modifications**

Well Name	Previous Status	New Status	Rationale / Notes / Corrections	Last Sampling Event	Last DTW Event
<b>A-Aquifer</b>					
EW-BW-129-A	Not in QAPP	Quarterly	Began monitoring (sample and DTW) quarterly in 2020-2Q due to increasing COC concentrations at MW-BW-26-A (see 2019-3Q report)	Ongoing	Ongoing
EW-BW-140-A	Not in QAPP	Quarterly	Began monitoring (sample and DTW) quarterly in 2020-2Q due to increasing COC concentrations at MW-BW-26-A (see 2019-3Q report)	Ongoing	Ongoing
EW-BW-144-A	DTW Only	Annual	Began sampling quarterly in 2020-3Q due to increasing COC concentrations at MW-BW-26-A (see 2019-3Q report)	Ongoing	Ongoing
MW-BW-17-A	Annual	Quarterly	Moved to quarterly after CT above ACL in 2019-3Q (see 2019-3Q report)	Ongoing	Ongoing
MW-BW-56-A	Annual	Quarterly	Moved to quarterly after CT above ACL in 2019-3Q (see 2019-3Q report). Started quarterly 2020-1Q.	Ongoing	Ongoing
MW-BW-82-A	DTW Only	Quarterly	Began to sample quarterly in 2020-2Q due to increasing COC concentrations at MW-BW-75-A (see 2019-3Q report)	Ongoing	Ongoing
<b>Upper 180-Foot Aquifer</b>					
MW-BW-21-180	DTW Only	Quarterly	Began to sample quarterly in 2020-2Q due to increasing COC concentrations at MP-BW-46-170 (see 2019-3Q report)	Ongoing	Ongoing
MW-BW-43-180	DTW Only	Quarterly	Began to sample quarterly in 2020-2Q due to increasing COC concentrations at MP-BW-46-170 (see 2019-3Q report)	Ongoing	Ongoing
<b>Lower 180-Foot Aquifer</b>					
MCWD-08A	DTW Only	DTW Only	Unable to access 2020-2Q, MCWD will supply future DTW data.	2017-3Q	Ongoing
MP-BW-31-292	Annual	Annual	Annual well sampled in first quarter rather than third quarter events due to historically higher COC concentrations in the first quarter, but not sampled in 2020-1Q.	Ongoing	Ongoing

**Acronyms and Abbreviations:**

ACL: aquifer cleanup level  
CT: carbon tetrachloride  
DTW: depth to water

QAPP: Quality Assurance Project Plan  
Ongoing: sampling or DTW measurements not affected by change in status  
OU2: Operable Unit 2  
OUCTP: Operable Unit Carbon Tetrachloride Plume

**Table 4. Groundwater Well Maintenance**

Well ID	Quarter Identified	Condition/Repair Comments	Sample Frequency	Maintenance Notes
Airfield	2016-3Q	Tabs need to be rethreaded.	Quarterly	
EISB-EW-12	2016-3Q	Needs to be painted and labeled.	Quarterly	
EISB-MW-01	2016-2Q	Slip cap difficult to remove.	Annual	Install eyebolt on top.
EISB-MW-04	2016-3Q	Needs to be painted and labeled.	DTW Only	
EW-BW-112-A	2018-1Q	Needs new well cap to prevent surface water flow into well.	Annual	
EW-BW-135-A	2018-1Q	Need to remove nearby ice plant to access well.	Quarterly	
EW-BW-159-A	2015-3Q	Eyebolt to lock broken.	Quarterly	Aluminum welding is required.
EW-OU2-07-180	2016-3Q	Water in vault.	Quarterly	
MP-BW-37	2019-2Q	Vault lid needs repair	DTW Only	
MP-BW-38	2019-3Q	Vault-no lock	DTW Only	Welding required, middle of Airfield.
MP-BW-40	2019-3Q	Vault-no lock	DTW Only	Welding required, middle of Airfield.
MP-BW-41	2019-3Q	Vault needs new lock	Quarterly	
MP-BW-49	2019-3Q	Both tabs need to be retapped	Quarterly	
MP-BW-50	2019-3Q	Both tabs need to be retapped	Quarterly	
MP-BW-51	2019-3Q	Both tabs need to be retapped	Quarterly	
MP-BW-52	2019-3Q	Both tabs need to be retapped	DTW Only	
MW-40-01-A	2016-3Q	Needs to be painted and labeled.	DTW Only	Need to wire brush and weld casing.
MW-BW-16-A	2014-4Q	Broken well lid hinge. Needs to be painted and labeled.	Quarterly	Welding required.
MW-BW-17-A	2016-3Q	Needs to be painted and labeled.	Quarterly	
MW-BW-18-A	2017-3Q	Needs to be painted and labeled. Well lid is rusted with holes.	DTW Only	
MW-BW-21-180	2016-2Q	Well lid will not close due to hinge, needs replacement.	DTW Only	Welding required.
MW-BW-24-A	2016-3Q	Needs to be painted and labeled.	Quarterly	
MW-BW-25-A	2016-3Q	Needs to be painted and labeled.	DTW Only	
MW-BW-26-A	2016-3Q	Needs to be painted and labeled.	Quarterly	
MW-BW-27-A	2016-3Q	Needs to be labeled.	Quarterly	
MW-BW-30-A	2018-1Q	Replace bolts.	Annual	

**Table 4. Groundwater Well Maintenance**

Well ID	Quarter Identified	Condition/Repair Comments	Sample Frequency	Maintenance Notes
MW-BW-36-A	2018-1Q	Needs a new vault to prevent water from flowing into box, needs a new well cap.	Quarterly	
MW-BW-41-A	2016-3Q	Need new bolts.	DTW Only	
MW-BW-44-180	2017-3Q	Well lid hinge broken.	DTW Only	
MW-BW-44-A	2016-3Q	Needs to be painted and labeled. Well lid hinge is broken.	Annual	Welding required.
MW-BW-45-180	2017-3Q	Well lid hinge is broken.	DTW Only	Welding required.
MW-BW-45-A	2016-3Q	Need new bolts.	DTW Only	
MW-BW-47-180	2017-3Q	Well lid hinge is broken.	DTW Only	Welding required.
MW-BW-48-A	2016-3Q	Tabs need to be rethreaded.	Annual	
MW-BW-49-180	2016-2Q	Needs to be labeled.	DTW Only	
MW-BW-51-A	2016-3Q	Needs to be painted. Remove overgrown vegetation around well (ice plant).	DTW Only	
MW-BW-51-180	2018-1Q	Needs new 3-inch well cap.	DTW Only	
MW-BW-54-A	2017-3Q	Well lid hinge is broken.	DTW Only	Welding required.
MW-BW-55-180	2016-3Q	Needs to be painted and labeled.	DTW Only	
MW-BW-58-A	2018-1Q	Needs new hinge.	Quarterly	
MW-BW-63-A	2016-3Q	Needs to be painted and labeled.	DTW Only	
MW-BW-67-A	2014-4Q	Well lid starting to rust through.	DTW Only	Welding required.
MW-BW-75-A	2013-3Q	One tab is stripped.	Quarterly	
MW-BW-81-A	2016-3Q	New well cap needed.	DTW Only	
MW-BW-83-A	2016-3Q	Needs new well cap and threads for lid.	Annual	
MW-BW-86-A	2016-3Q	Needs to be labeled.	Quarterly	

**Acronyms and Abbreviations:**

DTW: depth to water

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
<b>A-Aquifer</b>					
EISB-EW-01	91.18	12/2/2019	60.80	30.38	
		3/2/2020	60.35	30.83	
		6/1/2020	60.18	31.00	
		8/31/2020	60.17	31.01	82.04
EISB-EW-02	93.72	12/2/2019	61.01	32.71	
		3/2/2020	60.82	32.90	
		6/1/2020	60.61	33.11	
		8/31/2020	60.59	33.13	83.00
EISB-EW-03	91.67	12/2/2019	60.42	31.25	
		3/2/2020	60.31	31.36	
		6/1/2020	60.15	31.52	
		8/31/2020	60.15	31.52	84.37
EISB-EW-09	61.10	12/2/2019	50.97	10.13	
		3/2/2020	50.35	10.75	
		6/1/2020	49.90	11.20	
		8/31/2020	50.42	10.68	81.93
EISB-EW-12	73.01	12/2/2019	63.87	9.14	
		3/2/2020	62.87	10.14	
		6/1/2020	62.49	10.52	
		8/31/2020	62.95	10.06	88.95
EISB-EW-15	64.39	12/2/2019	54.10	10.29	
		3/2/2020	53.49	10.90	
		6/1/2020	53.11	11.28	
		8/31/2020	53.48	10.91	81.00
EISB-MW-01	80.23	12/2/2019	66.35	13.88	
		3/2/2020	65.56	14.67	
		6/1/2020	65.23	15.00	
		8/31/2020	66.51	13.72	77.20
EISB-MW-04	63.38	12/2/2019	54.95	8.43	
		3/2/2020	53.16	10.22	
		6/1/2020	52.73	10.65	
		8/31/2020	53.22	10.16	83.52
EW-BW-92-A	189.00	12/6/2019	114.32	74.68	
		3/5/2020	114.43	74.57	
		6/4/2020	114.23	74.77	
		9/1/2020	114.32	74.68	128.79
EW-BW-93-A	170.85	12/6/2019	96.92	73.93	
		3/6/2020	96.90	73.95	
		6/3/2020	96.82	74.03	
		9/1/2020	97.15	73.70	112.81

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
EW-BW-100-A	170.10	12/6/2019	98.28	71.82	
		3/6/2020	98.22	71.88	
		6/5/2020	98.72	71.38	
		9/3/2020	99.65	70.45	100.13
EW-BW-104-A	161.18	12/5/2019	89.65	71.53	
		3/6/2020	89.59	71.59	
		6/4/2020	89.40	71.78	
		9/3/2020	90.04	71.14	111.02
EW-BW-109-A	155.09	12/5/2019	84.18	70.91	
		3/5/2020	84.19	70.90	
		6/2/2020	83.98	71.11	
		9/2/2020	84.09	71.00	108.05
EW-BW-112-A	140.69	12/5/2019	70.99	69.70	
		3/5/2020	70.99	69.70	
		6/2/2020	70.76	69.93	
		9/2/2020	70.93	69.76	99.69
EW-BW-119-A	136.54	12/5/2019	69.28	67.26	
		3/5/2020	68.25	68.29	
		6/2/2020	68.06	68.48	
		9/2/2020	68.22	68.32	108.20
EW-BW-124-A	150.90	12/5/2019	85.04	65.86	
		3/5/2020	85.14	65.76	
		6/2/2020	84.89	66.01	
		9/3/2020	84.95	65.95	107.31
EW-BW-126-A	142.43	12/5/2019	78.00	64.43	
		3/5/2020	78.01	64.42	
		6/2/2020	77.87	64.56	
		9/3/2020	77.91	64.52	101.77
EW-BW-129-A	156.11	12/5/2019	NM	NM	
		3/5/2020	NM	NM	
		6/2/2020	90.81	65.30	
		9/3/2020	90.93	65.18	104.34
EW-BW-132-A	141.94	12/5/2019	76.75	65.19	
		3/3/2020	76.73	65.21	
		6/3/2020	76.60	65.34	
		9/2/2020	76.66	65.28	102.05
EW-BW-135-A	142.37	12/5/2019	78.59	63.78	
		3/5/2020	78.62	63.75	
		6/2/2020	78.50	63.87	
		9/3/2020	78.50	63.87	99.17



**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
EW-BW-140-A	164.38	12/5/2019	NM	NM	
		3/5/2020	NM	NM	
		6/2/2020	104.68	59.70	
		9/3/2020	104.70	59.68	131.51
EW-BW-144-A	166.81	12/5/2019	109.14	57.67	
		3/5/2020	109.10	57.71	
		6/2/2020	108.91	57.90	
		9/3/2020	108.93	57.88	130.05
EW-BW-149-A	162.31	12/3/2019	100.94	61.37	
		3/3/2020	100.88	61.43	
		6/3/2020	100.79	61.52	
		9/2/2020	100.77	61.54	117.83
EW-BW-150-A	157.05	12/3/2019	102.37	54.68	
		3/3/2020	102.27	54.78	
		6/1/2020	102.07	54.98	
		9/1/2020	102.01	55.04	132.29
EW-BW-155-A	137.98	12/3/2019	82.25	55.73	
		3/2/2020	82.15	55.83	
		6/1/2020	82.04	55.94	
		9/2/2020	81.98	56.00	102.63
EW-BW-159-A	157.09	12/5/2019	87.65	69.44	
		3/5/2020	87.55	69.54	
		6/2/2020	87.36	69.73	
		9/2/2020	99.45	57.64	109.13
EW-BW-160-A	131.75	12/3/2019	65.01	66.74	
		3/3/2020	64.97	66.78	
		6/3/2020	64.86	66.89	
		8/31/2020	64.96	66.79	86.09
EW-BW-161-A	129.67	12/3/2019	62.07	67.60	
		3/3/2020	62.02	67.65	
		6/3/2020	61.86	67.81	
		8/31/2020	61.95	67.72	86.21
EW-BW-164-A	134.55	12/3/2019	68.85	65.70	
		3/3/2020	68.80	65.75	
		6/3/2020	69.75	64.80	
		8/31/2020	68.77	65.78	91.41
EW-BW-165-A	133.22	12/3/2019	67.11	66.11	
		3/3/2020	67.11	66.11	
		6/3/2020	66.95	66.27	
		8/31/2020	66.99	66.23	91.24

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
EW-BW-166-A	136.30	12/3/2019	69.72	66.58	
		3/3/2020	69.68	66.62	
		6/3/2020	69.61	66.69	
		9/1/2020	69.73	66.57	91.68
EW-BW-167-A	136.08	12/2/2019	69.50	66.58	
		3/3/2020	69.50	66.58	
		6/3/2020	69.33	66.75	
		9/2/2020	69.52	66.56	92.03
EW-BW-168-A	143.32	12/3/2019	76.17	67.15	
		3/3/2020	76.15	67.17	
		6/3/2020	75.99	67.33	
		9/1/2020	76.12	67.20	99.49
EW-BW-169-A	147.52	12/3/2019	79.68	67.84	
		3/3/2020	79.63	67.89	
		6/3/2020	79.45	68.07	
		9/1/2020	79.57	67.95	100.95
MP-BW-46-080	151.83	12/3/2019	78.99	72.84	
		3/3/2020	79.04	72.79	
		6/2/2020	79.22	72.61	
		9/1/2020	79.66	72.17	NM
MP-BW-46-095	151.83	12/3/2019	94.03	57.80	
		3/3/2020	82.01	69.82	
		6/2/2020	77.52	74.31	
		9/1/2020	82.50	69.33	NM
MP-BW-48-113	195.24	12/3/2019	112.94	82.30	
		3/3/2020	112.92	82.32	
		6/3/2020	113.72	81.52	
		9/1/2020	113.54	81.70	NM
MP-BW-48-133	195.24	12/3/2019	119.98	75.26	
		3/3/2020	119.98	75.26	
		6/3/2020	120.44	74.80	
		9/1/2020	120.19	75.05	NM
MW-40-01-A	139.55	12/2/2019	82.94	56.61	
		3/3/2020	82.45	57.10	
		6/3/2020	82.14	57.41	
		8/31/2020	82.36	57.19	98.85
MW-B-12-A	98.92	12/2/2019	54.65	44.27	
		3/2/2020	54.23	44.69	
		6/1/2020	54.00	44.92	
		9/1/2020	54.06	44.86	77.40

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MW-B-14-A	144.48	12/3/2019	79.80	64.68	
		3/3/2020	79.83	64.65	
		6/3/2020	79.69	64.79	
		9/2/2020	79.70	64.78	100.58
MW-BW-15-A	148.27	12/3/2019	84.54	63.73	
		3/3/2020	84.55	63.72	
		6/5/2020	84.48	63.79	
		9/1/2020	84.48	63.79	104.38
MW-BW-16-A	135.07	12/3/2019	68.41	66.66	
		3/3/2020	68.37	66.70	
		6/3/2020	68.29	66.78	
		9/1/2020	68.41	66.66	98.29
MW-BW-17-A	144.24	12/5/2019	78.69	65.55	
		3/5/2020	78.71	65.53	
		6/2/2020	78.56	65.68	
		9/3/2020	78.60	65.64	99.21
MW-BW-18-A	127.77	12/6/2019	70.76	57.01	
		3/5/2020	70.49	57.28	
		6/5/2020	70.31	57.46	
		9/3/2020	70.39	57.38	89.15
MW-BW-24-A	145.99	12/5/2019	77.76	68.23	
		3/5/2020	77.73	68.26	
		6/2/2020	77.50	68.49	
		9/3/2020	77.68	68.31	95.40
MW-BW-25-A	143.58	12/5/2019	75.00	68.58	
		3/5/2020	74.97	68.61	
		6/2/2020	74.80	68.78	
		9/2/2020	74.93	68.65	99.91
MW-BW-26-A	165.51	12/5/2019	108.28	57.23	
		3/5/2020	108.20	57.31	
		6/2/2020	107.98	57.53	
		9/3/2020	108.04	57.47	131.17
MW-BW-27-A	155.79	12/3/2019	96.80	58.99	
		3/2/2020	96.72	59.07	
		6/4/2020	96.61	59.18	
		9/1/2020	96.61	59.18	111.28
MW-BW-28-A	143.16	12/3/2019	81.51	61.65	
		3/3/2020	81.46	61.70	
		6/3/2020	81.36	61.80	
		9/1/2020	81.40	61.76	103.83

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MW-BW-30-A	152.12	12/4/2019	97.70	54.42	
		3/4/2020	97.46	54.66	
		6/4/2020	97.24	54.88	
		9/4/2020	97.21	54.91	107.36
MW-BW-31-A	126.07	12/3/2019	72.40	53.67	
		3/2/2020	74.23	51.84	
		6/1/2020	74.02	52.05	
		9/2/2020	73.98	52.09	96.80
MW-BW-32-A	113.48	12/3/2019	61.50	51.98	
		3/2/2020	61.30	52.18	
		6/3/2020	61.15	52.33	
		9/2/2020	61.23	52.25	84.44
MW-BW-34-A	128.60	12/4/2019	78.97	49.63	
		3/4/2020	78.76	49.84	
		6/3/2020	78.41	50.19	
		9/4/2020	78.46	50.14	97.57
MW-BW-35-A	112.29	12/2/2019	64.63	47.66	
		3/2/2020	64.33	47.96	
		6/1/2020	64.03	48.26	
		9/2/2020	64.12	48.17	91.42
MW-BW-36-A	114.66	12/2/2019	67.24	47.42	
		3/2/2020	67.02	47.64	
		6/1/2020	66.83	47.83	
		9/2/2020	66.76	47.90	87.15
MW-BW-38-A	115.68	12/4/2019	68.79	46.89	
		3/6/2020	68.60	47.08	
		6/3/2020	68.15	47.53	
		9/4/2020	68.39	47.29	85.22
MW-BW-39-A	79.86	12/2/2019	36.21	43.65	
		3/2/2020	36.00	43.86	
		6/1/2020	35.78	44.08	
		9/1/2020	35.76	44.10	57.04
MW-BW-41-A	87.12	12/4/2019	48.32	38.80	
		3/4/2020	48.00	39.12	
		6/3/2020	47.73	39.39	
		9/4/2020	48.10	39.02	67.52
MW-BW-42-A	88.52	12/2/2019	47.89	40.63	
		3/2/2020	47.58	40.94	
		6/1/2020	47.34	41.18	
		9/1/2020	47.41	41.11	58.55

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MW-BW-43-A	60.70	12/2/2019	24.90	35.80	
		3/2/2020	24.64	36.06	
		6/1/2020	24.38	36.32	
		9/1/2020	24.37	36.33	39.27
MW-BW-44-A	79.30	12/2/2019	70.17	9.13	
		3/2/2020	69.43	9.87	
		6/1/2020	69.05	10.25	
		8/31/2020	69.51	9.79	84.64
MW-BW-45-A	77.40	12/4/2019	68.19	9.21	
		3/4/2020	67.71	9.69	
		6/3/2020	67.22	10.18	
		9/4/2020	67.75	9.65	87.36
MW-BW-46-A	67.72	12/4/2019	58.89	8.83	
		3/4/2020	58.40	9.32	
		6/5/2020	58.00	9.72	
		9/4/2020	58.50	9.22	83.77
MW-BW-48-A	45.93	12/4/2019	37.32	8.61	
		3/4/2020	37.10	8.83	
		6/4/2020	36.64	9.29	
		9/3/2020	37.27	8.65	61.80
MW-BW-49-A	44.49	12/4/2019	35.37	9.12	
		3/4/2020	35.27	9.22	
		6/4/2020	34.91	9.58	
		9/4/2020	35.51	8.98	61.60
MW-BW-51-A	146.14	12/5/2019	71.41	74.73	
		3/4/2020	71.35	74.79	
		6/4/2020	71.23	74.91	
		9/2/2020	71.39	74.75	94.31
MW-BW-53-A	175.72	12/5/2019	103.58	72.14	
		3/4/2020	103.56	72.16	
		6/4/2020	103.38	72.34	
		9/2/2020	103.47	72.25	125.25
MW-BW-54-A	146.54	12/5/2019	74.50	72.04	
		3/5/2020	74.37	72.17	
		6/2/2020	74.23	72.31	
		9/2/2020	74.50	72.04	88.83
MW-BW-56-A	142.74	12/3/2019	73.80	68.94	
		3/3/2020	73.76	68.98	
		6/5/2020	73.71	69.03	
		8/31/2020	73.75	68.99	100.75

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MW-BW-57-A	146.11	12/3/2019	78.15	67.96	
		3/3/2020	78.15	67.96	
		6/3/2020	78.00	68.11	
		9/2/2020	78.15	67.96	106.65
MW-BW-58-A	132.48	12/3/2019	68.01	64.47	
		3/3/2020	68.00	64.48	
		6/3/2020	67.92	64.56	
		9/1/2020	68.07	64.41	88.71
MW-BW-59-A	79.50	12/2/2019	39.85	39.65	
		3/2/2020	37.65	41.85	
		6/1/2020	35.78	43.72	
		9/1/2020	37.38	42.12	68.83
MW-BW-60-A	141.28	12/3/2019	76.69	64.59	
		3/3/2020	76.73	64.55	
		6/3/2020	76.60	64.68	
		9/2/2020	76.60	64.68	94.01
MW-BW-63-A	182.28	12/6/2019	108.57	73.71	
		3/4/2020	108.55	73.73	
		6/4/2020	108.35	73.93	
		9/4/2020	108.56	73.72	132.44
MW-BW-65-A	49.52	12/4/2019	39.97	9.55	
		3/4/2020	40.11	9.41	
		6/4/2020	39.67	9.85	
		9/4/2020	40.33	9.19	70.20
MW-BW-66-A	86.48	12/2/2019	53.76	32.72	
		3/2/2020	53.47	33.01	
		6/1/2020	53.42	33.06	
		8/31/2020	53.37	33.11	66.95
MW-BW-67-A	111.16	12/2/2019	78.47	32.69	
		3/2/2020	78.32	32.84	
		6/1/2020	78.11	33.05	
		8/31/2020	78.08	33.08	89.95
MW-BW-71-A	191.91	12/6/2019	117.24	74.67	
		3/5/2020	117.22	74.69	
		6/3/2020	117.14	74.77	
		9/1/2020	117.15	74.76	142.09
MW-BW-74-A	30.47	12/4/2019	21.46	9.01	
		3/4/2020	22.03	8.44	
		6/4/2020	21.66	8.81	
		9/4/2020	22.42	8.05	59.68

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MW-BW-75-A	32.32	12/4/2019	21.82	10.50	
		3/4/2020	23.11	9.21	
		6/4/2020	22.68	9.64	
		9/4/2020	23.43	8.89	53.85
MW-BW-77-A	82.30	12/4/2019	70.79	11.51	
		3/4/2020	69.48	12.82	
		6/4/2020	69.95	12.35	
		9/3/2020	70.41	11.89	93.17
MW-BW-78-A	64.48	12/4/2019	54.62	9.86	
		3/4/2020	54.25	10.23	
		6/4/2020	53.72	10.76	
		9/3/2020	54.27	10.21	84.17
MW-BW-79-A	65.17	12/4/2019	55.50	9.67	
		3/4/2020	55.17	10.00	
		6/4/2020	54.66	10.51	
		9/3/2020	55.19	9.98	83.72
MW-BW-80-A	51.33	12/4/2019	41.35	9.98	
		3/4/2020	41.38	9.95	
		6/4/2020	40.89	10.44	
		9/4/2020	41.56	9.77	75.34
MW-BW-81-A	51.23	12/4/2019	42.95	8.28	
		3/4/2020	42.58	8.65	
		6/3/2020	42.23	9.00	
		9/4/2020	42.95	8.28	79.67
MW-BW-82-A	38.75	12/4/2019	30.94	7.81	
		3/4/2020	30.71	8.04	
		6/3/2020	30.42	8.33	
		9/4/2020	31.16	7.59	71.16
MW-BW-83-A	23.72	12/4/2019	15.87	7.85	
		3/4/2020	15.87	7.85	
		6/3/2020	15.58	8.14	
		9/4/2020	16.35	7.37	67.42
MW-BW-85-A	132.79	12/3/2019	65.00	67.79	
		3/3/2020	64.96	67.83	
		6/3/2020	64.78	68.01	
		8/31/2020	64.94	67.85	92.23
MW-BW-86-A	135.79	12/3/2019	71.50	64.29	
		3/3/2020	71.54	64.25	
		6/3/2020	71.40	64.39	
		9/1/2020	71.49	64.30	98.48

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MW-BW-87-A	135.37	12/3/2019	70.04	65.33	
		3/3/2020	69.99	65.38	
		6/3/2020	69.91	65.46	
		8/31/2020	69.95	65.42	100.19
MW-BW-88-A	148.06	12/3/2019	83.20	64.86	
		3/3/2020	83.15	64.91	
		6/3/2020	83.03	65.03	
		8/31/2020	83.08	64.98	105.04
MW-BW-89-A	141.54	12/3/2019	82.32	59.22	
		3/3/2020	82.20	59.34	
		6/3/2020	82.04	59.50	
		9/1/2020	82.09	59.45	102.92
MW-BW-90-A	118.15	12/3/2019	54.95	63.20	
		3/3/2020	54.90	63.25	
		6/3/2020	54.77	63.38	
		9/1/2020	54.87	63.28	81.97
MW-BW-91-A	131.38	12/3/2019	64.00	67.38	
		3/3/2020	63.91	67.47	
		6/3/2020	63.76	67.62	
		9/1/2020	63.91	67.47	89.65
MW-BW-92-A	121.81	12/3/2019	69.78	52.03	
		3/2/2020	69.58	52.23	
		6/3/2020	69.38	52.43	
		9/2/2020	69.43	52.38	93.22
MW-BW-93-A	138.20	12/3/2019	77.45	60.75	
		3/3/2020	77.26	60.94	
		6/3/2020	77.11	61.09	
		9/1/2020	77.18	61.02	116.08
MW-BW-94-AR	117.54	12/3/2019	55.84	61.70	
		3/3/2020	55.79	61.75	
		6/3/2020	55.65	61.89	
		9/1/2020	55.70	61.84	93.11
MW-BW-95-A	144.83	12/3/2019	93.60	51.23	
		3/3/2020	93.32	51.51	
		6/3/2020	92.99	51.84	
		9/1/2020	92.99	51.84	122.05
<b>Upper 180-Foot Aquifer</b>					
EW-OU2-09-180	149.55	12/3/2019	161.10	-11.55	
		3/5/2020	168.00	-18.45	
		6/2/2020	171.23	-21.68	
		9/2/2020	172.23	-22.68	NM



**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MP-BW-30-282	156.08	12/2/2019	163.07	-6.99	
		3/6/2020	161.67	-5.59	
		6/4/2020	164.76	-8.68	
		9/1/2020	167.46	-11.38	NM
MP-BW-32-287	153.04	12/4/2019	160.38	-7.34	
		3/2/2020	159.16	-6.12	
		6/4/2020	164.76	-11.72	
		9/1/2020	164.65	-11.61	NM
MP-BW-33-272	153.85	12/4/2019	161.54	-7.69	
		3/3/2020	159.85	-6.00	
		6/4/2020	163.52	-9.67	
		9/1/2020	165.60	-11.75	NM
MP-BW-35-242	138.56	12/2/2019	145.06	-6.50	
		3/2/2020	145.06	-6.50	
		6/1/2020	145.06	-6.50	
		8/31/2020	147.32	-8.76	NM
MP-BW-37-178	135.76	12/5/2019	141.79	-6.03	
		3/3/2020	139.99	-4.23	
		6/4/2020	141.84	-6.08	
		9/1/2020	143.96	-8.20	NM
MP-BW-37-193	135.76	12/5/2019	141.54	-5.78	
		3/3/2020	139.88	-4.12	
		6/4/2020	141.49	-5.73	
		9/1/2020	143.78	-8.02	NM
MP-BW-41-202	157.05	12/3/2019	168.52	-11.47	
		3/3/2020	166.03	-8.98	
		6/2/2020	168.48	-11.43	
		9/3/2020	170.48	-13.43	NM
MP-BW-41-231	157.05	12/3/2019	167.54	-10.49	
		3/3/2020	165.14	-8.09	
		6/2/2020	167.49	-10.44	
		9/3/2020	169.50	-12.45	NM
MP-BW-41-256	157.05	12/3/2019	167.22	-10.17	
		3/3/2020	165.01	-7.96	
		6/2/2020	167.48	-10.43	
		9/3/2020	169.46	-12.41	NM
MP-BW-42-195	148.69	12/3/2019	158.24	-9.55	
		3/4/2020	155.72	-7.03	
		6/2/2020	156.79	-8.10	
		9/3/2020	160.32	-11.63	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MP-BW-42-215	148.69	12/3/2019	158.19	-9.50	
		3/4/2020	155.77	-7.08	
		6/2/2020	156.99	-8.30	
		9/3/2020	160.33	-11.64	NM
MP-BW-42-235	148.69	12/3/2019	158.44	-9.75	
		3/4/2020	155.88	-7.19	
		6/2/2020	157.61	-8.92	
		9/3/2020	160.95	-12.26	NM
MP-BW-46-170	151.83	12/3/2019	159.54	-7.71	
		3/3/2020	157.56	-5.73	
		6/2/2020	158.69	-6.86	
		9/1/2020	161.69	-9.86	NM
MP-BW-46-185	151.83	12/3/2019	159.45	-7.62	
		3/3/2020	157.44	-5.61	
		6/2/2020	158.69	-6.86	
		9/1/2020	161.57	-9.74	NM
MP-BW-46-200	151.83	12/3/2019	159.53	-7.70	
		3/3/2020	157.45	-5.62	
		6/2/2020	158.72	-6.89	
		9/1/2020	161.51	-9.68	NM
MP-BW-46-215	151.83	12/3/2019	159.58	-7.75	
		3/3/2020	157.46	-5.63	
		6/2/2020	158.68	-6.85	
		9/1/2020	161.43	-9.60	NM
MW-B-05-180	120.74	12/2/2019	125.77	-5.03	
		3/2/2020	123.84	-3.10	
		6/1/2020	124.94	-4.20	
		9/1/2020	127.06	-6.32	210.04
MW-BW-02-180	141.25	12/5/2019	151.63	-10.38	
		3/5/2020	149.40	-8.15	
		6/4/2020	148.96	-7.71	
		9/3/2020	151.85	-10.60	170.72
MW-BW-21-180	144.67	12/3/2019	151.87	-7.20	
		3/3/2020	149.76	-5.09	
		6/2/2020	150.68	-6.01	
		9/2/2020	153.28	-8.61	195.97
MW-BW-26-180	165.21	12/5/2019	171.65	-6.44	
		3/5/2020	169.90	-4.69	
		6/2/2020	170.89	-5.68	
		9/3/2020	173.26	-8.05	248.11

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MW-BW-43-180	132.85	12/5/2019	139.73	-6.88	
		3/5/2020	137.96	-5.11	
		6/2/2020	138.98	-6.13	
		9/3/2020	141.45	-8.60	200.04
MW-BW-44-180	147.16	12/6/2019	154.50	-7.34	
		3/5/2020	152.75	-5.59	
		6/5/2020	154.09	-6.93	
		9/3/2020	156.54	-9.38	213.35
MW-BW-45-180	140.03	12/5/2019	147.75	-7.72	
		3/5/2020	145.85	-5.82	
		6/2/2020	146.84	-6.81	
		9/4/2020	149.37	-9.34	195.54
MW-BW-47-180	162.46	12/6/2019	170.69	-8.23	
		3/6/2020	168.62	-6.16	
		6/5/2020	170.16	-7.70	
		9/3/2020	172.51	-10.05	225.37
MW-BW-49-180	164.57	12/4/2019	174.11	-9.54	
		3/4/2020	171.87	-7.30	
		6/5/2020	173.07	-8.50	
		9/4/2020	175.51	-10.94	219.39
MW-BW-50-180	178.65	12/5/2019	188.18	-9.53	
		3/4/2020	187.78	-9.13	
		6/4/2020	186.85	-8.20	
		9/3/2020	189.81	-11.16	243.19
MW-BW-51-180	148.83	12/5/2019	158.15	-9.32	
		3/4/2020	156.59	-7.76	
		6/4/2020	156.84	-8.01	
		9/2/2020	159.78	-10.95	199.19
MW-BW-52-180	148.47	12/5/2019	157.29	-8.82	
		3/4/2020	154.96	-6.49	
		6/4/2020	155.99	-7.52	
		9/2/2020	158.88	-10.41	203.62
MW-BW-53-180	170.88	12/6/2019	179.23	-8.35	
		3/6/2020	177.10	-6.22	
		6/5/2020	178.51	-7.63	
		9/3/2020	180.90	-10.02	220.60

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MW-BW-54-180	127.78	12/2/2019	133.60	-5.82	
		3/2/2020	131.61	-3.83	
		6/1/2020	132.71	-4.93	
		9/2/2020	134.99	-7.21	203.11
MW-BW-55-180	144.47	12/5/2019	151.43	-6.96	
		3/5/2020	149.54	-5.07	
		6/2/2020	150.40	-5.93	
		9/2/2020	153.04	-8.57	203.92
MW-BW-56-180	178.29	12/4/2019	188.15	-9.86	
		3/4/2020	185.77	-7.48	
		6/5/2020	187.04	-8.75	
		9/4/2020	189.51	-11.22	237.18
MW-BW-57-180	152.85	12/4/2019	162.12	-9.27	
		3/4/2020	159.80	-6.95	
		6/2/2020	160.70	-7.85	
		9/2/2020	163.85	-11.00	208.25
MW-BW-58-180	133.42	12/4/2019	143.68	-10.26	
		3/4/2020	141.22	-7.80	
		6/2/2020	142.44	-9.02	
		9/2/2020	145.54	-12.12	179.60
MW-OU2-30-180	163.59	12/4/2019	172.28	-8.69	
		3/4/2020	170.50	-6.91	
		6/4/2020	171.63	-8.04	
		9/3/2020	174.46	-10.87	219.18
MW-OU2-64-180	142.28	12/4/2019	152.37	-10.09	
		3/4/2020	149.95	-7.67	
		6/2/2020	151.26	-8.98	
		9/3/2020	154.36	-12.08	202.15
MW-OU2-67-180	162.80	12/4/2019	173.66	-10.86	
		3/4/2020	171.11	-8.31	
		6/1/2020	172.75	-9.95	
		9/3/2020	173.87	-11.07	212.49
MW-OU2-70-180	196.79	12/4/2019	208.20	-11.41	
		3/4/2020	205.65	-8.86	
		6/1/2020	207.00	-10.21	
		9/2/2020	210.36	-13.57	242.65
<b>Lower 180-Foot Aquifer</b>					
AIRFIELD	142.00	12/2/2019	150.46	-8.46	
		3/3/2020	147.37	-5.37	
		6/3/2020	151.80	-9.80	
		8/31/2020	156.11	-14.11	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
EW-OU2-07-180	163.39	12/4/2019	174.02	-10.63	
		3/5/2020	171.68	-8.29	
		6/3/2020	172.49	-9.10	
		9/2/2020	176.12	-12.73	262.49
MCWD-08A	151.89	12/4/2019	158.95	-7.06	
		3/4/2020	156.63	-4.74	
		6/3/2020	NM	NM	
		10/12/2020	159.15	-7.26	NM
MP-BW-30-317	156.08	12/2/2019	163.08	-7.00	
		3/6/2020	161.68	-5.60	
		6/4/2020	164.79	-8.71	
		9/1/2020	167.47	-11.39	NM
MP-BW-30-342	156.08	12/2/2019	163.08	-7.00	
		3/6/2020	161.72	-5.64	
		6/4/2020	164.83	-8.75	
		9/1/2020	167.39	-11.31	NM
MP-BW-30-397	156.08	12/2/2019	162.56	-6.48	
		3/6/2020	161.18	-5.10	
		6/4/2020	164.24	-8.16	
		9/1/2020	166.90	-10.82	NM
MP-BW-30-467	156.08	12/2/2019	161.72	-5.64	
		3/6/2020	160.35	-4.27	
		6/4/2020	163.40	-7.32	
		9/1/2020	166.05	-9.97	NM
MP-BW-30-537	156.08	12/2/2019	161.91	-5.83	
		3/6/2020	160.55	-4.47	
		6/4/2020	163.57	-7.49	
		9/1/2020	166.45	-10.37	NM
MP-BW-31-292	137.11	12/5/2019	144.32	-7.21	
		3/3/2020	142.87	-5.76	
		6/4/2020	147.02	-9.91	
		9/1/2020	149.42	-12.31	NM
MP-BW-31-332	137.11	12/5/2019	144.36	-7.25	
		3/3/2020	142.75	-5.64	
		6/4/2020	146.39	-9.28	
		9/1/2020	148.90	-11.79	NM
MP-BW-31-362	137.11	12/5/2019	144.00	-6.89	
		3/3/2020	142.41	-5.30	
		6/4/2020	146.19	-9.08	
		9/1/2020	148.61	-11.50	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MP-BW-31-407	137.11	12/5/2019	143.43	-6.32	
		3/3/2020	141.82	-4.71	
		6/4/2020	145.49	-8.38	
		9/1/2020	147.93	-10.82	NM
MP-BW-31-457	137.11	12/5/2019	143.10	-5.99	
		3/3/2020	141.56	-4.45	
		6/4/2020	145.13	-8.02	
		9/1/2020	147.53	-10.42	NM
MP-BW-31-522	137.11	12/5/2019	143.24	-6.13	
		3/3/2020	141.79	-4.68	
		6/4/2020	145.66	-8.55	
		9/1/2020	148.11	-11.00	NM
MP-BW-32-332	153.04	12/4/2019	160.33	-7.29	
		3/2/2020	159.06	-6.02	
		6/4/2020	164.78	-11.74	
		9/1/2020	164.64	-11.60	NM
MP-BW-32-366	153.04	12/4/2019	160.18	-7.14	
		3/2/2020	158.86	-5.82	
		6/4/2020	164.54	-11.50	
		9/1/2020	164.49	-11.45	NM
MP-BW-32-412	153.04	12/4/2019	159.81	-6.77	
		3/2/2020	158.52	-5.48	
		6/4/2020	164.22	-11.18	
		9/1/2020	164.08	-11.04	NM
MP-BW-32-472	153.04	12/4/2019	159.52	-6.48	
		3/2/2020	158.18	-5.14	
		6/4/2020	163.88	-10.84	
		9/1/2020	163.86	-10.82	NM
MP-BW-32-522	153.04	12/4/2019	159.71	-6.67	
		3/2/2020	158.37	-5.33	
		6/4/2020	164.26	-11.22	
		9/1/2020	164.21	-11.17	NM
MP-BW-33-317	153.85	12/4/2019	161.75	-7.90	
		3/3/2020	160.05	-6.20	
		6/4/2020	163.81	-9.96	
		9/1/2020	165.86	-12.01	NM
MP-BW-33-352	153.85	12/4/2019	161.58	-7.73	
		3/3/2020	159.92	-6.07	
		6/4/2020	163.66	-9.81	
		9/1/2020	165.74	-11.89	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MP-BW-33-397	153.85	12/4/2019	161.26	-7.41	
		3/3/2020	159.55	-5.70	
		6/4/2020	163.26	-9.41	
		9/1/2020	165.45	-11.60	NM
MP-BW-34-292	127.61	12/4/2019	135.98	-8.37	
		3/2/2020	135.98	-8.37	
		6/4/2020	140.57	-12.96	
		8/31/2020	141.91	-14.30	NM
MP-BW-34-357	127.61	12/4/2019	135.89	-8.28	
		3/2/2020	135.89	-8.28	
		6/4/2020	139.17	-11.56	
		8/31/2020	140.78	-13.17	NM
MP-BW-34-422	127.61	12/4/2019	135.56	-7.95	
		3/2/2020	135.56	-7.95	
		6/4/2020	138.72	-11.11	
		8/31/2020	140.29	-12.68	NM
MP-BW-34-492	127.61	12/4/2019	135.22	-7.61	
		3/2/2020	135.22	-7.61	
		6/4/2020	138.57	-10.96	
		8/31/2020	140.02	-12.41	NM
MP-BW-34-537	127.61	12/4/2019	136.25	-8.64	
		3/2/2020	136.25	-8.64	
		6/4/2020	141.11	-13.50	
		8/31/2020	142.78	-15.17	NM
MP-BW-35-312	138.56	12/2/2019	145.94	-7.38	
		3/2/2020	145.94	-7.38	
		6/1/2020	150.97	-12.41	
		8/31/2020	153.12	-14.56	NM
MP-BW-35-366	138.56	12/2/2019	145.87	-7.31	
		3/2/2020	145.87	-7.31	
		6/1/2020	150.58	-12.02	
		8/31/2020	152.77	-14.21	NM
MP-BW-35-402	138.56	12/2/2019	145.72	-7.16	
		3/2/2020	145.72	-7.16	
		6/1/2020	150.36	-11.80	
		8/31/2020	152.55	-13.99	NM
MP-BW-35-467	138.56	12/2/2019	145.31	-6.75	
		3/2/2020	145.31	-6.75	
		6/1/2020	149.97	-11.41	
		8/31/2020	152.14	-13.58	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MP-BW-35-527	138.56	12/2/2019	145.11	-6.55	
		3/2/2020	145.11	-6.55	
		6/1/2020	149.72	-11.16	
		8/31/2020	151.78	-13.22	NM
MP-BW-35-562	138.56	12/2/2019	145.88	-7.32	
		3/2/2020	145.88	-7.32	
		6/1/2020	151.58	-13.02	
		8/31/2020	153.79	-15.23	NM
MP-BW-37-303	135.76	12/5/2019	142.83	-7.07	
		3/3/2020	141.40	-5.64	
		6/4/2020	145.48	-9.72	
		9/1/2020	147.44	-11.68	NM
MP-BW-37-328	135.76	12/5/2019	142.82	-7.06	
		3/3/2020	141.46	-5.70	
		6/4/2020	145.59	-9.83	
		9/1/2020	147.48	-11.72	NM
MP-BW-37-368	135.76	12/5/2019	142.36	-6.60	
		3/3/2020	140.98	-5.22	
		6/4/2020	144.95	-9.19	
		9/1/2020	146.81	-11.05	NM
MP-BW-37-398	135.76	12/5/2019	141.99	-6.23	
		3/3/2020	140.56	-4.80	
		6/4/2020	144.60	-8.84	
		9/1/2020	146.47	-10.71	NM
MP-BW-37-460	135.76	12/5/2019	142.60	-6.84	
		3/3/2020	141.23	-5.47	
		6/4/2020	145.13	-9.37	
		9/1/2020	147.00	-11.24	NM
MP-BW-38-327	126.17	12/2/2019	134.89	-8.72	
		3/2/2020	134.89	-8.72	
		6/3/2020	140.86	-14.69	
		8/31/2020	140.65	-14.48	NM
MP-BW-38-341	126.17	12/2/2019	132.78	-6.61	
		3/2/2020	132.78	-6.61	
		6/3/2020	138.78	-12.61	
		8/31/2020	138.73	-12.56	NM
MP-BW-38-353	126.17	12/2/2019	132.69	-6.52	
		3/2/2020	132.69	-6.52	
		6/3/2020	138.64	-12.47	
		8/31/2020	138.43	-12.26	NM



**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MP-BW-38-368	126.17	12/2/2019	134.85	-8.68	
		3/2/2020	134.85	-8.68	
		6/3/2020	140.78	-14.61	
		8/31/2020	140.61	-14.44	NM
MP-BW-38-418	126.17	12/2/2019	134.41	-8.24	
		3/2/2020	134.41	-8.24	
		6/3/2020	140.15	-13.98	
		8/31/2020	140.06	-13.89	NM
MP-BW-39-310	140.42	12/2/2019	148.24	-7.82	
		3/4/2020	148.24	-7.82	
		6/1/2020	152.02	-11.60	
		8/31/2020	153.71	-13.29	NM
MP-BW-39-330	140.42	12/2/2019	148.16	-7.74	
		3/4/2020	148.16	-7.74	
		6/1/2020	151.85	-11.43	
		8/31/2020	153.53	-13.11	NM
MP-BW-39-350	140.42	12/2/2019	148.02	-7.60	
		3/4/2020	148.02	-7.60	
		6/1/2020	151.78	-11.36	
		8/31/2020	153.35	-12.93	NM
MP-BW-39-395	140.42	12/2/2019	146.92	-6.50	
		3/4/2020	146.92	-6.50	
		6/1/2020	150.68	-10.26	
		8/31/2020	152.18	-11.76	NM
MP-BW-40-333	126.42	12/2/2019	137.67	-11.25	
		3/4/2020	137.67	-11.25	
		6/3/2020	143.23	-16.81	
		8/31/2020	143.65	-17.23	NM
MP-BW-40-353	126.42	12/2/2019	137.73	-11.31	
		3/4/2020	137.73	-11.31	
		6/3/2020	143.52	-17.10	
		8/31/2020	143.62	-17.20	NM
MP-BW-40-375	126.42	12/2/2019	137.35	-10.93	
		3/4/2020	137.35	-10.93	
		6/3/2020	143.07	-16.65	
		8/31/2020	143.17	-16.75	NM
MP-BW-40-400	126.42	12/2/2019	137.37	-10.95	
		3/4/2020	137.37	-10.95	
		6/3/2020	142.91	-16.49	
		8/31/2020	143.14	9.90	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MP-BW-41-286	157.05	12/3/2019	167.41	-10.36	
		3/3/2020	165.06	-8.01	
		6/2/2020	167.44	-10.39	
		9/3/2020	169.44	-16.40	NM
MP-BW-41-318	157.05	12/3/2019	167.48	-10.43	
		3/3/2020	165.03	-7.98	
		6/2/2020	167.45	-10.40	
		9/3/2020	169.46	-16.42	NM
MP-BW-41-353	157.05	12/3/2019	167.58	-10.53	
		3/3/2020	165.06	-8.01	
		6/2/2020	167.46	-10.41	
		9/3/2020	169.51	-16.47	NM
MP-BW-41-396	157.05	12/3/2019	167.52	-10.47	
		3/3/2020	164.98	-7.93	
		6/2/2020	167.41	-10.36	
		9/3/2020	169.37	-16.33	NM
MP-BW-42-295	148.69	12/3/2019	158.36	-9.67	
		3/4/2020	155.89	-7.20	
		6/2/2020	157.67	-8.98	
		9/3/2020	161.08	-8.04	NM
MP-BW-42-314	148.69	12/3/2019	158.41	-9.72	
		3/4/2020	155.94	-7.25	
		6/2/2020	157.70	-9.01	
		9/3/2020	161.09	-8.05	NM
MP-BW-42-345	148.69	12/3/2019	158.22	-9.53	
		3/4/2020	155.87	-7.18	
		6/2/2020	157.60	-8.91	
		9/3/2020	160.92	-7.88	NM
MP-BW-42-400	148.69	12/3/2019	158.39	-9.70	
		3/4/2020	155.92	-7.23	
		6/2/2020	157.44	-8.75	
		9/3/2020	160.78	-12.09	NM
MP-BW-49-287	164.60	12/3/2019	175.24	-10.64	
		3/4/2020	172.51	-7.91	
		6/1/2020	175.00	-10.40	
		9/2/2020	174.68	-10.08	NM
MP-BW-49-316	164.60	12/3/2019	175.17	-10.57	
		3/4/2020	172.66	-8.06	
		6/1/2020	175.08	-10.48	
		9/2/2020	174.75	-10.15	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MP-BW-49-336	164.60	12/3/2019	175.19	-10.59	
		3/4/2020	172.68	-8.08	
		6/1/2020	175.12	-10.52	
		9/2/2020	174.80	-10.20	NM
MP-BW-49-368	164.60	12/3/2019	175.24	-10.64	
		3/4/2020	172.78	-8.18	
		6/1/2020	175.24	-10.64	
		9/2/2020	174.92	-10.32	NM
MP-BW-49-400	164.60	12/3/2019	175.36	-10.76	
		3/4/2020	172.92	-8.32	
		6/1/2020	175.27	-10.67	
		9/2/2020	174.95	-10.35	NM
MP-BW-50-289	133.57	12/4/2019	144.22	-10.65	
		3/4/2020	141.94	-8.37	
		6/2/2020	144.36	-10.79	
		9/2/2020	147.41	-13.84	NM
MP-BW-50-309	133.57	12/4/2019	144.25	-10.68	
		3/4/2020	141.92	-8.35	
		6/2/2020	144.41	-10.84	
		9/2/2020	147.48	-13.91	NM
MP-BW-50-339	133.57	12/4/2019	144.35	-10.78	
		3/4/2020	142.00	-8.43	
		6/2/2020	144.40	-10.83	
		9/2/2020	147.44	-13.87	NM
MP-BW-50-359	133.57	12/4/2019	144.40	-10.83	
		3/4/2020	142.07	-8.50	
		6/2/2020	144.40	-10.83	
		9/2/2020	147.51	-13.94	NM
MP-BW-50-384	133.57	12/4/2019	144.42	-10.85	
		3/4/2020	142.15	-8.58	
		6/2/2020	144.35	-10.78	
		9/2/2020	147.41	-13.84	NM
MP-BW-51-315	155.82	12/3/2019	166.56	-10.74	
		3/4/2020	164.41	-8.59	
		6/1/2020	168.91	-13.09	
		9/2/2020	170.80	-14.98	NM
MP-BW-51-340	155.82	12/3/2019	166.53	-10.71	
		3/4/2020	164.43	-8.61	
		6/1/2020	168.93	-13.11	
		9/2/2020	170.91	-15.09	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MP-BW-51-370	155.82	12/3/2019	166.70	-10.88	
		3/4/2020	164.42	-8.60	
		6/1/2020	169.01	-13.19	
		9/2/2020	170.88	-15.06	NM
MP-BW-51-405	155.82	12/3/2019	166.73	-10.91	
		3/4/2020	164.58	-8.76	
		6/1/2020	169.15	-13.33	
		9/2/2020	170.91	-15.09	NM
MP-BW-52-323	135.76	12/2/2019	144.73	-8.97	
		3/4/2020	144.73	-8.97	
		6/3/2020	150.40	-14.64	
		8/31/2020	151.12	-15.36	NM
MP-BW-52-338	135.76	12/2/2019	144.74	-8.98	
		3/4/2020	144.74	-8.98	
		6/3/2020	150.53	-14.77	
		8/31/2020	151.08	-15.32	NM
MP-BW-52-363	135.76	12/2/2019	144.73	-8.97	
		3/4/2020	144.73	-8.97	
		6/3/2020	150.34	-14.58	
		8/31/2020	150.80	-15.04	NM
MP-BW-52-388	135.76	12/2/2019	144.56	-8.80	
		3/4/2020	144.56	-8.80	
		6/3/2020	150.10	-14.34	
		8/31/2020	150.72	-14.96	NM
MP-BW-52-408	135.76	12/2/2019	144.63	-8.87	
		3/4/2020	144.63	-8.87	
		6/3/2020	150.01	-14.25	
		8/31/2020	150.54	-14.78	NM
MW-BW-03-400	141.32	12/5/2019	152.34	-11.02	
		3/5/2020	150.86	-9.54	
		6/4/2020	156.16	-14.84	
		9/3/2020	157.39	-16.07	NM
MW-BW-04-180	140.97	12/4/2019	208.54	-67.57	
		3/5/2020	206.06	-65.09	
		6/3/2020	206.71	-65.74	
		9/2/2020	207.12	-66.15	NM
MW-BW-59-180	198.85	12/4/2019	154.38	44.47	
		3/4/2020	152.08	46.77	
		6/2/2020	153.62	45.23	
		9/3/2020	156.72	42.13	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
MW-OU2-07-400	174.98	12/4/2019	173.15	1.83	
		3/4/2020	170.65	4.33	
		6/1/2020	172.40	2.58	
		9/3/2020	175.49	-0.51	NM
MW-OU2-28-400	198.33	12/4/2019	167.05	31.28	
		3/4/2020	164.70	33.63	
		6/1/2020	166.75	31.58	
		9/3/2020	169.75	28.58	NM
MW-OU2-66-180	144.27	12/4/2019	208.79	-64.52	
		3/4/2020	206.47	-62.20	
		6/1/2020	209.05	-64.78	
		9/2/2020	211.87	-67.60	NM
MW-OU2-68-180	162.33	12/4/2019	208.93	-46.60	
		3/4/2020	206.54	-44.21	
		6/3/2020	209.11	-46.78	
		9/2/2020	212.19	-49.86	278.48
MW-OU2-69-180	156.36	12/4/2019	176.68	-20.32	
		3/5/2020	174.39	-18.03	
		6/3/2020	175.28	-18.92	
		9/2/2020	178.14	-21.78	NM
MW-OU2-71-180	197.44	12/5/2019	195.17	2.27	
		3/6/2020	192.44	5.00	
		6/5/2020	193.79	3.65	
		9/3/2020	196.74	0.70	NM
MW-OU2-72-180	197.48	12/6/2019	263.29	-65.81	
		3/5/2020	261.65	-64.17	
		6/4/2020	267.00	-69.52	
		9/3/2020	267.04	-69.56	NM
MW-OU2-78-180	167.04	12/4/2019	176.68	-9.64	
		3/5/2020	174.39	-7.35	
		6/3/2020	175.28	-8.24	
		9/2/2020	178.14	-11.10	NM
MW-OU2-82-180	184.26	12/5/2019	195.17	-10.91	
		3/6/2020	192.44	-8.18	
		6/5/2020	193.79	-9.53	
		9/3/2020	196.74	-12.84	NM

**Table 5. Groundwater Elevations,  
Fourth Quarter 2019 through Third Quarter 2020**

Station Name	Top of Casing Elevation (feet) <sup>1</sup>	Date Measured	Depth to Water (feet) <sup>2</sup>	Water Level Elevation (feet) <sup>1</sup>	Total Depth (feet) <sup>2</sup>
TEST2	252.00	12/6/2019	263.29	-11.29	
		3/5/2020	261.65	-9.65	
		6/4/2020	267.00	-15.00	
		9/3/2020	267.04	-15.04	NM

**Notes:**

Gray cell indicate no measurement taken (total depth only collected in Third Quarter events)

NM = Not Measured

<sup>1</sup> Elevations are given in feet relative to mean sea level (MSL).

<sup>2</sup> Depth to water and total depth is measured from top of well casing. Wells with pumps, multi-port wells, or wells greater than 300 feet deep unable to measure total depth.

**Table 6. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Fourth Quarter 2019**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2- DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride (µg/L)		PCE (µg/L)		TCE (µg/L)		Vinyl chloride (µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EISB-EW-01	74	12/02/19	<0.25	U	<0.25	U	0.33	J	0.41	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EISB-EW-09	80	12/02/19	<0.25	U	<0.25	U	1.4		0.35	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-109-A	107	12/05/19	<0.25	U	<0.25	U	1.4		0.36	J	<0.50	U	<0.25	U	0.58		<0.050	U
EW-BW-124-A	99	12/05/19	<0.25	U	<0.25	U	<0.25	U	0.28	J	<0.50	U	0.14	J	1.2		<0.050	U
EW-BW-135-A	96	12/05/19	<0.25	U	0.20	J	<0.25	U	<0.25	U	<0.50	U	<0.25	U	1.2		<0.050	U
EW-BW-149-A	102	12/03/19	<0.25	U	<0.25	U	<0.25	U	0.38	J	<0.50	U	<0.25	U	0.15	J	<0.050	U
EW-BW-155-A	91	12/03/19	<0.25	U	<0.25	U	0.33	J	<0.25	U	<0.50	U	<0.25	U	0.57		<0.050	U
EW-BW-160-A	81	12/03/19	<0.25	U	<0.25	U	1.2		0.20	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-166-A	81	12/03/19	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-B-12-A	66	12/02/19	<0.25	U	<0.25	U	0.65		<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-B-14-A	94	12/03/19	<0.25	U	<0.25	U	0.60		0.21	J	<0.50	U	<0.25	U	0.13	J	<0.050	U
MW-BW-15-A	102	12/03/19	<0.25	U	<0.25	U	0.14	J	0.18	J	<0.50	U	<0.25	U	0.30	J	<0.050	U
MW-BW-17-A	91	12/05/19	<0.25	U	<0.25	U	<0.25	U	0.13	J	<0.50	U	<0.25	U	0.28	J	<0.050	U
MW-BW-24-A	83	12/05/19	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-26-A	115	12/05/19	<0.25	U	<0.25	U	3.9		0.57		0.75	J	<0.25	U	0.79		<0.050	U
MW-BW-27-A	110	12/03/19	<0.25	U	0.15	J	<0.25	U	<0.25	U	<0.50	U	<0.25	U	0.54		<0.050	U
MW-BW-28-A	87	12/03/19	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-31-A	94	12/03/19	<0.25	U	<0.25	U	1.3		0.74		<0.50	U	<0.25	U	0.51		<0.050	U
MW-BW-32-A	77	12/03/19	<0.25	U	<0.25	U	1.8		0.26	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-35-A	87	12/02/19	<0.25	U	<0.25	U	0.13	J	21.3		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-36-A	83	12/02/19	<0.25	U	<0.25	U	0.67		2.1		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-42-A	51	12/02/19	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-49-A	54	12/04/19	<0.25	U	<0.25	U	1.4	J+	0.26	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-58-A	86	12/03/19	<0.25	U	<0.25	U	0.30	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-60-A	82	12/03/19	<0.25	U	<0.25	U	0.32	J	0.12	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-65-A	64	12/04/19	<0.25	U	<0.25	U	0.70	J+	0.12	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-66-A	65	12/02/19	<0.25	U	<0.25	U	1.1		0.11	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-74-A	36	12/04/19	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U

**Table 6. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Fourth Quarter 2019**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2- DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride (µg/L)		PCE (µg/L)		TCE (µg/L)		Vinyl chloride (µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
MW-BW-74-A^	41	12/04/19	<0.25	U	<0.25	U	0.12	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-75-A	45	12/04/19	<0.25	U	<0.25	U	<b>1.9</b>	J+	0.18	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-77-A	77	12/04/19	<0.25	U	<0.25	U	0.27	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-77-A^	92	12/04/19	<0.25	U	<0.25	U	0.28	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-78-A	59	12/04/19	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-78-A^	64	12/04/19	<0.25	U	<0.25	U	0.17	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-79-A	75	12/04/19	<0.25	U	<0.25	U	0.24	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-80-A	49	12/04/19	<0.25	U	<0.25	U	<b>3.3</b>	J+	0.27	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-85-A	83	12/03/19	<0.25	U	<0.25	U	<b>0.85</b>		0.18	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-86-A	94	12/03/19	<0.25	U	<0.25	U	0.24	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-87-A	92	12/03/19	<0.25	U	<0.25	U	<b>1.9</b>		0.34	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-88-A	100	12/03/19	<0.25	U	<0.25	U	<b>1.4</b>		0.37	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-89-A	97	12/03/19	<0.25	U	<0.25	U	<b>0.77</b>		0.46	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-90-A	68	12/03/19	<0.25	U	<0.25	U	<b>1.3</b>		0.17	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-91-A	80	12/03/19	<0.25	U	<0.25	U	<b>0.93</b>		0.24	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-92-A	78	12/03/19	<0.25	U	<0.25	U	<b>0.81</b>		0.15	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-93-A	96	12/03/19	<0.25	U	<0.25	U	0.25	J	0.61		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-94-AR	83	12/03/19	<0.25	U	<0.25	U	0.49	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-95-A	117	12/03/19	<0.25	U	<0.25	U	<b>1.2</b>		0.12	J	<0.50	U	<0.25	U	<b>0.32</b>	J	<0.050	U
<b>Maximum Concentration (µg/L):</b>			<0.25	U	0.20	J	<b>3.9</b>		<b>21.3</b>		0.75	J	0.14	J	1.2		<0.050	U
<b>Number of Sampling Locations:</b>			44		44		44		44		44		44		44		44	
<b>Number of Locations above ACL:</b>			0		0		22		2		0		0		0		0	
<b>Percent of Locations with Detections:</b>			0%		5%		80%		66%		2%		2%		27%		0%	



## Table 6. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Fourth Quarter 2019

**Notes:**

--: sample collected from pump spigot

Results in **bold** are detected results above the Aquifer Cleanup Level (ACL) as shown in Table 1

Results in *gray* are not detected (result reported as <limit of detection [LOD])

Gray cells indicate the compound was not analyzed for in the sample collected from that well (applies to wells in OUCTP EISB Deployment Area 3A)

^ Passive diffusion bag (PDB) sample collected at different depth

¥ Sample collected as part of long-term performance monitoring for OUCTP EISB Deployment Area 3A, which has a different analyte list (Athna, 2016); these data will be reported under separate cover

**Analyte Names:**

1,1-DCE: 1,1-dichloroethene

1,2-DCE (total): total 1,2-dichloroethene

CT: carbon tetrachloride

PCE: tetrachloroethene

TCE: trichloroethene

**Acronyms and Abbreviations:**

µg/L: micrograms per liter

ft btoc: feet below top of casing

Qual: qualifier

**Data Validation Qualifiers:**

J: Laboratory or validation qualifier, estimated result with a possible low (J-) or high bias (J+).

U: Validation qualifier, result not detected above the Limit of Detection (LOD) (identified by <0.50, <0.25 or <0.050).

**Table 7. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, First Quarter 2020**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2-DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride		PCE (µg/L)		TCE (µg/L)		Vinyl chloride	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EISB-EW-01	80	3/2/2020	<0.25	U	<0.25	U	0.33	J	0.47	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EISB-EW-09	68	3/2/2020	<0.25	U	<0.25	U	<b>1.3</b>		0.43	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-109-A	97	3/5/2020	<0.25	U	<0.25	U	<b>1.1</b>		0.36	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-124-A	104	3/5/2020	<0.25	U	<0.25	U	<0.25	U	0.2	J	<0.50	U	<b>0.13</b>	J	<0.25	U	<0.050	U
EW-BW-135-A	96	3/5/2020	<0.25	U	<b>0.22</b>	J	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<b>0.05</b>	J
EW-BW-149-A	107	3/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<b>0.34</b>	J	<0.050	U
EW-BW-155-A	91	3/2/2020	<0.25	U	<0.25	U	<b>0.25</b>	J	<0.25	U	<0.50	U	<0.25	U	<b>0.71</b>		<0.050	U
EW-BW-160-A	81	3/3/2020	<0.25	U	<0.25	U	<b>2.2</b>		0.31	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-166-A	71	3/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-B-12-A	66	3/2/2020	<0.25	U	<0.25	U	<b>0.56</b>		<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-B-14-A	84	3/3/2020	<0.25	U	<0.25	U	<b>0.73</b>		0.25	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-15-A	87	3/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-17-A	96	3/5/2020	<0.25	U	<0.25	U	0.42	J	0.85		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-24-A	88	3/5/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-26-A	120	3/5/2020	<0.25	U	<0.25	U	<b>4.9</b>		0.85		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-27-A	110	3/2/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<b>0.62</b>		<0.050	U
MW-BW-28-A	92	3/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-31-A	94	3/2/2020	<0.25	U	<0.25	U	<b>0.65</b>		0.98		<0.50	U	<0.25	U	<b>0.54</b>		<0.050	U
MW-BW-32-A	77	3/2/2020	<0.25	U	<0.25	U	<b>2.2</b>		0.36	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-35-A	82	3/2/2020	<0.25	U	<0.25	U	0.34	J	<b>17.4</b>		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-36-A	83	3/2/2020	<0.25	U	<0.25	U	<b>0.71</b>		<b>6.5</b>	J-	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-42-A	56	3/2/2020	<0.25	U	<0.25	U	0.16	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-49-A	59	3/4/2020	<0.25	U	<0.25	U	<b>0.96</b>		0.19	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-56-A	93	3/3/2020	<0.25	U	<0.25	U	0.28	J	0.21	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U

**Table 7. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, First Quarter 2020**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2-DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride		PCE (µg/L)		TCE (µg/L)		Vinyl chloride	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
MW-BW-58-A	86	3/3/2020	<0.25	U	<0.25	U	0.52		<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-60-A	87	3/3/2020	<0.25	U	<0.25	U	0.36	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-65-A	49	3/4/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-66-A	65	3/2/2020	<0.25	U	<0.25	U	1.1		0.12	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-74-A	36	3/4/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-74-A^	46	3/4/2020	<0.25	U	<0.25	U	0.1	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-75-A	45	3/4/2020	<0.25	U	<0.25	U	1.9		0.21	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-77-A	77	3/4/2020	<0.25	U	<0.25	U	0.31	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-77-A^	82	3/4/2020	<0.25	U	<0.25	U	0.31	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-78-A	59	3/4/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-78-A^	69	3/4/2020	<0.25	U	<0.25	U	0.15	J	0.11	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-79-A	75	3/4/2020	<0.25	U	<0.25	U	0.24	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-80-A	49	3/4/2020	<0.25	U	<0.25	U	2.3		0.27	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-85-A	88	3/3/2020	<0.25	U	<0.25	U	1.1		0.24	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-86-A	89	3/3/2020	<0.25	U	<0.25	U	0.22	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-87-A	92	3/3/2020	<0.25	U	<0.25	U	2.6		0.43	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-88-A	95	3/3/2020	<0.25	U	<0.25	U	1.5		0.38	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-89-A	97	3/3/2020	<0.25	U	<0.25	U	0.81		0.6		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-90-A	73	3/3/2020	<0.25	U	<0.25	U	1.6		0.21	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-91-A	85	3/3/2020	<0.25	U	<0.25	U	1		0.29	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-92-A	83	3/2/2020	<0.25	U	<0.25	U	0.95		<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-93-A	96	3/3/2020	<0.25	U	<0.25	U	0.24	J	0.56		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-94-AR	88	3/3/2020	<0.25	U	<0.25	U	0.63		<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-95-A	117	3/3/2020	<0.25	U	<0.25	U	1.5		<0.25	U	<0.50	U	<0.25	U	0.43	J	<0.050	U
<b>Maximum Concentration (µg/L):</b>			<0.25	U	0.22	J	4.9		17.4		<0.50	U	0.13	J	0.71		0.050	J
<b>Number of Sampling Locations:</b>			45		45		45		45		45		45		45		45	
<b>Number of Locations above ACL:</b>			0		0		23		2		0		0		0		0	
<b>Percent of Locations with Detections:</b>			0%		2%		80%		56%		0%		2%		11%		2%	

## Table 7. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, First Quarter 2020

### Notes:

Results in **bold** are detected results above the Aquifer Cleanup Level (ACL) as shown in Table 1

Results in *gray* are not detected (result reported as <limit of detection [LOD])

^ Passive diffusion bag (PDB) sample collected at different depth

### Analyte Names:

1,1-DCE: 1,1-dichloroethene

1,2-DCE (total): total 1,2-dichloroethene

CT: carbon tetrachloride

PCE: tetrachloroethene

TCE: trichloroethene

### Acronyms and Abbreviations:

µg/L: micrograms per liter

ft btoc: feet below top of casing

Qual: qualifier

### Data Validation Qualifiers:

J: Laboratory or validation qualifier, estimated result with a possible low (J-) or high bias (J+).

U: Validation qualifier, result not detected above the Limit of Detection (LOD) (identified by <0.50, <0.25 or <0.050).

**Table 8. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Second Quarter 2020**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2- DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride (µg/L)		PCE (µg/L)		TCE (µg/L)		Vinyl chloride (µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EISB-EW-01	74	6/1/2020	<0.25	U	<0.25	U	0.36	J	0.53		<0.50	U	<0.25	U	<0.25	U	<0.050	U
EISB-EW-09	74	6/1/2020	<0.25	U	<0.25	U	<b>1.2</b>		0.49	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-109-A	102	6/2/2020	<0.25	U	<0.25	U	<b>1.2</b>		0.37	J	<0.50	U	<0.25	U	0.6		<0.050	U
EW-BW-124-A	94	6/2/2020	<0.25	U	<0.25	U	<0.25	U	0.22	J	<0.50	U	<b>0.11</b>	J	<b>1</b>		<0.050	U
EW-BW-129-A	92	6/2/2020	<0.25	U	<0.25	U	<0.25	U	0.89		<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-129-A^	97	6/2/2020	<0.25	U	<0.25	U	<0.25	U	0.91		<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-129-A^	102	6/2/2020	<0.25	U	<0.25	U	<b>2.0</b>		0.56		<0.50	U	<0.25	U	<b>0.86</b>		<0.050	U
EW-BW-135-A	96	6/2/2020	<0.25	U	<b>0.18</b>	J	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<b>1.1</b>		<0.050	U
EW-BW-140-A	106	6/2/2020	<0.25	U	<0.25	U	<0.25	U	0.12	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-140-A^	111	6/2/2020	<0.25	U	<0.25	U	0.27	J	0.15	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-140-A^	116	6/2/2020	<0.25	U	<0.25	U	0.27	J	0.15	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-140-A^	121	6/2/2020	<0.25	U	<0.25	U	0.28	J	0.14	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-140-A^	126	6/2/2020	<0.25	U	<0.25	U	0.27	J	0.14	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-149-A	102	6/3/2020	<0.25	U	<0.25	U	<0.25	U	0.1	J	<0.50	U	<0.25	U	0.25	J	<0.050	U
EW-BW-155-A	91	6/1/2020	<0.25	U	<0.25	U	0.12	J	<0.25	U	<0.50	U	<0.25	U	0.77		<0.050	U
EW-BW-160-A	81	6/3/2020	<0.25	U	<0.25	U	<b>2.1</b>		0.3	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-166-A	86	6/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-B-12-A	66	6/1/2020	<0.25	U	<0.25	U	0.49	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-B-14-A	84	6/3/2020	<0.25	U	<0.25	U	<b>0.52</b>		0.18	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-15-A	92	6/5/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-17-A	91	6/2/2020	<0.25	U	<0.25	U	<0.25	U	0.17	J	<0.50	U	<0.25	U	0.32	J	<0.050	U
MW-BW-24-A	93	6/2/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-26-A	125	6/2/2020	<0.25	U	<0.25	U	<b>3.6</b>		0.63		<0.50	U	<0.25	U	0.82		<0.050	U
MW-BW-27-A	110	6/4/2020	<0.25	U	0.17	J	<0.25	U	<0.25	U	<0.50	U	<0.25	U	0.53		<0.050	U
MW-BW-28-A	97	6/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-31-A	94	6/1/2020	<0.25	U	<0.25	U	0.45	J	0.48	J	<0.50	U	<0.25	U	0.62		<0.050	U
MW-BW-32-A	77	6/3/2020	<0.25	U	<0.25	U	<b>1.5</b>		0.28	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-35-A	87	6/1/2020	<0.25	U	<0.25	U	0.12	J	<b>18</b>		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-36-A	83	6/1/2020	<0.25	U	<0.25	U	0.21	J	1.9		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-42-A	51	6/1/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-49-A	49	6/4/2020	<0.25	U	<0.25	U	0.39	J	0.12	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U

**Table 8. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Second Quarter 2020**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2- DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride (µg/L)		PCE (µg/L)		TCE (µg/L)		Vinyl chloride (µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
MW-BW-56-A	93	6/5/2020	<0.25	U	<0.25	U	0.13	J	0.21	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-58-A	86	6/3/2020	<0.25	U	<0.25	U	<b>0.53</b>		0.11	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-60-A	92	6/3/2020	<0.25	U	<0.25	U	0.3	J	0.13	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-65-A	54	6/4/2020	<0.25	U	<0.25	U	0.21	J	0.14	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-65-A^	59	6/4/2020	<0.25	U	<0.25	U	0.27	J	0.16	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-65-A^	64	6/4/2020	<0.25	U	<0.25	U	0.23	J	0.16	J	0.75	J	<0.25	U	<0.25	U	<0.050	U
MW-BW-65-A^	69	6/4/2020	<0.25	U	<0.25	U	0.27	J	0.17	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-66-A	65	6/1/2020	<0.25	U	<0.25	U	<b>0.91</b>		0.2	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-74-A	36	6/4/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-74-A^	51	6/4/2020	<0.25	U	<0.25	U	0.11	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-75-A	45	6/4/2020	<0.25	U	<0.25	U	<b>1.7</b>		0.18	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-77-A	77	6/4/2020	<0.25	U	<0.25	U	0.28	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-77-A^	82	6/4/2020	<0.25	U	<0.25	U	0.28	J	<0.25	U	0.55	J	<0.25	U	<0.25	U	<0.050	U
MW-BW-78-A	59	6/4/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-78-A^	74	6/4/2020	<0.25	U	<0.25	U	0.11	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-79-A	80	6/4/2020	<0.25	U	<0.25	U	0.26	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-80-A	49	6/4/2020	<0.25	U	<0.25	U	<b>2</b>		0.25	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-82-A	52	6/3/2020	<0.25	U	<0.25	U	<b>1.1</b>		0.17	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-85-A	83	6/3/2020	<0.25	U	<0.25	U	<b>1.2</b>		0.21	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-86-A	94	6/3/2020	<0.25	U	<0.25	U	0.31	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-87-A	92	6/3/2020	<0.25	U	<0.25	U	<b>2.3</b>		0.4	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-88-A	100	6/3/2020	<0.25	U	<0.25	U	<b>1.0</b>		0.28	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-89-A	97	6/3/2020	<0.25	U	<0.25	U	<b>0.66</b>		0.4	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-90-A	68	6/3/2020	<0.25	U	<0.25	U	<b>1.4</b>		0.18	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-91-A	80	6/3/2020	<0.25	U	<0.25	U	<b>0.94</b>		0.28	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-92-A	88	6/3/2020	<0.25	U	<0.25	U	<b>0.83</b>		0.16	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-93-A	96	6/3/2020	<0.25	U	<0.25	U	0.23	J	0.5		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-94-AR	78	6/3/2020	<0.25	U	<0.25	U	<b>0.52</b>		<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-95-A	117	6/3/2020	<0.25	U	<0.25	U	<b>1.1</b>		0.12	J	<0.50	U	<0.25	U	0.35	J	<0.050	U
<b>Maximum Concentration (µg/L):</b>			<0.25	U	0.18	J	<b>3.6</b>		<b>18.0</b>		0.75	J	0.11	J	1.1		<0.050	U

**Table 8. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Second Quarter 2020**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2- DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride (µg/L)		PCE (µg/L)		TCE (µg/L)		Vinyl chloride (µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
<b>Number of Sampling Locations:</b>			48		48		48		48		48		48		48		48	
<b>Number of Locations above ACL:</b>			0		0		21		1		0		0		0		0	
<b>Percent of Locations with Detections:</b>			0%		4%		79%		69%		4%		2%		23%		0%	

**Analyte Names:**

1,1-DCE: 1,1-dichloroethene  
 1,2-DCE (total): total 1,2-dichloroethene  
 CT: carbon tetrachloride  
 PCE: tetrachloroethene  
 TCE: trichloroethene

**Acronyms and Abbreviations:**

µg/L: micrograms per liter  
 ft btoc: feet below top of casing  
 Qual: qualifier

**Data Validation Qualifiers:**

J: Laboratory or validation qualifier, estimated result with a possible low (J-) or high bias (J+).  
 U: Validation qualifier, result not detected above the Limit of Detection (LOD) (identified by <0.50, <0.25 or <0.050).

**Table 9. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Third Quarter 2020**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2- DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride (µg/L)		PCE (µg/L)		TCE (µg/L)		Vinyl chloride (µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EISB-EW-01	74	9/23/2020	<0.25	U	<0.25	U	0.22	J	0.43	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EISB-EW-02	75	9/23/2020	<0.25	U	<0.25	U	<0.25	U	0.26	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EISB-EW-09	80	9/23/2020	<0.25	U	<0.25	U	<b>0.90</b>		0.46	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EISB-MW-01	69	9/23/2020	<0.25	U	<0.25	U	0.26	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-109-A	107	9/2/2020	<0.25	U	<0.25	U	<b>0.63</b>		0.33	J	<0.50	U	<0.25	U	0.44	J	<0.050	U
EW-BW-112-A	96	9/2/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	0.23	J	<0.050	U
EW-BW-119-A	105	9/2/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	0.20	J	<0.050	U
EW-BW-124-A	99	9/3/2020	<0.25	U	<0.25	U	0.33	J	0.38	J	<0.50	U	0.11	J	1.1		<0.050	U
EW-BW-129-A	102	9/3/2020	<0.25	U	<0.25	U	<b>2.2</b>		0.59		<0.50	U	<0.25	U	1.1		<0.050	U
EW-BW-132-A	86	9/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-135-A	96	9/3/2020	<0.25	UJ	0.17	J	<0.25	UJ	<0.25	UJ	<0.50	UJ	<0.25	UJ	1.1	J-	<0.050	UJ
EW-BW-140-A	111	9/3/2020	<0.25	U	<0.25	U	0.27	J	0.16	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-144-A	116	9/23/2020	<0.25	U	<0.25	U	<0.25	U	0.15	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-144-A^	126	9/23/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-144-A^	136	9/23/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-149-A	107	9/2/2020	<0.25	U	<0.25	U	<0.25	U	0.20	J	<0.50	U	<0.25	U	0.23	J	<0.050	U
EW-BW-150-A	107	9/1/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-155-A	91	9/2/2020	<0.25	U	<0.25	U	0.22	J	<0.25	U	<0.50	U	<0.25	U	0.65		<0.050	U
EW-BW-160-A	81	9/23/2020	<0.25	U	<0.25	U	<b>1.4</b>		0.26	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-165-A	72	9/23/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-166-A	81	9/1/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-167-A	72	9/2/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-168-A	85	9/1/2020	<0.25	U	<0.25	U	<0.25	U	0.18	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
EW-BW-169-A	82	9/1/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MP-BW-46-095	--	9/1/2020	<0.25	U	<0.25	U	0.13	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-B-12-A	66	9/1/2020	<0.25	U	<0.25	U	<b>0.55</b>	J+	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-B-14-A	89	9/2/2020	<0.25	U	<0.25	U	0.49	J	0.20	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-15-A	97	9/1/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	0.12	J	<0.050	U



**Table 9. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Third Quarter 2020**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2- DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride (µg/L)		PCE (µg/L)		TCE (µg/L)		Vinyl chloride (µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
MW-BW-17-A	96	9/3/2020	<0.25	U	<0.25	U	<0.25	U	0.19	J	<0.50	U	<0.25	U	0.38	J	<0.050	U
MW-BW-24-A	93	9/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-26-A	115	9/3/2020	<0.25	U	<0.25	U	<b>3.3</b>		0.63		<0.50	U	<0.25	U	0.86		<0.050	U
MW-BW-27-A	110	9/1/2020	<0.25	U	0.15	J	<0.25	U	<0.25	U	<0.50	U	<0.25	U	0.47	J	<0.050	U
MW-BW-28-A	87	9/1/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-30-A	99	9/23/2020	<0.25	U	<0.25	U	<0.25	U	<b>3.1</b>		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-31-A	94	9/2/2020	<0.25	U	<0.25	U	0.33	J	<b>2.3</b>		<0.50	U	<0.25	U	0.37	J	<0.050	U
MW-BW-32-A	77	9/2/2020	<0.25	U	<0.25	U	<b>1.0</b>		0.29	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-35-A	82	9/2/2020	<0.25	U	<0.25	U	0.20	J	<b>9.3</b>		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-36-A	83	9/2/2020	<0.25	U	<0.25	U	<b>0.71</b>		<b>7.5</b>		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-39-A	55	9/1/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-42-A	56	9/1/2020	<0.25	U	<0.25	U	0.12	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-43-A	27	9/1/2020	<0.25	U	<0.25	U	0.15	J	0.19	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-44-A	73	9/23/2020	<0.25	UJ	<0.25	UJ	<0.25	UJ	<0.25	UJ	<0.50	UJ	<0.25	UJ	<0.25	UJ	<0.050	UJ
MW-BW-48-A	53	9/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-49-A	54	9/4/2020	<0.25	U	<0.25	U	0.33	J	0.14	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-56-A	93	8/31/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-58-A	86	9/1/2020	<0.25	U	<0.25	U	<b>0.62</b>	J+	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-60-A	82	9/2/2020	<0.25	U	<0.25	U	0.17	J	0.13	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-65-A	64	9/4/2020	<0.25	U	<0.25	U	0.32	J	0.16	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-66-A	65	9/23/2020	<0.25	U	<0.25	U	0.35	J	0.19	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-74-A	36	9/4/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-74-A^	56	9/4/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-75-A	45	9/4/2020	<0.25	U	<0.25	U	<b>2.2</b>		0.23	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-77-A	77	9/3/2020	<0.25	U	<0.25	U	0.20	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-77-A^	87	9/3/2020	<0.25	U	<0.25	U	0.18	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U

**Table 9. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Third Quarter 2020**

Station	Depth (ft btoc)	Analyte: Units:	1,1-DCE (µg/L)		Total 1,2- DCE (µg/L)		CT (µg/L)		Chloroform (µg/L)		Methylene chloride (µg/L)		PCE (µg/L)		TCE (µg/L)		Vinyl chloride (µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
MW-BW-78-A	59	9/3/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-78-A^	79	9/3/2020	<0.25	U	<0.25	U	0.12	J	0.12	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-79-A	75	9/3/2020	<0.25	U	<0.25	U	0.10	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-80-A	49	9/4/2020	<0.25	U	<0.25	U	<b>3.0</b>		0.33	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-82-A	47	9/4/2020	<0.25	U	<0.25	U	<b>1.2</b>		0.21	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-83-A	25	9/4/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-83-A^	50	9/4/2020	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-85-A	88	9/23/2020	<0.25	U	<0.25	U	<b>0.77</b>		0.20	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-86-A	89	9/1/2020	<0.25	U	<0.25	U	0.22	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-87-A	92	9/23/2020	<0.25	U	<0.25	U	<b>1.5</b>		0.38	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-88-A	95	9/23/2020	<0.25	U	<0.25	U	0.44	J	0.17	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-89-A	97	9/1/2020	<0.25	U	<0.25	U	<b>0.69</b>		0.46	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-90-A	73	9/1/2020	<0.25	U	<0.25	U	<b>1.9</b>		0.22	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-91-A	85	9/1/2020	<0.25	U	<0.25	U	<b>0.97</b>	J+	0.34	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-92-A	73	9/2/2020	<0.25	U	<0.25	U	<b>0.64</b>		0.17	J	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-93-A	96	9/1/2020	<0.25	U	<0.25	U	0.33	J	0.79		<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-94-AR	83	9/1/2020	<0.25	U	<0.25	U	<b>0.64</b>		<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.050	U
MW-BW-95-A	117	9/1/2020	<0.25	U	<0.25	U	<b>1.2</b>	J+	0.14	J	<0.50	U	<0.25	U	0.35	J	<0.050	U
<b>Maximum Concentration (µg/L):</b>			<0.25	U	0.17	J	<b>3.3</b>		<b>9.3</b>		<0.50	U	0.11	J	<b>1.1</b>		<0.050	U
<b>Number of Sampling Locations:</b>			66		66		66		66		66		66		66		66	
<b>Number of Locations above ACL:</b>			0		0		20		4		0		0		0		0	
<b>Percent of Locations with Detections:</b>			0%		3%		62%		56%		0%		2%		21%		0%	

## Table 9. Summary of Groundwater Monitoring Analytical Results, A-Aquifer, Third Quarter 2020

### Notes:

--: sample collected from pump spigot

Results in **bold** are detected results above the Aquifer Cleanup Level (ACL) as shown in Table 1

Results in *gray* are not detected (result reported as <limit of detection [LOD])

^ Passive diffusion bag (PDB) sample collected at different depth

### Analyte Names:

1,1-DCE: 1,1-dichloroethene

1,2-DCE (total): total 1,2-dichloroethene

CT: carbon tetrachloride

PCE: tetrachloroethene

TCE: trichloroethene

### Acronyms and Abbreviations:

µg/L: micrograms per liter

ft btoc: feet below top of casing

Qual: qualifier

### Data Validation Qualifiers:

J: Laboratory or validation qualifier, estimated result with a possible low (J-) or high bias (J+).

U: Validation qualifier, result not detected above the Limit of Detection (LOD) (identified by <0.50, <0.25 or <0.050).

UJ: Validation qualifier, The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

**Table 10. Summary of Groundwater Field Parameters, Fourth Quarter 2019 through Third Quarter 2020**

Station	Depth (ft btoc)	Analyte:	DO	ORP	pH	Spec Cond	Temperature	Turbidity
		Date	mg/L	mV	Value	µS/cm	°C	NTU
<b>Pilot Study Area (Treatment in 2008)</b>								
EISB-EW-12	72.00	12/3/2019	0.64	33.5	6.67	429	16.83	87.1
EISB-EW-12	62.87	3/2/2020	0.60	47.5	7.17	422	17.22	130.0
EISB-EW-12	62.49	6/1/2020	0.7	52.1	7.44	839	15.98	104.14
EISB-EW-12	72.00	8/31/2020	1.43	103.4	7.1	422	16.7	60.6
EISB-EW-15	66.50	12/3/2019	0.88	90.8	7.32	423	16.71	8.9
EISB-EW-15	53.49	3/2/2020	1.83	87.5	7.76	437	17.18	16.1
EISB-EW-15	52.73	6/1/2020	1.3	108.9	8.16	882	15.85	44.5
EISB-EW-15	66.50	8/31/2020	2.28	120.6	7.28	455	16.6	9.6
<b>Deployment Area 1C (Treatment in 2010)</b>								
EW-BW-112-A	86.00	12/5/2019	0.80	119.8	6.53	679	16.54	11.0
EW-BW-112-A	70.99	3/5/2020	2.68	69	6.97	686	16.66	3.8
EW-BW-112-A	70.76	6/2/2020	0.00	-32.7	7.61	714	15.66	1971.3
EW-BW-112-A	96.00	9/2/2020	1.04	47.1	6.28	713	16.5	67.6
EW-BW-119-A	95.00	12/5/2019	0.70	134	5.87	889	17.10	3.4
EW-BW-119-A	68.25	3/5/2020	1.93	115	6.66	868	17.32	0.2
EW-BW-119-A	68.06	6/2/2020	0.71	88.6	6.75	873	16.2	36
EW-BW-119-A	105.00	9/2/2020	0.88	203.3	6.18	839	17.02	9.8
EW-BW-159-A	96.00	12/5/2019	1.02	82.7	6.93	141	16.73	3.9
EW-BW-159-A	87.55	3/5/2020	0.82	105.6	7.75	131	17.08	0.0
EW-BW-159-A	87.36	6/2/2020	0.79	-66.8	9.86	146	15.83	39
EW-BW-159-A	96.00	9/2/2020	1.77	184.3	6.71	133	16.89	7.5

**Table 10. Summary of Groundwater Field Parameters, Fourth Quarter 2019 through Third Quarter 2020**

Station	Depth (ft btoc)	Analyte:	DO	ORP	pH	Spec Cond	Temperature	Turbidity
		Date	mg/L	mV	Value	µS/cm	°C	NTU
<b>Deployment Area 2A (Treatment in 2011)</b>								
EW-BW-124-A	93.50	12/5/2019	0.63	94.3	6.06	1,032	16.58	1.5
EW-BW-124-A	85.14	3/5/2020	1.98	90.6	6.64	1065	16.97	-1.0
EW-BW-124-A	84.89	6/2/2020	0.61	32.9	7.91	1071	15.7	31.4
EW-BW-124-A	99.00	9/3/2020	1.52	196.4	6.74	995	16.49	11.3
EW-BW-135-A	85.50	12/5/2019	0.62	-78.7	6.42	728	16.88	0.8
EW-BW-135-A	78.62	3/5/2020	0.94	-51.8	6.98	695	17.25	-1.2
EW-BW-135-A	78.50	6/2/2020	0.69	-127.4	8.52	767	16.02	31.3
EW-BW-135-A	96.00	9/3/2020	2.11	-55.6	7.03	735	16.86	46.4
EW-BW-144-A	125.00	12/5/2019	2.14	46.4	6.36	461	16.86	50.2
EW-BW-144-A	109.10	3/5/2020	2.87	70.8	6.78	496	17.18	66.5
EW-BW-144-A	108.91	6/2/2020	2.08	-26.2	8.47	541	15.99	44.7
EW-BW-144-A	125.00	9/3/2020	2.64	123.6	6.5	499	16.81	27.2
<b>Deployment Area 2B (Treatment in 2011-2012)</b>								
EW-BW-149-A	110.00	12/4/2019	0.67	70.9	7.77	579	16.44	11.9
EW-BW-149-A	100.88	3/3/2020	1.83	107.4	6.96	513	16.65	20.4
EW-BW-149-A	100.79	6/3/2020	0.76	26.1	8.52	511	15.59	102.8
EW-BW-149-A	107.00	9/2/2020	1.88	151.3	7.09	496	16.35	28.6
EW-BW-150-A	114.00	12/3/2019	1.73	23.2	6.77	580	17.09	57.4
EW-BW-150-A	102.27	3/3/2020	4.15	69.5	6.87	594	17.3	70.9
EW-BW-150-A	102.07	6/1/2020	2.56	14.4	8.38	1183	16.24	79.1
EW-BW-150-A	107.00	9/1/2020	2.05	117.5	6.09	610	17.1	26.1
EW-BW-155-A	88.00	12/3/2019	0.77	-59.8	8.25	658	--	7.9
EW-BW-155-A	82.15	3/2/2020	1.23	48.8	6.7	587	17.01	6.8
EW-BW-155-A	82.04	6/1/2020	1.53	49.6	8.18	1173	15.81	838.7
EW-BW-155-A	91.00	9/2/2020	2.03	75.3	7.3	589	16.42	12

**Table 10. Summary of Groundwater Field Parameters, Fourth Quarter 2019 through Third Quarter 2020**

Station	Depth (ft btoc)	Analyte:	DO	ORP	pH	Spec Cond	Temperature	Turbidity
		Date	mg/L	mV	Value	µS/cm	°C	NTU
<b>Deployment Area 3A (Treatment in 2016-2017)</b>								
EW-BW-160-A	71.00	12/4/2019	6.81	121.9	7.05	238	16.66	0.8
EW-BW-160-A	64.97	3/3/2020	8.18	132.6	7.34	253	17.01	0.5
EW-BW-160-A	64.86	6/3/2020	7.39	86.4	8.62	246	15.78	31.6
EW-BW-160-A	71.00	8/31/2020	7.48	249.5	6.79	238	16.63	9.2
EW-BW-161-A	69.00	12/4/2019	1.06	86.7	6.24	633	16.98	0.9
EW-BW-161-A	62.02	3/3/2020	1.19	131.3	6.7	507	17.45	-2.3
EW-BW-161-A	61.86	6/3/2020	0.87	108.2	8.09	506	16.15	30.2
EW-BW-161-A	69.00	8/31/2020	2.04	184.1	6.27	486	17.05	6.9
EW-BW-164-A	74.00	12/4/2019	9.53	68.5	6.82	303	16.62	0.1
EW-BW-164-A	68.80	3/3/2020	10.14	121.7	6.44	435	17.15	-0.5
EW-BW-164-A	69.75	6/3/2020	7.22	105.8	6.7	480	15.82	38.5
EW-BW-164-A	74.00	8/31/2020	7.66	261.3	6.09	460	16.57	8.7
EW-BW-166-A	76.00	12/4/2019	8.33	127.4	6.29	353	16.46	6.0
EW-BW-166-A	69.68	3/3/2020	9.31	124.7	6.59	387	16.97	8.8
EW-BW-166-A	69.61	6/3/2020	7.42	75.9	7.6	443	15.63	53.1
EW-BW-166-A	81.00	9/1/2020	7.92	206.2	7.26	371	16.37	9.4

**Notes:**

--: sample collected from pump spigot (OUCTP EISB Deployment Area 3A monitoring wells were monitored with a low flow pump and water quality meter in the Fourth Quarter 2018).

**Acronyms and Abbreviations:**

µS/cm: microsiemens per centimeter

°C: degrees celsius

DO: dissolved oxygen

mg/L: milligrams per liter

mV: millivolts

NM: not measured

NTU: nephelometric turbidity units

ORP: oxidation/reduction potential

Spec Cond: specific conductivity

ft btoc: feet below top of casing

**Table 11. Summary of Groundwater Monitoring Analytical Results,  
Upper 180-Foot Aquifer, Fourth Quarter 2019 through Third Quarter 2020**

Station	Depth (ft btoc)	Analyte:	CT	
		Units:	(µg/L)	
		Date	Value	Qual
EW-OU2-09-180	--	12/3/2019	<0.25	U
EW-OU2-09-180	--	3/4/2020	<0.25	U
EW-OU2-09-180	--	6/2/2020	<0.25	U
EW-OU2-09-180	--	9/2/2020	<0.25	U
MP-BW-41-231	--	9/3/2020	<0.25	U
MP-BW-46-170	--	12/3/2019	<b>5.0</b>	
MP-BW-46-170	--	3/3/2020	<b>6.5</b>	
MP-BW-46-170	--	6/2/2020	<b>4.5</b>	
MP-BW-46-170	--	9/1/2020	<b>4.0</b>	J+
MW-BW-02-180	168	12/5/2019	<0.25	U
MW-BW-02-180	168	3/5/2020	<0.25	U
MW-BW-02-180	168	6/3/2020	<0.25	U
MW-BW-02-180	168	9/3/2020	<0.25	U
MW-BW-21-180	191	6/2/2020	0.15	J
MW-BW-21-180	178	9/2/2020	<0.25	U
MW-BW-43-180	180	6/2/2020	<0.25	U
MW-BW-43-180	198	9/3/2020	<0.25	U
MW-BW-52-180	168	12/5/2019	<b>0.92</b>	
MW-BW-52-180	168	3/4/2020	<b>0.65</b>	
MW-BW-52-180	168	6/4/2020	<b>0.62</b>	
MW-BW-52-180	168	9/2/2020	<b>0.52</b>	
MW-BW-57-180	193	12/4/2019	<b>1.1</b>	
MW-BW-57-180	193	3/4/2020	<b>1.1</b>	
MW-BW-57-180	193	6/2/2020	<b>0.96</b>	
MW-BW-57-180	193	9/2/2020	<b>0.96</b>	
MW-BW-58-180	175	12/4/2019	<0.25	U
MW-BW-58-180	160	3/4/2020	<0.25	U
MW-BW-58-180	165	6/2/2020	<0.25	U
MW-BW-58-180	170	9/2/2020	<0.25	U

**Table 11. Summary of Groundwater Monitoring Analytical Results, Upper 180-Foot Aquifer, Fourth Quarter 2019 through Third Quarter 2020**

Station	Depth (ft btoc)	Analyte:	CT (µg/L)	
		Units:	Value	Qual
		Date		
MW-OU2-30-180	194	12/4/2019	<0.25	U
MW-OU2-64-180	198	12/4/2019	<b>8.8</b>	
MW-OU2-64-180	193	3/4/2020	<b>7.4</b>	
MW-OU2-64-180	198	6/2/2020	<b>4.3</b>	
MW-OU2-64-180	193	9/3/2020	<b>6.6</b>	<b>J+</b>
MW-OU2-67-180	206	12/4/2019	0.11	J
MW-OU2-67-180	211	3/4/2020	<0.25	U
MW-OU2-67-180	206	6/1/2020	<0.25	U
MW-OU2-67-180	206	9/3/2020	<0.25	UJ
MW-OU2-70-180	230	9/23/2020	<0.25	U
<b>Max Conc (µg/L) 2020-3Q:</b>			<b>6.6</b>	<b>J+</b>
<b>Max Conc (µg/L) 2019-4Q to 2020-3Q:</b>			<b>8.8</b>	
<b>Number of Sampling Locations:</b>			13	
<b>Number of Locations above ACL:</b>			4	
<b>Percent of Locations with Detections:</b>			46%	

**Notes:**

--: sample collected from pump spigot

^ Passive diffusion bag (PDB) sample collected at different depth

Results in **bold** are detected results at or above the Aquifer Cleanup Level (ACL) as shown in Table 1

Results in **gray** are not detected (result reported as <limit of detection [LOD])

**Acronyms and Abbreviations:**

µg/L: micrograms per liter

Conc: concentration

CT: carbon tetrachloride

ft btoc: feet below top of casing

Max: maximum

Qual: qualifier

**Data Validation Qualifiers:**

J: Laboratory or validation qualifier, estimated result with a possible low (J-) or high bias (J+)

U: Validation qualifier, result not detected above the Limit of Detection (LOD) (identified by <0.25)

UJ: Validation qualifier, The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.



**Table 12. Summary of Groundwater Monitoring Analytical Results,  
Lower 180-Foot Aquifer, Fourth Quarter 2019 through Third Quarter 2020**

Station	Depth (ft btoc)	Analyte:	1,2-DCA		CT		TCE <sup>1</sup>	
		Units:	(µg/L)		(µg/L)		(µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual
<b>Lower 180-Foot Aquifer</b>								
AIRFIELD	335	12/2/2019	<0.25	U	0.40	J	<0.25	U
AIRFIELD	335	3/3/2020	<0.25	U	0.42	J	<0.25	U
AIRFIELD	335	6/3/2020	<0.25	U	0.44	J	<0.25	U
AIRFIELD	335	8/31/2020	<0.25	U	0.3	J	<0.25	U
EW-OU2-07-180	234	12/4/2019	<0.25	U	<0.25	U	2.9	
EW-OU2-07-180	246	3/5/2020	<0.25	U	<0.25	U	2.9	
EW-OU2-07-180	258	6/3/2020	<0.25	U	<0.25	U	2.8	
EW-OU2-07-180	210	9/2/2020	<0.25	U	<0.25	U	3.0	
Mini-Storage	--	9/3/2020	<0.25	U	0.36	J	<0.25	U
MP-BW-41-318	--	12/3/2019	<0.25	U	<0.25	U	0.6	
MP-BW-41-318	--	3/3/2020	<0.25	U	<0.25	U	0.55	
MP-BW-41-318	--	6/2/2020	<0.25	U	<0.25	U	0.67	
MP-BW-41-318	--	9/3/2020	<0.25	U	<0.25	U	<0.25	U
MP-BW-41-353	--	12/3/2019	<0.25	U	<0.25	U	1.2	
MP-BW-41-353	--	3/3/2020	<0.25	U	<0.25	U	1.3	
MP-BW-41-353	--	6/2/2020	<0.25	U	<0.25	U	1.3	
MP-BW-41-353	--	9/3/2020	<0.25	U	<0.25	U	<0.25	U
MP-BW-42-345	--	12/3/2019	<0.25	U	<0.25	U	0.71	
MP-BW-42-345	--	3/4/2020	<0.25	U	<0.25	U	1.3	
MP-BW-42-345	--	6/2/2020	<0.25	U	<0.25	U	1.1	
MP-BW-42-345	--	9/3/2020	<0.25	U	<0.25	U	1.3	
MP-BW-49-287	--	12/3/2019	<0.25	U	0.24	J	<0.25	U
MP-BW-49-287	--	3/4/2020	<0.25	U	1.3		<0.25	U
MP-BW-49-287	--	6/1/2020	<0.25	U	0.32	J	<0.25	U
MP-BW-49-287	--	9/2/2020	<0.25	U	0.17	J	<0.25	U
MP-BW-49-316	--	12/3/2019	<0.25	U	1.8		<0.25	U
MP-BW-49-316	--	3/4/2020	<0.25	U	2.5		<0.25	U
MP-BW-49-316	--	6/1/2020	<0.25	U	3.1		<0.25	U
MP-BW-49-316	--	9/2/2020	<0.25	U	2.2		<0.25	U
MP-BW-49-368	--	12/3/2019	<0.25	U	<0.25	U	0.64	
MP-BW-49-368	--	3/4/2020	<0.25	U	<0.25	U	1.3	
MP-BW-49-368	--	6/1/2020	<0.25	U	<0.25	U	0.53	
MP-BW-49-368	--	9/2/2020	<0.25	U	<0.25	U	0.39	J
MP-BW-49-400	--	12/3/2019	<0.25	U	<0.25	U	3.9	
MP-BW-49-400	--	3/4/2020	<0.25	U	<0.25	U	<0.25	U
MP-BW-49-400	--	6/1/2020	<0.25	U	<0.25	U	4.4	
MP-BW-49-400	--	9/2/2020	<0.25	U	<0.25	U	3.7	
MP-BW-50-339	--	12/4/2019	<0.25	U	0.59		0.17	J
MP-BW-50-339	--	3/4/2020	<0.25	U	0.48	J	0.22	J
MP-BW-50-339	--	6/2/2020	<0.25	U	1.2		<0.25	U
MP-BW-50-339	--	9/2/2020	<0.25	U	0.95		<0.25	U
MP-BW-50-384	--	12/4/2019	<0.25	U	<0.25	U	2.3	
MP-BW-50-384	--	3/4/2020	<0.25	U	<0.25	U	2.4	
MP-BW-50-384	--	6/2/2020	<0.25	U	<0.25	U	1.4	
MP-BW-50-384	--	9/2/2020	<0.25	U	<0.25	U	1.6	
MP-BW-51-405	--	12/3/2019	<0.25	U	0.12	J	1.7	
MP-BW-51-405	--	3/4/2020	<0.25	U	0.18	J	2.0	
MP-BW-51-405	--	6/1/2020	<0.25	U	0.13	J	1.7	
MP-BW-51-405	--	9/2/2020	<0.25	U	0.13	J	1.3	
MW-BW-04-180	352	9/3/2020	<0.25	U	0.45	J	0.1	J
MW-BW-59-180	360	12/4/2019	<0.25	U	<0.25	U	9.3	
MW-BW-59-180	345	3/5/2020	<0.25	U	0.11	J	9.9	
MW-BW-59-180	350	6/3/2020	<0.25	U	0.13	J	10.9	
MW-BW-59-180	355	9/2/2020	<0.25	U	0.10	J	9.8	
MW-OU2-66-180	321	12/4/2019	<0.25	U	<0.25	U	0.55	
MW-OU2-66-180	326	3/4/2020	<0.25	U	<0.25	U	0.69	
MW-OU2-66-180	331	6/2/2020	<0.25	U	<0.25	U	0.61	
MW-OU2-66-180	336	9/3/2020	<0.25	U	<0.25	U	0.40	J
MW-OU2-69-180	345	12/4/2019	<0.25	U	1.0		<0.25	U
MW-OU2-69-180	325	3/4/2020	<0.25	U	1.1		<0.25	U

**Table 12. Summary of Groundwater Monitoring Analytical Results,  
Lower 180-Foot Aquifer, Fourth Quarter 2019 through Third Quarter 2020**

Station	Depth (ft btoc)	Analyte:	1,2-DCA		CT		TCE <sup>1</sup>	
		Units:	(µg/L)		(µg/L)		(µg/L)	
		Date	Value	Qual	Value	Qual	Value	Qual
MW-OU2-69-180	330	6/1/2020	<0.25	U	<b>0.91</b>		<0.25	U
MW-OU2-69-180	335	9/3/2020	<0.25	U	<b>1.1</b>		<0.25	U
MW-OU2-72-180	362	12/4/2019	<0.25	U	<0.25	U	1.4	
MW-OU2-72-180	367	3/4/2020	<0.25	U	<0.25	U	1.6	
MW-OU2-72-180	372	6/3/2020	<0.25	U	<0.25	U	1.3	
MW-OU2-72-180	357	9/2/2020	<0.25	U	<0.25	U	1.1	
MW-OU2-78-180	330	12/4/2019	<0.25	U	<0.25	U	2.3	
MW-OU2-78-180	325	3/5/2020	<0.25	U	<0.25	U	2.3	
MW-OU2-78-180	340	6/3/2020	<0.25	U	<0.25	U	2.0	
MW-OU2-78-180	320	9/2/2020	<0.25	U	<0.25	U	2.2	
MW-OU2-82-180	355	12/5/2019	<0.25	U	<0.25	U	5.0	
MW-OU2-82-180	360	3/6/2020	<0.25	U	<0.25	U	4.2	
MW-OU2-82-180	345	6/23/2020	<0.25	U	<0.25	U	3.7	
MW-OU2-82-180	350	9/3/2020	<0.25	UJ	<0.25	UJ	4.5	J-
<b>Max Conc (µg/L) 2020-3Q:</b>			<0.25	U	<b>2.2</b>		<b>9.8</b>	
<b>Max Conc (µg/L) 2019-4Q to 2020-3Q:</b>			<0.25	U	<b>3.1</b>		<b>10.9</b>	
<b>Number of Sampling Locations:</b>			20		20		20	
<b>Number of Locations above ACL/MCL:</b>			0		4		1	
<b>Percent of Locations with Detections:</b>			0%		45%		75%	
<b>Supply Wells</b>								
FO-29	--	12/5/2019	<0.25	U	0.18	J	1.6	
FO-29	--	3/5/2020	<0.25	U	0.23	J	<1.9	U
FO-29	--	6/3/2020	<0.25	U	0.23	J	1.8	
FO-29	--	9/3/2020	<0.25	U	0.15	J	1.8	
FO-30	--	12/5/2019	<0.25	U	0.19	J	0.39	J
FO-30	--	3/5/2020	<0.25	U	0.16	J	<0.69	U
FO-30	--	6/3/2020	<0.25	U	0.24	J	0.52	
FO-30	--	9/3/2020	<0.25	U	0.21	J	0.45	J
FO-31	--	12/5/2019	<0.25	U	0.13	J	0.79	
FO-31	--	3/5/2020	<0.25	U	0.15	J	<1	U
FO-31	--	6/3/2020	<0.25	U	0.14	J	0.85	
FO-31	--	9/3/2020	<0.25	U	0.13	J	0.84	
<b>Max Conc (µg/L) 2020-3Q:</b>			<0.25	U	0.21	J	1.8	
<b>Max Conc (µg/L) 2019-4Q to 2020-3Q:</b>			<0.25	U	0.24	J	1.8	

**Notes:**

--: sample collected from pump spigot

Results in gray are not detected (result reported as <limit of detection [LOD])

Results in **bold** are detected results at or above the Aquifer Cleanup Level for CT or Maximum Contaminant Level for TCE<sup>1</sup>

<sup>1</sup> Passive diffusion bag (PDB) sample collected at different depth

\* Duplicate sample

<sup>1</sup>TCE is not a COC for the Lower 180-Foot Aquifer

**Acronyms and Abbreviations:**

µg/L: micrograms per liter

ft btoc: feet below top of casing

Qual: qualifier

**Data Validation Qualifiers:**

J: Laboratory or validation qualifier, estimated result with a possible low (J-) or high bias (J+)

U: Validation qualifier, result not detected above the Limit of Detection (LOD) (identified by <0.25)

UJ: Validation qualifier, The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

**Analyte Names:**

TCE: trichloroethene

1,2-DCA: 1,2-dichloroethane

CT: carbon tetrachloride

**Table 13. Recommended Groundwater Sample Schedule Modifications**

Well Name	Current Sampling Frequency	Recommended Sampling Frequency Change	Rationale
<b>A-Aquifer</b>			
EISB-EW-02	Annual VOCs	Stop Sampling VOCs	Meets QAPP Decision Criteria to Stop Sampling <sup>1</sup>
EW-BW-132-A	Annual VOCs	Stop Sampling VOCs	Meets QAPP Decision Criteria to Stop Sampling
EW-BW-166-A	Quarterly VOCs	Annual VOCs	Meets QAPP Decision Criteria to Reduce to Annual Sampling <sup>2</sup>
EW-BW-168-A	Annual VOCs	Stop Sampling VOCs	Meets QAPP Decision Criteria to Stop Sampling
MP-BW-46-095	Annual VOCs	Stop Sampling VOCs	Meets QAPP Decision Criteria to Stop Sampling
MW-BW-24-A	Quarterly VOCs	Annual VOCs	Meets QAPP Decision Criteria to Reduce to Annual Sampling
MW-BW-60-A	Quarterly VOCs	Annual VOCs	Meets QAPP Decision Criteria to Reduce to Annual Sampling
MW-BW-74-A	Quarterly VOCs	Annual VOCs	Meets QAPP Decision Criteria to Reduce to Annual Sampling
MW-BW-77-A	Quarterly VOCs	Annual VOCs	Meets QAPP Decision Criteria to Reduce to Annual Sampling
MW-BW-78-A	Quarterly VOCs	Annual VOCs	Meets QAPP Decision Criteria to Reduce to Annual Sampling
MW-BW-79-A	Quarterly VOCs	Annual VOCs	Meets QAPP Decision Criteria to Reduce to Annual Sampling
MW-BW-81-A	DTW Only	Quarterly VOCs	Increasing CT at MW-BW-75-A neighboring well
MW-40-01-A	DTW Only	Quarterly VOCs	To assess CT concentrations at MW-40-01-A
<b>Upper 180-Foot Aquifer</b>			
MP-BW-33-272	DTW Only	Quarterly VOCs	Increasing CT at MP-BW-46-170 neighboring well
MW-OU2-30-180	Annual VOCs	Annual VOCs	Move from OU2 to OUCTP report
<b>Lower 180-Foot Aquifer</b>			
Airfield	Quarterly VOCs	Annual VOCs	Meets QAPP Decision Criteria to Reduce to Annual Sampling
MP-BW-31-292	Annual VOCs	Stop Sampling VOCs	Meets QAPP Decision Criteria to Stop Sampling

**Notes:**

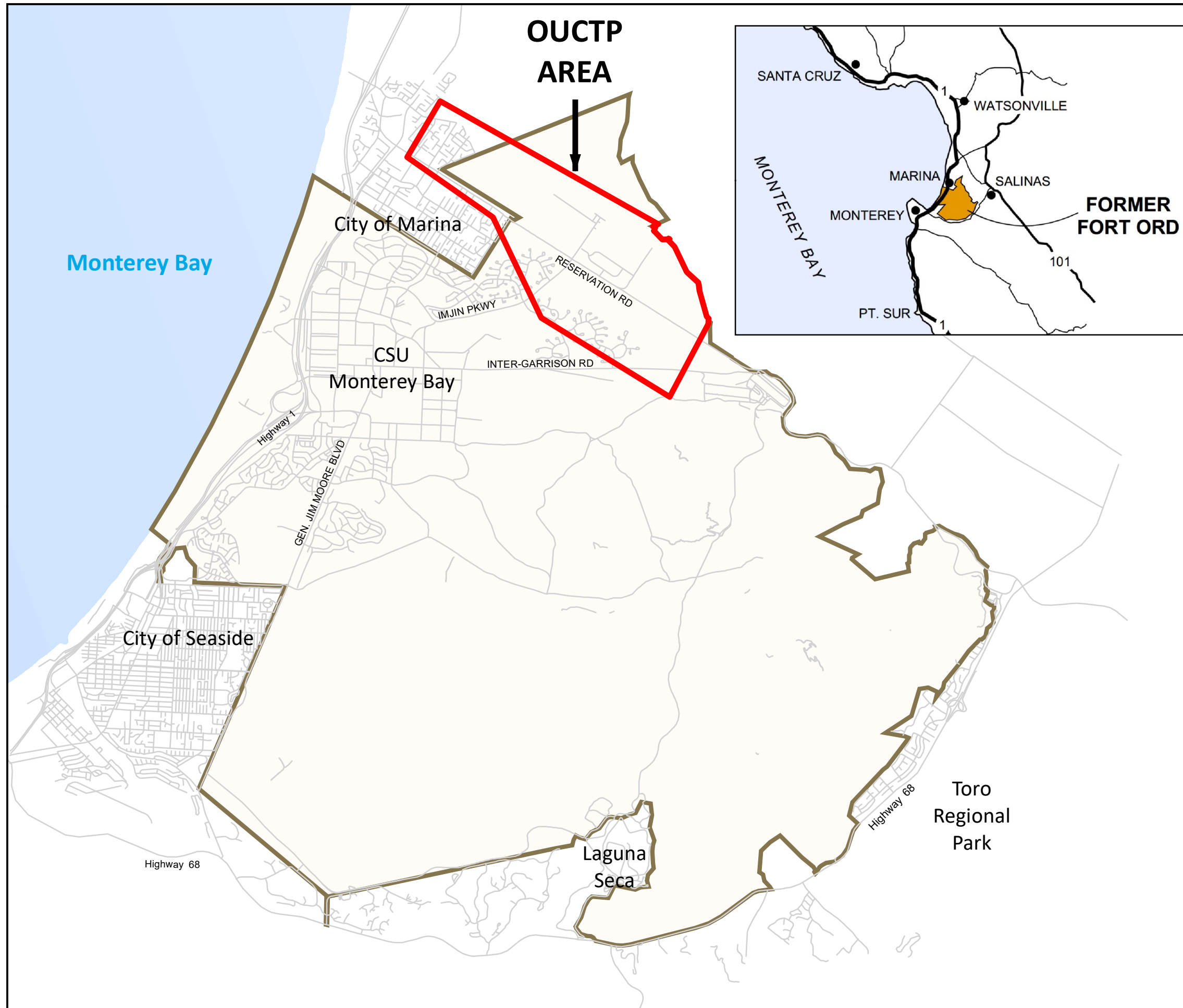
<sup>1</sup> If two consecutive annual monitoring results show concentrations of COCs below their respective LOQs, or below 10% of their respective ACLs, whichever is greater, then the well may be proposed to be removed from the sampling program.

<sup>2</sup> If four consecutive quarters of monitoring data show concentrations of COCs below their their respective LOQs, or below 10% of their ACLs, whichever is greater, then the well may be proposed for annual sampling.



**Acronyms and Abbreviations:**

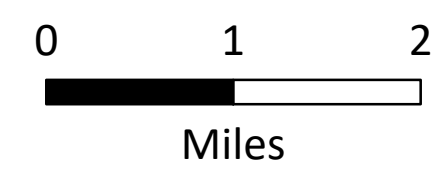
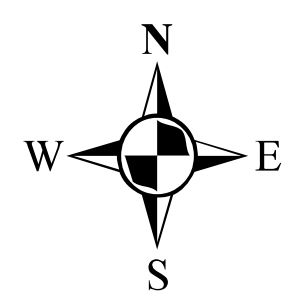
ACL: aquifer cleanup level	EISB: Enhanced In Situ Bioremediation
COC: chemical of concern	LOQ: limit of quantitation
CT: carbon tetrachloride	QAPP: Quality Assurance Project Plan
DTW: depth to water	VOC: volatile organic compound

## FIGURES

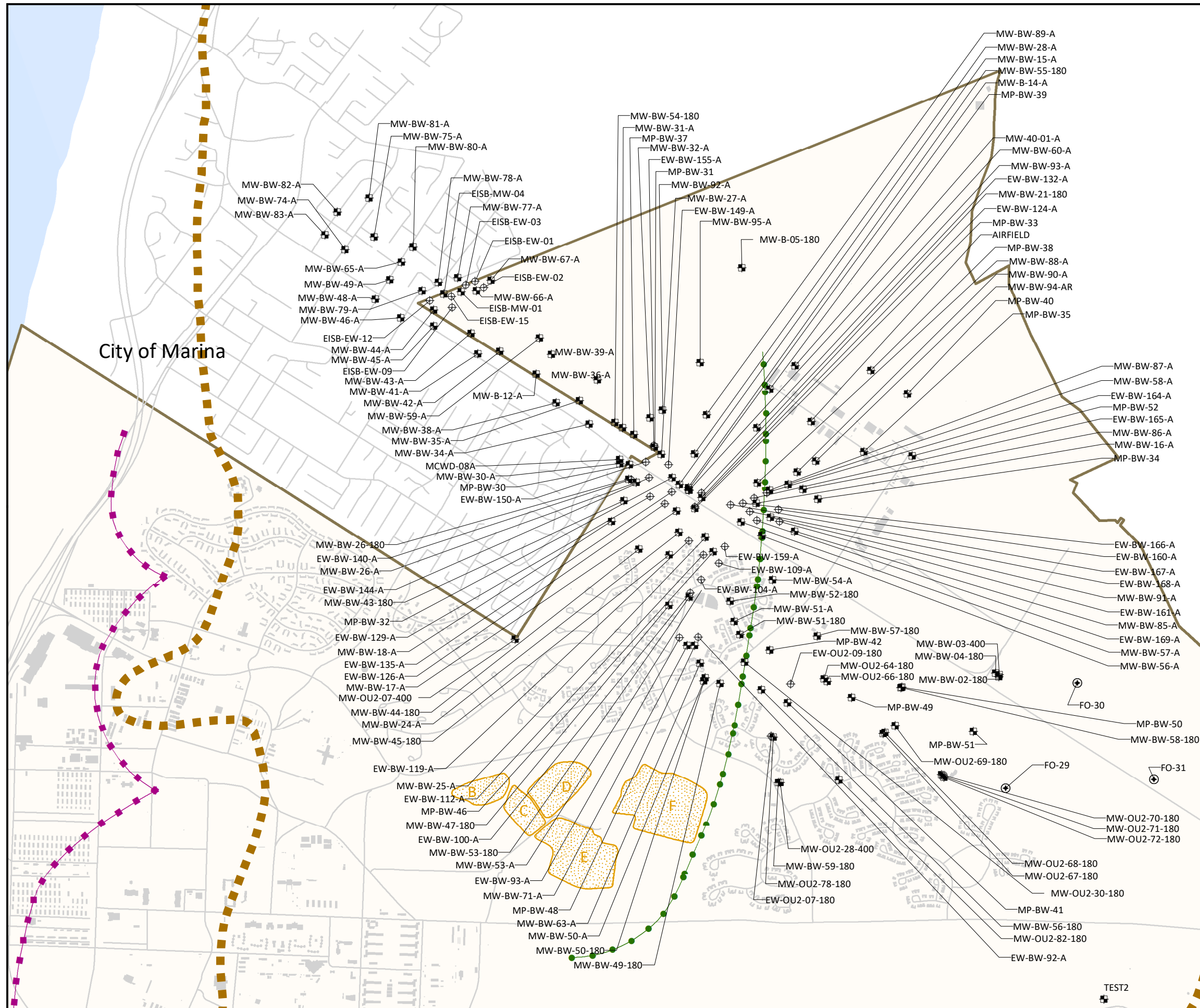


**EXPLANATION**

-  Former Fort Ord Boundary
-  Roads

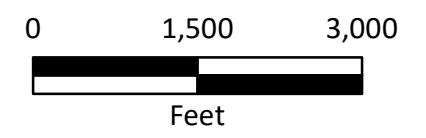
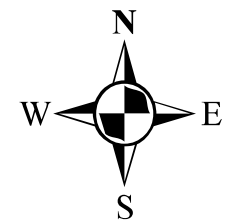


LOCATION MAP  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Fourth Quarter 2019 - Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California



### EXPLANATION

- Extraction Well
- Monitoring Well
- Water Supply Well
- Approximate Extent of Landfill Areas
- Approximate Edge of Fort Ord-Salinas Valley Aquitard
- Former Fort Ord Boundary
- Approximate Location of the A-Aquifer Groundwater Divide
- Approximate location of the Upper 180-Footer Aquifer Groundwater Divide
- Roads
- Facilities



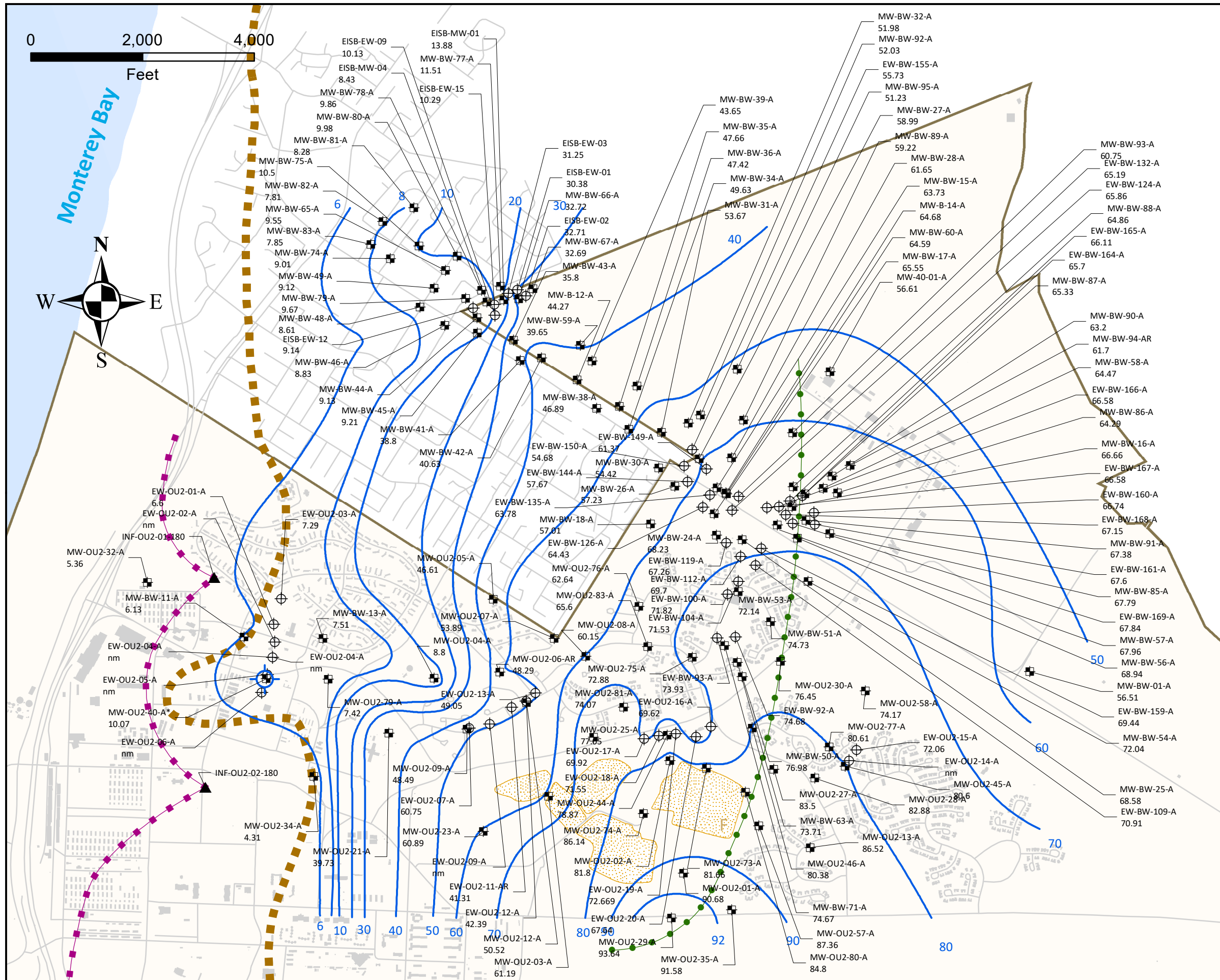
SITE VICINITY AND WELL LOCATIONS  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Fourth Quarter 2019 Through Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California



Date: 11/01/2020

Figure: 2

TEST2



### EXPLANATION

- Monitoring Well
- Extraction Well
- Infiltration Well
- Water - level not measured
- Water - level not used for contouring.
- MW-BW-45-A**  
9.21  
 Well ID and Water-level elevation (feet)
- Approximate location of the A-Aquifer Groundwater Divide
- Approximate location of the Upper 180-Foot Aquifer Groundwater Divide
- Groundwater Elevation Contour
- Location of a Groundwater Mound
- Location of a Groundwater Depression
- Approximate extent of landfill areas
- Former Fort Ord Boundary
- Roads
- Facilities

SCHEMATIC CROSS SECTION -  
FORT ORD HYDROSTRATIGRAPHY

WEST EAST

MONTEREY BAY SALINAS VALLEY

MAIN GARRISON FO SVA

180-FOOT (UPPER) 180-FOOT (UPPER)

180-FOOT (LOWER) 400-FOOT

400-FOOT 400-FOOT

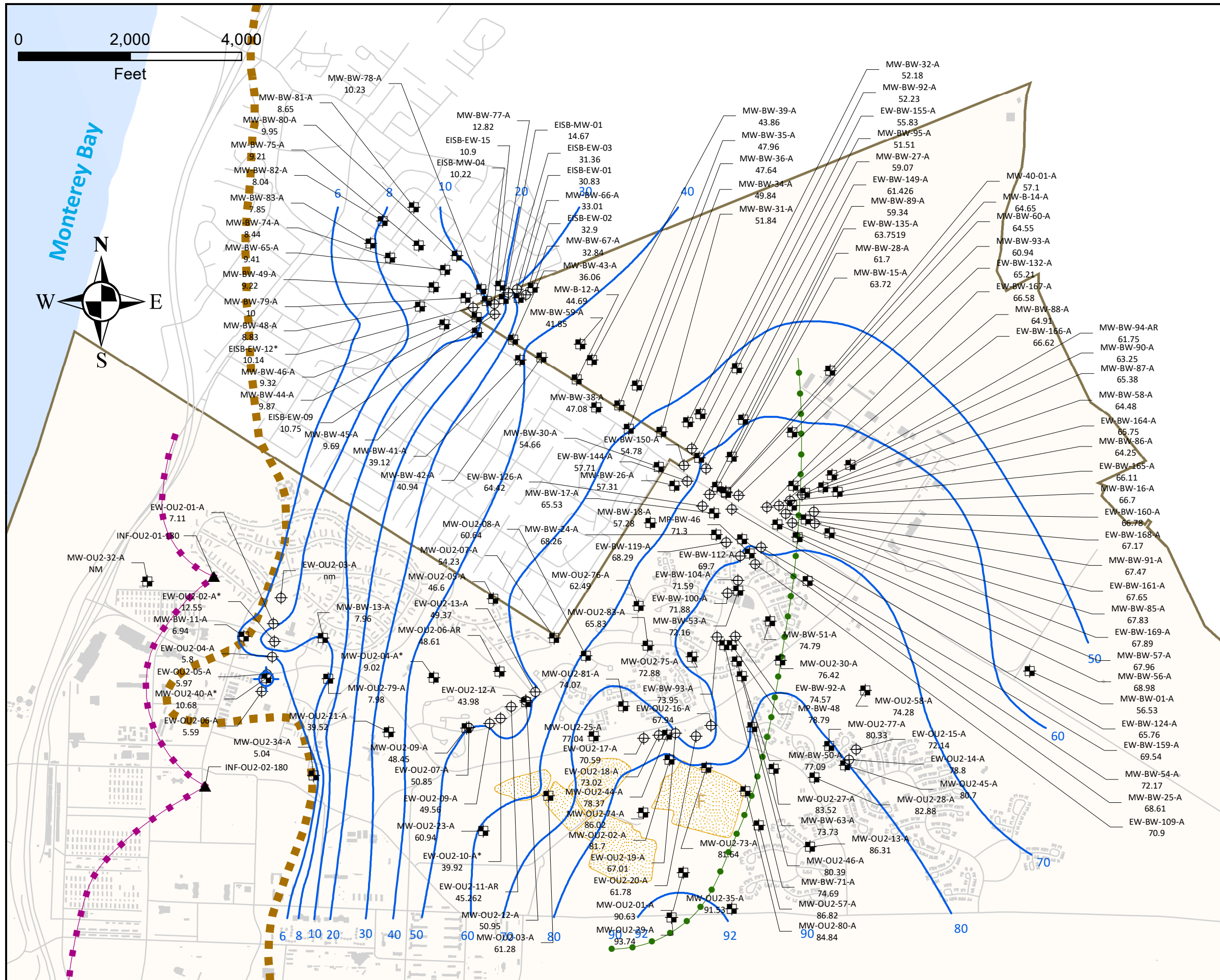
SHADED PORTIONS OF SCHEMATIC CROSS SECTION INDICATE AQUIFERS CONTOURED ON THIS MAP

**NOTES:**

- (1) Groundwater elevations were taken between December 2, 2019 and December 6, 2019.
- (2) Groundwater elevation contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
- (3) Groundwater elevations are relative to NGVD 1929.
- (4) Monitoring wells presented are a part of the basewide monitoring network.

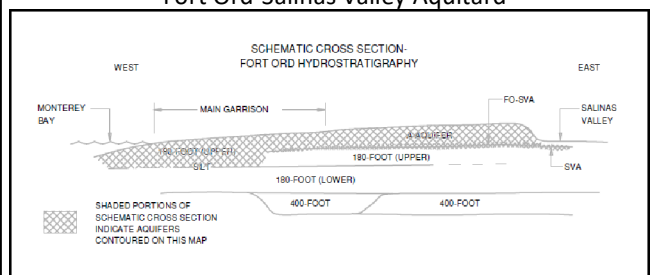
**GROUNDWATER ELEVATIONS**  
**A-AQUIFER**  
**OPERABLE UNIT CARBON TETRACHLORIDE PLUME**  
Fourth Quarter 2019  
Groundwater Monitoring Report  
Former Fort Ord, California

	Date: 11/23/2020	Figure: 3
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### EXPLANATION

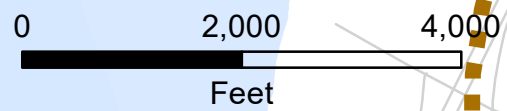
- Monitoring Well
- Extraction Well
- Infiltration Well
- nm Water - level not measured
- \* Water - level not used for contouring.
- MW-BW-45-A 9.21 Well ID and Water-level elevation (feet)
- Approximate location of the A-Aquifer Groundwater Divide
- Approximate location of the Upper 180-Foot Aquifer Groundwater Divide
- Groundwater Elevation Contour
- Location of a Groundwater Mound
- Location of a Groundwater Depression
- Approximate extent of landfill areas
- Former Fort Ord Boundary
- Roads
- Facilities
- Approximate Edge of Fort Ord-Salinas Valley Aquitard



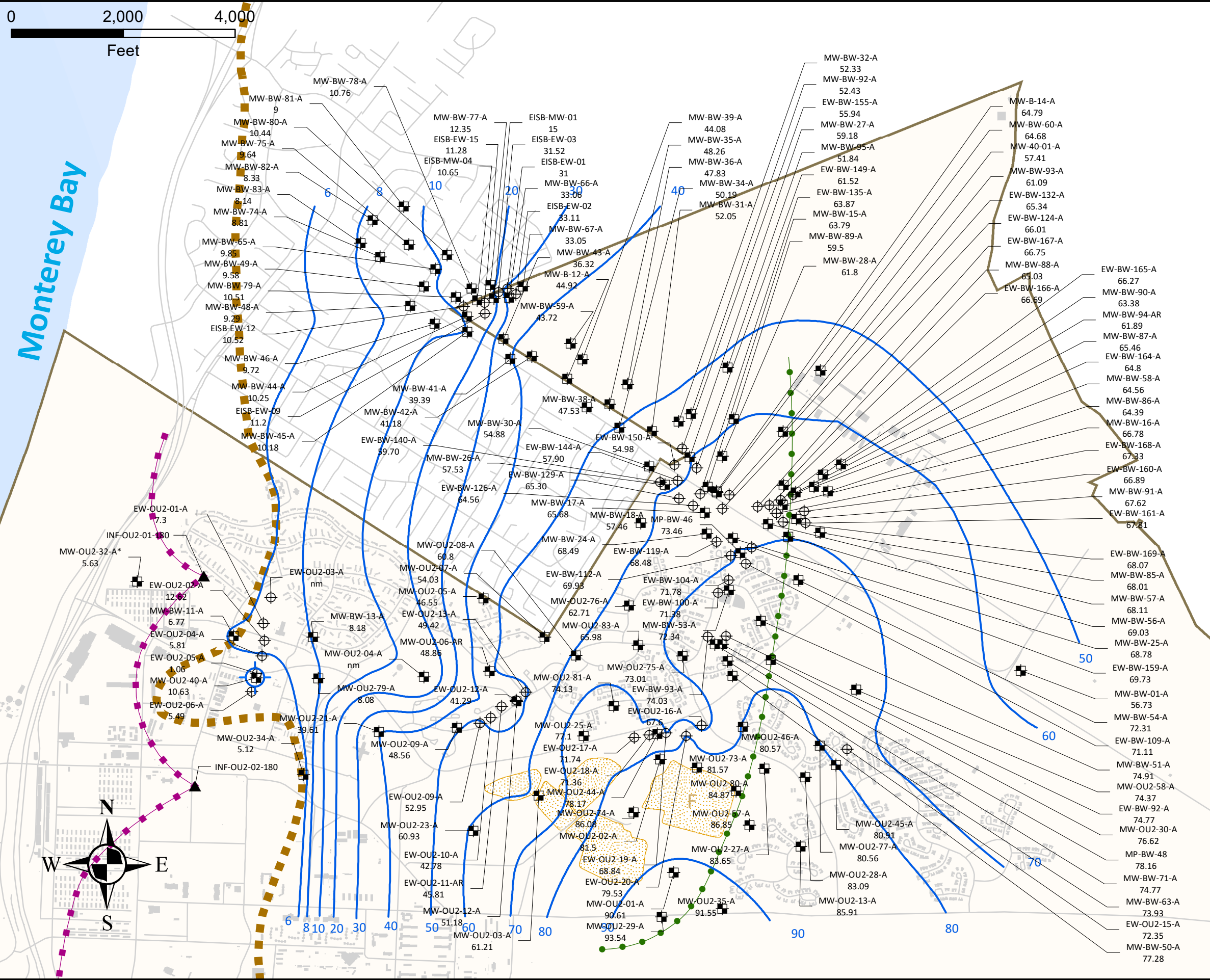
- NOTES:**
- (1) Water elevations were measured between March 2, 2020 and March 6, 2020.
  - (2) Groundwater elevation contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
  - (3) Groundwater elevations are relative to NGVD 1929.
  - (4) Monitoring wells presented are a part of the basewide monitoring network.

**GROUNDWATER ELEVATIONS**  
**A-AQUIFER**  
**OPERABLE UNIT CARBON TETRACHLORIDE PLUME**  
 First Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California



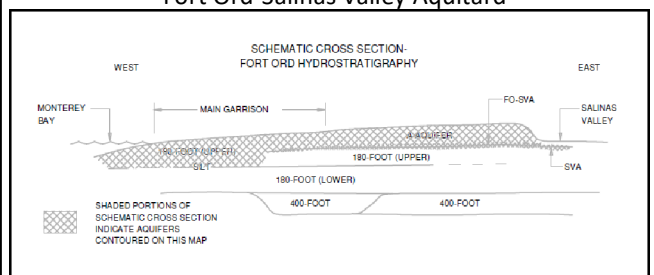


Monterey Bay



### EXPLANATION

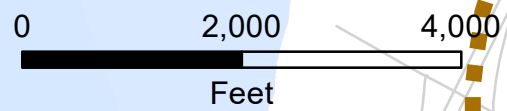
- Monitoring Well
- Extraction Well
- Infiltration Well
- nm
- \*
- MW-BW-45-A  
9.21
- Approximate location of the A-Aquifer Groundwater Divide
- Approximate location of the Upper 180-Foot Aquifer Groundwater Divide
- Groundwater Elevation Contour
- Location of a Groundwater Mound
- Location of a Groundwater Depression
- Approximate extent of landfill areas
- Former Fort Ord Boundary
- Roads
- Facilities
- Approximate Edge of Fort Ord-Salinas Valley Aquitard



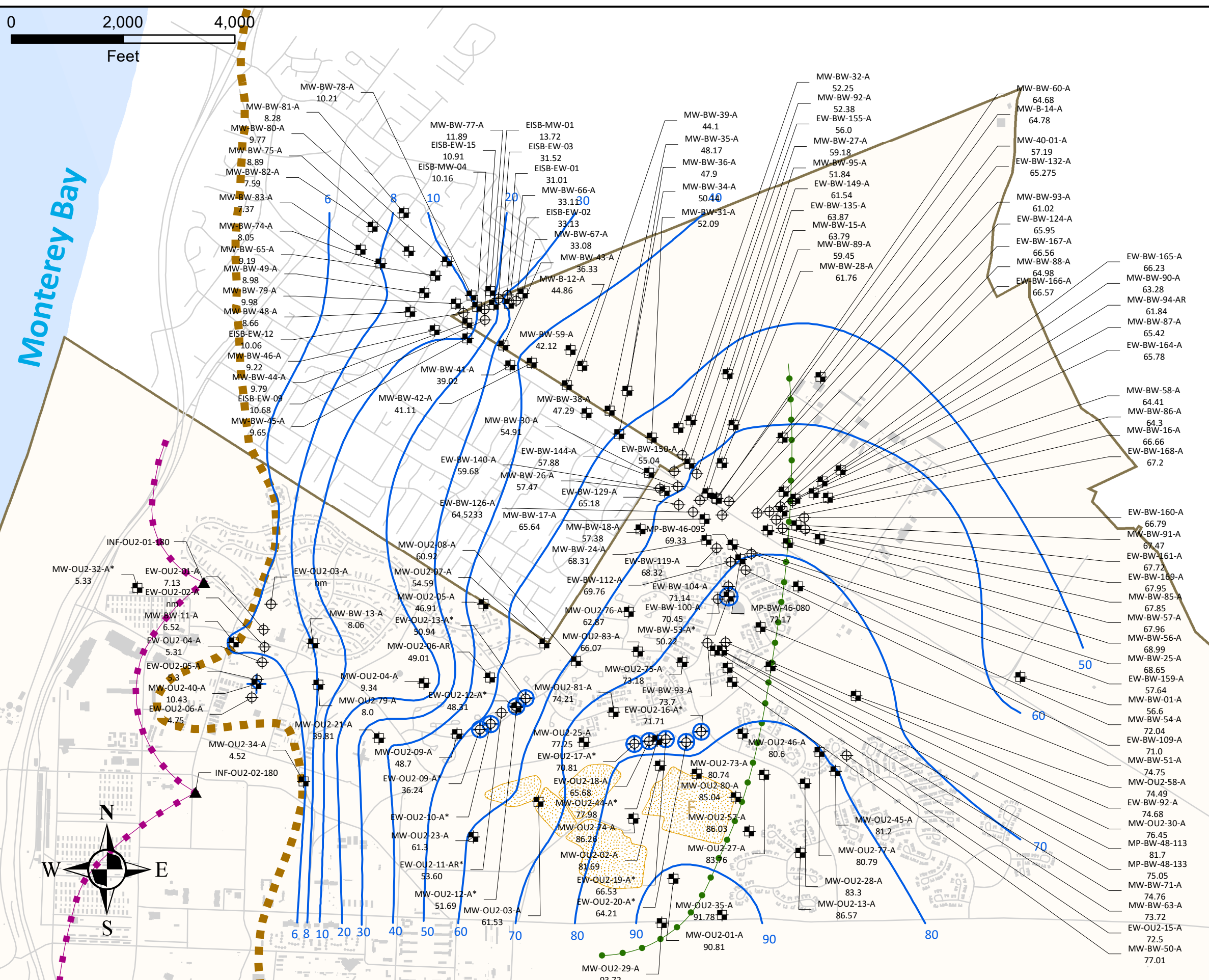
**NOTES:**

- (1) Groundwater elevations were taken between June 1, 2020 and June 9, 2020.
- (2) Groundwater elevation contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
- (3) Groundwater elevations are relative to NGVD 1929.
- (4) Monitoring wells presented are a part of the basewide monitoring network.

GROUNDWATER ELEVATIONS  
A-AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Second Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California

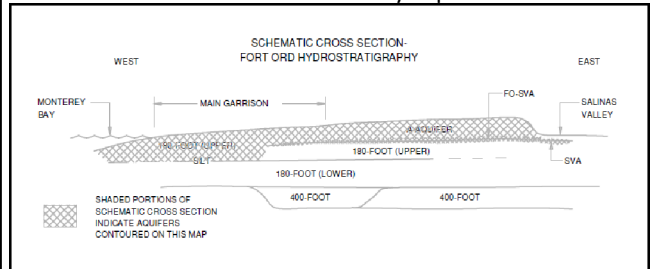


Monterey Bay



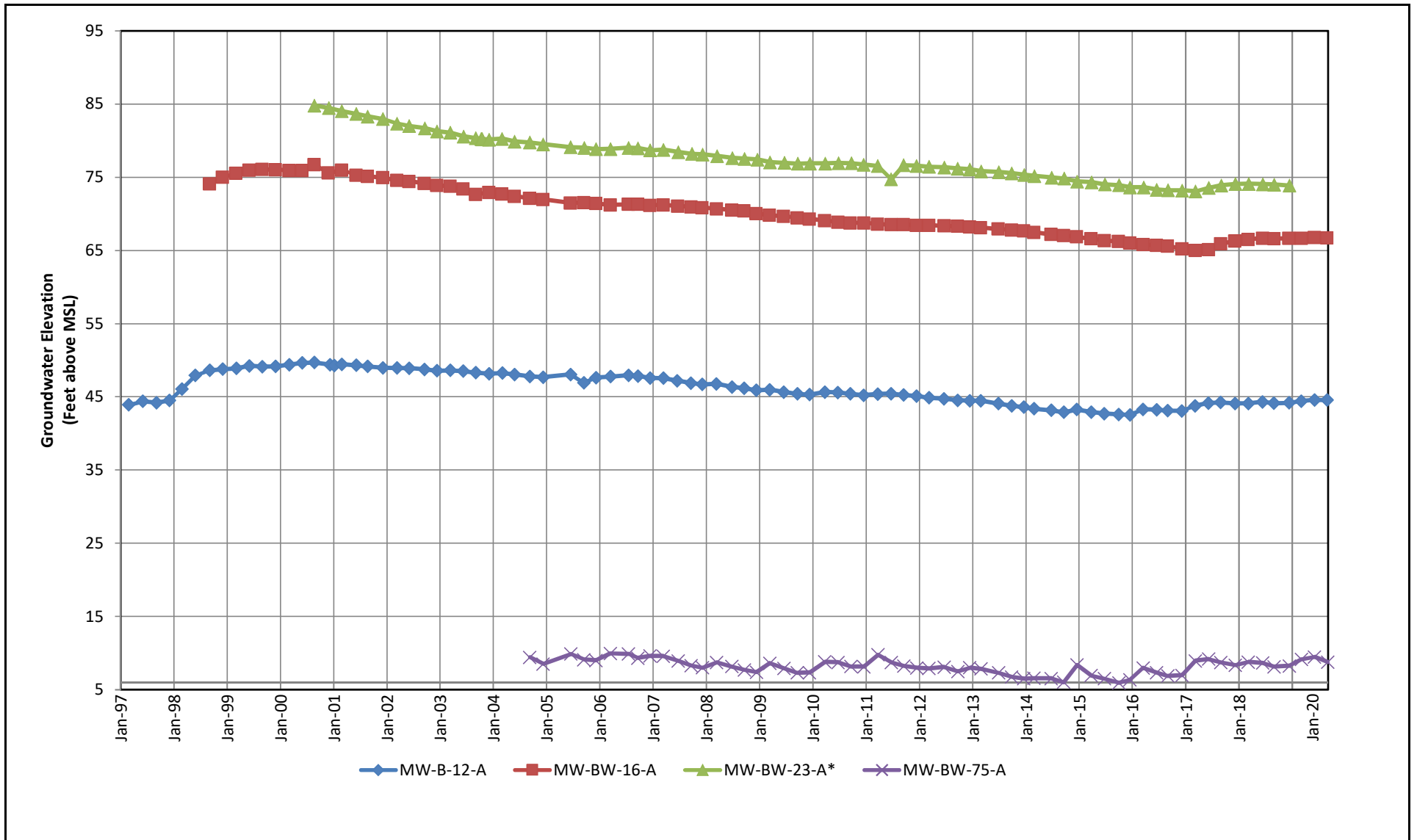
### EXPLANATION

- Monitoring Well
- Extraction Well
- Infiltration Well
- nm Water - level not measured
- \* Water - level not used for contouring.
- MW-BW-27-A 59.18 Well ID and Water-level elevation (feet)
- Approximate location of the A-Aquifer Groundwater Divide
- Approximate location of the Upper 180-Foot Aquifer Groundwater Divide
- Groundwater Elevation Contour
- Location of a Groundwater Inclination
- Location of a Groundwater Depression
- Approximate extent of landfill areas
- Former Fort Ord Boundary
- Roads
- Facilities
- Approximate Edge of Fort Ord-Salinas Valley Aquitard



- NOTES:**
- (1) Groundwater elevations were taken between August 31, 2020 and September 30, 2020.
  - (2) Groundwater elevation contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
  - (3) Groundwater elevations are relative to NGVD 1929.
  - (4) Monitoring wells presented are a part of the basewide monitoring network.

GROUNDWATER ELEVATIONS  
A-AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Third Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California



**Hydrographs of Representative A-Aquifer Wells**

Figure

**September 1997 to September 2020**

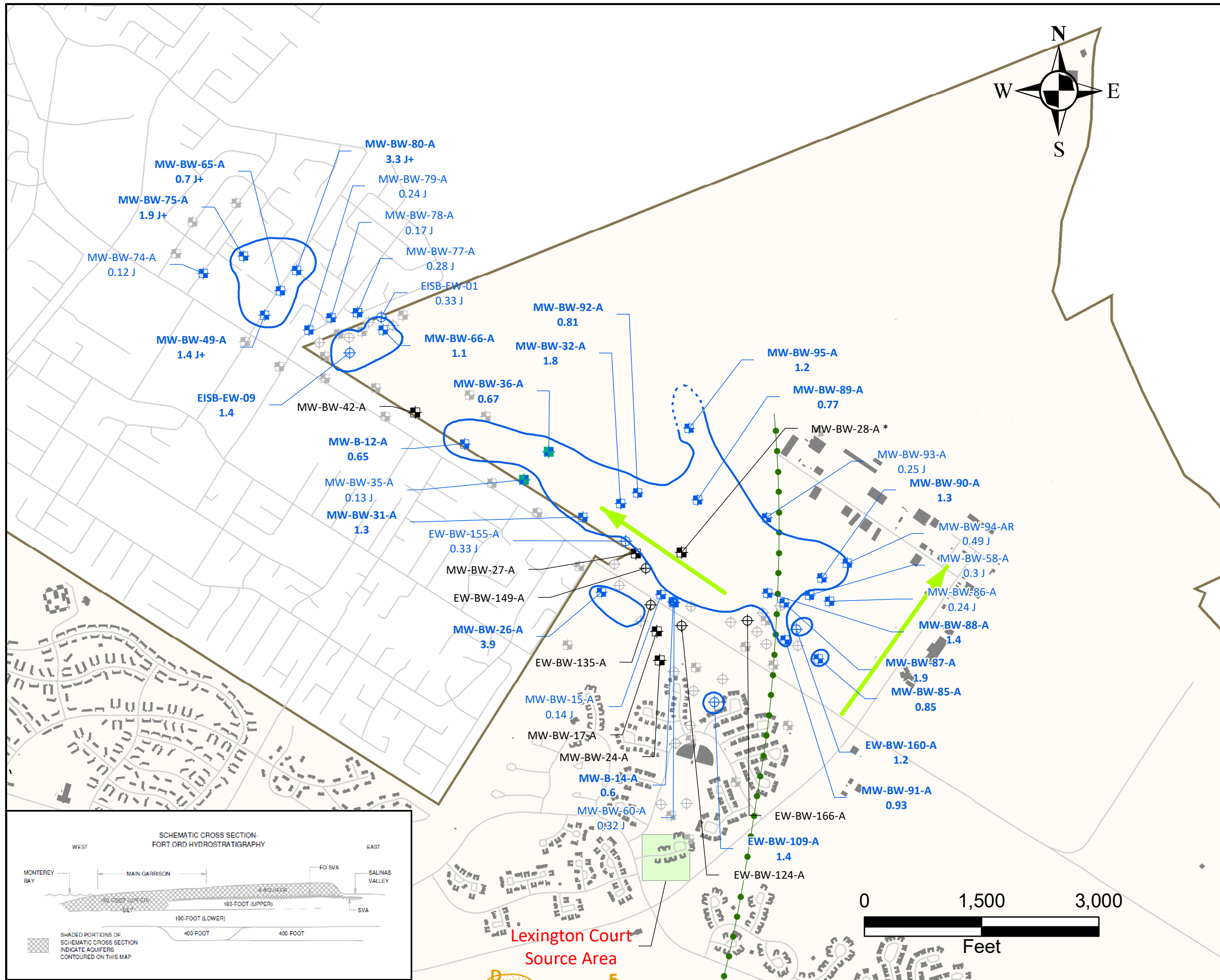
Operable Unit Carbon Tetrachloride Plume, Fourth Quarter 2019 through Third Quarter 2020

Groundwater Monitoring and Treatment System Report

Former Fort Ord, California



Note: \* MW-BW-23-A was decommissioned in January 2019



### EXPLANATION

- Extraction Well with CT Detection.
- Monitoring Well with CT Detection.
- Monitoring Well with Chloroform above ACL and CT Detection.
- Extraction Well with No CT Detection.
- Monitoring Well with No CT Detection
- Extraction Well Not Sampled
- Monitoring Well Not Sampled
- The PDB was not at the station with the highest concentration of CT.

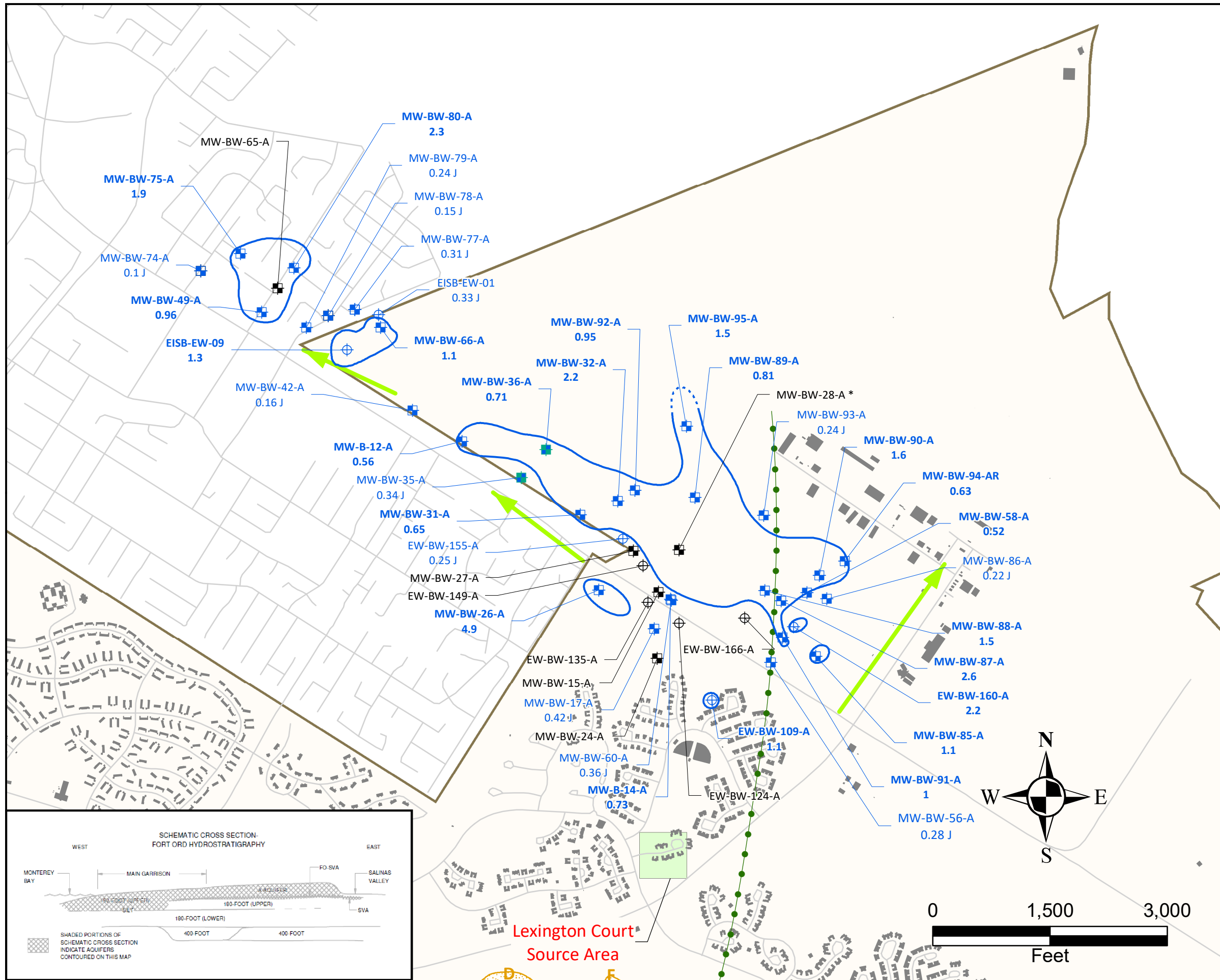
**MW-BW-88-A** Well ID - Bold When CT Exceeds the ACL.  
 1.4 CT Concentrations (µg/L) and validation/lab qualifier.

Chemical of Concern (COC) Aquifer Cleanup Level (ACL)  
 Exceedance Contour in µg/L.

- 0.5 Carbon Tetrachloride (CT) Plume Extent
- 0.5 Estimated Carbon Tetrachloride (CT) Plume Extent
- General Groundwater Flow Direction
- Approximate location of the A-Aquifer Groundwater Divide
- Former Fort Ord Boundary
- Facilities
- Approximate extent of landfill areas

**NOTES:**  
 (1) Groundwater samples were taken between December 2, 2019 and December 6, 2019.  
 (2) Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.  
 (3) Contours near wells not sampled this quarter are inferred from previous analytical data.

CARBON TETRACHLORIDE CONCENTRATIONS  
 A-AQUIFER  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Fourth Quarter 2019  
 Groundwater Monitoring Report  
 Former Fort Ord, California



### EXPLANATION

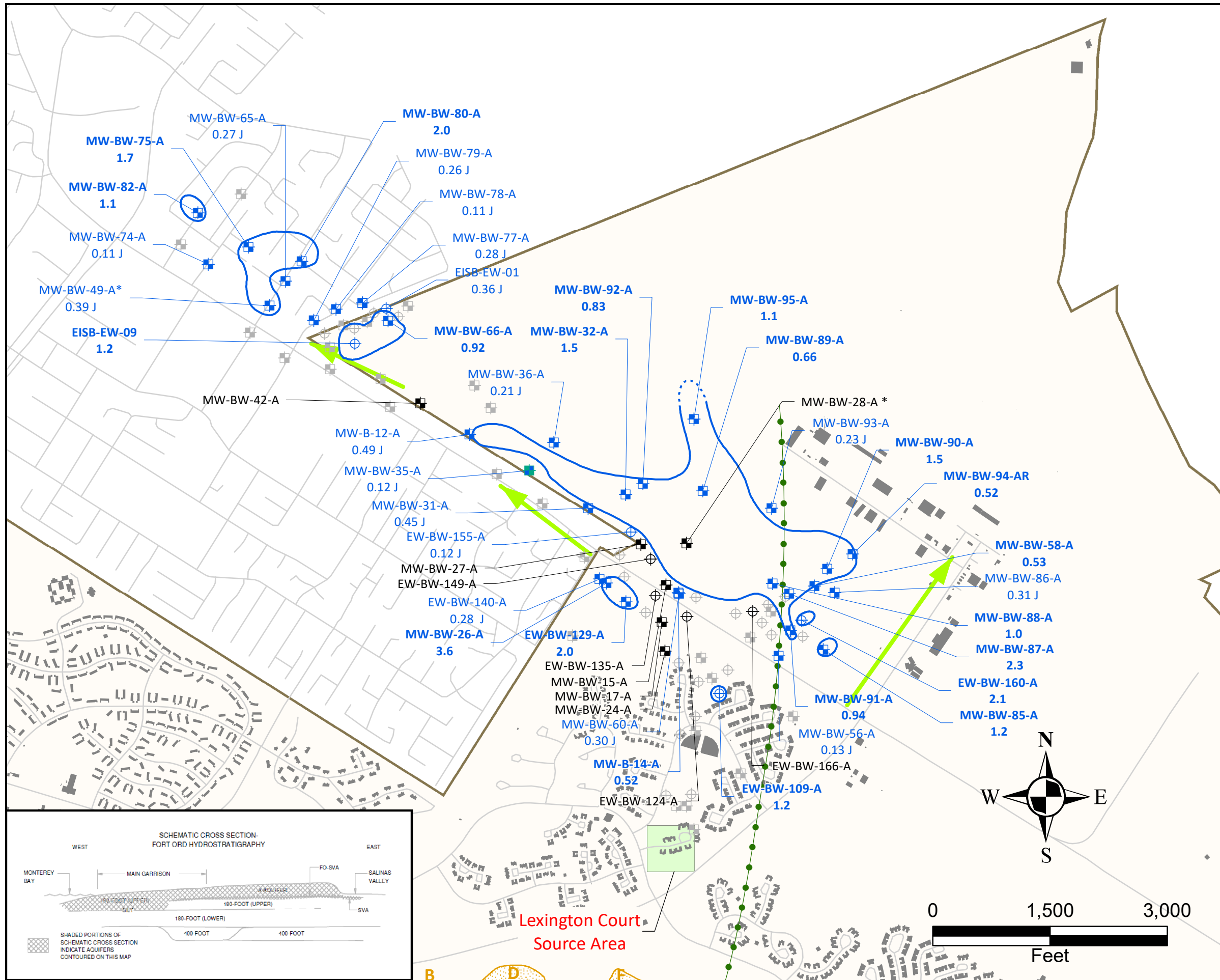
- Extraction Well with CT Detection.
  - Monitoring Well with CT Detection.
  - Monitoring Well with Chloroform above ACL and CT Detection.
  - Extraction Well with No CT Detection.
  - Monitoring Well with No CT Detection.
  - Extraction Well Not Sampled.
  - Monitoring Well Not Sampled.
  - The PDB was not at the station with the highest concentration of CT.
- MW-BW-88-A 1.5** Well ID - Bold When CT Exceeds the ACL.  
 CT Concentrations ( $\mu\text{g/L}$ ) and validation/lab qualifier.

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in  $\mu\text{g/L}$ .

- 0.5 Carbon Tetrachloride (CT) Plume Extent
- 0.5 Estimated Carbon Tetrachloride (CT) Plume Extent
- General Groundwater Flow Direction
- Approximate location of the A-Aquifer Groundwater Divide
- Former Fort Ord Boundary
- Facilities
- Approximate extent of landfill areas

- NOTES:**
- (1) Groundwater samples were collected between March 2, 2020 and March 6, 2020.
  - (2) Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.
  - (3) Contours near wells not sampled this quarter are inferred from previous analytical data.

CARBON TETRACHLORIDE CONCENTRATIONS  
 A-AQUIFER  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 First Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California



### EXPLANATION

- Extraction Well with CT Detection.
- Monitoring Well with CT Detection.
- Monitoring Well with Chloroform above ACL and CT Detection.
- Extraction Well with No CT Detection.
- Monitoring Well with No CT Detection.
- Extraction Well Not Sampled.
- Monitoring Well Not Sampled.
- \* The PDB was not at the station with the highest concentration of CT.

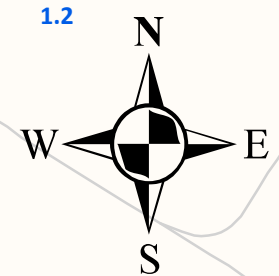
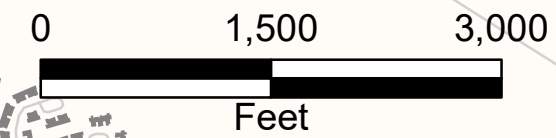
**MW-BW-88-A** Well ID - Bold When CT Exceeds the ACL.  
**1.0** CT Concentrations (µg/L) and validation/lab qualifier.

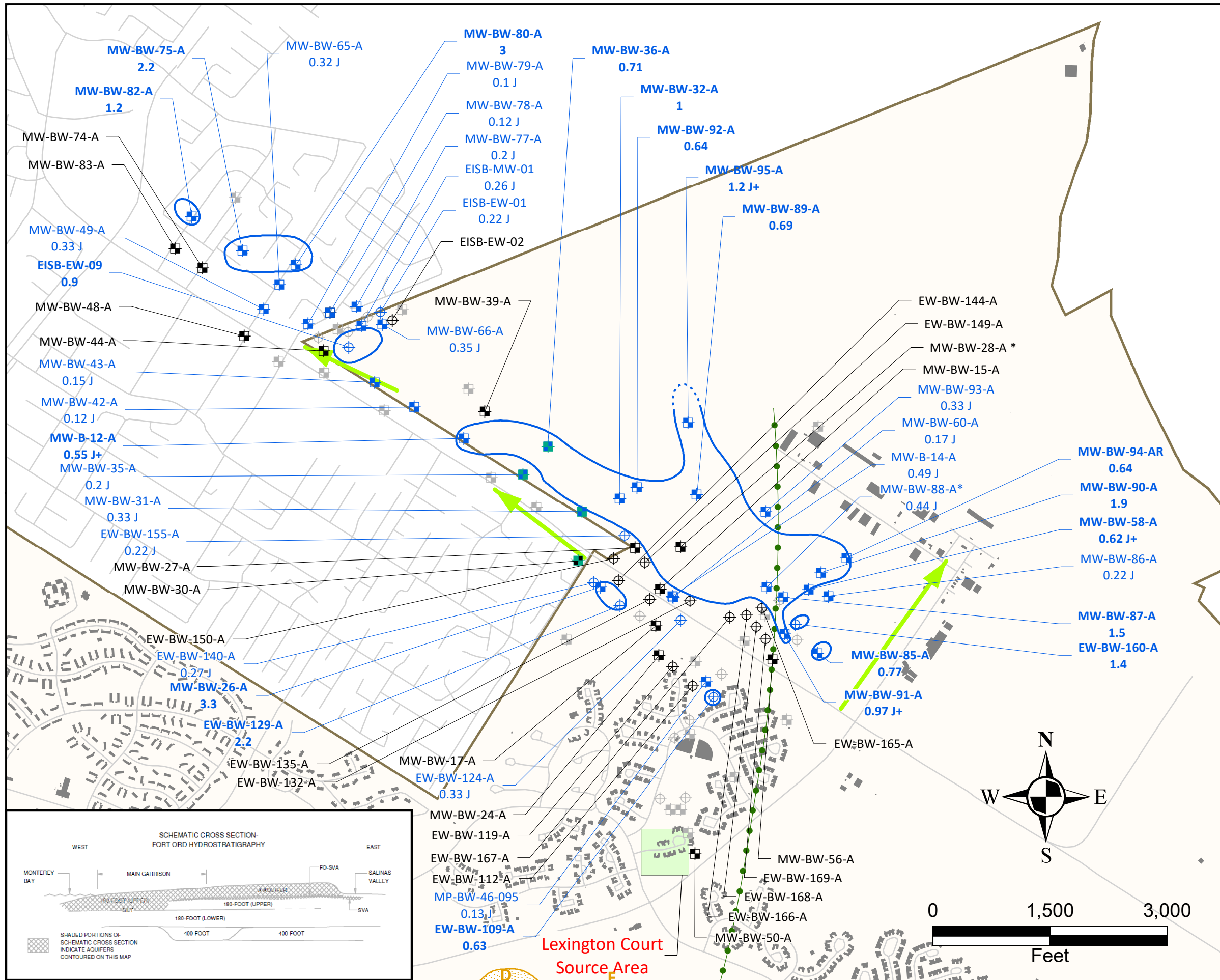
Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 Carbon Tetrachloride (CT) Plume Extent
- 0.5 Estimated Carbon Tetrachloride (CT) Plume Extent
- General Groundwater Flow Direction
- Approximate location of the A-Aquifer Groundwater Divide
- Former Fort Ord Boundary
- Facilities
- Approximate extent of landfill areas

- NOTES:**
- (1) Groundwater samples were collected between June 1, 2020 and June 9, 2020.
  - (2) Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.
  - (3) Contours near wells not sampled this quarter are inferred from previous analytical data.

CT CONCENTRATIONS  
 A-AQUIFER  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Second Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California





### EXPLANATION

- Extraction Well with CT Detection.
- Monitoring Well with CT Detection.
- Monitoring Well with Chloroform above ACL and CT Detection.
- Monitoring Well with Chloroform above ACL and No CT Detection
- Extraction Well with No CT Detection.
- Monitoring Well with No CT Detection
- Extraction Well Not Sampled
- Monitoring Well Not Sampled
- The PDB was not at the station with the highest concentration of CT.

**MW-BW-90-A 1.9** Well ID - Bold When CT Exceeds the ACL. CT Concentrations (µg/L) and validation/lab qualifier.

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 Carbon Tetrachloride (CT) Plume Extent
- 0.5 Estimated Carbon Tetrachloride (CT) Plume Extent
- General Groundwater Flow Direction
- Approximate location of the A-Aquifer Groundwater Divide
- Former Fort Ord Boundary
- Facilities
- Approximate extent of landfill areas

**NOTES:**

- Groundwater samples were collected between August 31, 2020 and September 23, 2020.
- Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.
- Contours near wells not sampled this quarter are inferred from previous analytical data.

**CT CONCENTRATIONS  
A-AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Third Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California**

Date: 11/2/2020 Figure: 11

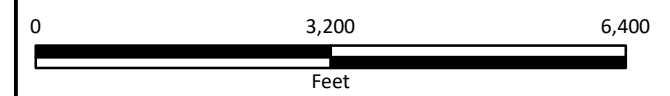
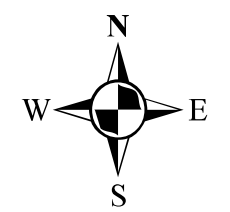
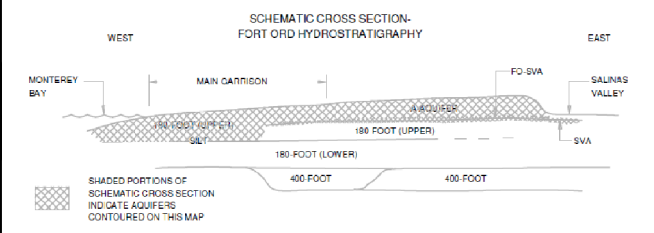
## EXPLANATION

Chemical of Concern (COC) Aquifer Cleanup Level (ACL)

- 0.5 — Carbon Tetrachloride (CT) Plume Extent
- 0.5 - - - - Estimated Carbon Tetrachloride (CT) Plume Extent
- ■ ■ ■ Approximate Edge of Fort Ord - Salinas Valley Aquitard
- Roads
- Facilities
- ⊕ Former Fort Ord Boundary

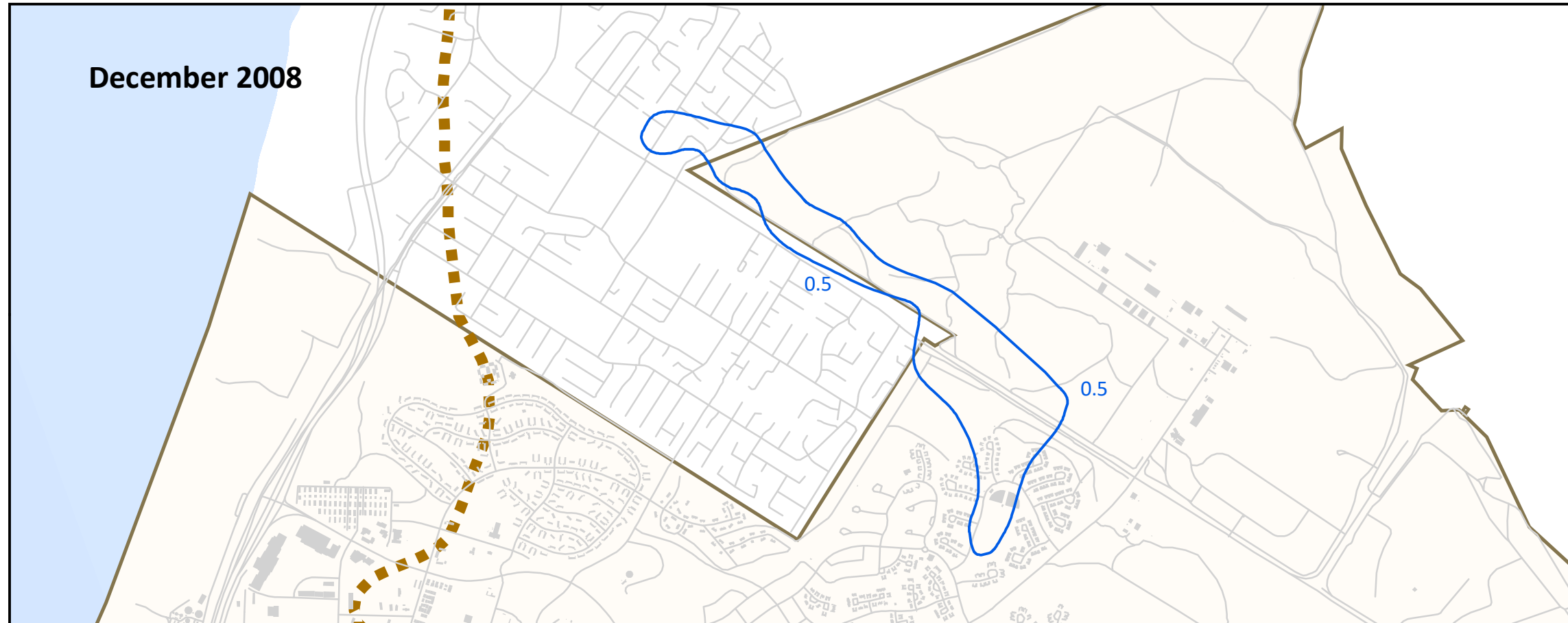
### NOTES:

(1) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.

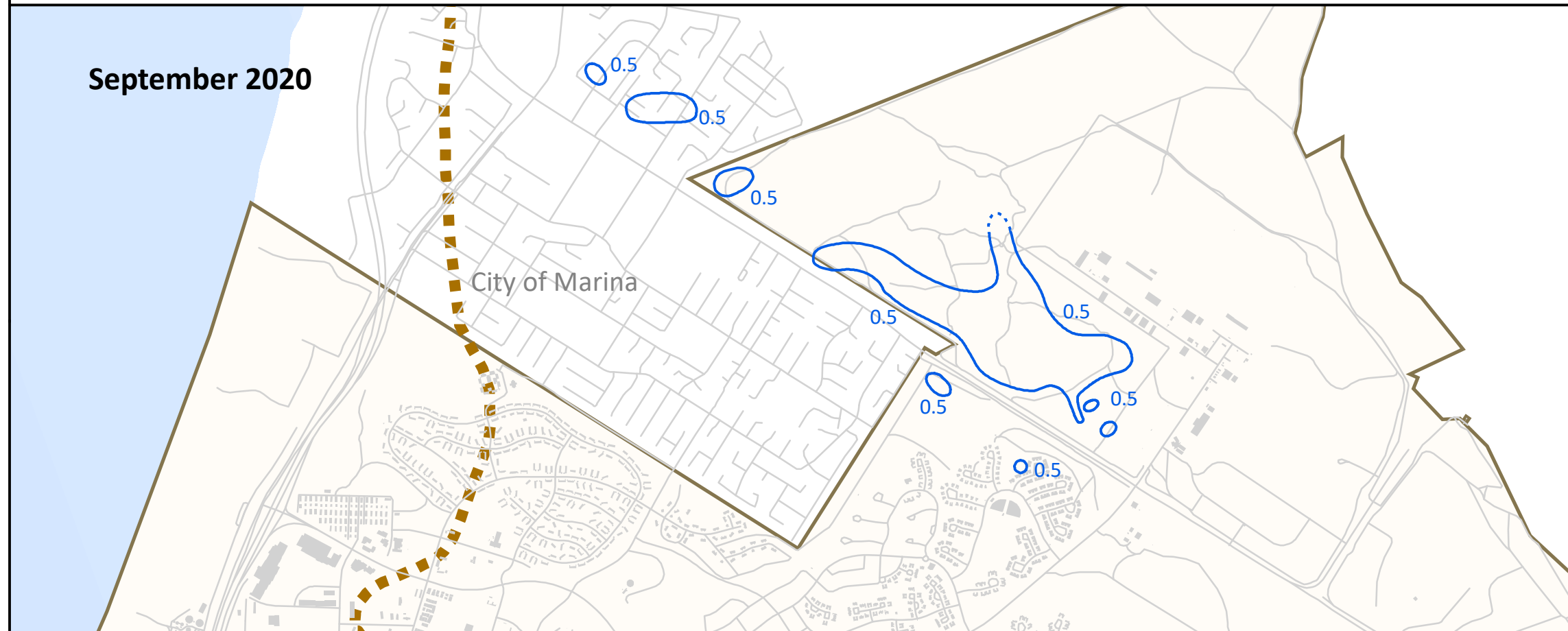


CURRENT AND HISTORICAL CT ACL EXCEEDANCE CONTOURS  
A-AQUIFER  
DECEMBER 2008 AND SEPTEMBER 2020  
Operable Unit Carbon Tetrachloride Plume  
Fourth Quarter 2019 - Third Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California

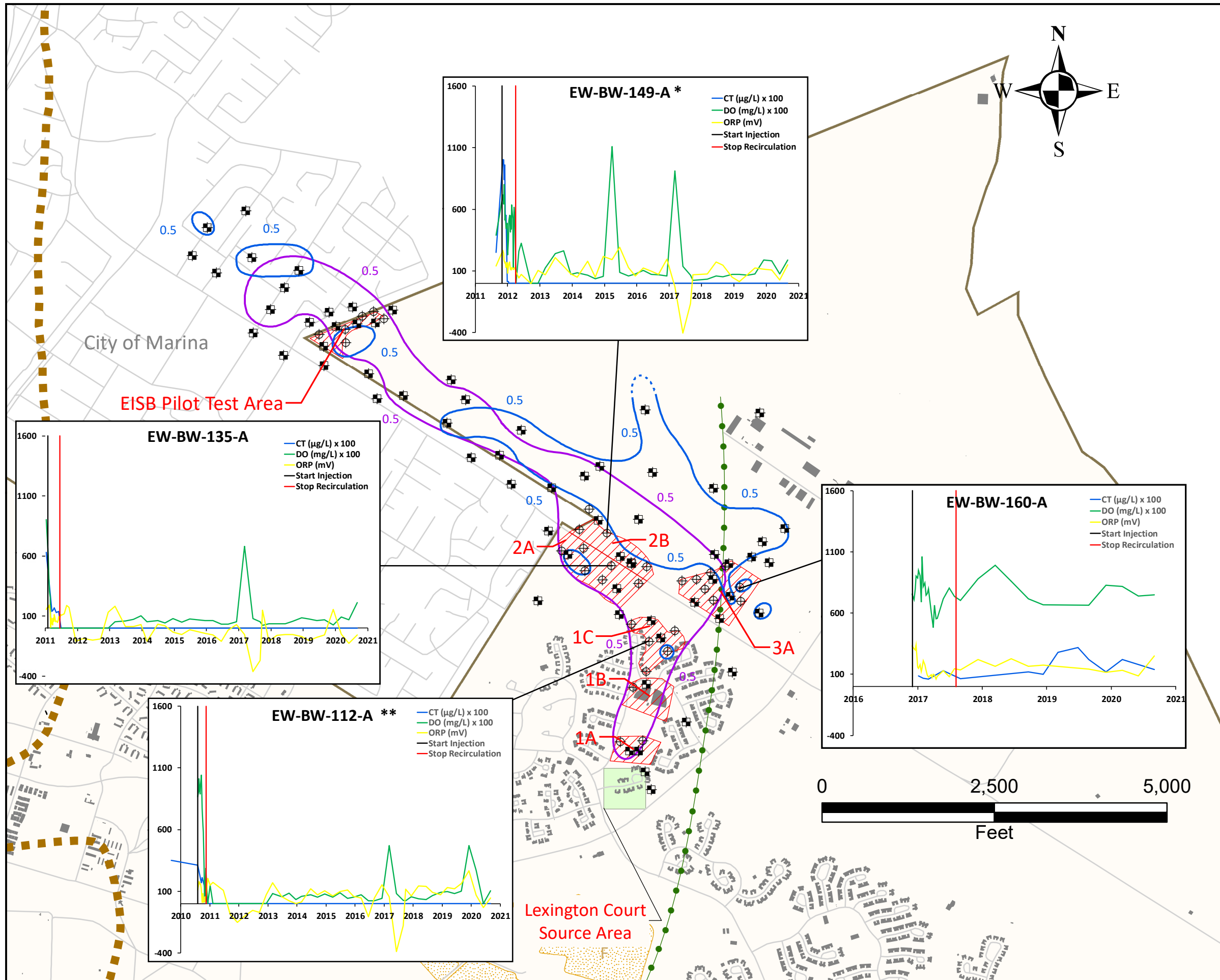
December 2008



September 2020





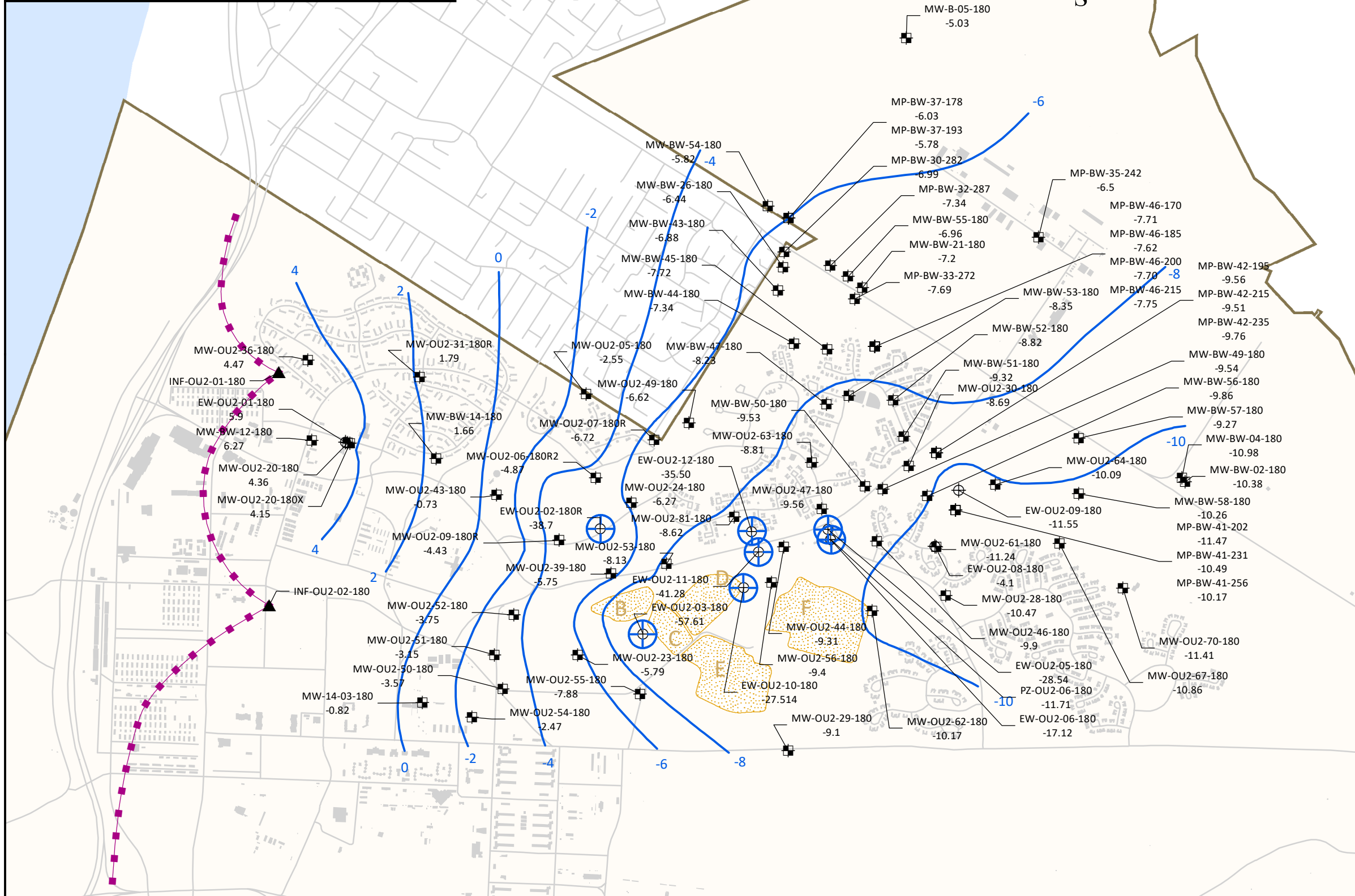
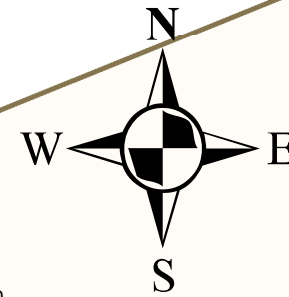
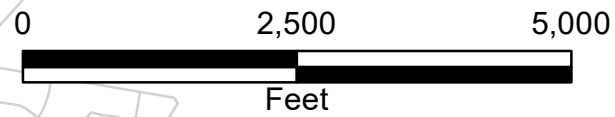
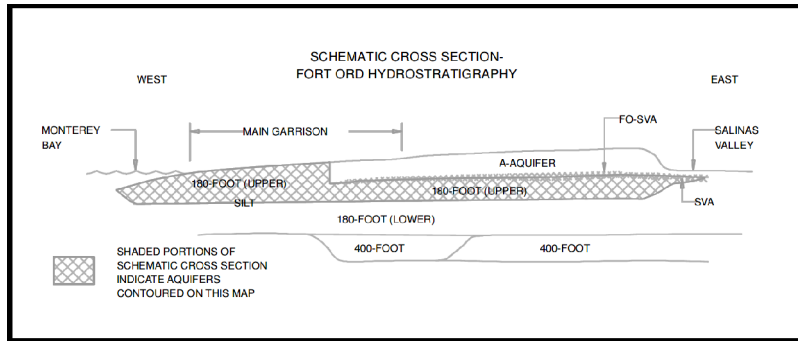


**EXPLANATION**

- ⊕ Monitoring Well
- ⊕ Extraction Well
- Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in  $\mu\text{g/L}$ .
- 0.5 — Carbon Tetrachloride (CT) September 2020
- 0.5 - - - - - Estimated Carbon Tetrachloride (CT) September 2020
- 0.5 — Carbon Tetrachloride (CT) June 2009
- ▨ Enhanced In-Situ Bioremediation (EISB) Deployment Areas
- DO Dissolved Oxygen
- ORP Oxygen Reduction Potential
- mg/L Milligrams per Liter
- mv Millivolts
- \* Anomalous DO reading during 2nd Quarter 2015, due to meter malfunction.
- \*\* CT Value at EW-BW-112-A is only taken on an annual basis.
- Approximate location of the A-Aquifer groundwater divide
- Approximate Edge of Fort Ord - Salinas Valley Aquitard
- ▨ Approximate extent of landfill areas
- Facilities
- ⊕ Former Fort Ord Boundary

- NOTES:**
- (1) Groundwater samples were collected between August 31, 2020 and September 30, 2020.
  - (2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
  - (3) Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.
  - (4) Contours near wells not sampled this quarter are inferred from previous analytical data.
  - (5) DO and CT data were normalized (x100) for plotting purposes.

RELATIVE CHANGE IN EISB PARAMETERS OVER TIME AT REPRESENTATIVE DEPLOYMENT AREA WELLS  
 A-AQUIFER  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California



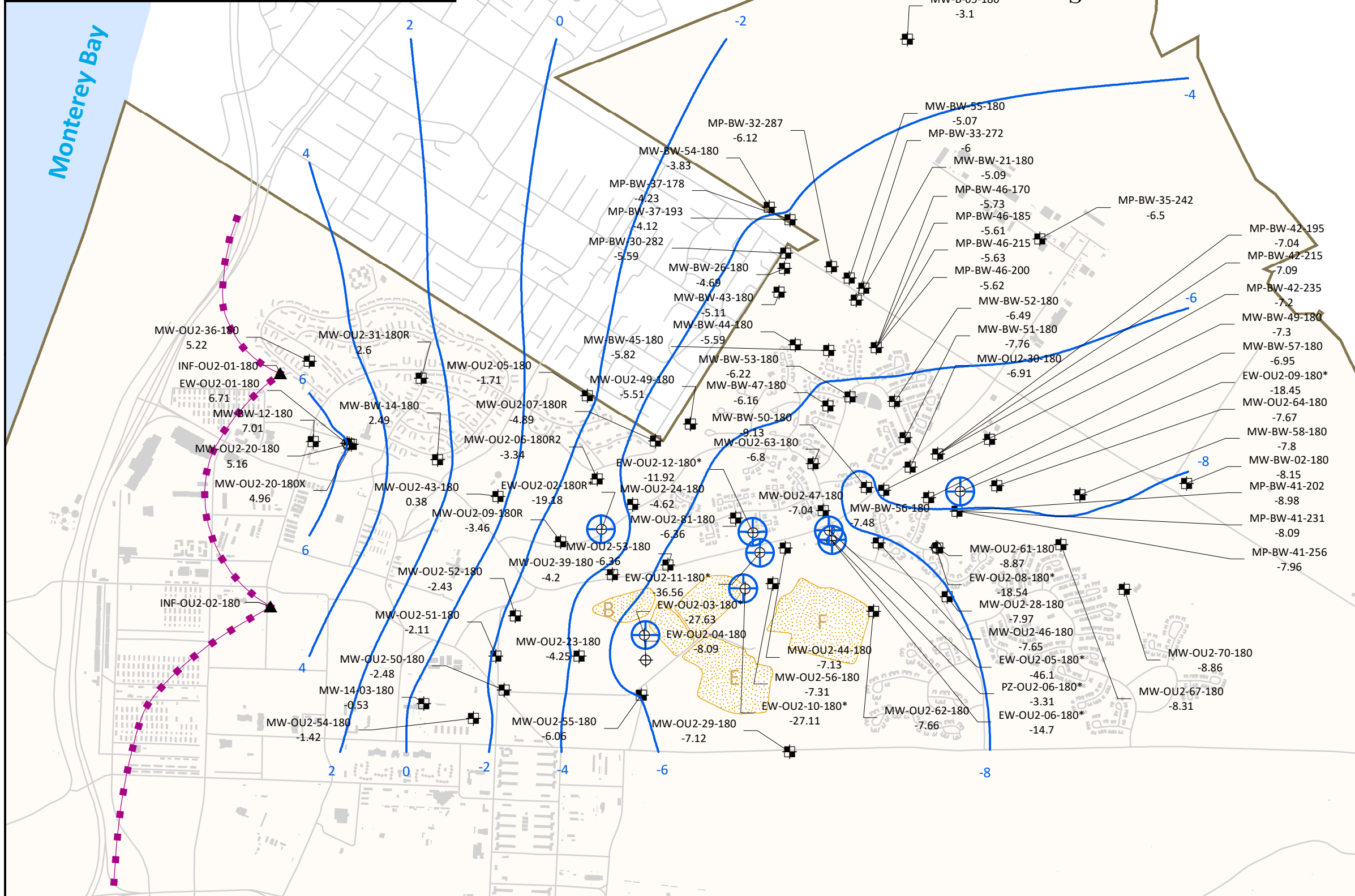
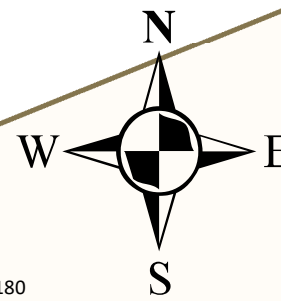
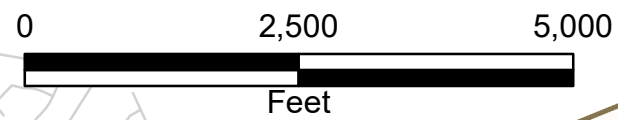
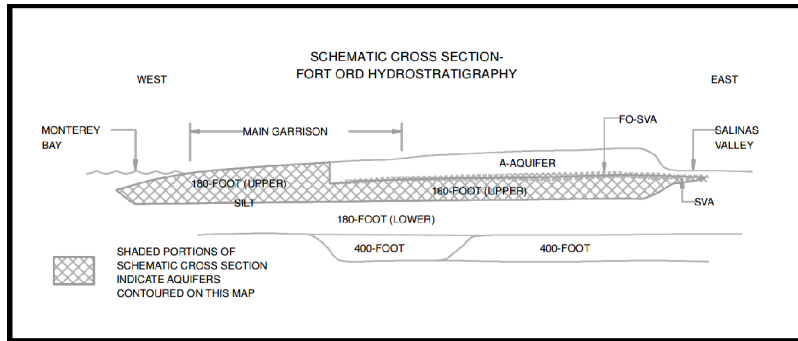
**Explanation**

- Extraction Well
- Monitoring Well
- Piezometer
- Infiltration Well
- MW-B-05-180 -5.03 Station ID and Groundwater Elevation (feet)
- NM Water level not measured this quarter
- \* Water level not used for contouring
- Groundwater Elevation Contour
- Location of a groundwater depression
- Approximate location of the Upper 180-Foot Aquifer Groundwater Divide
- Roads
- Facilities
- Approximate extent of landfill areas
- Approximate Edge of Fort Ord - Salinas Valley Aquitard
- Former Fort Ord Boundary

**Notes:**

- (1) Water levels were measured between December 2, 2019 and December 6, 2019.
- (2) Groundwater elevation contours are based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
- (3) Groundwater elevations are relative to NGVD 1929.
- (4) Monitoring wells presented are a part of the basewide monitoring network.

GROUNDWATER ELEVATIONS  
UPPER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Fourth Quarter 2019  
Groundwater Monitoring Report  
Former Fort Ord, California



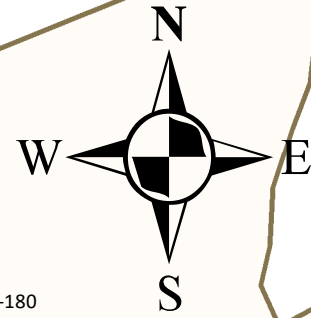
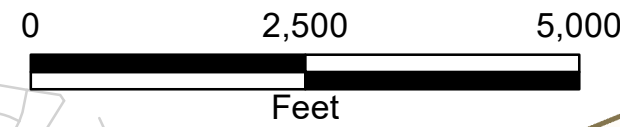
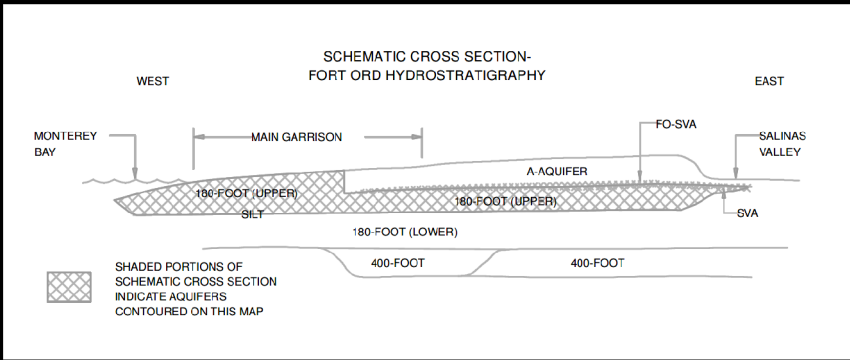
**Explanation**

- Extraction Well
- Monitoring Well
- Piezometer
- Infiltration Well
- MW-B-05-180 -3.1 Station ID and Groundwater Elevation (feet)
- NM Water level not measured this quarter
- \* Water level not used for contouring
- Groundwater Elevation Contour
- Location of a groundwater depression
- Approximate location of the Upper 180-Foot Aquifer Groundwater Divide
- Roads
- Facilities
- Approximate extent of landfill areas
- Former Fort Ord Boundary

**Notes:**

- (1) Water levels were measured between March 2, 2020 and March 6, 2020.
- (2) Groundwater elevation contours are based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
- (3) Groundwater elevations are relative to NGVD 1929.
- (4) Monitoring wells presented are a part of the basewide monitoring network.

GROUNDWATER ELEVATIONS  
UPPER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
First Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California



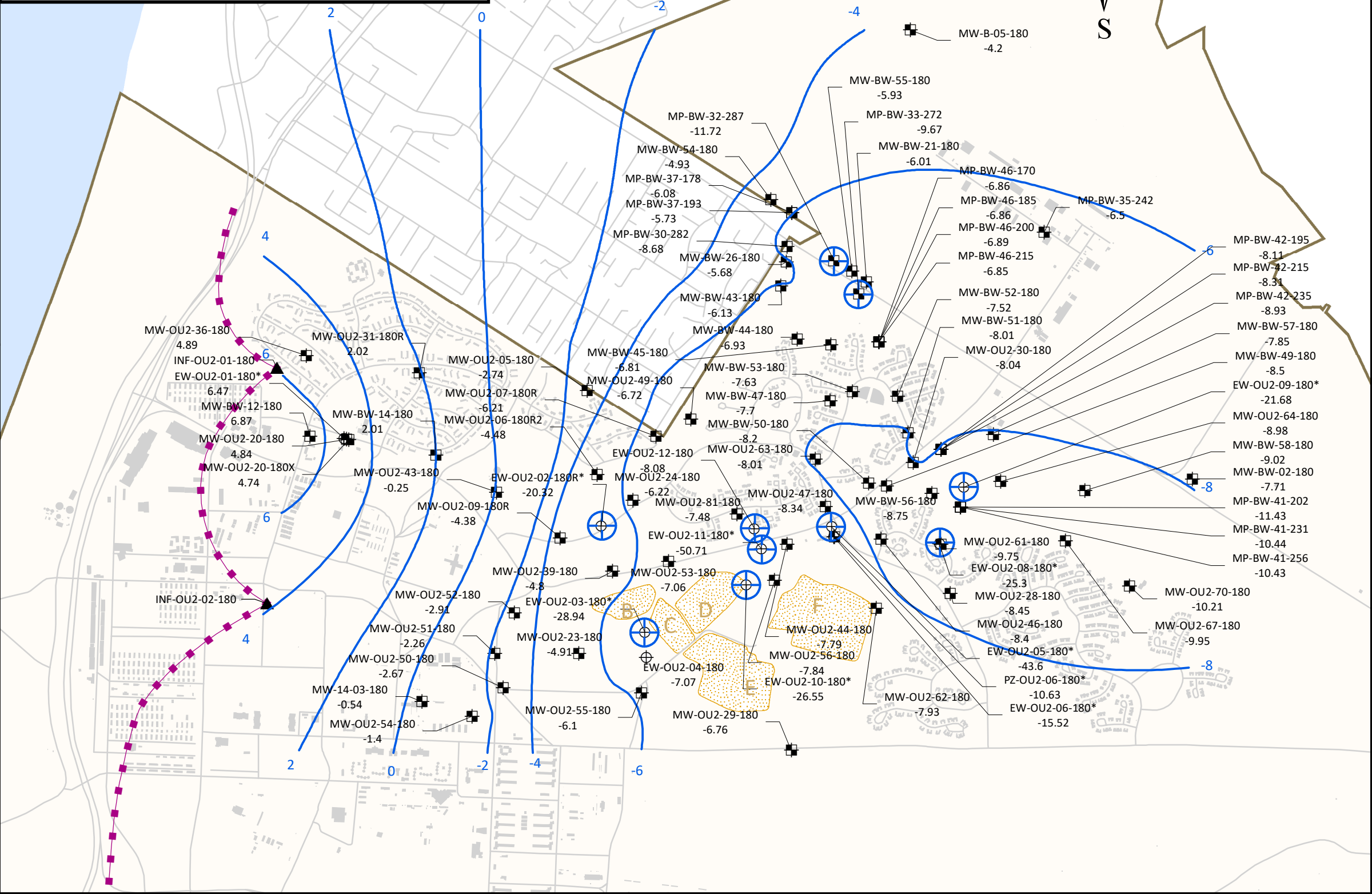
- ### Explanation
- Extraction Well
  - Monitoring Well
  - Piezometer
  - Infiltration Well

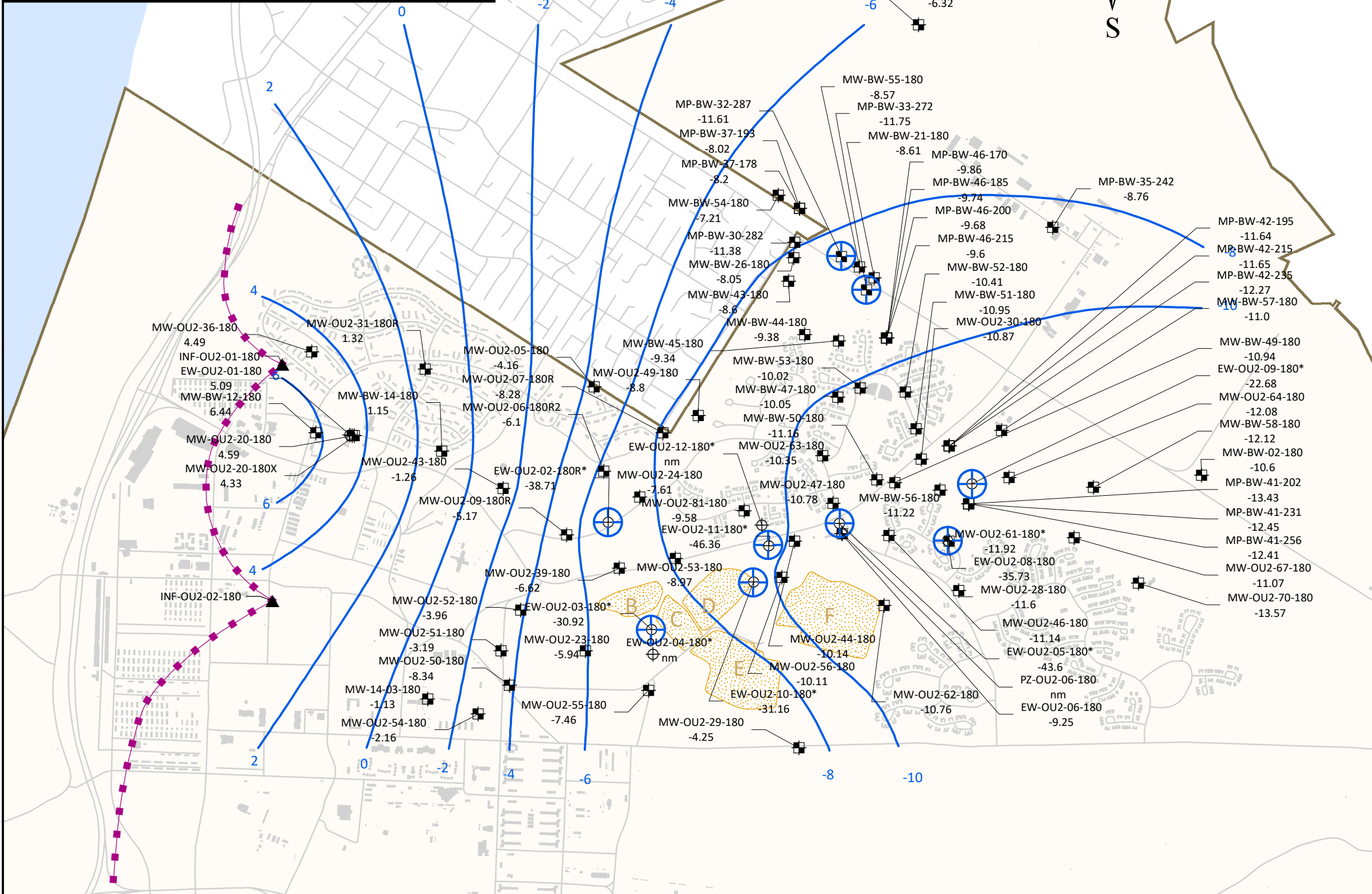
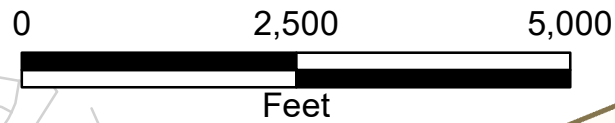
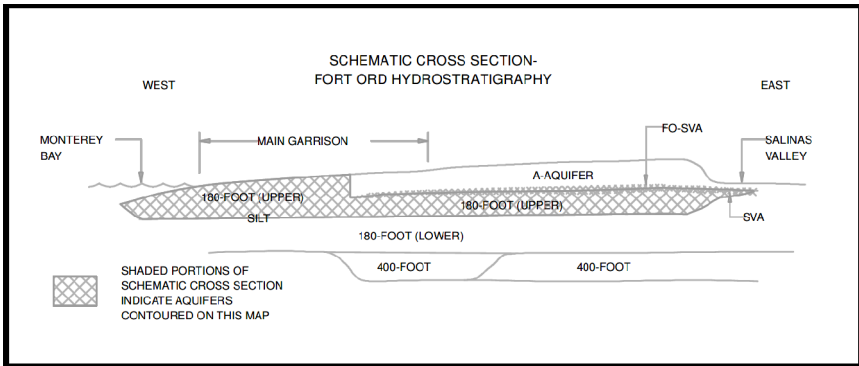
- MW-B-05-180 -4.2 Station ID and Groundwater Elevation (feet)
- NM Water level not measured this quarter
- \* Water level not used for contouring
- Groundwater Elevation Contour
- Location of a groundwater depression
- Approximate location of the Upper 180-Foot Aquifer Groundwater Divide
- Roads
- Facilities
- Approximate extent of landfill areas
- Former Fort Ord Boundary

**Notes:**

- (1) Water levels were measured between June 1, 2020 and June 9, 2020.
- (2) Groundwater elevation contours are based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
- (3) Groundwater elevations are relative to NGVD 1929.
- (4) Monitoring wells presented are a part of the basewide monitoring network.

**GROUNDWATER ELEVATIONS  
UPPER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Second Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California**



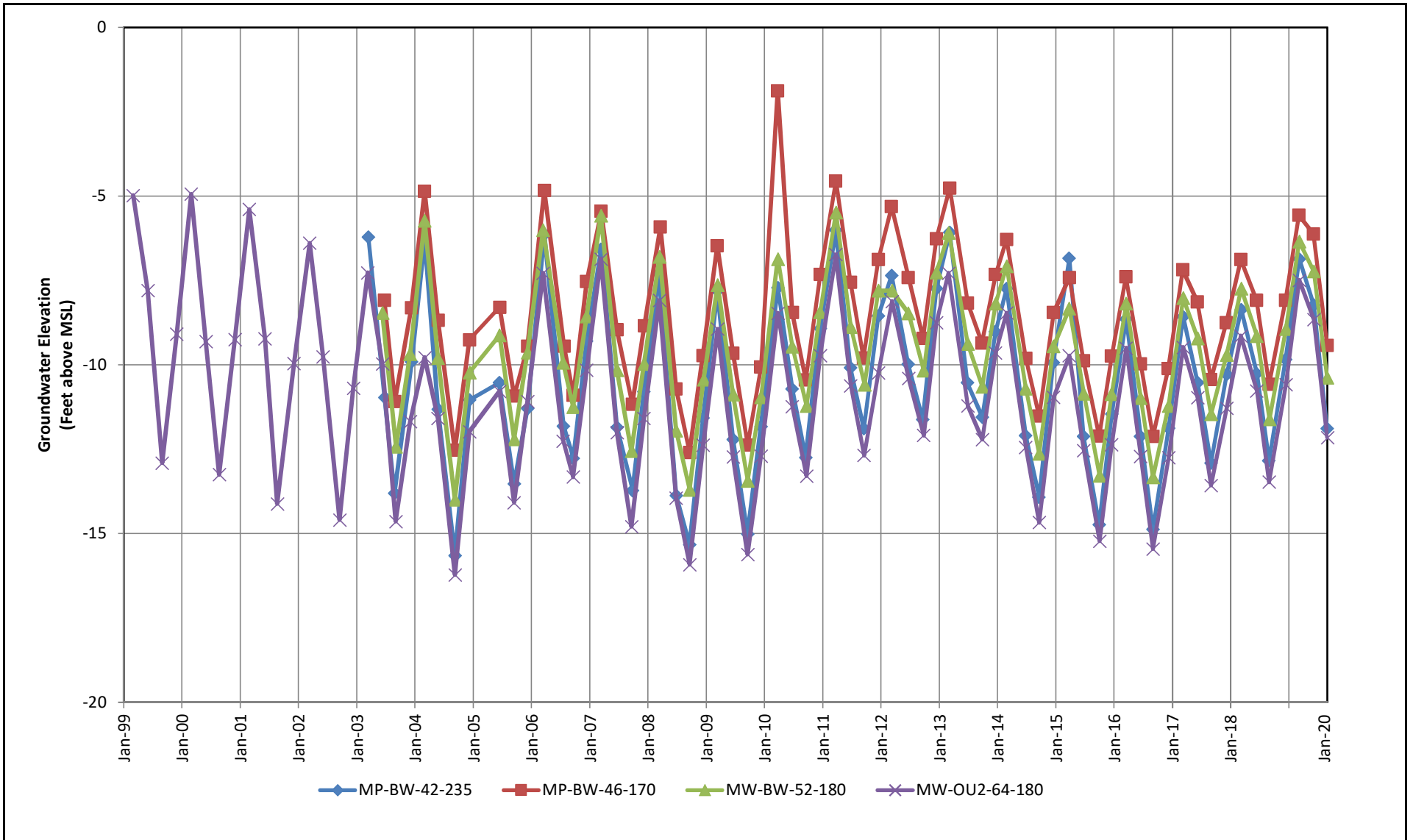


**Explanation**

- Extraction Well
- Monitoring Well
- Piezometer
- Infiltration Well
- MW-B-05-180 -4.2 Station ID and Groundwater Elevation (feet)
- NM Water level not measured this quarter
- \* Water level not used for contouring
- Groundwater Elevation Contour
- Location of a groundwater depression
- Approximate location of the Upper 180-Foot Aquifer Groundwater Divide
- Roads
- Facilities
- Approximate extent of landfill areas
- Former Fort Ord Boundary

**Notes:**  
 (1) Water levels were measured between August 30, 2020 and September 31, 2020.  
 (2) Groundwater elevation contours are based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.  
 (3) Groundwater elevations are relative to NGVD 1929.  
 (4) Monitoring wells presented are a part of the basewide monitoring network.

**GROUNDWATER ELEVATIONS  
 UPPER 180-FOOT AQUIFER  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California**

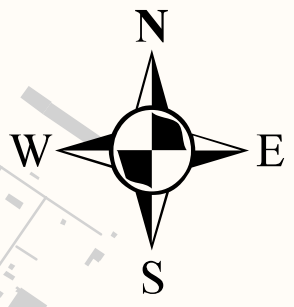
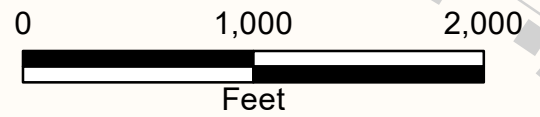
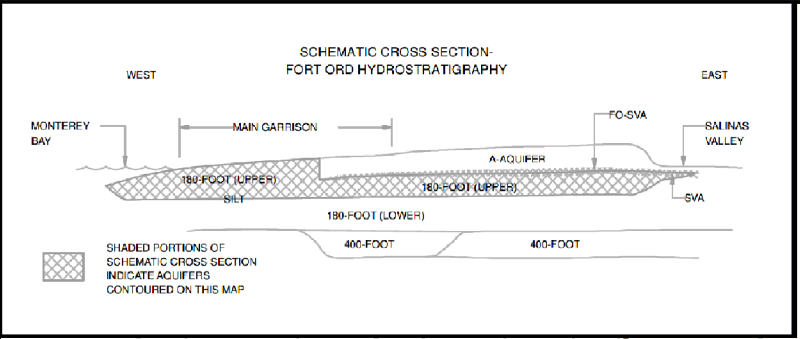


**Hydrographs of Representative Upper 180-Foot Aquifer Wells  
September 1999 to September 2020**

Figure



Operable Unit Carbon Tetrachloride Plume, Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring and Treatment System Report  
Former Fort Ord, California



- ### EXPLANATION
- Monitoring Well With CT Detection
  - Monitoring Well CT Not Detected
  - Extraction Well CT Not Detected
  - Monitoring Well Not Sampled
- Well ID - Bold When Concentration Exceeds the ACL
- MW-OU2-64-180**  
8.8
- CT Concentrations (µg/L) and validation/lab qualifier.

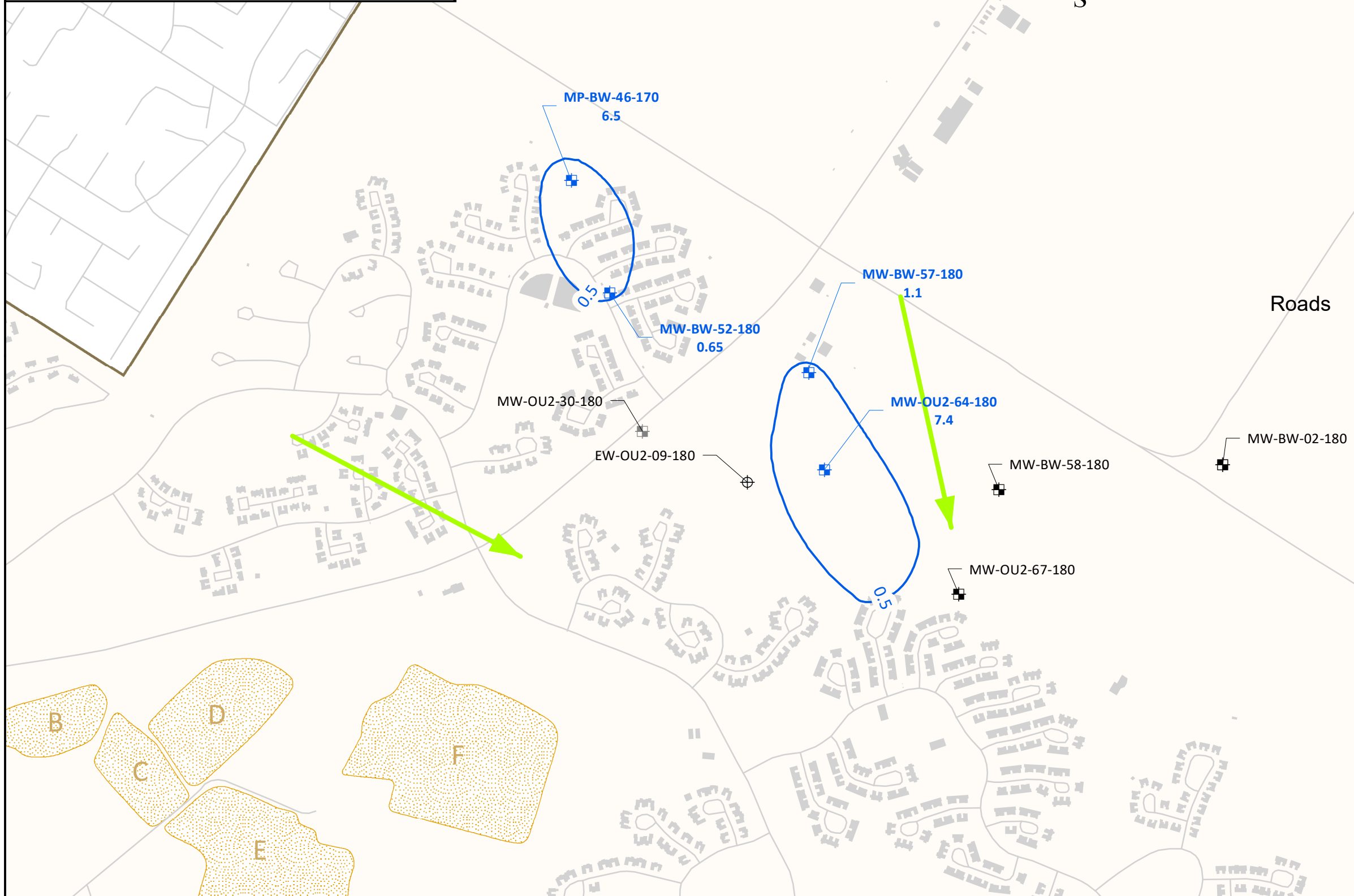
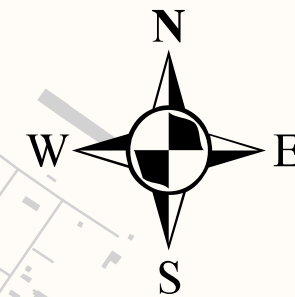
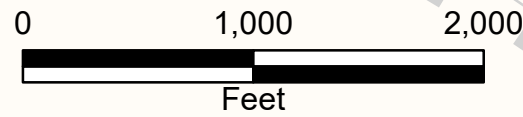
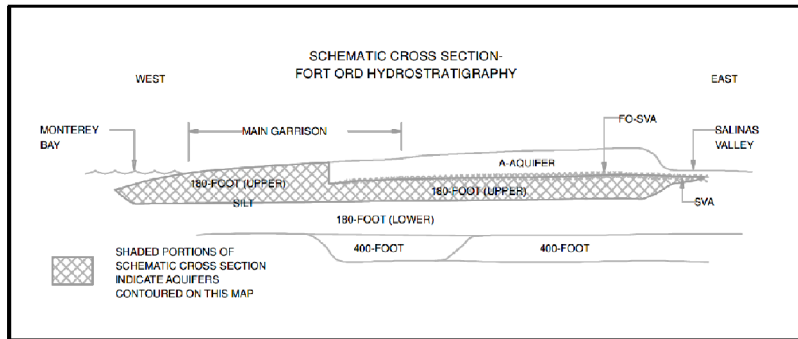
- Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.
- 0.5 — Carbon Tetrachloride (CT)
  - General Groundwater Flow Direction
  - Roads
  - Approximate extent of landfill areas
  - Facilities
  - Former Fort Ord Boundary

**NOTES:**

- (1) Samples were collected between December 2, 2019 and December 6, 2019.
- (2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
- (3) Contours are based on highest value obtained from multiple bags and/or multiple ports were applicable.
- (4) Contours near wells not sampled this quarter are inferred from previous analytical data.

CT CONCENTRATION  
UPPER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Fourth Quarter 2019  
Groundwater Monitoring Report  
Former Fort Ord, California





**EXPLANATION**

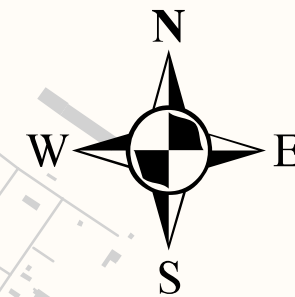
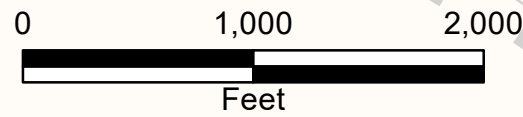
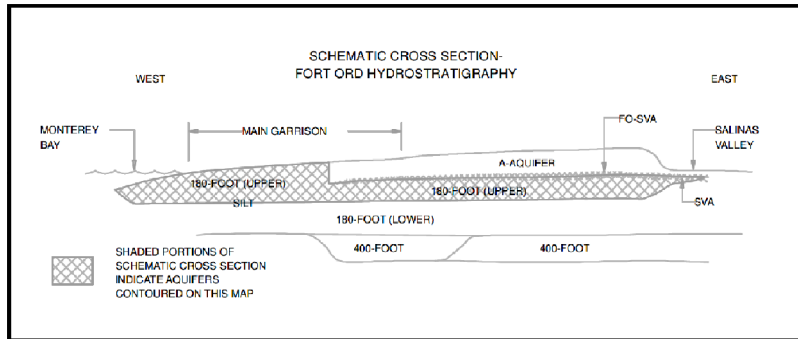
- Monitoring Well With CT Detection
- Monitoring Well CT Not Detected
- Extraction Well CT Not Detected
- Monitoring Well Not Sampled
- Well ID - Bold When Concentration Exceeds the ACL
- MW-OU2-64-180**  
7.4
- CT Concentrations (µg/L) and validation/lab qualifier.
- Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.
- 0.5 Carbon Tetrachloride (CT)
- General Groundwater Flow Direction
- Roads
- Approximate extent of landfill areas
- Facilities
- Former Fort Ord Boundary

**NOTES:**

- (1) Groundwater samples were collected between March 2, 2020 and March 6, 2020.
- (2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
- (3) Contours are based on highest value obtained from multiple bags and/or multiple ports were applicable.
- (4) Contours near wells not sampled this quarter are inferred from previous analytical data.

CARBON TETRACHLORIDE CONCENTRATIONS  
UPPER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
First Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California





**EXPLANATION**

- Monitoring Well With CT Detection
- Monitoring Well CT Not Detected
- Extraction Well CT Not Detected
- Monitoring Well Not Sampled

Well ID - Bold When Concentration Exceeds the ACL

**MW-OU2-64-180**  
4.3

CT Concentrations (µg/L) and validation/lab qualifier.

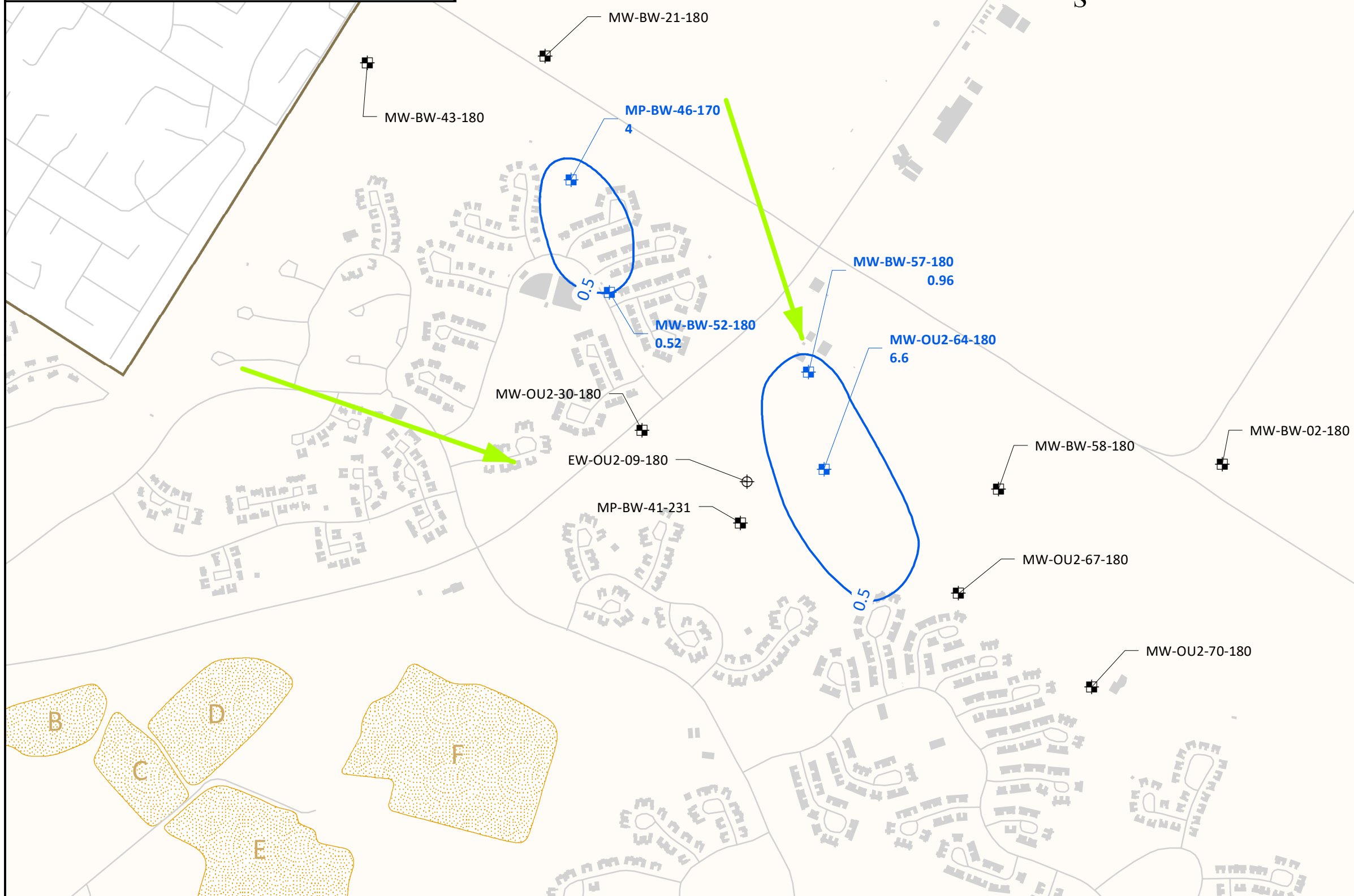
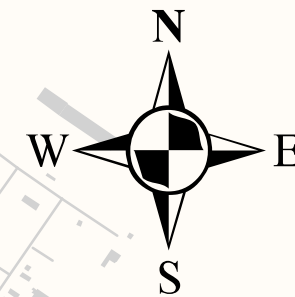
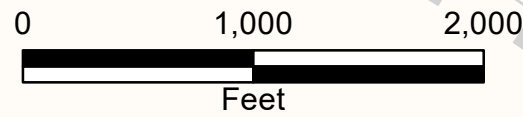
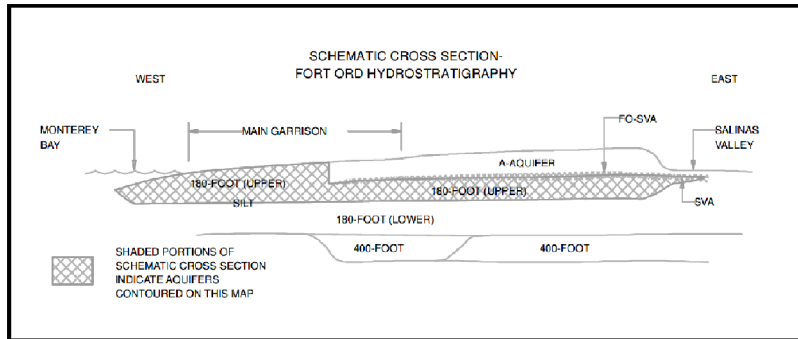
Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 Carbon Tetrachloride (CT)
- General Groundwater Flow Direction
- Roads
- Approximate extent of landfill areas
- Facilities
- Former Fort Ord Boundary

**NOTES:**

- (1) Samples were collected between June 1, 2020 and June 9, 2020.
- (2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
- (3) Contours are based on highest value obtained from multiple bags and/or multiple ports were applicable.
- (4) Contours near wells not sampled this quarter are inferred from previous analytical data.

CT CONCENTRATIONS  
UPPER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Second Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California



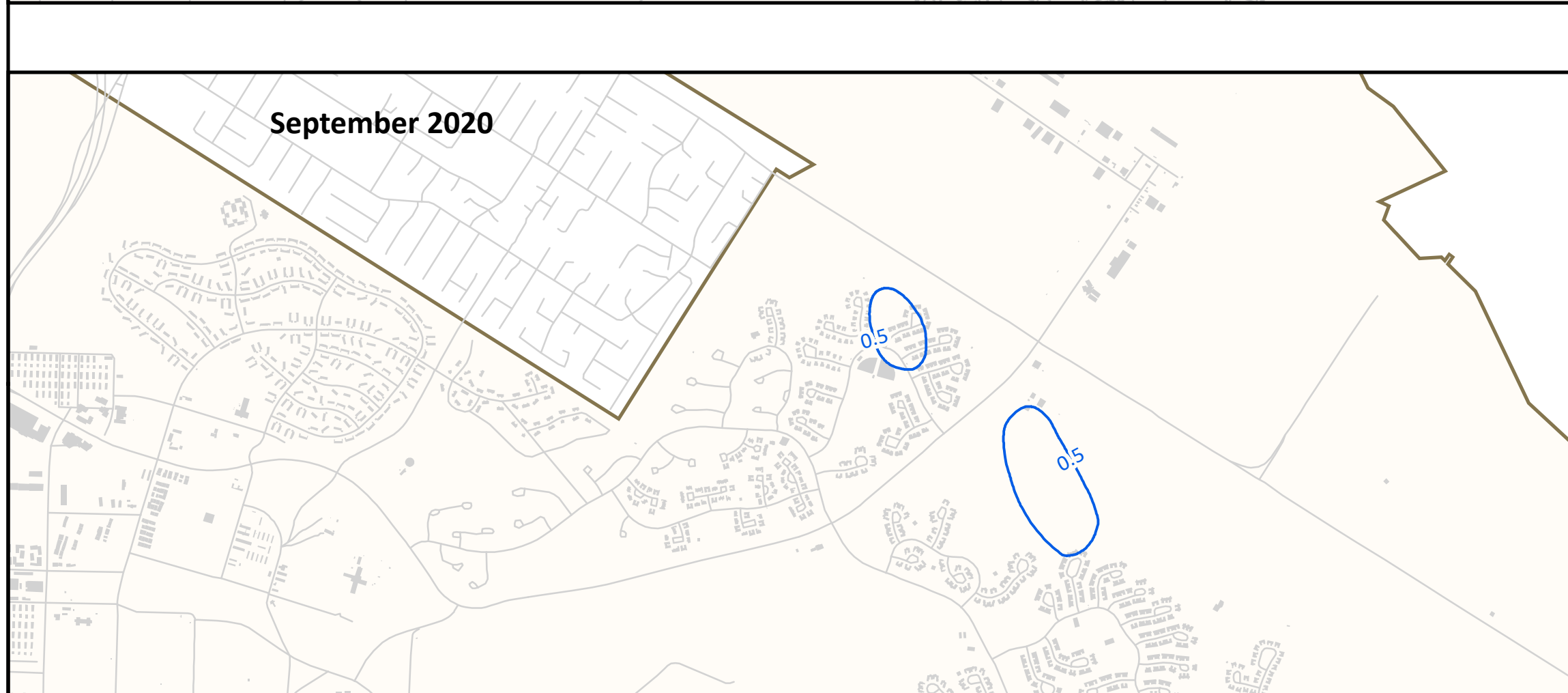
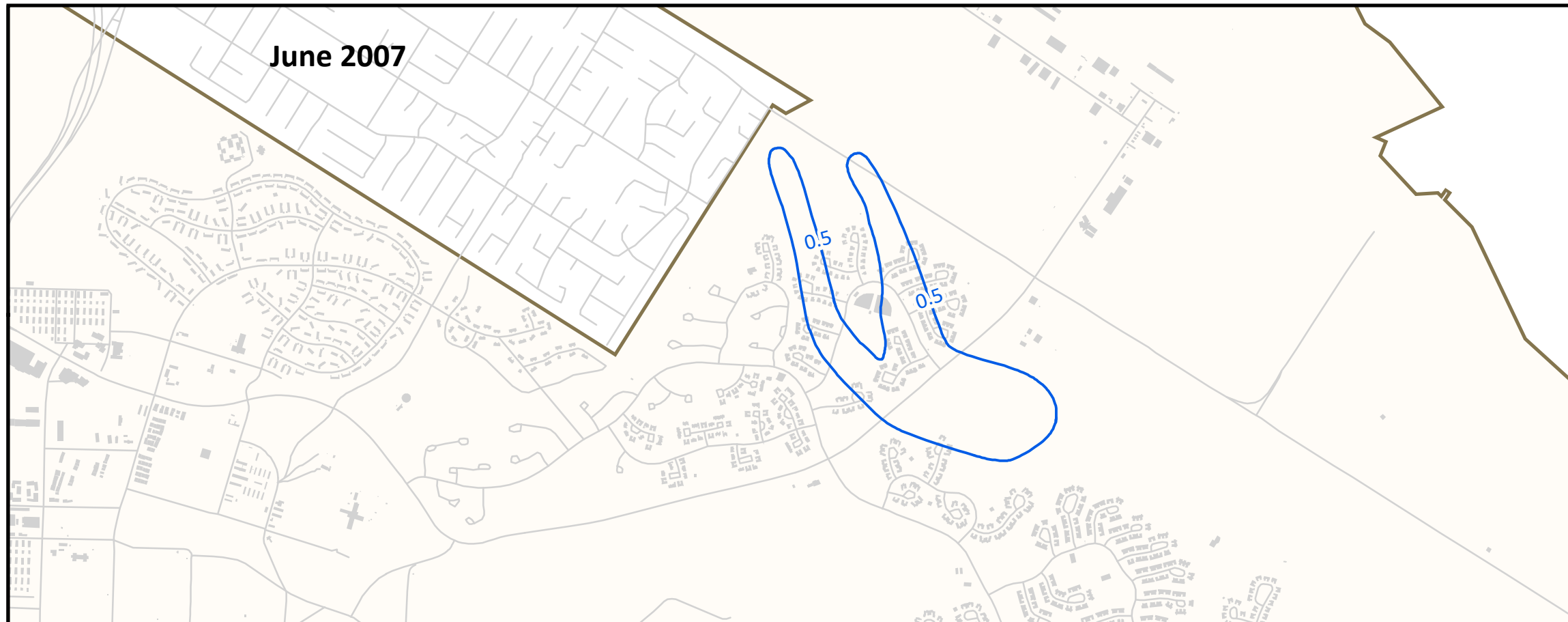
**EXPLANATION**

- Monitoring Well With CT Detection
- Monitoring Well CT Not Detected
- Extraction Well CT Not Detected
- Well ID - Bold When Concentration Exceeds the ACL
- MW-OU2-64-180**  
6.6  
CT Concentrations (µg/L) and validation/lab qualifier.
- 0.5 Carbon Tetrachloride (CT)
- General Groundwater Flow Direction
- Roads
- Approximate extent of landfill areas
- Facilities
- Former Fort Ord Boundary

**NOTES:**

- (1) Samples were collected between August 31, 2020 and September 23, 2020.
- (2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
- (3) Contours are based on highest value obtained from multiple bags and/or multiple ports were applicable.
- (4) Contours near wells not sampled this quarter are inferred from previous analytical data.

CT CONCENTRATIONS  
UPPER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Third Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California



**EXPLANATION**

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

0.5 — Carbon Tetrachloride (CT)

— Roads

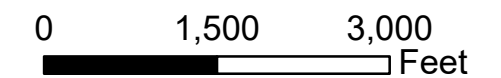
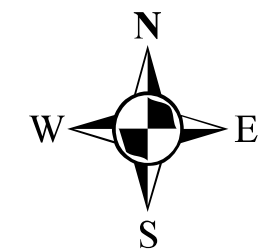
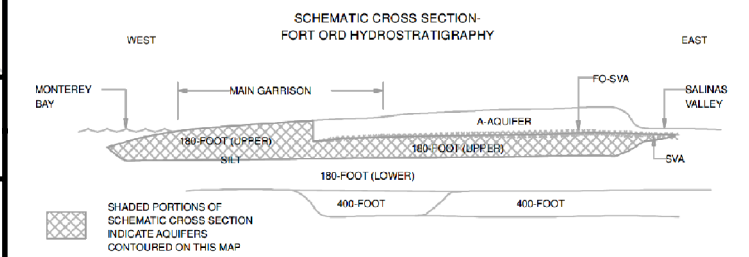
■ Facilities

⊕ Former Fort Ord Boundary

**NOTES:**

(1) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.

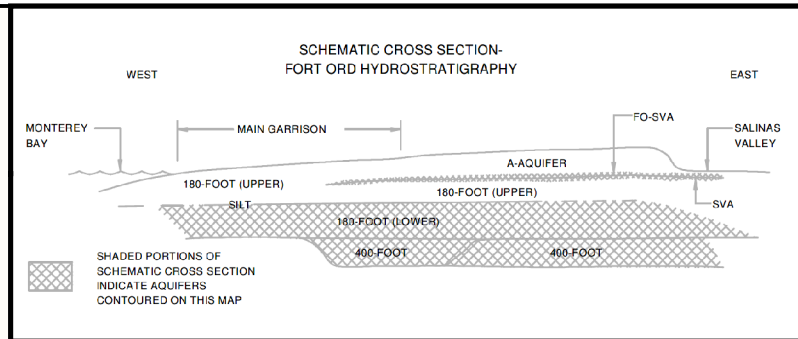
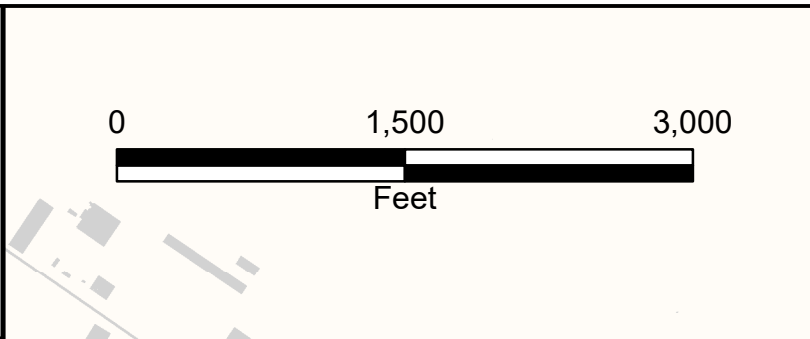
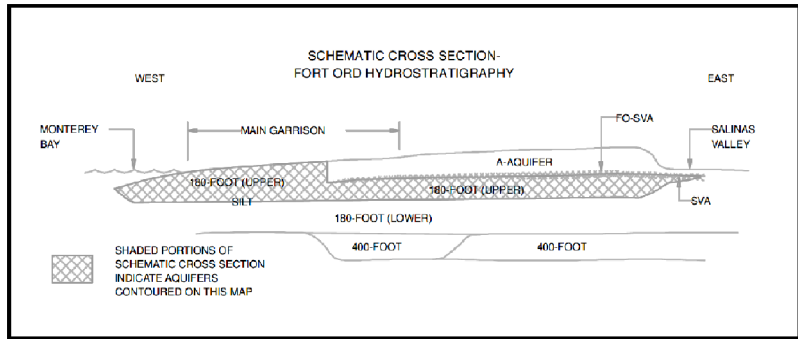
**Roads**



CURRENT AND HISTORICAL CT ACL CONTOURS  
 OUCTP UPPER 180-FOOT AQUIFER  
 JUNE 2007 AND SEPTEMBER 2020  
 Operable Unit Carbon Tetrachloride Plume  
 Fourth Quarter 2019 - Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

*Ahtna*

Date: 11/15/2020 Figure: 23



### EXPLANATION

- Extraction Well with No CT Detection
- Monitoring Well with No CT Detection
- Monitoring Well with CT Detection in the Upper 180-Foot Aquifer
- Monitoring Well with CT Detection in the Lower 180-Foot Aquifer
- Marina Coast Active Supply Wells with CT Detection

Well ID  
 MP-BW-51-405  
 Lower 180-Foot  
 CT: 0.13 J

Aquifer  
 Concentration in µg/L and validation/lab qualifier.  
 (blue indicates Upper 180-Foot Aquifer; pink indicates Lower 180-Foot Aquifer)  
 CT Bold when COC exceeds the ACL.

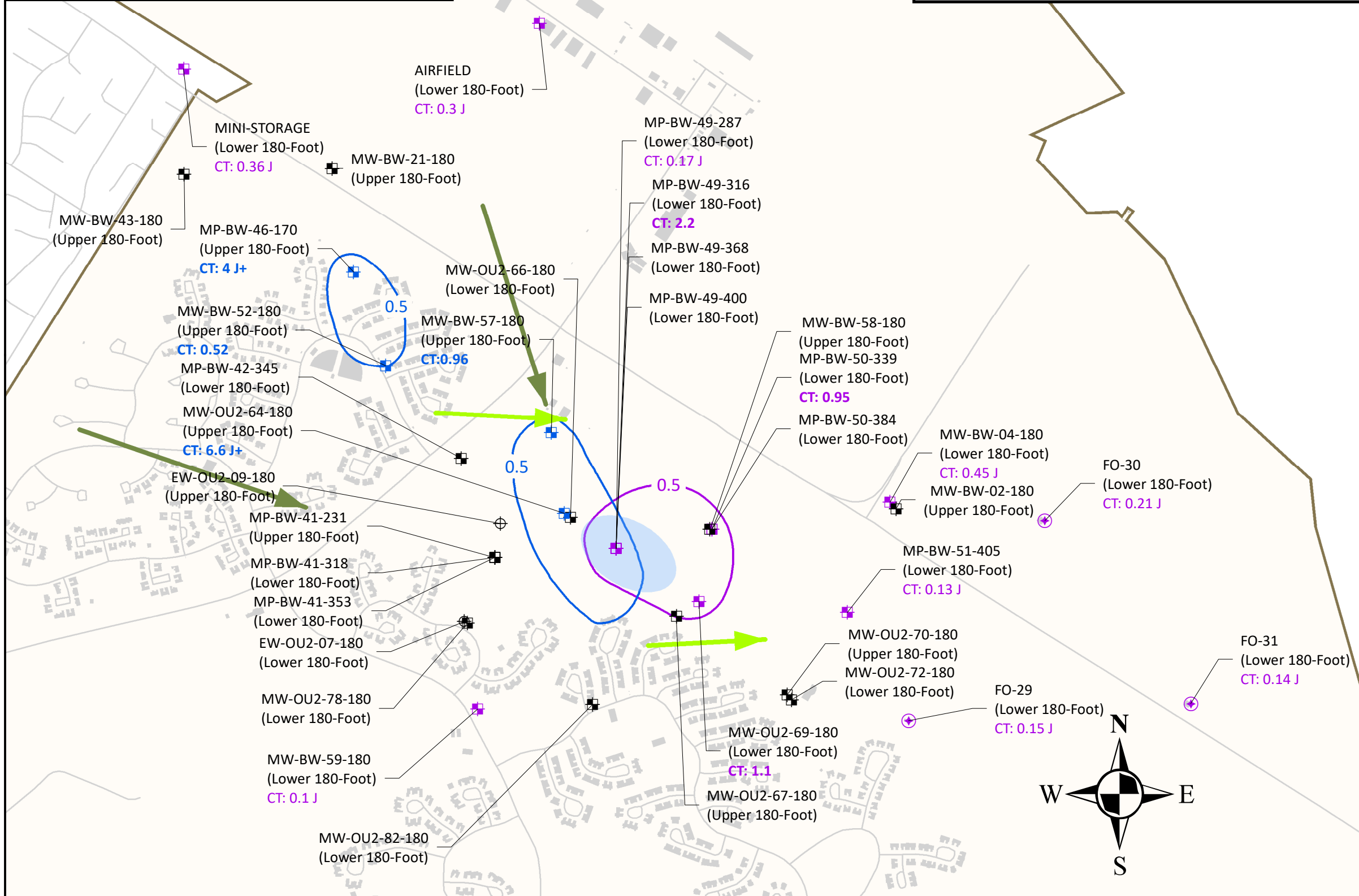
Chemical of Concern (COC) Aquifer Cleanup Level (ACL)  
 Exceedance Contour in µg/L.

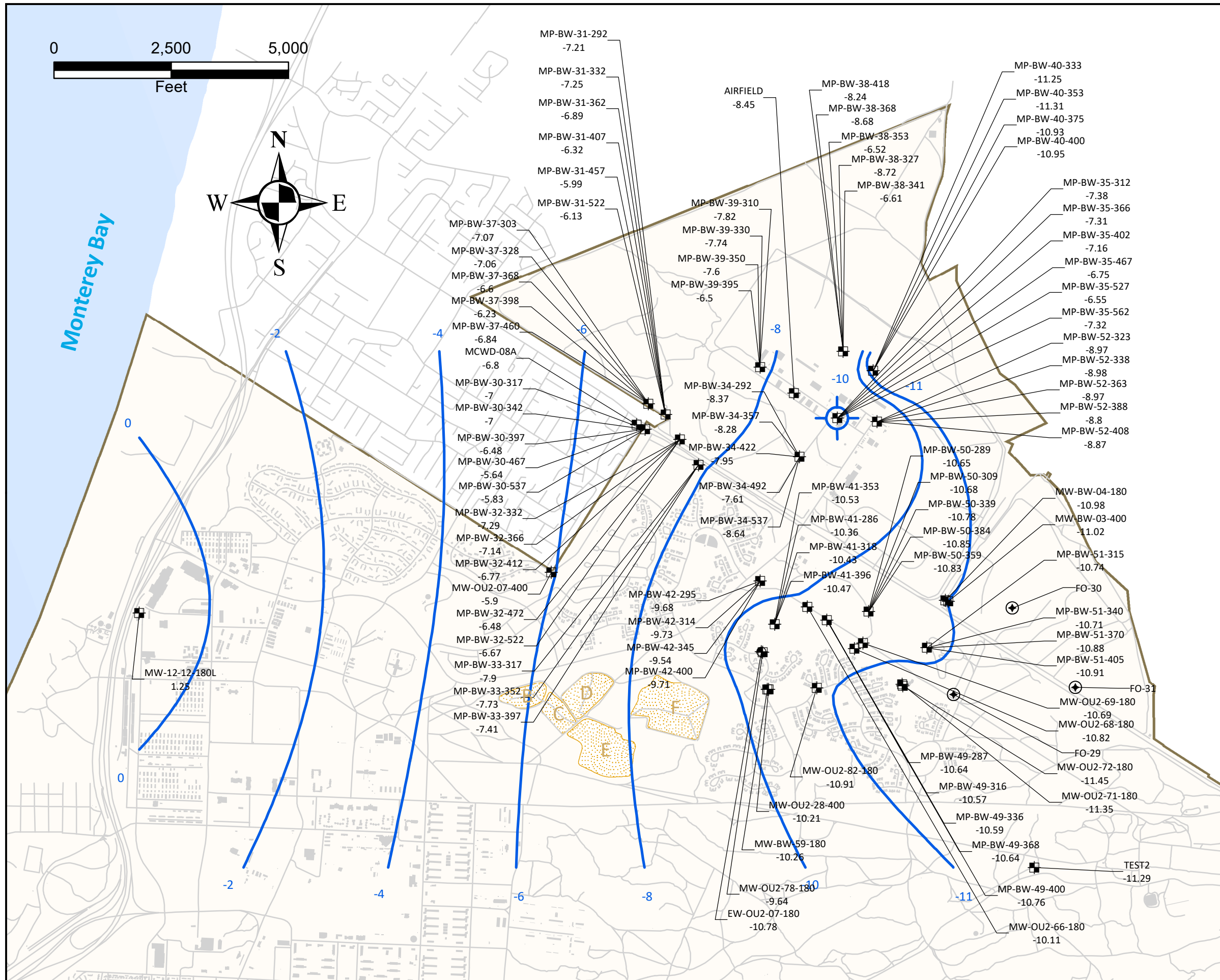
- 0.5 3Q2020 OUCTP Upper 180-Foot Aquifer Carbon Tetrachloride (CT) Plume Extent
- 0.5 3Q2020 OUCTP Lower 180-Foot Aquifer Carbon Tetrachloride (CT) Plume Extent
- Suspected Discontinuity in the Intermediate 180-Foot Aquitard (Estimated)
- General Groundwater Flow Direction in the Lower 180-Foot Aquifer
- General Groundwater Flow Direction in the Upper 180-Foot Aquifer
- Approximate extent of landfill areas
- Former Fort Ord Boundary

**NOTES:**

- Groundwater samples were collected between August 31st, 2020 and September 23rd, 2020.
- Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
- Contour based on highest value obtained from multiple bags and/or multiple ports where applicable.
- TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.
- TCE is not sampled in the OUCTP Upper 180-Foot Aquifer.

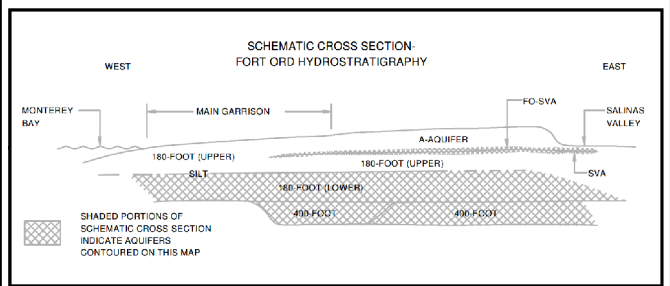
CT CONCENTRATION  
 UPPER 180-FOOT AND  
 LOWER 180-FOOT/400-FOOT AQUIFERS  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California





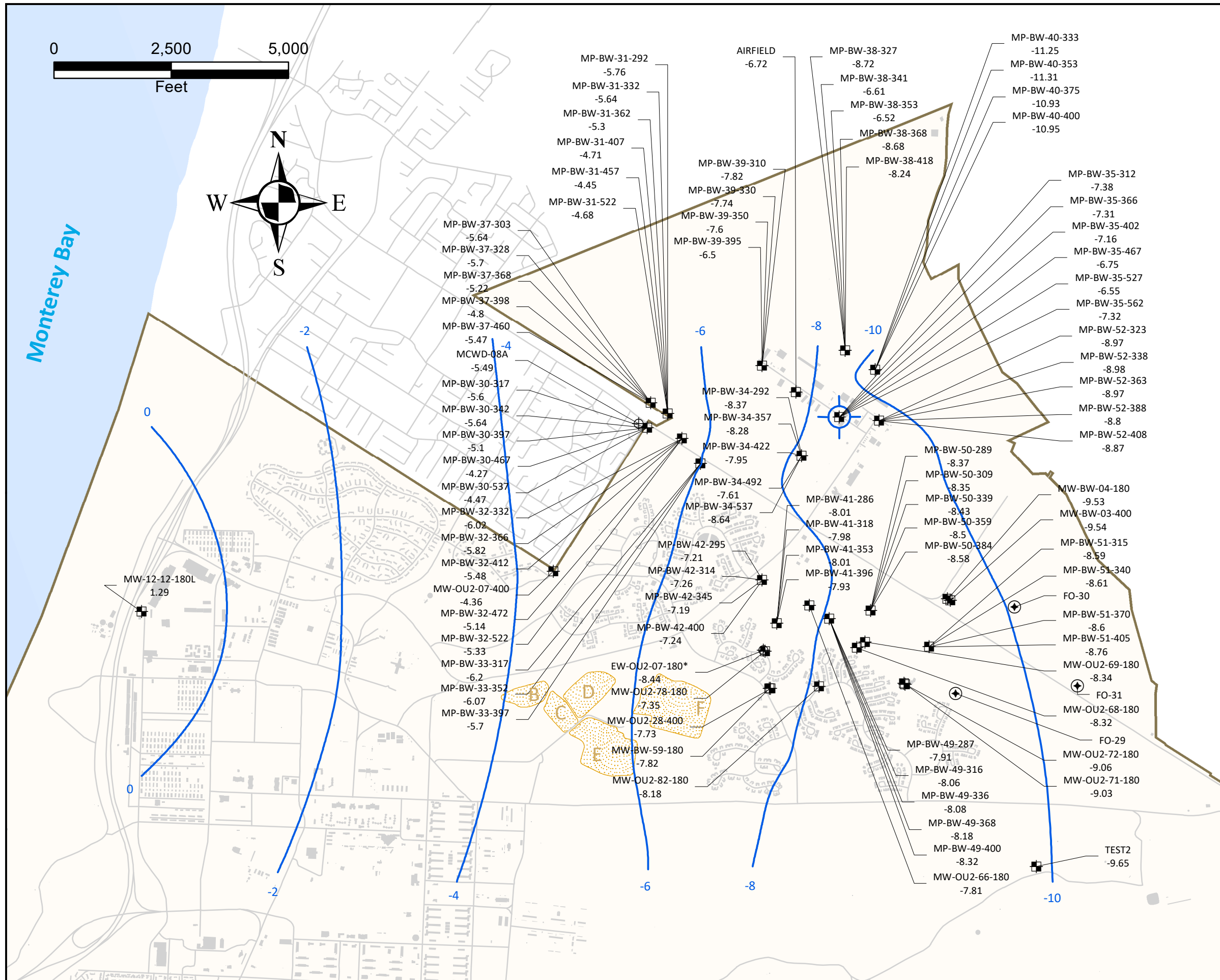
**EXPLANATION**

- Extraction Well
- Monitoring Well
- Marina Coast Active Supply Well
- Groundwater Elevation Contour
- Area of groundwater inclination.
- Facilities
- Roads
- Former Fort Ord Boundary
- Approximate extent of landfill areas



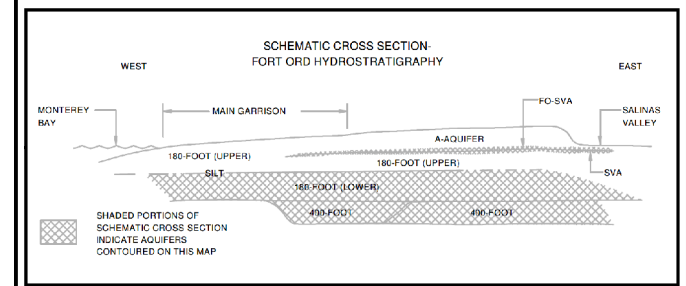
- NOTES:**
- (1) Water Levels were measured between December 2, 2019 and December 6, 2019.
  - (2) Groundwater elevation contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
  - (3) The average groundwater elevation from all ports screened within the Lower 180/400-Foot Aquifer was used for contouring MP-BW-30 through MP-BW-52.
  - (4) Groundwater elevations are based on NGVD 1929.

**GROUNDWATER ELEVATIONS**  
**LOWER 180-FOOT/400-FOOT AQUIFERS**  
**OPERABLE UNIT CARBON TETRACHLORIDE PLUME**  
 Fourth Quarter 2019  
 Groundwater Monitoring Report  
 Former Fort Ord, California



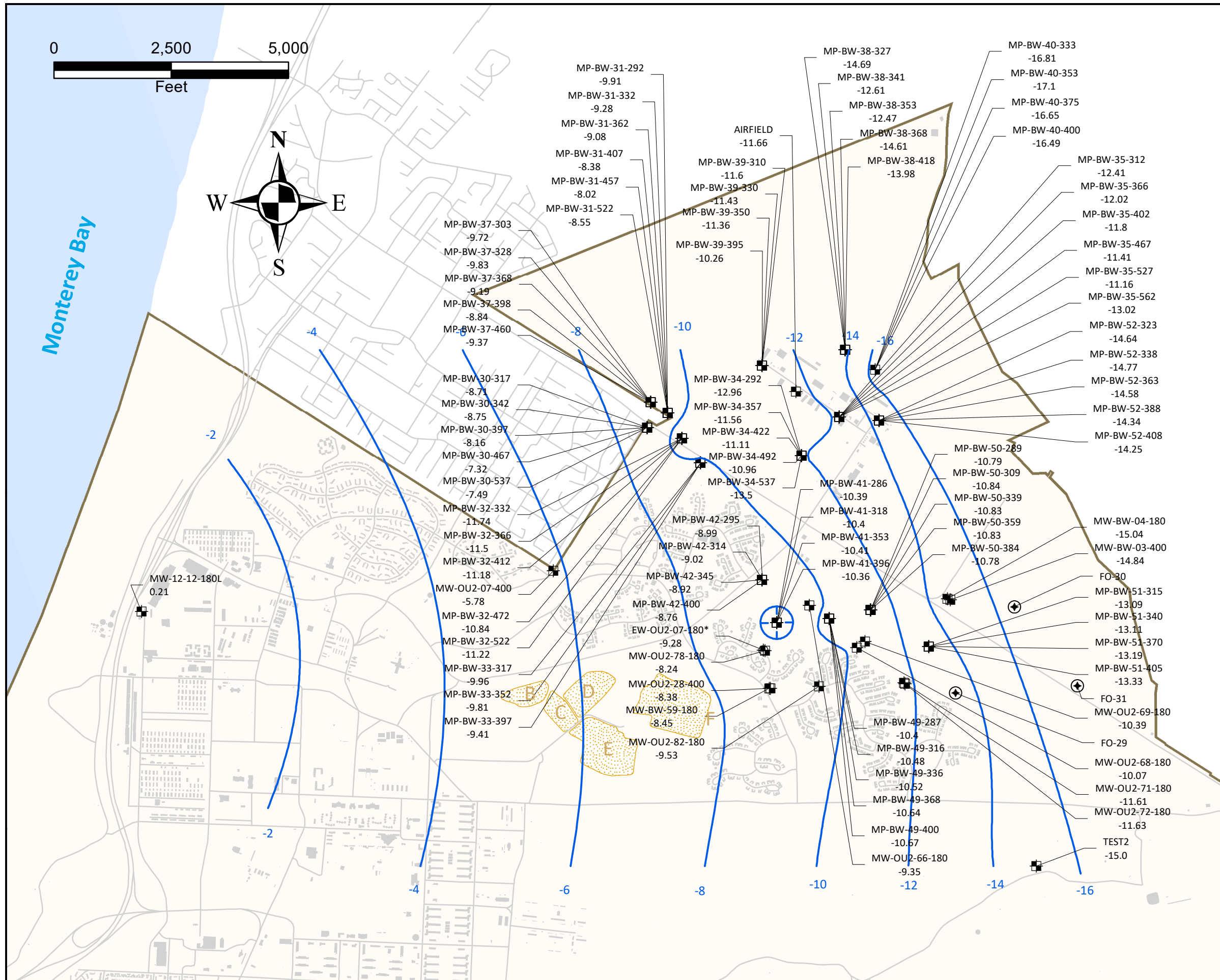
### EXPLANATION

- Extraction Well
- Monitoring Well
- Marina Coast Active Supply Well
- Groundwater Elevation Contour
- Area of groundwater inclination.
- Facilities
- Roads
- Former Fort Ord Boundary
- Approximate extent of landfill areas



- NOTES:**
- (1) Water Levels were measured between March 2, 2020 and March 6, 2020.
  - (2) Groundwater elevation contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
  - (3) The average groundwater elevation from all ports screened within the Lower 180/400-Foot Aquifer was used for contouring MP-BW-30 through MP-BW-52.
  - (4) Groundwater elevations are based on NGVD 1929.

**GROUNDWATER ELEVATIONS**  
**LOWER 180-FOOT/400-FOOT AQUIFERS**  
**OPERABLE UNIT CARBON TETRACHLORIDE PLUME**  
 First Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California



### EXPLANATION

- ⊕ Extraction Well
- ⊕ Monitoring Well
- ⊕ Marina Coast Active Supply Well
- ~ Groundwater Elevation Contour
- ⊕ Area of groundwater depression
- ▭ Facilities
- ▭ Roads
- ⊕ Former Fort Ord Boundary
- ⊕ Approximate extent of landfill areas

**SCHEMATIC CROSS SECTION FORT ORD HYDROSTRATIGRAPHY**

WEST EAST

MONTEREY BAY MAIN GARRISON A-AQUIFER FO-SVA SALINAS VALLEY SVA

180-FOOT (UPPER) 180-FOOT (LOWER) 400-FOOT 90-FOOT

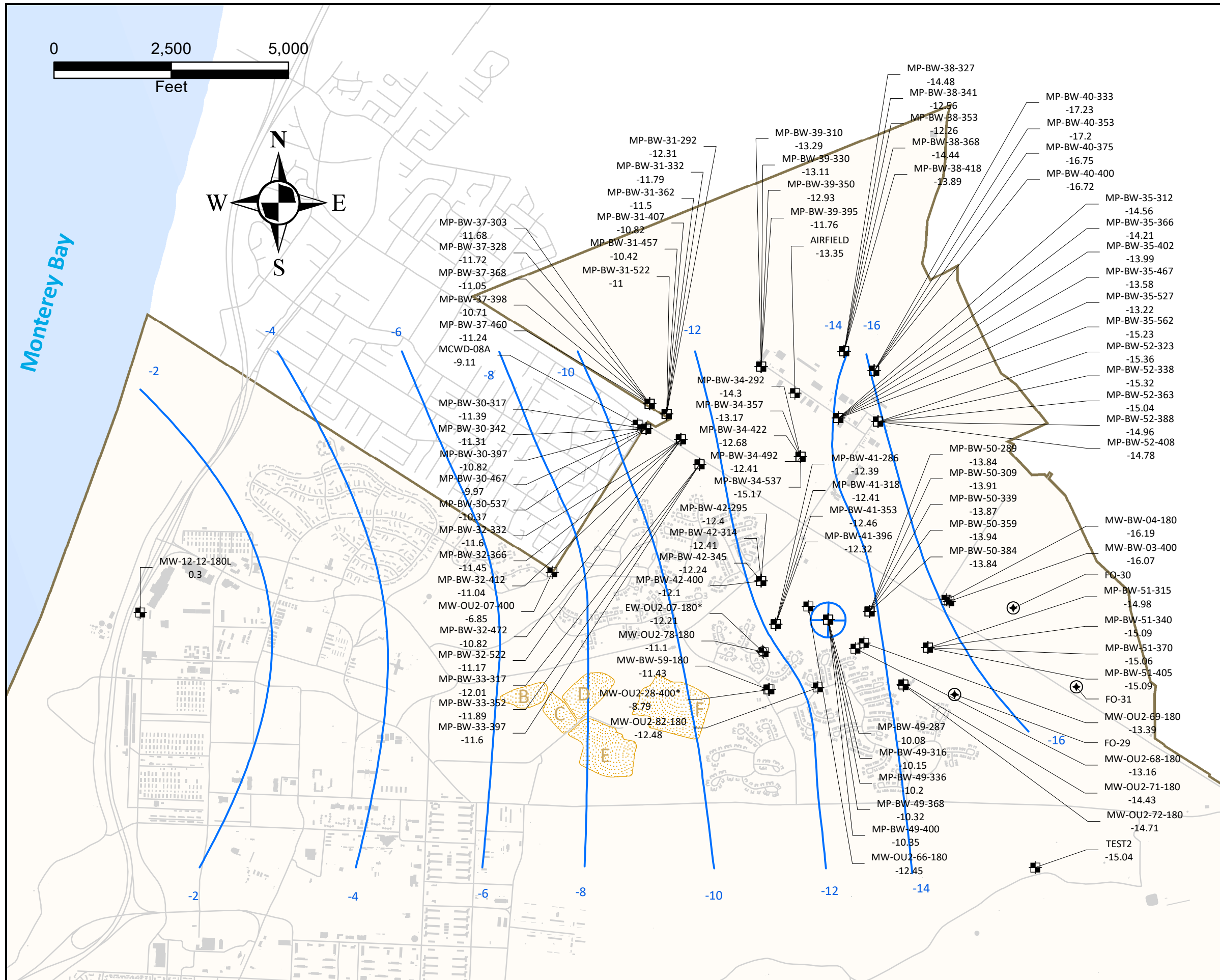
SHADED PORTIONS OF SCHEMATIC CROSS SECTION INDICATE AQUIFERS CONTOURED ON THIS MAP

**NOTES:**

- (1) Water Levels were measured between June 1, 2020 and June 9, 2020.
- (2) Groundwater elevation contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
- (3) The average groundwater elevation from all ports screened within the Lower 180/400-Foot Aquifer was used for contouring MP-BW-30 through MP-BW-52.
- (4) Groundwater elevations are based on NGVD 1929.

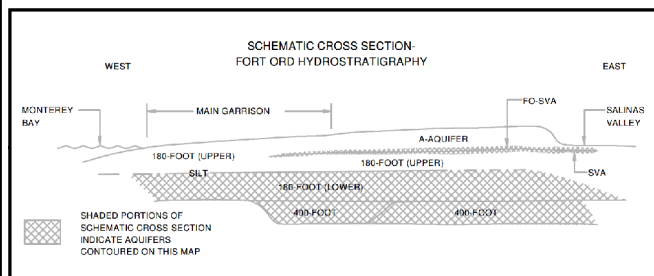
**GROUNDWATER ELEVATIONS  
LOWER 180-FOOT/400-FOOT AQUIFERS  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Second Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California**

**Ahtna** Date: 11/6/2020 Figure: 27



**EXPLANATION**

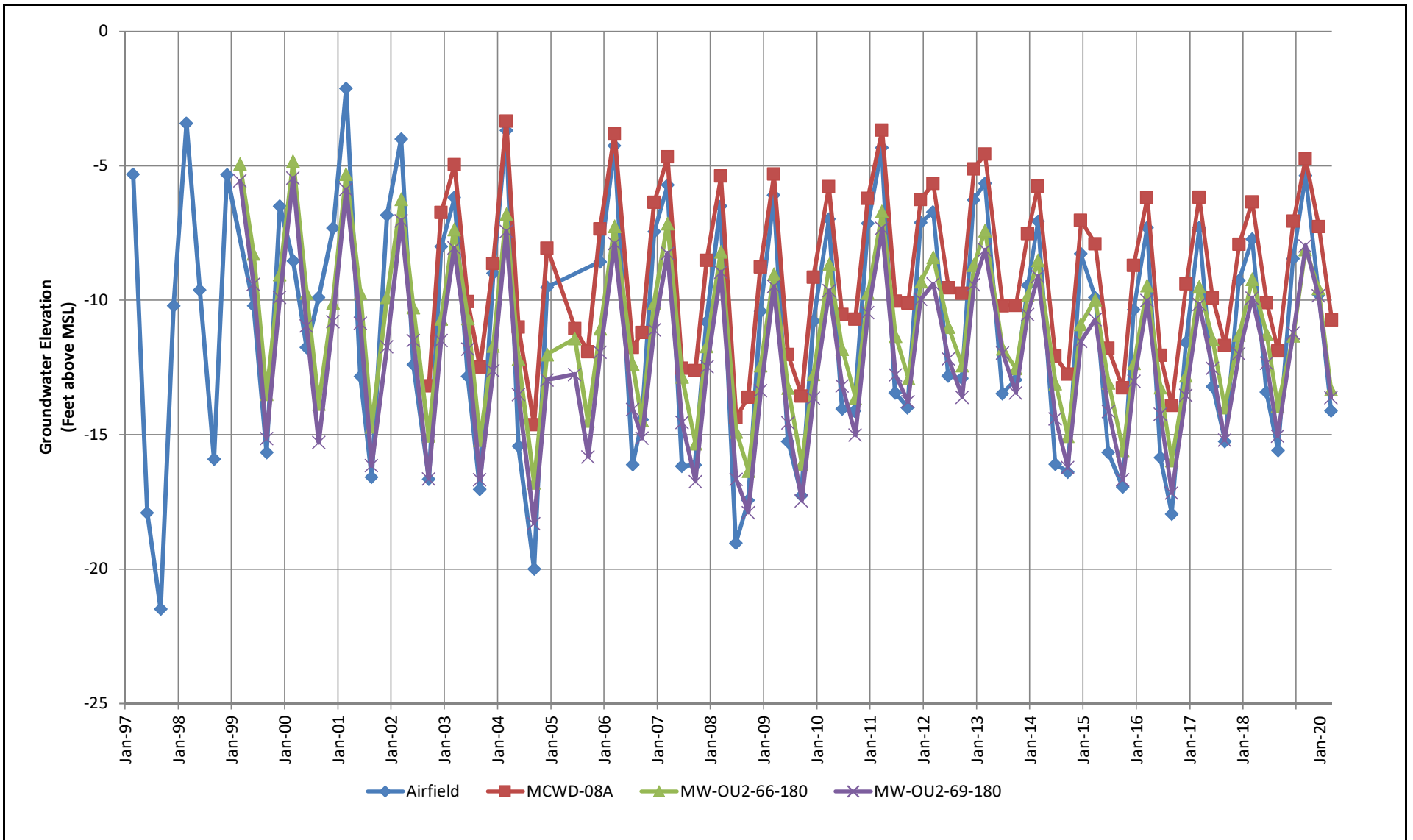
- Extraction Well
- Monitoring Well
- Marina Coast Active Supply Well
- Groundwater Elevation Contour
- Area of groundwater depression
- Facilities
- Roads
- Former Fort Ord Boundary
- Approximate extent of landfill areas



- NOTES:**
- (1) Water Levels were measured between August 31, 2020 and September 4, 2020.
  - (2) Groundwater elevation contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
  - (3) The average groundwater elevation from all ports screened within the Lower 180/400-Foot Aquifer was used for contouring MP-BW-30 through MP-BW-52.
  - (4) Groundwater elevations are based on NGVD 1929.

**GROUNDWATER ELEVATIONS**  
**LOWER 180-FOOT/400-FOOT AQUIFERS**  
**OPERABLE UNIT CARBON TETRACHLORIDE PLUME**  
 Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California

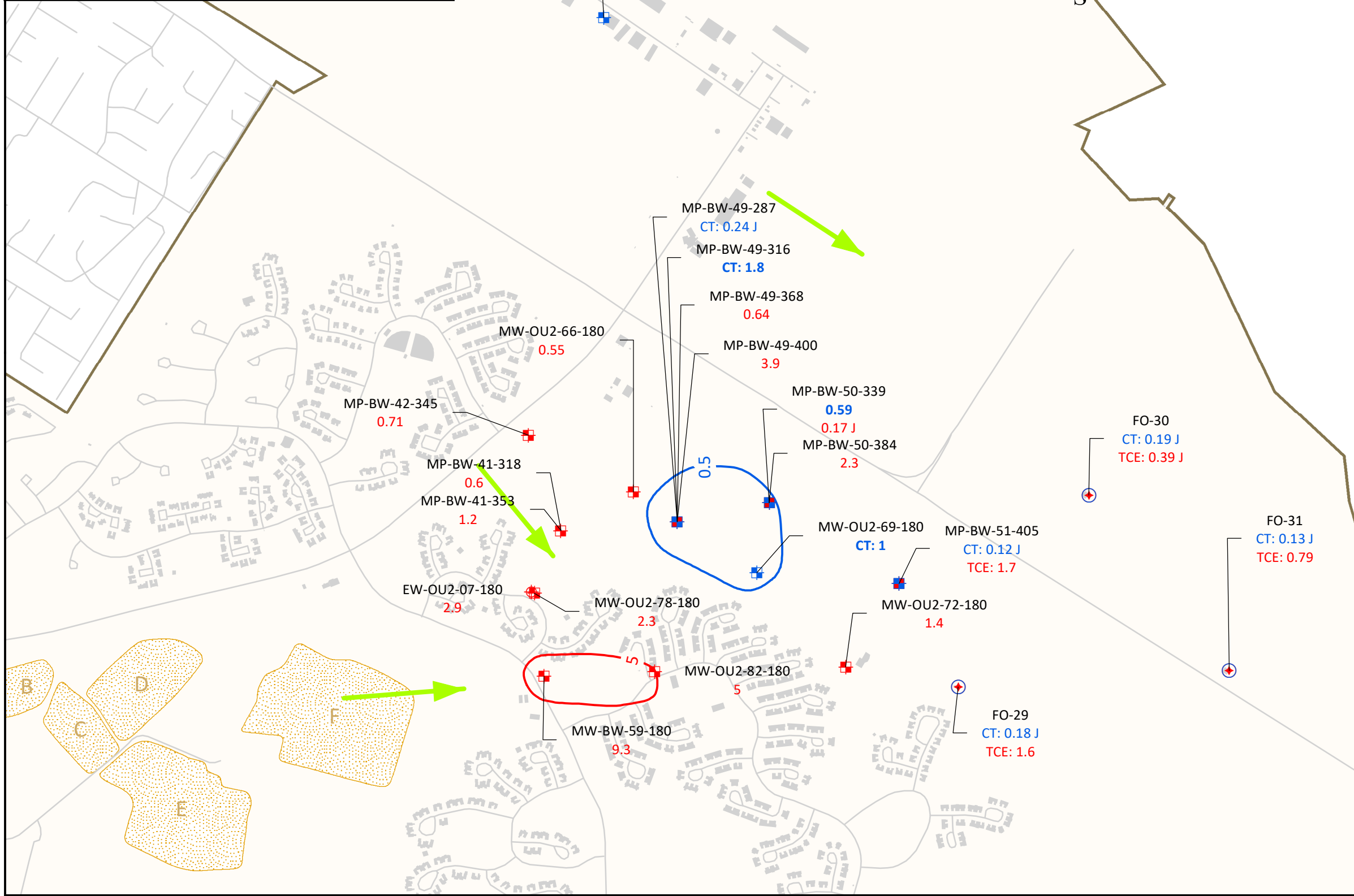
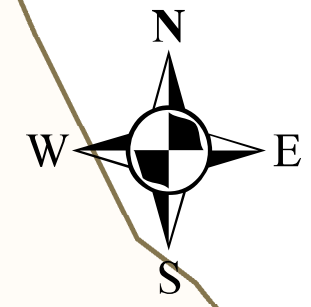
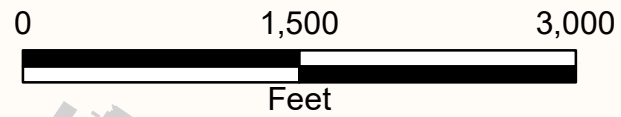
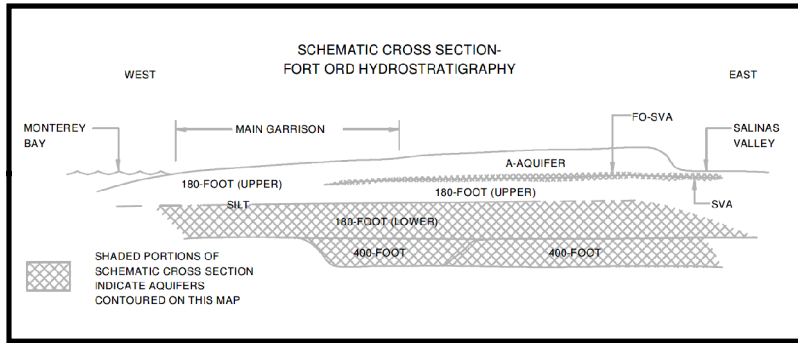




**Hydrographs of Representative Lower 180/400-Foot Aquifer Wells**  
**September 1997 to September 2020**  
 Operable Unit Carbon Tetrachloride Plume, Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring and Treatment System Report  
 Former Fort Ord, California

Figure





**EXPLANATION**

- Extraction Well with TCE Detection and No CT Detection
- Monitoring Well with CT Detection and No TCE Detection
- Monitoring Well with TCE Detection and No CT Detection
- Monitoring Well with CT and TCE Detection
- Marina Coast Active Supply Wells with CT and TCE Detection

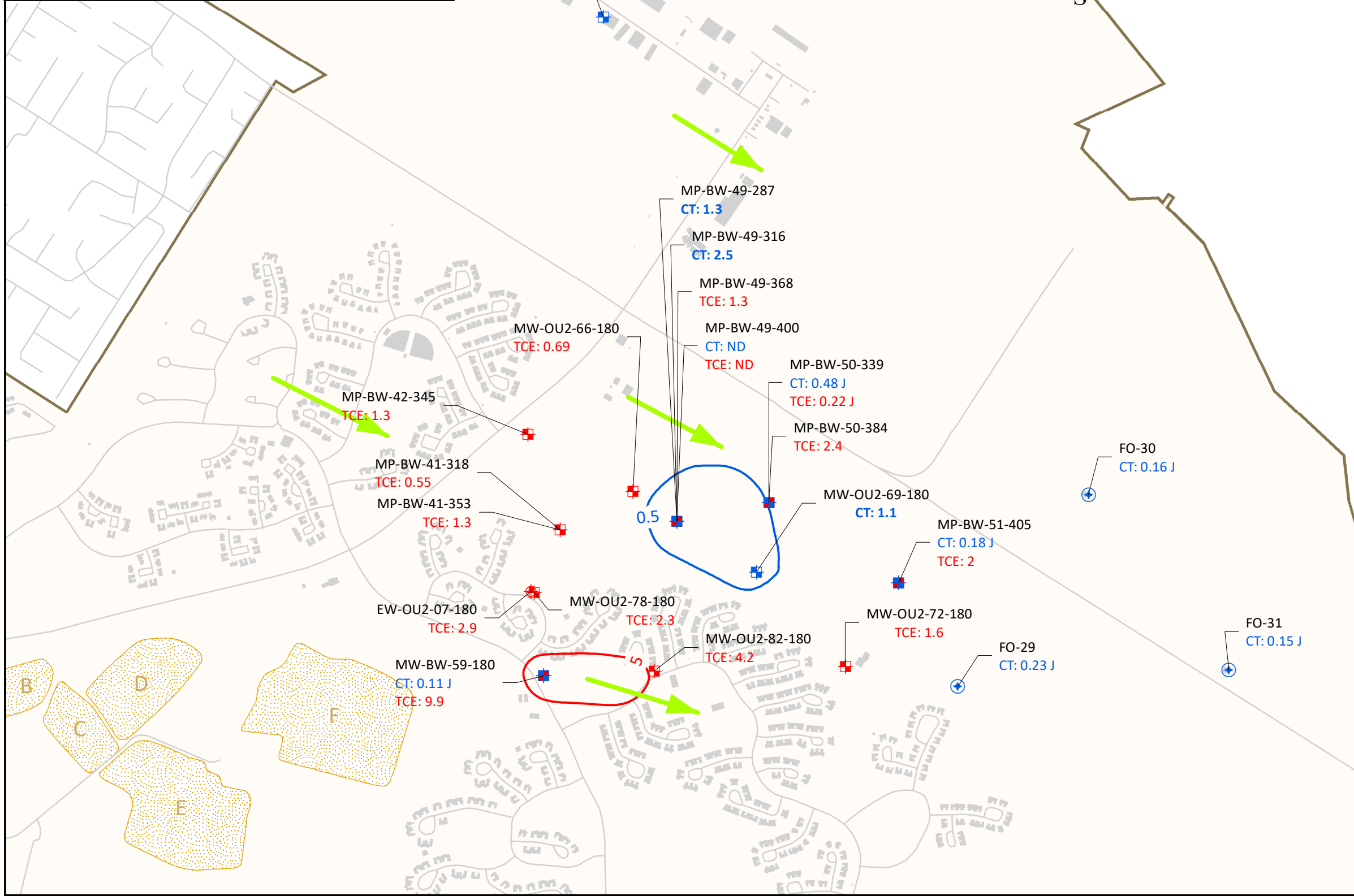
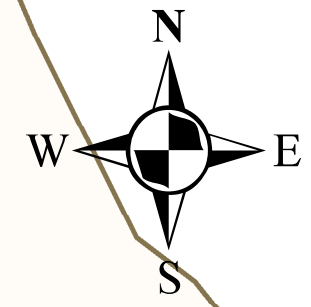
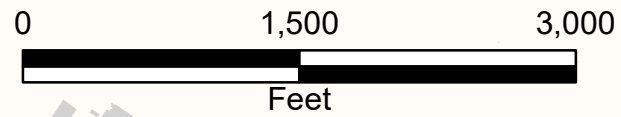
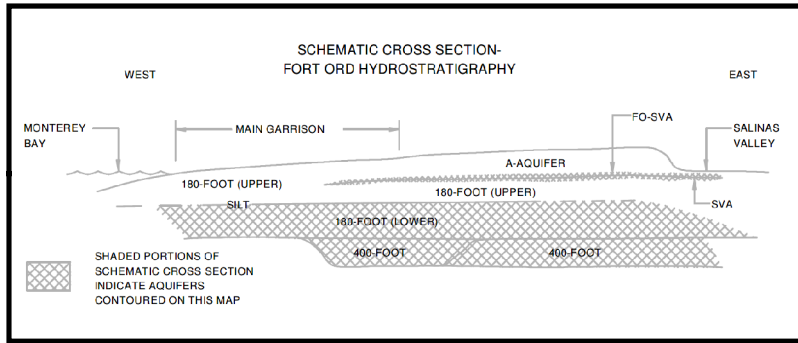
MP-BW-50-339 Well ID  
 CT: 0.59 Concentration in µg/L and validation/lab qualifier.  
 TCE: 0.17 J (blue indicates CT; red indicates TCE)  
 Bold when COC exceeds the ACL

Chemical of Concern (COC) Aquifer Cleanup Level (ACL)  
 Exceedance Contour in µg/L

- 0.5 Carbon Tetrachloride (CT)
- 5.0 Trichloroethane (TCE)
- General Groundwater Flow Direction
- Roads
- Facilities
- Approximate extent of landfill areas
- Former Fort Ord Boundary

**NOTES:**  
 (1) Samples were measured taken between December 2, 2019 and December 6, 2019.  
 (2) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.  
 (3) Contour based on highest value obtained from multiple bags and/or multiple ports where applicable.  
 (4) TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.

CT AND TCE CONCENTRATIONS  
 LOWER 180-FOOT/400-FOOT AQUIFERS  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Fourth Quarter 2019  
 Groundwater Monitoring Report  
 Former Fort Ord, California



**EXPLANATION**

- Extraction Well with TCE Detection and No CT Detection.
- Monitoring Well with CT Detection and No TCE Detection.
- Monitoring Well with TCE Detection and No CT Detection.
- Monitoring Well with CT and TCE Detection.
- Marina Coast Active Supply Wells with CT Detection.

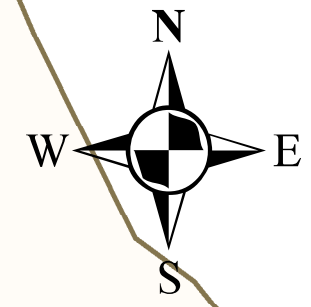
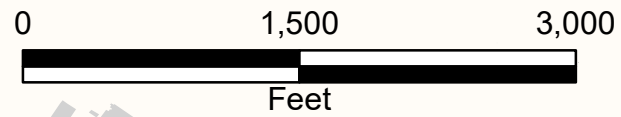
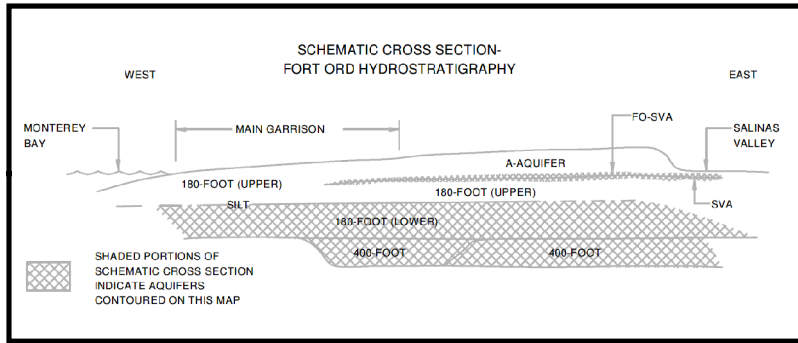
MP-BW-50-339 Well ID  
 CT: 0.48 J Concentration in µg/L and validation/lab qualifier.  
 TCE: 0.22 J (blue indicates CT; red indicates TCE)  
 Bold when COC exceeds the ACL.

Chemical of Concern (COC) Aquifer Cleanup Level (ACL)  
 Exceedance Contour in µg/L.

- 0.5 Carbon Tetrachloride (CT)
- 5.0 Trichloroethane (TCE)
- General Groundwater Flow Direction.
- Roads
- Facilities
- Approximate extent of landfill areas
- Former Fort Ord Boundary

**NOTES:**  
 (1) Groundwater samples were collected between March 2nd, 2020 and March 6th, 2020.  
 (2) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.  
 (3) Contour based on highest value obtained from multiple bags and/or multiple ports where applicable.  
 (4) TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.

CT AND TCE CONCENTRATIONS  
 LOWER 180-FOOT/400-FOOT AQUIFERS  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 First Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California



### EXPLANATION

- Extraction Well with TCE Detection and No CT Detection.
- Monitoring Well with CT Detection and No TCE Detection.
- Monitoring Well with TCE Detection and No CT Detection.
- Monitoring Well with CT and TCE Detection.
- Marina Coast Active Supply Wells with CT and TCE Detection.

Well ID  
 MP-BW-51-405  
 CT: 0.13 J  
 TCE: 1.7  
 Concentration in µg/L and validation/lab qualifier. (blue indicates CT; red indicates TCE)  
 CT Bold when COC exceeds the ACL.

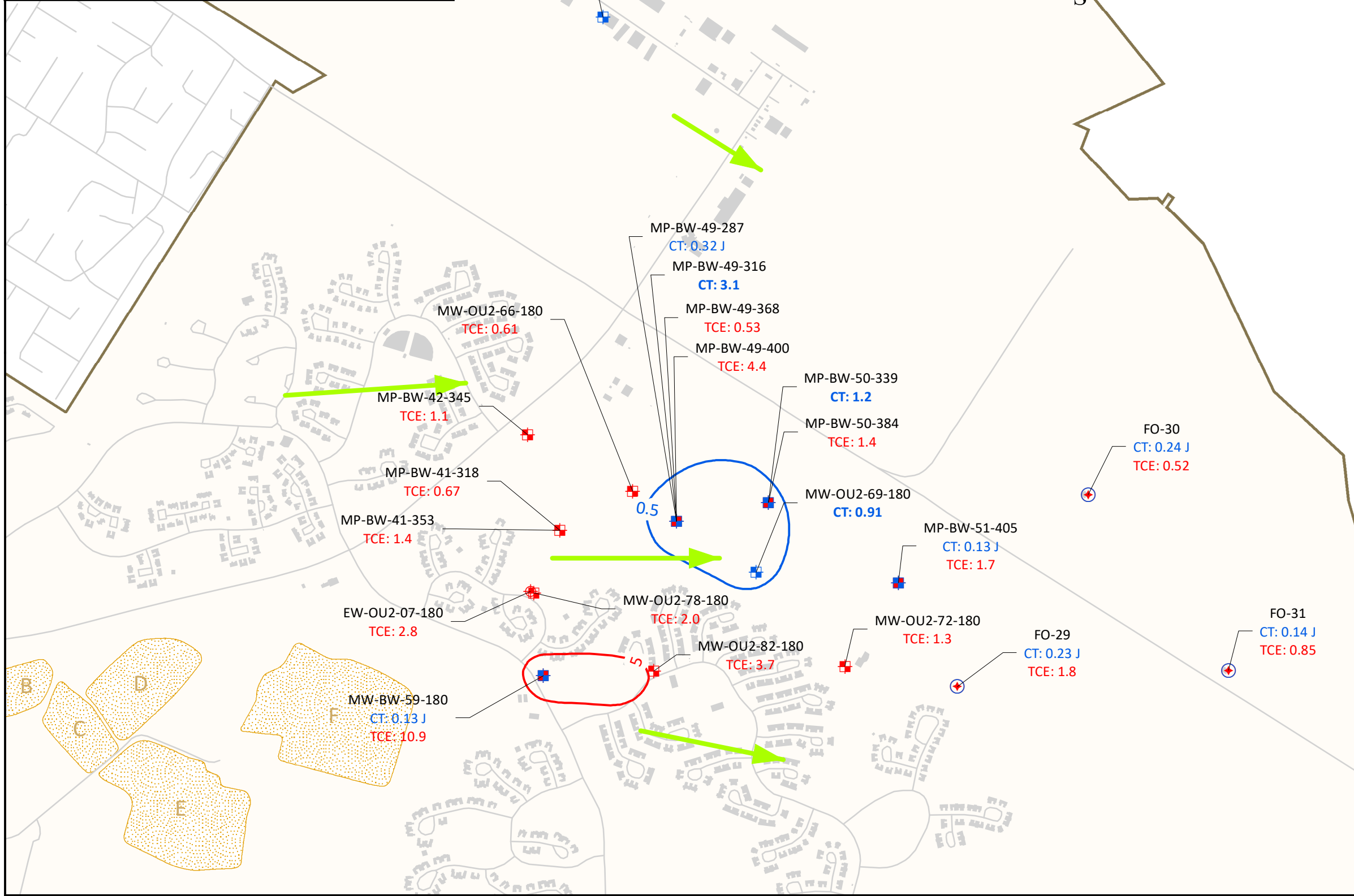
Chemical of Concern (COC) Aquifer Cleanup Level (ACL)  
 Exceedance Contour in µg/L.

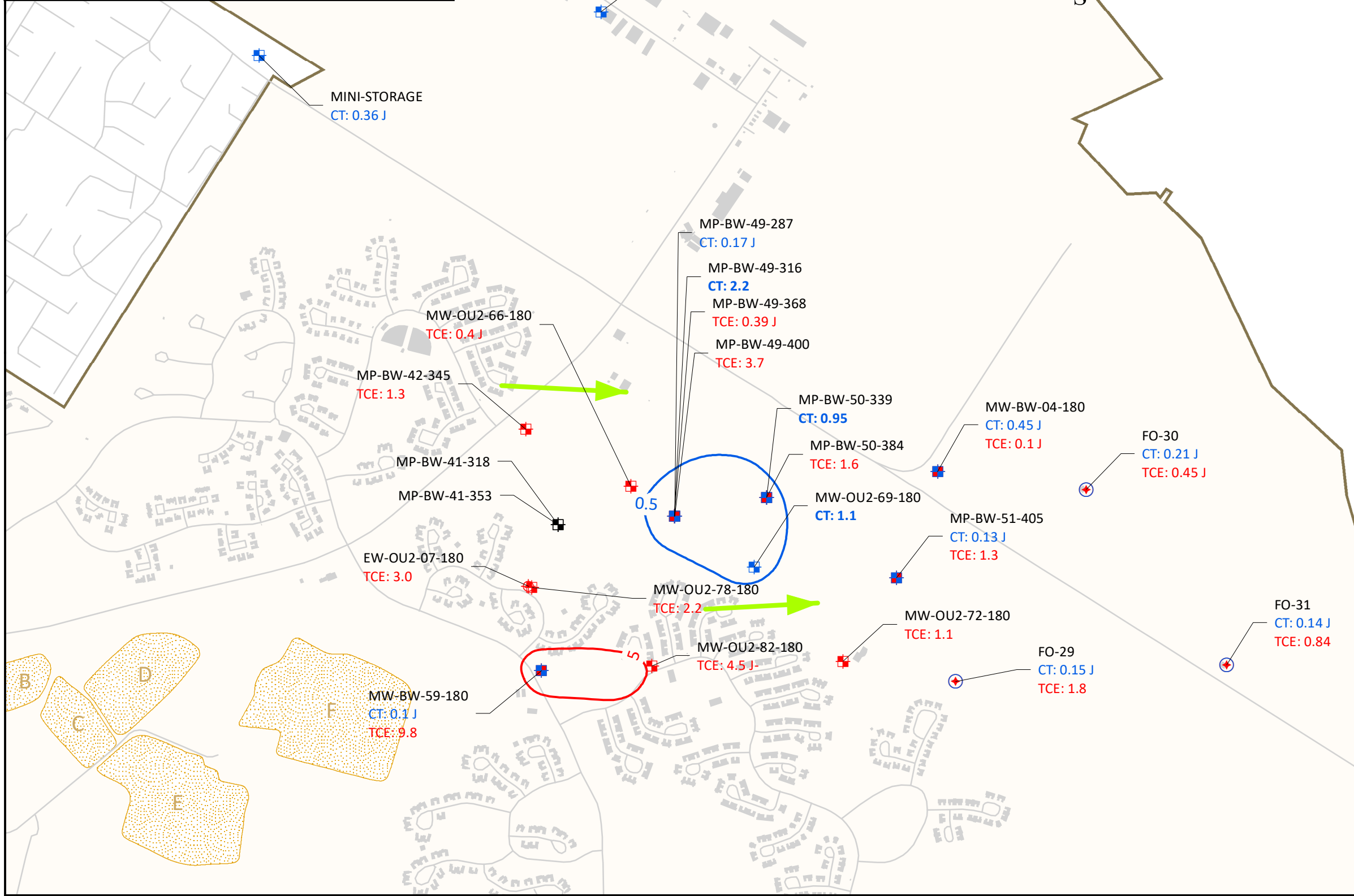
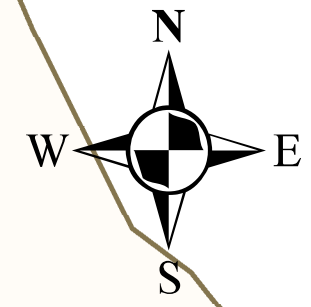
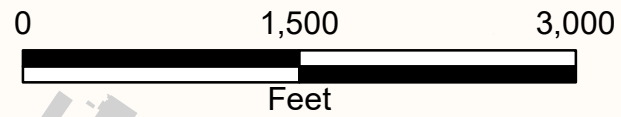
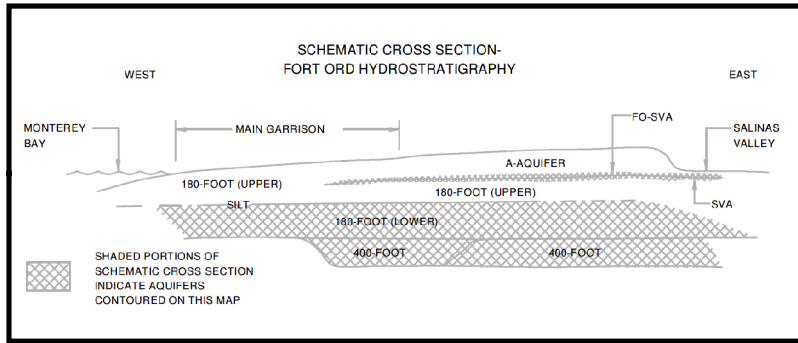
- 0.5 Carbon Tetrachloride (CT)
- 5.0 Trichloroethane (TCE)
- General Groundwater Flow Direction.
- Roads
- Facilities
- Approximate extent of landfill areas
- Former Fort Ord Boundary

**NOTES:**

- (1) Groundwater samples were collected between June 1st, 2020 and June 9th, 2020.
- (2) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
- (3) Contour based on highest value obtained from multiple bags and/or multiple ports where applicable.
- (4) TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.

CT AND TCE CONCENTRATIONS  
 LOWER 180-FOOT/400-FOOT AQUIFERS  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Second Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California





**EXPLANATION**

- Extraction Well with TCE Detection and No CT Detection.
- Monitoring Well with CT Detection and No TCE Detection.
- Monitoring Well with TCE Detection and No CT Detection.
- Monitoring Well with CT and TCE Detection.
- Monitoring Well with no CT or TCE Detection.
- Marina Coast Active Supply Wells with CT and TCE Detection.

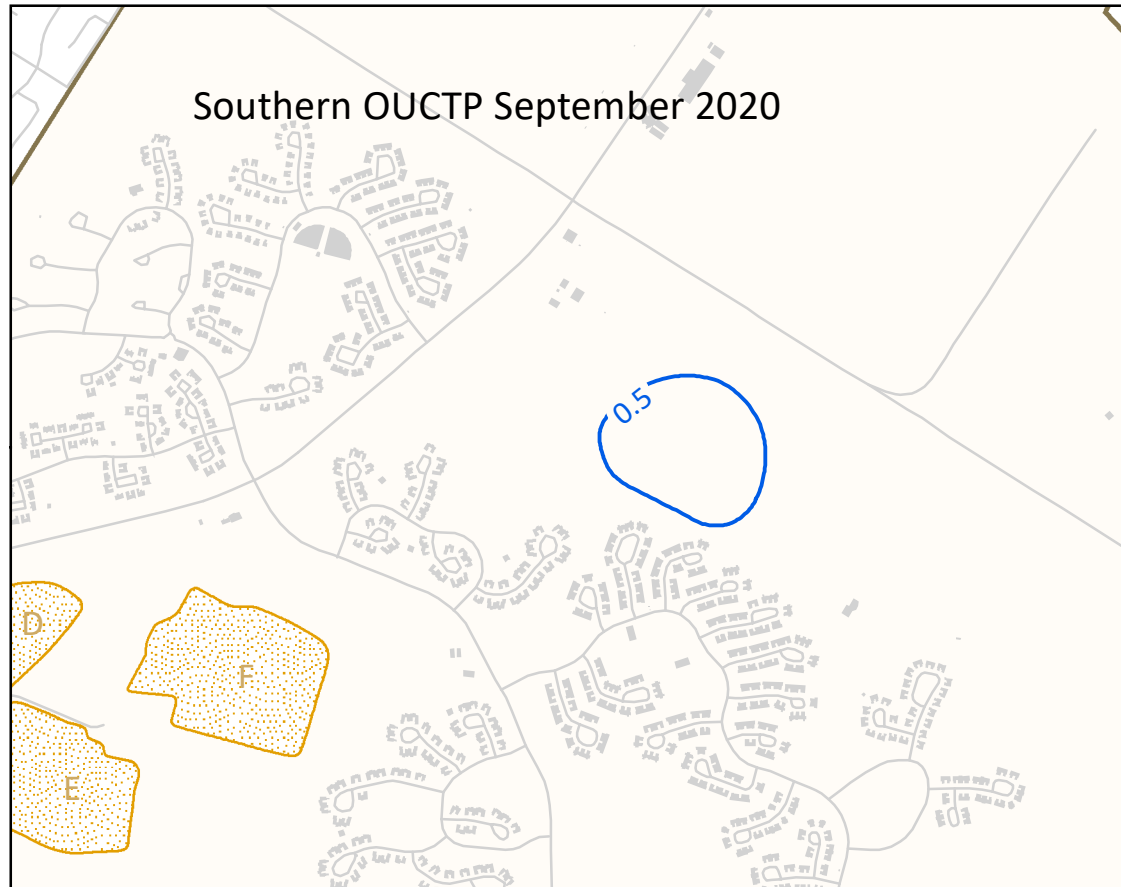
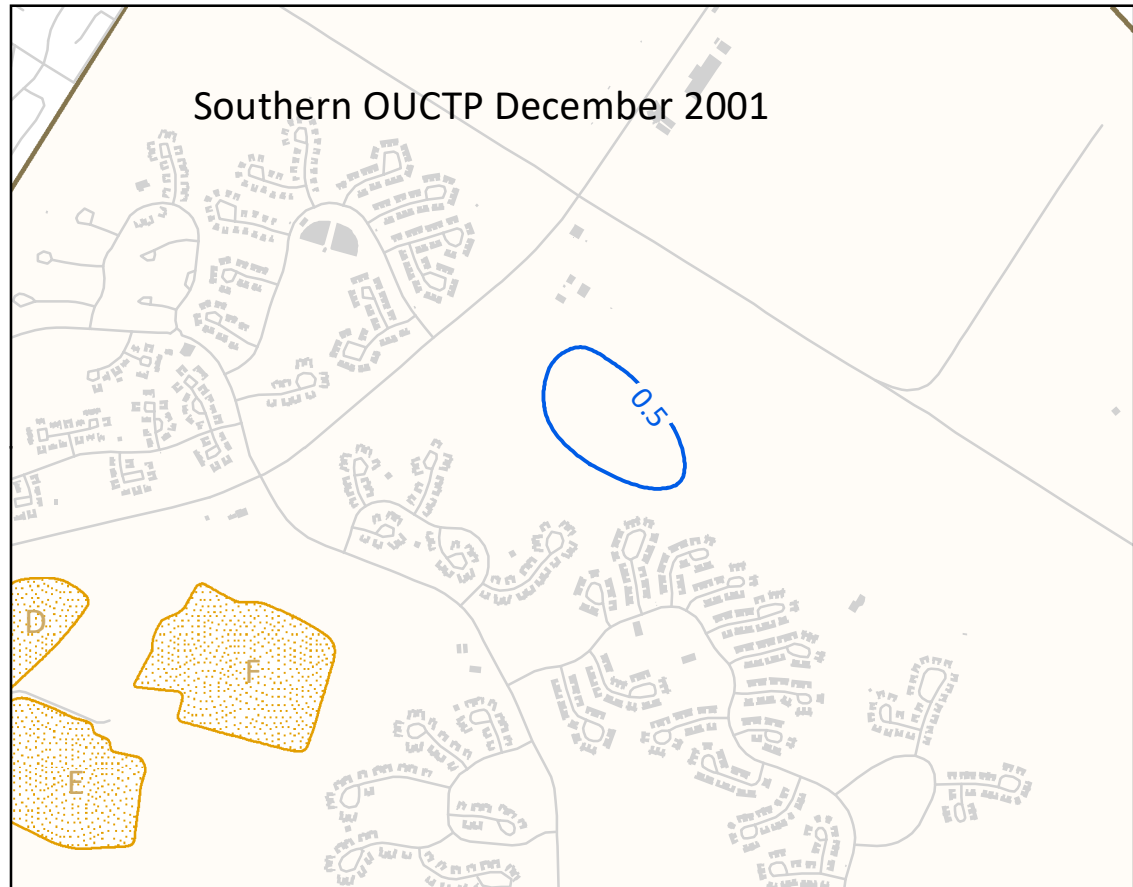
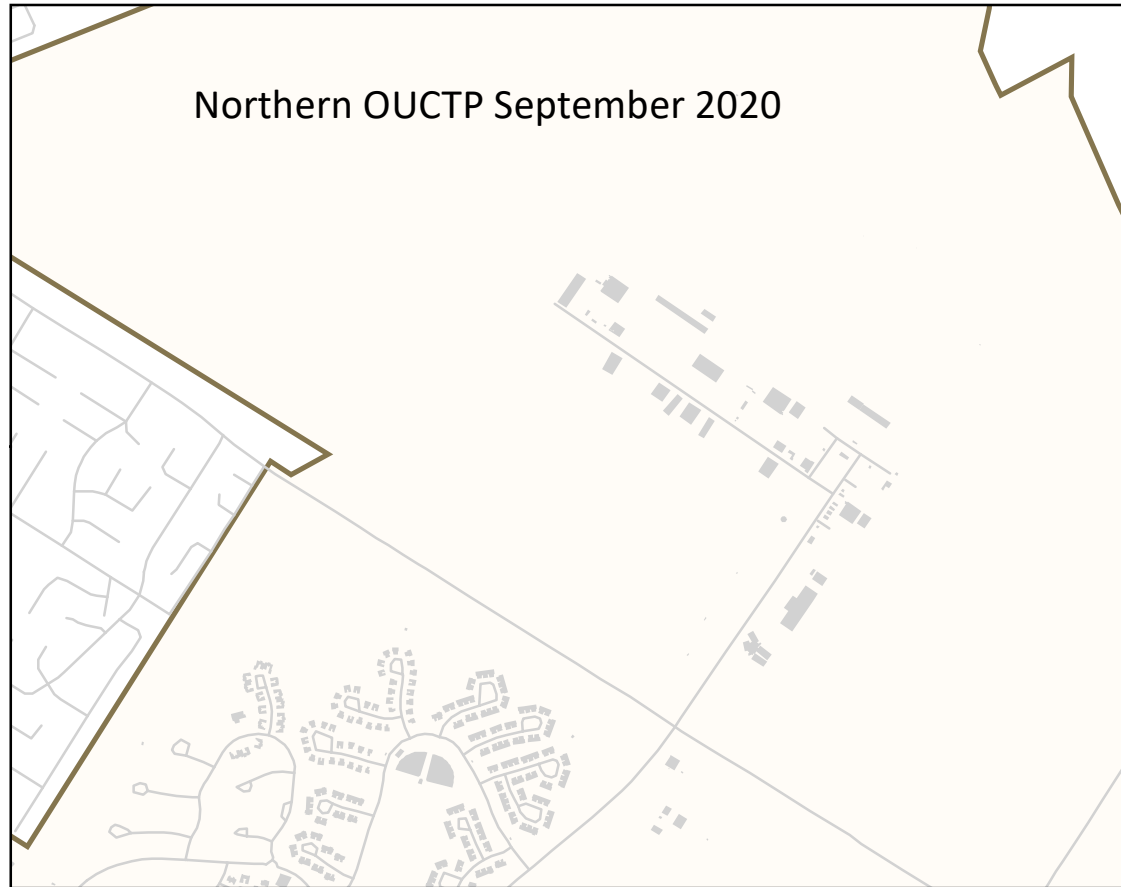
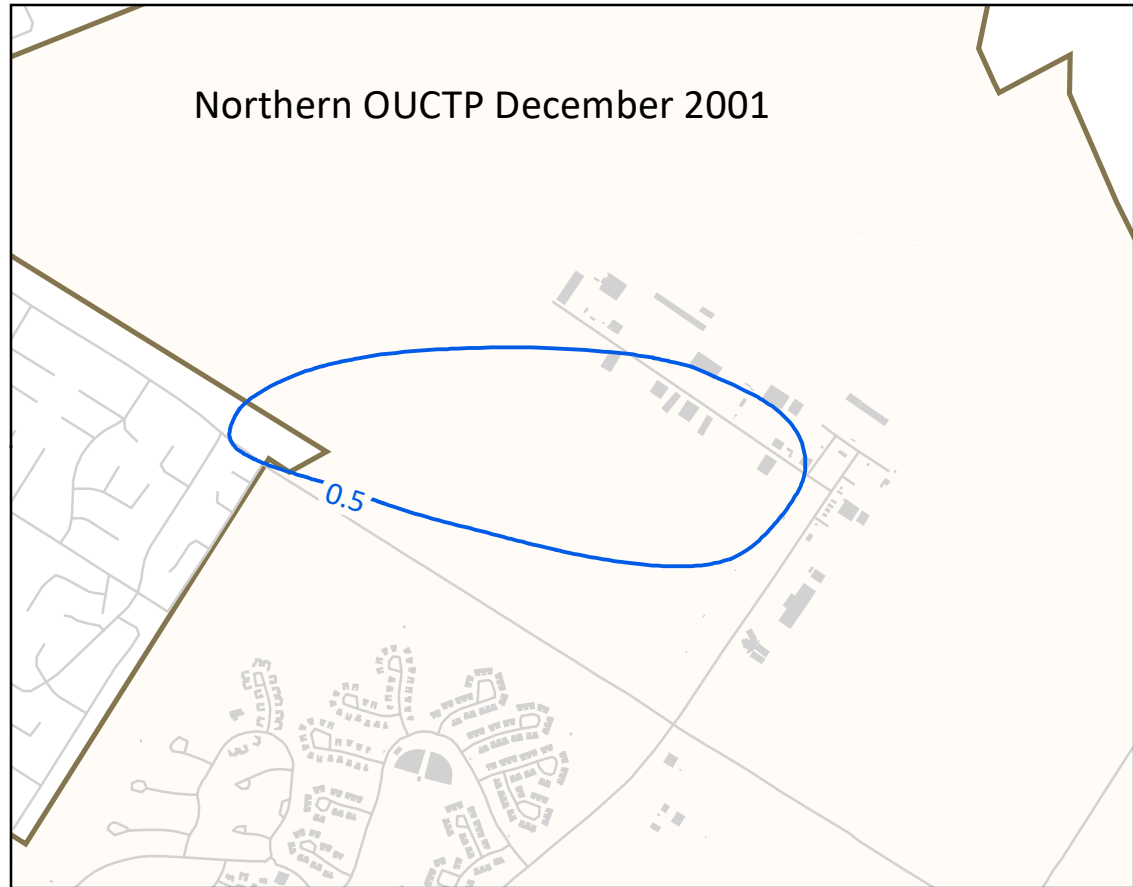
Well ID  
 MP-BW-51-405  
 CT: 0.13 J  
 TCE: 1.3  
 Concentration in µg/L and validation/lab qualifier. (blue indicates CT; red indicates TCE)  
 CT Bold when COC exceeds the ACL.

Chemical of Concern (COC) Aquifer Cleanup Level (ACL)  
 Exceedance Contour in µg/L.

- 0.5 Carbon Tetrachloride (CT)
- 5.0 Trichloroethane (TCE)
- General Groundwater Flow Direction.
- Roads
- Facilities
- Approximate extent of landfill areas
- Former Fort Ord Boundary

**NOTES:**  
 (1) Groundwater samples were collected between August 31st, 2020 and September 23rd, 2020.  
 (2) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.  
 (3) Contour based on highest value obtained from multiple bags and/or multiple ports where applicable.  
 (4) TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.

CT AND TCE CONCENTRATIONS  
 LOWER 180-FOOT/400-FOOT AQUIFERS  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California

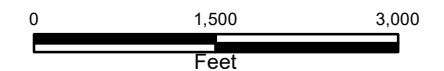
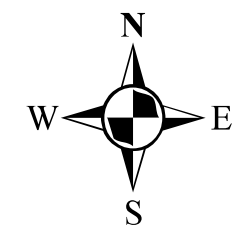
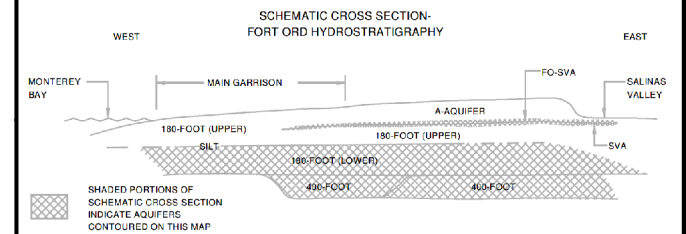


**EXPLANATION**

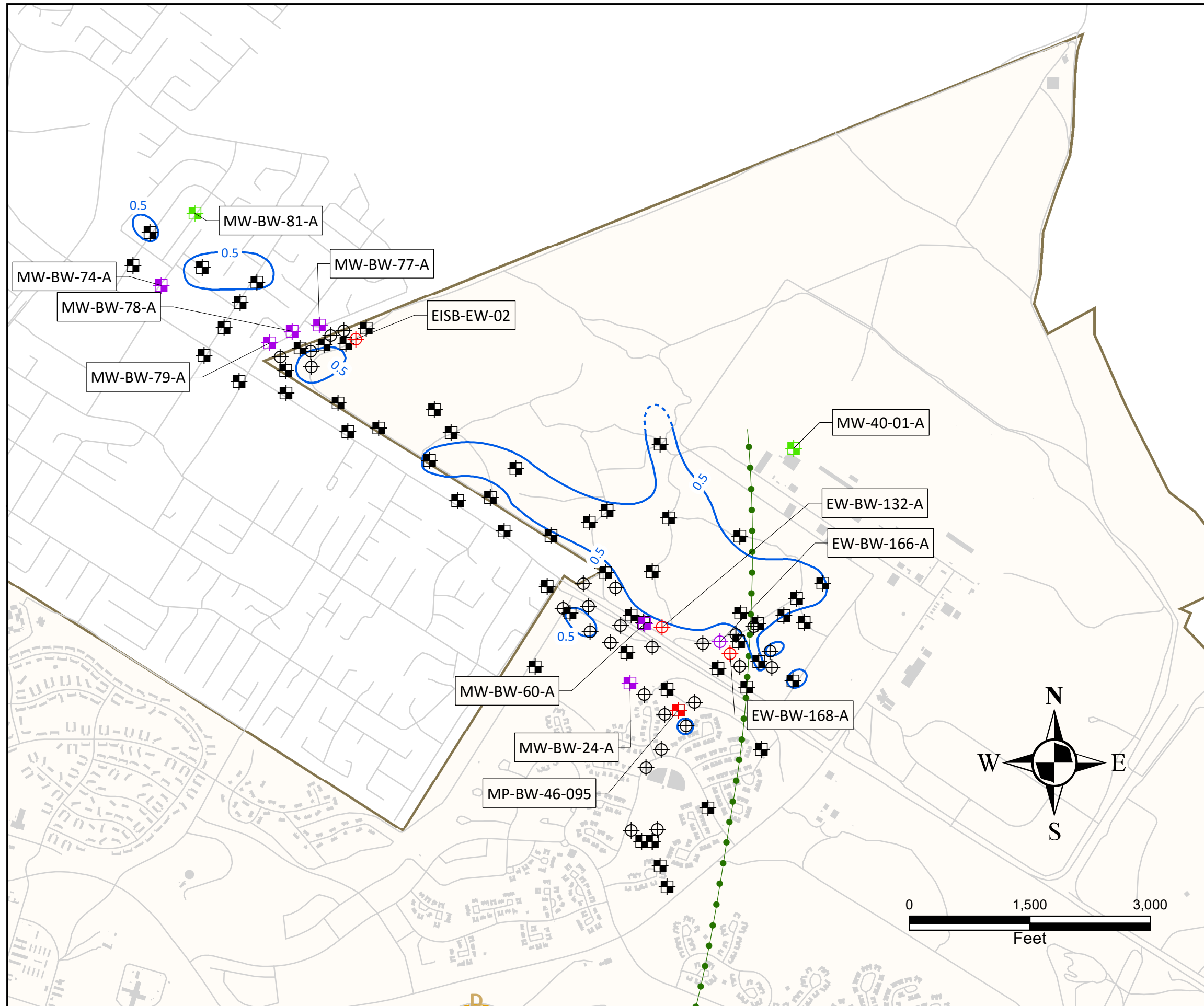
Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 — Carbon Tetrachloride (CT)
- Roads
- Facilities
- OU2 Landfill Areas B Through F
- Former Fort Ord Boundary

**NOTE:**  
 (1) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.



CURRENT AND HISTORICAL CT ACL EXCEEDANCE CONTOURS  
 OUCTP LOWER 180-FOOT AQUIFER  
 DECEMBER 2001 AND SEPTEMBER 2020  
 Operable Unit Carbon Tetrachloride Plume  
 Fourth Quarter 2019 - Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California



### EXPLANATION

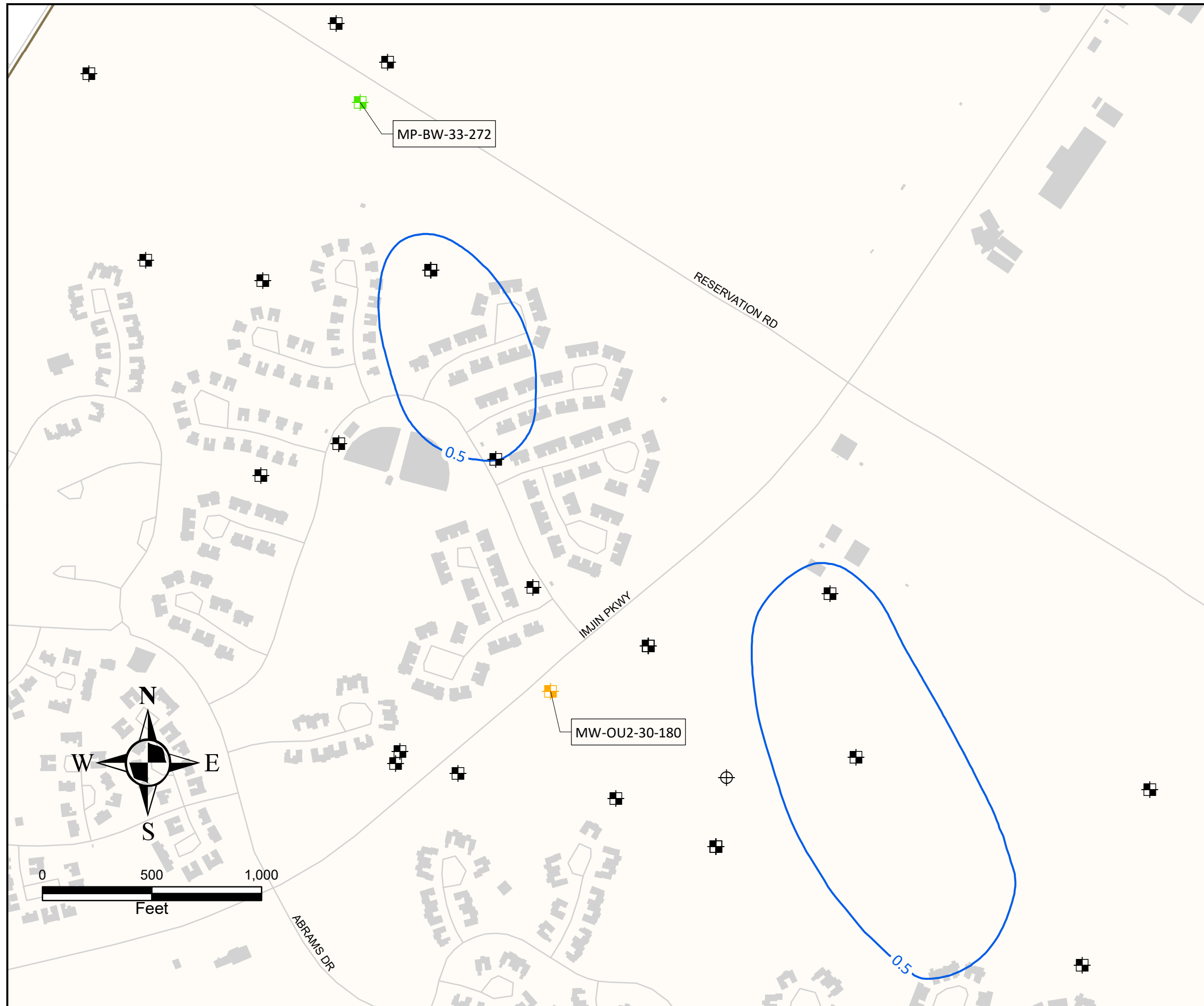
- Extraction Well: Change to Annual Sampling
- Monitoring Well: Change to Annual Sampling
- Extraction Well: Remove from Sampling
- Monitoring Well: Remove from Sampling
- Monitoring Well: Restart Quarterly Monitoring
- Extraction Well
- Monitoring Well

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Countour in  $\mu\text{g/L}$ .










- 0.5 — 3Q2020 Carbon Tetrachloride (CT) Plume Extent
- 0.5 - - - 3Q2020 Inferred Carbon Tetrachloride (CT) Plume Extent
- Approximate location of the A-Aquifer Groundwater Divide
- Former Fort Ord Boundary
- Approximate Extent of OU2 Landfill
- Facilities
- Roads

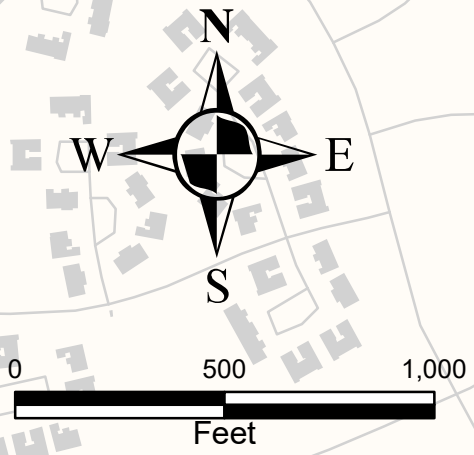
RECOMMENDED A-AQUIFER  
MONITORING WELL CHANGES  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Fourth Quarter 2019 - Third Quarter 2020  
Groundwater Monitoring Report  
Former Fort Ord, California

	Date: 2/5/2021	Figure: 35
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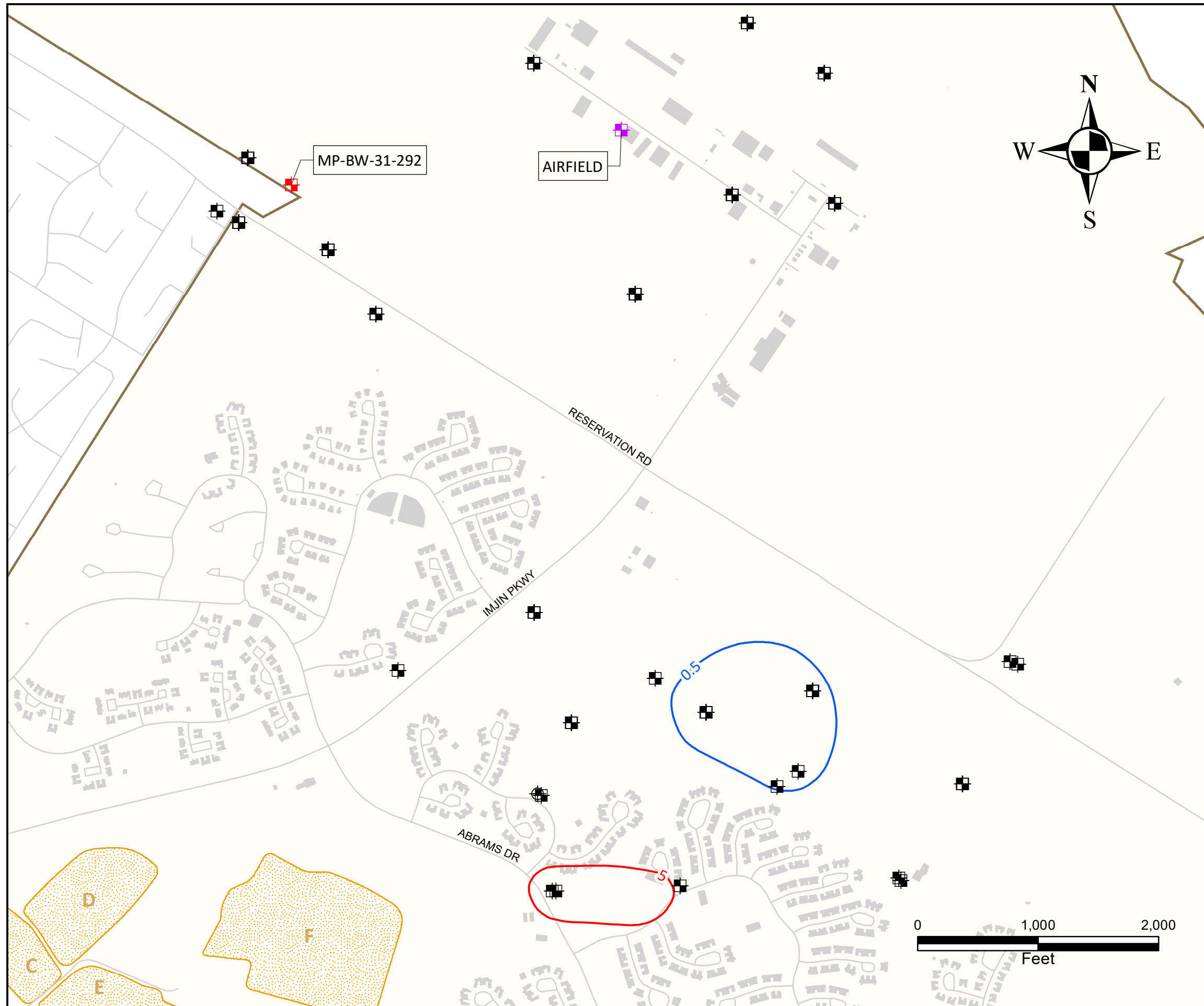
**EXPLANATION**

-  Monitoring Well: Move to OUCTP Upper 180-Foot Aquifer Report
  -  Monitoring Well: Recommend Restart Quarterly Monitoring
  -  Extraction Well
  -  Monitoring Well
- Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Countour in µg/L.
- 0.5  3Q2020 Carbon Tetrachloride (CT) Plume Extent
  -  Former Fort Ord Boundary
  -  Approximate Extent of OU2 Landfill
  -  Facilities
  -  Roads



RECOMMENDED UPPER 180-FOOT AQUIFER  
 MONITORING WELL CHANGES  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Fourth Quarter 2019 - Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California

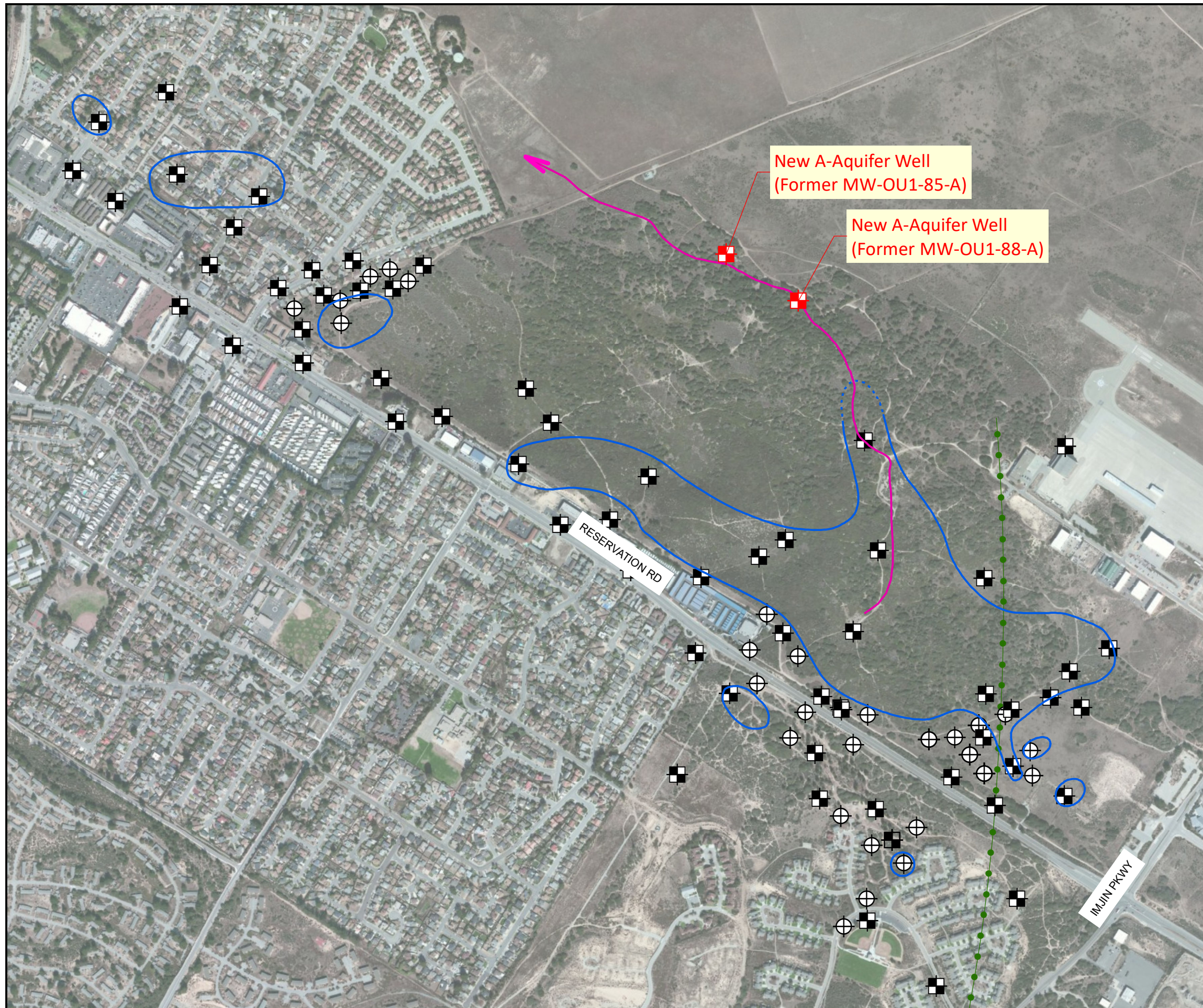











### EXPLANATION

- Monitoring Well: Change to Annual Sampling
  - Monitoring Well: Remove from Monitoring
  - ⊕ Extraction Well
  - Monitoring Well
- Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Countour in µg/L.
- 0.5 — 3Q2020 Carbon Tetrachloride (CT) Plume Extent
  - 5 — 3Q2020 Trichloroethene (TCE) Plume Extent
- Former Fort Ord Boundary
  - Approximate Extent of OU2 Landfill
  - Facilities
  - Roads

RECOMMENDED LOWER 180-FOOT AQUIFER  
 MONITORING WELL CHANGES  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Fourth Quarter 2019 - Third Quarter 2020  
 Groundwater Monitoring Report  
 Former Fort Ord, California

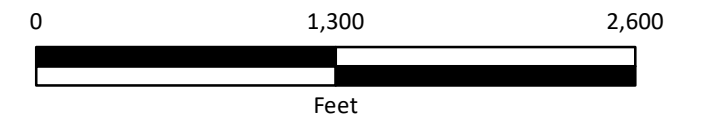
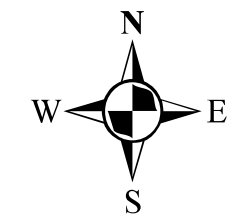


### Explanation

-  New A-Aquifer Well
-  OUCTP-A Extraction Well
-  OUCTP-A Monitoring Well
-  OU1 SVA Channel Low
-  0.5 3Q2020 Estimated Carbon Tetrachloride (CT) Plume Extent
-  0.5 3Q2020 Carbon Tetrachloride (CT) Plume Extent
-  Approximate location of the A-Aquifer Groundwater Divide

**NOTE:**





(1) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.




RECOMMENDED NEW A-AQUIFER WELLS  
 THIRD QUARTER 2020  
 Operable Unit Carbon Tetrachloride Plume  
 Fourth Quarter 2019 - Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California



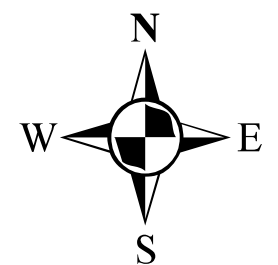
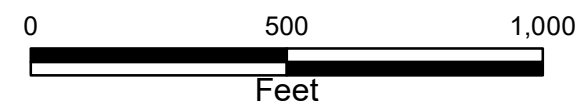
**EXPLANATION**

-  Existing OUCTP Upper 180-Footer Aquifer Monitoring Well
-  Existing OUCTP Lower 180-Footer Aquifer Monitoring Well
-  Existing OUCTP Upper 180-Footer Aquifer Extraction Well
-  New OUCTP Upper 180-Footer Aquifer Extraction Well

0.5  3Q2020 Carbon Tetrachloride (CT) Plume Extent

**NOTES:**

(1) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.



RECOMMENDED NEW UPPER 180-FOOT AQUIFER WELL  
 THIRD QUARTER 2020  
 Operable Unit Carbon Tetrachloride Plume  
 Fourth Quarter 2019 - Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

## **APPENDICES**

## **APPENDIX A**

### Validation Summary Reports

**Third Quarter 2020  
Groundwater Sample  
Cross Reference Table**

**Table A1. Third Quarter 2020 Groundwater Sample Cross Reference Table**

Station ID	Sample ID	Aquifer	Sample Date	Sample Type	COC Number	Package Lab ID
MW-BW-56-A	2036W0BW088F	OUCTP-A	8/31/2020	GWM	0108	FA78406-1
QC-TRIP-BLANK	2036W0BW086A	OUCTP-L	8/31/2020	QC	0107	FA78405-1
AIRFIELD	2036W0BW087F	OUCTP-L	8/31/2020	GWM	0107	FA78405-2
QC-FIELD-BLANK	2036W0BW089C	OUCTP-L	8/31/2020	QC	0107	FA78405-3
MW-BW-95-A	2036X0BW190F	OUCTP-A	9/1/2020	GWM	0118	FA78445-1
MW-BW-89-A	2036X0BW191F	OUCTP-A	9/1/2020	GWM	0118	FA78445-2
MW-BW-28-A	2036X0BW192F	OUCTP-A	9/1/2020	GWM	0118	FA78445-3
MW-BW-93-A	2036X0BW193F	OUCTP-A	9/1/2020	GWM	0118	FA78445-4
MW-BW-94-AR	2036X0BW194F	OUCTP-A	9/1/2020	GWM	0118	FA78445-5
MW-BW-90-A	2036X0BW195F	OUCTP-A	9/1/2020	GWM	0118	FA78445-6
MW-BW-86-A	2036X0BW196F	OUCTP-A	9/1/2020	GWM	0118	FA78445-7
MW-BW-58-A	2036X0BW197F	OUCTP-A	9/1/2020	GWM	0118	FA78445-8
EW-BW-166-A	2036X0BW198F	OUCTP-A	9/1/2020	GWM	0118	FA78445-9
EW-BW-166-A-DUP	2036X0BW199D	OUCTP-A	9/1/2020	DUP	0118	FA78445-10
EW-BW-168-A	2036X0BW200F	OUCTP-A	9/1/2020	GWM	0118	FA78445-11
EW-BW-169-A	2036X0BW201F	OUCTP-A	9/1/2020	GWM	0118	FA78445-12
MW-BW-91-A	2036X0BW202F	OUCTP-A	9/1/2020	GWM	0118	FA78445-13
EW-BW-150-A	2036X0BW203F	OUCTP-A	9/1/2020	GWM	0118	FA78445-14
MW-BW-43-A	2036X0BW204F	OUCTP-A	9/1/2020	GWM	0118	FA78445-15
MW-BW-42-A	2036X0BW205F	OUCTP-A	9/1/2020	GWM	0120	FA78445-16
MW-B-12-A	2036X0BW206F	OUCTP-A	9/1/2020	GWM	0120	FA78445-17
MW-BW-39-A	2036X0BW207F	OUCTP-A	9/1/2020	GWM	0120	FA78445-18
QC-FIELD-BLANK	2036X0BW208C	OUCTP-A	9/1/2020	QC	0120	FA78445-19
QC-TRIP-BLANK	2036X0BW209A	OUCTP-A	9/1/2020	QC	0120	FA78445-20
QC-TRIP-BLANK	2036W0BW090A	OUCTP-A	9/1/2020	QC	0129	FA78445-21
MW-BW-27-A	2036W0BW091F	OUCTP-A	9/1/2020	GWM	0129	FA78445-22
MW-BW-15-A	2036W0BW092F	OUCTP-A	9/1/2020	GWM	0129	FA78445-23
MW-BW-15-A-DUP	2036W0BW093D	OUCTP-A	9/1/2020	DUP	0129	FA78445-24
MP-BW-46-095	2036W0BW095F	OUCTP-A	9/1/2020	GWM	0129	FA78445-25
MP-BW-46-170	2036W0BW094F	OUCTP-U	9/1/2020	GWM	0130	FA78443-1
QC-FIELD-BLANK	2036W0BW096C	OUCTP-U	9/1/2020	QC	0130	FA78443-2
MW-BW-24-A	2036X0BW236F	OUCTP-A	9/3/2020	GWM	0138	FA78565-1
MW-BW-24-A-DUP	2036X0BW237D	OUCTP-A	9/3/2020	DUP	0138	FA78565-2
MW-BW-17-A	2036X0BW238F	OUCTP-A	9/3/2020	GWM	0138	FA78565-3
EW-BW-124-A	2036X0BW239F	OUCTP-A	9/3/2020	GWM	0138	FA78565-4
EW-BW-135-A	2036X0BW240F	OUCTP-A	9/3/2020	GWM	0138	FA78565-5
EW-BW-140-A	2036X0BW242F	OUCTP-A	9/3/2020	GWM	0138	FA78565-6
MW-BW-26-A	2036X0BW243F	OUCTP-A	9/3/2020	GWM	0138	FA78565-7
EW-BW-129-A	2036X0BW245F	OUCTP-A	9/3/2020	GWM	0138	FA78565-8
MW-BW-77-A	2036X0BW247F	OUCTP-A	9/3/2020	GWM	0138	FA78565-9
MW-BW-77-A	2036X0BW248F	OUCTP-A	9/3/2020	GWM	0138	FA78565-10
MW-BW-78-A	2036X0BW249F	OUCTP-A	9/3/2020	GWM	0138	FA78565-11

**Table A1. Third Quarter 2020 Groundwater Sample Cross Reference Table**

Station ID	Sample ID	Aquifer	Sample Date	Sample Type	COC Number	Package Lab ID
MW-BW-78-A	2036X0BW250F	OUCTP-A	9/3/2020	GWM	0138	FA78565-12
MW-BW-79-A	2036X0BW251F	OUCTP-A	9/3/2020	GWM	0138	FA78565-13
MW-BW-48-A	2036X0BW252F	OUCTP-A	9/3/2020	GWM	0138	FA78565-14
MW-BW-49-A	2036X0BW253F	OUCTP-A	9/4/2020	GWM	0142	FA78565-15
MW-BW-65-A	2036X0BW254F	OUCTP-A	9/4/2020	GWM	0142	FA78565-16
MW-BW-65-A-DUP	2036X0BW255D	OUCTP-A	9/4/2020	DUP	0142	FA78565-17
MW-BW-80-A	2036X0BW256F	OUCTP-A	9/4/2020	GWM	0142	FA78565-18
MW-BW-80-A-DUP	2036X0BW257D	OUCTP-A	9/4/2020	DUP	0142	FA78565-19
MW-BW-83-A	2036X0BW258F	OUCTP-A	9/4/2020	GWM	0142	FA78565-20
MW-BW-83-A	2036X0BW259F	OUCTP-A	9/4/2020	GWM	0142	FA78565-21
MW-BW-82-A	2036X0BW260F	OUCTP-A	9/4/2020	GWM	0142	FA78565-22
MW-BW-75-A	2036X0BW261F	OUCTP-A	9/4/2020	GWM	0142	FA78565-23
MW-BW-74-A	2036X0BW262F	OUCTP-A	9/4/2020	GWM	0142	FA78565-24
MW-BW-74-A	2036X0BW263F	OUCTP-A	9/4/2020	GWM	0142	FA78565-25
QC-TRIP-BLANK	2036X0BW264A	OUCTP-A	9/4/2020	QC	0142	FA78565-26
QC-FIELD-BLANK	2036X0BW265C	OUCTP-A	9/4/2020	QC	0142	FA78565-27
FO-30	2036Z0BW229F	OUCTP-L	9/3/2020	GWM	0141	FA78571-1
FO-31	2036Z0BW230F	OUCTP-L	9/3/2020	GWM	0141	FA78571-2
FO-31-DUP	2036Z0BW231D	OUCTP-L	9/3/2020	DUP	0141	FA78571-3
FO-29	2036Z0BW232F	OUCTP-L	9/3/2020	GWM	0141	FA78571-4
MINI-STORAGE	2036Z0BW233F	OUCTP-L	9/3/2020	GWM	0141	FA78571-5
QC-TRIP-BLANK	2036Z0BW234A	OUCTP-L	9/3/2020	QC	0141	FA78571-6
QC-TRIP-BLANK	2036W0BW097A	OUCTP-L	9/3/2020	QC	0131	FA78571-7
MP-BW-50-384	2036W0BW098F	OUCTP-L	9/3/2020	GWM	0131	FA78571-8
MP-BW-50-339	2036W0BW099F	OUCTP-L	9/3/2020	GWM	0131	FA78571-9
MW-OU2-72-180	2036W0BW102F	OUCTP-L	9/3/2020	GWM	0131	FA78571-10
MP-BW-51-405	2036W0BW103F	OUCTP-L	9/3/2020	GWM	0131	FA78571-11
MP-BW-49-400	2036W0BW104F	OUCTP-L	9/3/2020	GWM	0131	FA78571-12
MP-BW-49-400-DUP	2036W0BW105D	OUCTP-L	9/3/2020	DUP	0131	FA78571-13
MP-BW-49-368	2036W0BW106F	OUCTP-L	9/3/2020	GWM	0131	FA78571-14
MP-BW-49-316	2036W0BW107F	OUCTP-L	9/3/2020	GWM	0131	FA78571-15
MP-BW-49-316-DUP	2036W0BW108D	OUCTP-L	9/3/2020	DUP	0131	FA78571-16
MP-BW-49-287	2036W0BW109F	OUCTP-L	9/3/2020	GWM	0131	FA78571-17
QC-FIELD-BLANK	2036W0BW110C	OUCTP-L	9/3/2020	QC	0131	FA78571-18
MW-BW-59-180	2036Y0BW415F	OUCTP-L	9/2/2020	GWM	0126	FA78571-19
MW-BW-59-180-DUP	2036Y0BW416D	OUCTP-L	9/2/2020	DUP	0126	FA78571-20
MW-OU2-78-180	2036YOU2421F	OUCTP-L	9/2/2020	GWM	0126	FA78571-21
EW-OU2-07-180	2036YOU2422F	OUCTP-L	9/2/2020	GWM	0126	FA78571-22
MW-BW-35-A	2036X0BW210F	OUCTP-A	9/2/2020	GWM	0134	FA78573-1
MW-BW-36-A	2036X0BW211F	OUCTP-A	9/2/2020	GWM	0134	FA78573-2
QC-TRIP-BLANK	2036X0BW212A	OUCTP-A	9/2/2020	QC	0134	FA78573-3
QC-FIELD-BLANK	2036X0BW213C	OUCTP-A	9/2/2020	QC	0134	FA78573-4



**Table A1. Third Quarter 2020 Groundwater Sample Cross Reference Table**

Station ID	Sample ID	Aquifer	Sample Date	Sample Type	COC Number	Package Lab ID
MW-BW-31-A	2036X0BW214F	OUCTP-A	9/2/2020	GWM	0134	FA78573-5
MW-BW-31-A-DUP	2036X0BW215D	OUCTP-A	9/2/2020	DUP	0134	FA78573-6
MW-BW-32-A	2036X0BW216F	OUCTP-A	9/2/2020	GWM	0134	FA78573-7
MW-BW-92-A	2036X0BW217F	OUCTP-A	9/2/2020	GWM	0134	FA78573-8
MW-BW-92-A-DUP	2036X0BW218D	OUCTP-A	9/2/2020	DUP	0134	FA78573-9
EW-BW-155-A	2036X0BW219F	OUCTP-A	9/2/2020	GWM	0134	FA78573-10
EW-BW-149-A	2036X0BW220F	OUCTP-A	9/2/2020	GWM	0134	FA78573-11
MW-B-14-A	2036X00B221F	OUCTP-A	9/2/2020	GWM	0134	FA78573-12
MW-BW-60-A	2036X0BW222F	OUCTP-A	9/2/2020	GWM	0134	FA78573-13
EW-BW-132-A	2036X0BW223F	OUCTP-A	9/2/2020	GWM	0134	FA78573-14
EW-BW-167-A	2036X0BW225F	OUCTP-A	9/2/2020	GWM	0134	FA78573-15
EW-BW-119-A	2036X0BW229F	OUCTP-A	9/2/2020	GWM	0136	FA78573-16
EW-BW-112-A	2036X0BW230F	OUCTP-A	9/2/2020	GWM	0136	FA78573-17
EW-BW-109-A	2036X0BW231F	OUCTP-A	9/2/2020	GWM	0136	FA78573-18
MW-BW-58-180	2036W0BW100F	OUCTP-U	9/2/2020	GWM	0132	FA78570-1
MW-BW-57-180	2036W0BW101F	OUCTP-U	9/2/2020	GWM	0132	FA78570-2
MW-BW-21-180	2036X0BW224F	OUCTP-U	9/2/2020	GWM	0135	FA78570-3
MW-BW-52-180	2036X0BW226F	OUCTP-U	9/2/2020	GWM	0135	FA78570-4
MW-BW-52-180-DUP	2036X0BW227D	OUCTP-U	9/2/2020	DUP	0135	FA78570-5
MP-BW-41-231	2036W0BW116F	OUCTP-U	9/3/2020	GWM	0149	FA78564-1
QC-EQUIPMENT-BLANK	2036W0BW117B	OUCTP-U	9/3/2020	QC	0149	FA78564-2
MW-OU2-64-180	2036WOU2118F	OUCTP-U	9/3/2020	GWM	0149	FA78564-3
MW-OU2-67-180	2036WOU2121F	OUCTP-U	9/3/2020	GWM	0149	FA78564-4
QC-FIELD-BLANK	2036W0BW122C	OUCTP-U	9/3/2020	QC	0149	FA78564-5
MW-BW-43-180	2036X0BW244F	OUCTP-U	9/3/2020	GWM	0121	FA78564-6
QC-TRIP-BLANK	2036W0BW111A	OUCTP-L	9/3/2020	QC	0133	FA78559-1
MP-BW-42-345	2036W0BW112F	OUCTP-L	9/3/2020	GWM	0133	FA78559-2
MP-BW-42-345-DUP	2036W0BW113D	OUCTP-L	9/3/2020	DUP	0133	FA78559-3
MP-BW-41-353	2036W0BW114F	OUCTP-L	9/3/2020	GWM	0133	FA78559-4
MP-BW-41-318	2036W0BW115F	OUCTP-L	9/3/2020	GWM	0133	FA78559-5
MW-OU2-66-180	2036WOU2119F	OUCTP-L	9/3/2020	GWM	0133	FA78559-6
MW-OU2-69-180	2036WOU2120F	OUCTP-L	9/3/2020	GWM	0133	FA78559-7
MW-OU2-82-180	2036YOU2424F	OUCTP-L	9/3/2020	GWM	0113	FA78559-8
QC-FIELD-BLANK	2036YOU2447C	OUCTP-L	9/3/2020	QC	0113	FA78559-9
MW-BW-04-180	2036X0BW235F	OUCTP-L	9/3/2020	GWM	0139	FA78559-10
EISB-EW-01	2039XOU2266F	OUCTP-A	9/23/2020	GWM	0152	FA79149-1
EISB-EW-02	2039XOU2267F	OUCTP-A	9/23/2020	GWM	0152	FA79149-2
MW-BW-66-A	2039X0BW268F	OUCTP-A	9/23/2020	GWM	0152	FA79149-3
EISB-MW-01	2039XOU2269F	OUCTP-A	9/23/2020	GWM	0152	FA79149-4
EISB-EW-09	2039XOU2270F	OUCTP-A	9/23/2020	GWM	0152	FA79149-5
EISB-EW-09-DUP	2039XOU2271D	OUCTP-A	9/23/2020	DUP	0152	FA79149-6
MW-BW-44-A	2039X0BW272F	OUCTP-A	9/23/2020	GWM	0152	FA79149-7

**Table A1. Third Quarter 2020 Groundwater Sample Cross Reference Table**

Station ID	Sample ID	Aquifer	Sample Date	Sample Type	COC Number	Package Lab ID
EW-BW-165-A	2039X0BW273F	OUCTP-A	9/23/2020	GWM	0152	FA79149-8
MW-BW-88-A	2039X0BW274F	OUCTP-A	9/23/2020	GWM	0152	FA79149-9
MW-BW-87-A	2039X0BW275F	OUCTP-A	9/23/2020	GWM	0152	FA79149-10
EW-BW-160-A	2039X0BW276F	OUCTP-A	9/23/2020	GWM	0152	FA79149-11
MW-BW-85-A	2039X0BW277F	OUCTP-A	9/23/2020	GWM	0152	FA79149-12
EW-BW-144-A	2039X0BW278F	OUCTP-A	9/23/2020	GWM	0152	FA79149-13
EW-BW-144-A	2039X0BW279F	OUCTP-A	9/23/2020	GWM	0152	FA79149-14
EW-BW-144-A	2039X0BW280F	OUCTP-A	9/23/2020	GWM	0152	FA79149-15
MW-BW-30-A	2039X0BW281F	OUCTP-A	9/23/2020	GWM	0155	FA79149-16
MW-OU2-70-180	2039YOU2454F	OUCTP-U	9/23/2020	GWM	0154	FA79153-1
Sample Counts						
Number Primary GWM Samples:				105		
Number Duplicate Samples:				14		
Percent Duplicate:				13%		
Number QC Field/Trip Blanks:				17		

**Notes:**

COC: chain of custody

DUP: duplicate sample

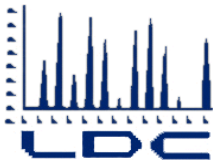
EW: extraction well sample

GWM: groundwater monitoring sample

ID: identification

QC: quality control sample (trip blank or field blank)

**Third Quarter 2020  
Groundwater Laboratory Data  
Validation Summary Reports (VSRs)**



## LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Ahtna Global, LLC.  
9699 Blue Larkspur Lane, Suite 201  
Monterey, CA 93940  
ATTN: Mr. Eric A. Schmidt  
[Eschmidt@ahtna.net](mailto:Eschmidt@ahtna.net)

October 20, 2020

SUBJECT: Fort Ord, OUCTP-A, Data Validation

Dear Mr. Schmidt,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on September 29, 2020. Attachment 1 is a summary of the samples that were reviewed for each analysis.

### LDC Project #49259:

<u>SDG #</u>	<u>Fraction</u>
FA78406, FA78445 FA78565, FA78573	Volatiles

The data validation was performed under Stage 2B & 4 guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California; Revision 7, August 2019
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, Version 5.1; 2017
- USACE Guidance for Evaluating Performance-Based Chemical Data; June 2005
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng  
[Pgeng@lab-data.com](mailto:Pgeng@lab-data.com)  
Project Manager/Senior Chemist



**Data Validation Report  
Fort Ord, OUCTP - A**

**SDGs: FA78406, FA78445, FA78565, and FA78573**

Prepared for

**Ahtna Environmental Inc.**  
296 12th Street  
Marina, California 93933-6001

Prepared by

**Laboratory Data Consultants, Inc**  
2701 Loker Ave West, Suite 220  
Carlsbad, CA 92010

October 19, 2020

## INTRODUCTION

This Data Validation Report (DVR) presents Stage 2B and 4 data validation results for samples collected during the August through September 2020 sampling period. Data validation was performed in accordance with the Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California (Revision 7, August 2019), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and the USACE Guidance for Evaluating Performance-Based Chemical Data (June 2005). Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260B in Selection Ion Monitoring (SIM) mode

The sample identification and method of analyses performed on each sample is presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Stage 2B Automated Data Review outliers are presented in Enclosure I. DVRs for samples on which Stage 4 validation was performed are presented in Enclosure II.

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results for sample holding times, initial and continuing calibrations, surrogates, matrix spike/matrix spike duplicates (MS/MSD), internal standards, laboratory control sample (LCS), laboratory blanks, trip blanks, equipment blanks, and field duplicates. Approximately 10 percent of samples were subjected to Stage 4 evaluation as indicated in Attachment 1, which comprises a review of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

Automated data review was performed on all QC summary results using the Automated Data Review (ADR) software program (LDC, 2013) with the exception of the calibrations and internal standards, which were validated manually. Quality assurance (QA)/QC criteria specified in the QAPP, DoD QSM, and EM-200-1-10 were incorporated with the program's reference library to assess compliance with project requirements.

The following are definitions of the data qualifiers utilized during data validation:

- J+ (Estimated, High Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying high bias, due to non-conformances discovered during data validation.
- J- (Estimated, Low Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying low bias, due to non-conformances discovered during data validation.
- J (Estimated, Bias Indeterminate): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation. Bias is indeterminate.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.



## I. Sample Receipt & Technical Holding Times

All samples were received in good condition with the following exceptions:

SDG/ Method	Sample	Compound	Finding	Criteria	Flag	A or P
FA78565/ 8260B-SIM	2036X0BW240F	All compounds	A headspace was apparent in the sample containers.	There should be no headspace in the sample containers.	J- (all detects) UJ (all non-detects)	A

Cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## II. Instrument Performance Check

Instrument performance was checked at the frequency required by the method.

All criteria for the instrument performance check were met.

## III. Initial Calibration and Initial Calibration Verification

All criteria for the initial calibration and initial calibration verifications of the method were met.

## IV. Continuing Calibration

All criteria for the continuing calibration verifications of the method were met.

## V. Laboratory Blanks

Laboratory blanks were performed as required by the method. No contaminant concentrations were detected in the laboratory blanks reviewed by the ADR software program with the exception of one blank for methylene chloride. The associated sample results were not detected or were significantly greater than the concentrations found in the blanks, therefore no data were qualified. The details are presented in Enclosure I.

## VI. Field Blanks

Four trip blanks were collected and analyzed for VOCs. No contaminants were found.

Three field blanks were collected and analyzed for VOCs. No contaminants were found.

## VII. Surrogates

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the exception of several sample for VOCs. The associated sample results were qualified as detected estimated (J-/J+) or non-detected estimated (UJ) as applicable. No data were qualified due to high %Rs when the associated sample results were non-detected. The details regarding the qualification of data are provided in Enclosure I.

## **VIII. Matrix Spike/Matrix Spike Duplicates**

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## **IX. Laboratory Control Samples**

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

## **X. Field Duplicates**

Seven field duplicate pairs were collected and analyzed for VOCs. All RPDs were within QC limits. The field duplicate result comparisons are provided in Enclosure I.

## **XI. Internal Standards**

All internal standard areas and retention times were within QC limits.

## **XII. Compound Quantitation**

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

All compounds reported below the limit of quantitation (LOQ) as detected by the laboratory were qualified as detected estimated (J). The details regarding the qualification of data are provided in Enclosures I and II.

## **XIII. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to headspace, data were qualified as estimated in one sample.

Due to surrogate %R, data were qualified as estimated in twelve samples.

Due to results below the LOQ, data were qualified as estimated in forty-one samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

Data flags are summarized and are presented as Attachment 2.

**Attachment 1**  
**Sample Cross Reference**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
31-Aug-2020	2036W0BW088F	FA78406-1	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW190F	FA78445-1	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW199D	FA78445-10	FD	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW200F	FA78445-11	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW201F	FA78445-12	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW202F	FA78445-13	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW203F	FA78445-14	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW204F	FA78445-15	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW205F	FA78445-16	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW206F	FA78445-17	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW207F	FA78445-18	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW208C	FA78445-19	FB	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW190FMS	FA78445-1MS	MS	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW190FMSD	FA78445-1MSD	MSD	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW191F	FA78445-2	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW209A	FA78445-20	TB	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036W0BW090A	FA78445-21	TB	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036W0BW090AMS	FA78445-21MS	MS	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036W0BW090AMSD	FA78445-21MSD	MSD	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036W0BW091F	FA78445-22	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036W0BW092F	FA78445-23	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036W0BW093D	FA78445-24	FD	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036W0BW095F	FA78445-25	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW192F	FA78445-3	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW193F	FA78445-4	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW194F	FA78445-5	N	5030B	EPA8260-SIM	Stage 2B

*N = Normal Sample*  
*FD = Field Duplicate*  
*TB = Trip Blank*  
*MS = Matrix Spike*  
*MSD = Matrix Spike Duplicate*  
*FB = Field Blank*

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Sep-2020	2036X0BW195F	FA78445-6	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW196F	FA78445-7	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW197F	FA78445-8	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036X0BW198F	FA78445-9	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW236F	FA78565-1	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW248F	FA78565-10	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW249F	FA78565-11	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW250F	FA78565-12	N	5030B	EPA8260-SIM	Stage 4
03-Sep-2020	2036X0BW251F	FA78565-13	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW252F	FA78565-14	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW253F	FA78565-15	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW254F	FA78565-16	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW255D	FA78565-17	FD	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW256F	FA78565-18	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW257D	FA78565-19	FD	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW236FMS	FA78565-1MS	MS	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW236FMSD	FA78565-1MSD	MSD	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW237D	FA78565-2	FD	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW258F	FA78565-20	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW259F	FA78565-21	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW260F	FA78565-22	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW261F	FA78565-23	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW262F	FA78565-24	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW263F	FA78565-25	N	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW264A	FA78565-26	TB	5030B	EPA8260-SIM	Stage 2B
04-Sep-2020	2036X0BW265C	FA78565-27	FB	5030B	EPA8260-SIM	Stage 2B

*N = Normal Sample*  
*FD = Field Duplicate*  
*TB = Trip Blank*  
*MS = Matrix Spike*  
*MSD = Matrix Spike Duplicate*  
*FB = Field Blank*

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Sep-2020	2036X0BW238F	FA78565-3	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW239F	FA78565-4	N	5030B	EPA8260-SIM	Stage 4
03-Sep-2020	2036X0BW240F	FA78565-5	N	5030B	EPA8260-SIM	Stage 4
03-Sep-2020	2036X0BW242F	FA78565-6	N	5030B	EPA8260-SIM	Stage 4
03-Sep-2020	2036X0BW243F	FA78565-7	N	5030B	EPA8260-SIM	Stage 4
03-Sep-2020	2036X0BW245F	FA78565-8	N	5030B	EPA8260-SIM	Stage 4
03-Sep-2020	2036X0BW247F	FA78565-9	N	5030B	EPA8260-SIM	Stage 4
02-Sep-2020	2036X0BW210F	FA78573-1	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW219F	FA78573-10	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW220F	FA78573-11	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X00B221F	FA78573-12	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW222F	FA78573-13	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW223F	FA78573-14	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW225F	FA78573-15	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW229F	FA78573-16	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW230F	FA78573-17	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW231F	FA78573-18	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW210FMS	FA78573-1MS	MS	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW210FMSD	FA78573-1MSD	MSD	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW211F	FA78573-2	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW212A	FA78573-3	TB	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW213C	FA78573-4	FB	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW214F	FA78573-5	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW215D	FA78573-6	FD	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW216F	FA78573-7	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW217F	FA78573-8	N	5030B	EPA8260-SIM	Stage 2B

*N = Normal Sample*  
*FD = Field Duplicate*  
*TB = Trip Blank*  
*MS = Matrix Spike*  
*MSD = Matrix Spike Duplicate*  
*FB = Field Blank*

## Sample Cross Reference

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<b>Date Collected</b>	<b>Field Sample ID</b>	<b>Lab Sample ID</b>	<b>Sample Type</b>	<b>Prep Method</b>	<b>Analytical Method</b>	<b>Review Level</b>
02-Sep-2020	2036X0BW218D	FA78573-9	FD	5030B	EPA8260-SIM	Stage 2B

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**Attachment 2**  
**Overall Data Qualification Summary**



## Data Qualifier Summary

Lab Reporting Batch ID: FA78406, FA78445, FA78565,

Laboratory: ACTO

EDD Filename: FA78406ACTO, FA78445ACTO,  
FA78565ACTO, FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78445

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:** 2036W0BW091F

**Collected:** 9/1/2020 9:45:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	0.47	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr
1,2-DICHLOROETHENE (TOTAL)	0.15	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

9/1/2020 10:40:00

**Sample ID:** 2036W0BW092F

**Collected:** AM

**Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

9/1/2020 10:42:00

**Sample ID:** 2036W0BW093D

**Collected:** AM

**Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

**Sample ID:** 2036W0BW095F

**Collected:** 9/1/2020 1:50:00 PM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

**Sample ID:** 2036X0BW190F

**Collected:** 9/1/2020 8:38:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	1.2		0.25	LOD	0.50	LOQ	ug/L	J+	Surr
CHLOROFORM	0.14	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr
Trichloroethylene	0.35	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

**Sample ID:** 2036X0BW191F

**Collected:** 9/1/2020 9:02:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.46	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

**Project Name and Number:** 21065 - Fort Ord Groundwater Monitoring

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## Data Qualifier Summary

Lab Reporting Batch ID: FA78406, FA78445, FA78565,

Laboratory: ACTO

EDD Filename: FA78406ACTO, FA78445ACTO,  
FA78565ACTO, FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78445

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:**2036X0BW193F **Collected:**9/1/2020 9:36:00 AM **Analysis Type:**1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:**2036X0BW195F **Collected:**9/1/2020 10:09:00 AM **Analysis Type:**1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.22	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:**2036X0BW196F **Collected:**9/1/2020 10:25:00 AM **Analysis Type:**1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.22	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:**2036X0BW197F **Collected:**9/1/2020 10:50:00 AM **Analysis Type:**1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.62		0.25	LOD	0.50	LOQ	ug/L	J+	Surr

**Sample ID:**2036X0BW200F **Collected:**9/1/2020 11:59:00 AM **Analysis Type:**1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.18	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

**Sample ID:**2036X0BW202F **Collected:**9/1/2020 12:38:00 PM **Analysis Type:**1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.97		0.25	LOD	0.50	LOQ	ug/L	J+	Surr
CHLOROFORM	0.34	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

\* denotes a non-reportable result

Project Name and Number: 21065 - Fort Ord Groundwater Monitoring

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## Data Qualifier Summary

Lab Reporting Batch ID: FA78406, FA78445, FA78565,

Laboratory: ACTO

EDD Filename: FA78406ACTO, FA78445ACTO,  
FA78565ACTO, FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78445

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:** 2036X0BW204F

**Collected:** 9/1/2020 2:35:00 PM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.15	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr
CHLOROFORM	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

**Sample ID:** 2036X0BW205F

**Collected:** 9/1/2020 2:15:00 PM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

**Sample ID:** 2036X0BW206F

**Collected:** 9/1/2020 3:15:00 PM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.55		0.25	LOD	0.50	LOQ	ug/L	J+	Surr

SDG: FA78565

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:** 2036X0BW238F

**Collected:** 9/3/2020 9:35:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	0.38	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW239F

**Collected:** 9/3/2020 9:58:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.38	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.11	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

**Project Name and Number:** 21065 - Fort Ord Groundwater Monitoring

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## Data Qualifier Summary

Lab Reporting Batch ID: FA78406, FA78445, FA78565,

Laboratory: ACTO

EDD Filename: FA78406ACTO, FA78445ACTO,  
FA78565ACTO, FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78565

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

9/3/2020 10:43:00

**Sample ID:** 2036X0BW240F

**Collected:** AM

**Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHYLENE	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Headspace
1,2-DICHLOROETHENE (TOTAL)	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Headspace
CARBON TETRACHLORIDE	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Headspace
CHLOROFORM	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Headspace
METHYLENE CHLORIDE	2.0	U	0.50	LOD	2.0	LOQ	ug/L	UJ	Headspace
TETRACHLOROETHYLENE	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Headspace
Trichloroethylene	1.1		0.25	LOD	0.50	LOQ	ug/L	J-	Headspace
VINYL CHLORIDE	0.10	U	0.050	LOD	0.10	LOQ	ug/L	UJ	Headspace

9/3/2020 11:48:00

**Sample ID:** 2036X0BW242F

**Collected:** AM

**Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.27	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.16	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW247F

**Collected:** 9/3/2020 2:50:00 PM

**Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.20	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW248F

**Collected:** 9/3/2020 2:52:00 PM

**Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.18	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW250F

**Collected:** 9/3/2020 3:12:00 PM

**Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

**Project Name and Number:** 21065 - Fort Ord Groundwater Monitoring

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# Data Qualifier Summary

Lab Reporting Batch ID: FA78406, FA78445, FA78565,

Laboratory: ACTO

EDD Filename: FA78406ACTO, FA78445ACTO,  
FA78565ACTO, FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78565

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:** 2036X0BW251F **Collected:** 9/3/2020 3:33:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.10	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW253F **Collected:** 9/4/2020 7:41:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.14	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW254F **Collected:** 9/4/2020 8:00:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.32	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.16	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW255D **Collected:** 9/4/2020 8:02:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.31	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.16	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW256F **Collected:** 9/4/2020 8:20:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW257D **Collected:** 9/4/2020 8:22:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

Project Name and Number: 21065 - Fort Ord Groundwater Monitoring

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## Data Qualifier Summary

Lab Reporting Batch ID: FA78406, FA78445, FA78565,

Laboratory: ACTO

EDD Filename: FA78406ACTO, FA78445ACTO,  
FA78565ACTO, FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78565

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:** 2036X0BW260F

**Collected:** 9/4/2020 9:04:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.21	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW261F

**Collected:** 9/4/2020 9:32:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.23	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW265C

**Collected:** 9/4/2020 9:56:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VINYL CHLORIDE	0.10	U	0.050	LOD	0.10	LOQ	ug/L	UJ	Surr

SDG: FA78573

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:** 2036X00B221F

**Collected:** 9/2/2020 10:42:00

**AM**

**Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.20	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CARBON TETRACHLORIDE	0.49	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW210F

**Collected:** 9/2/2020 7:55:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.20	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

Project Name and Number: 21065 - Fort Ord Groundwater Monitoring

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## Data Qualifier Summary

Lab Reporting Batch ID: FA78406, FA78445, FA78565,

Laboratory: ACTO

EDD Filename: FA78406ACTO, FA78445ACTO,  
FA78565ACTO, FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78573

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:** 2036X0BW214F

**Collected:** 9/2/2020 8:48:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.37	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW215D

**Collected:** 9/2/2020 8:50:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.42	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.44	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW216F

**Collected:** 9/2/2020 9:05:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.29	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW217F

**Collected:** 9/2/2020 9:20:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW218D

**Collected:** 9/2/2020 9:22:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.16	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036X0BW219F

**Collected:** 9/2/2020 9:40:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.22	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

Project Name and Number: 21065 - Fort Ord Groundwater Monitoring

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## Data Qualifier Summary

Lab Reporting Batch ID: FA78406, FA78445, FA78565,

Laboratory: ACTO

EDD Filename: FA78406ACTO, FA78445ACTO,  
FA78565ACTO, FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78573

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

9/2/2020 10:05:00

**Sample ID:** 2036X0BW220F      **Collected:** AM      **Analysis Type:** 1RES      **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.20	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.23	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

9/2/2020 10:54:00

**Sample ID:** 2036X0BW222F      **Collected:** AM      **Analysis Type:** 1RES      **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

9/2/2020 3:17:00 PM

**Sample ID:** 2036X0BW229F      **Collected:** 9/2/2020 3:17:00 PM      **Analysis Type:** 1RES      **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	0.20	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

9/2/2020 3:40:00 PM

**Sample ID:** 2036X0BW230F      **Collected:** 9/2/2020 3:40:00 PM      **Analysis Type:** 1RES      **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	0.23	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

9/2/2020 4:03:00 PM

**Sample ID:** 2036X0BW231F      **Collected:** 9/2/2020 4:03:00 PM      **Analysis Type:** 1RES      **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.44	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

Project Name and Number: 21065 - Fort Ord Groundwater Monitoring

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## Data Qualifier Summary

Lab Reporting Batch ID: FA78406, FA78445, FA78565,  
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Laboratory: ACTO

EDD Filename: FA78406ACTO, FA78445ACTO,  
FA78565ACTO, FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

### Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
Headspace	Preservation
Mb	Method Blank Contamination
Preservation	Preservation
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

\* denotes a non-reportable result

**Project Name and Number: 21065 - Fort Ord Groundwater Monitoring**

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**Enclosure I**  
**Stage 2B ADR Outliers**  
**(Including Manual Review Outliers)**

# Quality Control Outlier Reports

FA78406

(No Outliers)

LDC #: 49259A1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78406

ADR

Laboratory: SGS North America, Inc.

Date: 10/14/20

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Reviewer: E7

2nd Reviewer: KDC

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ, Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	A, Δ	% PSD ≤ 15, r <sup>2</sup> 1CV ≤ 20
IV.	Continuing calibration	A	CCV ≤ 20
V.	Laboratory Blanks	N	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	N	
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

	Client ID	Lab ID	Matrix	Date
1	2036W0BW088F	FA78406-1	Water	08/31/20
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

VZ 2409				

# Quality Control Outlier Reports

FA78445

# Surrogate Outlier Report

Lab Reporting Batch ID: FA78445

Laboratory: ACTO

EDD Filename: FA78445ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

**Method:** EPA8260-SIM  
**Matrix:** AQ

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
2036W0BW091F (1RES)	1,2-DICHLOROETHANE-D4	119	81.00-118.00	All Target Analytes	J+ (all detects)
2036W0BW092F (1RES)	1,2-DICHLOROETHANE-D4	119	81.00-118.00	All Target Analytes	J+(all detects)
2036W0BW093D (1RES)	1,2-DICHLOROETHANE-D4	120	81.00-118.00	All Target Analytes	J+(all detects)
2036W0BW095F (1RES)	1,2-DICHLOROETHANE-D4	121	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW190F (1RES)	1,2-DICHLOROETHANE-D4	121	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW197F (1RES)	1,2-DICHLOROETHANE-D4	120	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW198F (1RES)	1,2-DICHLOROETHANE-D4	122	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW199D (1RES)	1,2-DICHLOROETHANE-D4	122	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW200F (1RES)	1,2-DICHLOROETHANE-D4	122	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW201F (1RES)	1,2-DICHLOROETHANE-D4	123	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW202F (1RES)	1,2-DICHLOROETHANE-D4	124	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW203F (1RES)	1,2-DICHLOROETHANE-D4	124	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW204F (1RES)	1,2-DICHLOROETHANE-D4	125	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW205F (1RES)	1,2-DICHLOROETHANE-D4	125	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW206F (1RES)	1,2-DICHLOROETHANE-D4	126	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW207F (1RES)	1,2-DICHLOROETHANE-D4	126	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW208C (1RES)	1,2-DICHLOROETHANE-D4	127	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW209A (1RES)	1,2-DICHLOROETHANE-D4	127	81.00-118.00	All Target Analytes	J+(all detects)

## Reporting Limit Outliers

Lab Reporting Batch ID: FA78445

Laboratory: ACTO

EDD Filename: FA78445ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

**Method:** EPA8260-SIM  
**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
2036W0BW091F	1,2-DICHLOROETHENE (TOTAL)	J	0.15	0.50	LOQ	ug/L	J (all detects)
	Trichloroethylene	J	0.47	0.50	LOQ	ug/L	
2036W0BW092F	Trichloroethylene	J	0.12	0.50	LOQ	ug/L	J (all detects)
2036W0BW093D	Trichloroethylene	J	0.12	0.50	LOQ	ug/L	J (all detects)
2036W0BW095F	CARBON TETRACHLORIDE	J	0.13	0.50	LOQ	ug/L	J (all detects)
2036X0BW190F	CHLOROFORM	J	0.14	0.50	LOQ	ug/L	J (all detects)
	Trichloroethylene	J	0.35	0.50	LOQ	ug/L	
2036X0BW191F	CHLOROFORM	J	0.46	0.50	LOQ	ug/L	J (all detects)
2036X0BW193F	CARBON TETRACHLORIDE	J	0.33	0.50	LOQ	ug/L	J (all detects)
2036X0BW195F	CHLOROFORM	J	0.22	0.50	LOQ	ug/L	J (all detects)
2036X0BW196F	CARBON TETRACHLORIDE	J	0.22	0.50	LOQ	ug/L	J (all detects)
2036X0BW200F	CHLOROFORM	J	0.18	0.50	LOQ	ug/L	J (all detects)
2036X0BW202F	CHLOROFORM	J	0.34	0.50	LOQ	ug/L	J (all detects)
2036X0BW204F	CARBON TETRACHLORIDE	J	0.15	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.19	0.50	LOQ	ug/L	
2036X0BW205F	CARBON TETRACHLORIDE	J	0.12	0.50	LOQ	ug/L	J (all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: FA78445

Laboratory: ACTO

EDD Filename: FA78445ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036W0BW092F	2036W0BW093D			
Trichloroethylene	0.12	0.12	0	30.00	No Qualifiers Applied



LDC #: 49259B1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78445

ADR

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 1 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/D	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	A/D	% PSD ≤ 15, r <sup>2</sup> ICV ≤ 20
IV.	Continuing calibration <i>ending</i>	Δ	CCV ≤ 20/SV
V.	Laboratory Blanks	N	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	N	
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

	Client ID	Lab ID	Matrix	Date
1 ✓	2036X0BW190F	FA78445-1	Water	09/01/20
2	2036X0BW191F	FA78445-2	Water	09/01/20
3	2036X0BW192F	FA78445-3	Water	09/01/20
4	2036X0BW193F	FA78445-4	Water	09/01/20
5	2036X0BW194F	FA78445-5	Water	09/01/20
6	2036X0BW195F	FA78445-6	Water	09/01/20
7	2036X0BW196F	FA78445-7	Water	09/01/20
8	2036X0BW197F	FA78445-8	Water	09/01/20
9	2036X0BW198F	FA78445-9	Water	09/01/20
10	2036X0BW199D	FA78445-10	Water	09/01/20
11 ✓	2036X0BW200F	FA78445-11	Water	09/01/20
12 ✓	2036X0BW201F	FA78445-12	Water	09/01/20
13 ✓	2036X0BW202F	FA78445-13	Water	09/01/20
14 ✓	2036X0BW203F	FA78445-14	Water	09/01/20

LDC #: 49259B1b

### VALIDATION COMPLETENESS WORKSHEET

SDG #: FA78445

ADR

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 3 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

	Client ID	Lab ID	Matrix	Date
15	2036X0BW204F	FA78445-15	Water	09/01/20
16	2036X0BW205F	FA78445-16	Water	09/01/20
17	2036X0BW206F	FA78445-17	Water	09/01/20
18	2036X0BW207F	FA78445-18	Water	09/01/20
19	2036X0BW208C	FA78445-19	Water	09/01/20
20	2036X0BW209A	FA78445-20	Water	09/01/20
21	2036W0BW090A	FA78445-21	Water	09/01/20
22	2036W0BW091F	FA78445-22	Water	09/01/20
23	2036W0BW092F	FA78445-23	Water	09/01/20
24	2036W0BW093D	FA78445-24	Water	09/01/20
25	2036W0BW095F	FA78445-25	Water	09/01/20
26	2036X0BW190FMS	FA78445-1MS	Water	09/01/20
27	2036X0BW190FMSD	FA78445-1MSD	Water	09/01/20
28	2036W0BW090AMS	FA78445-21MS	Water	09/01/20
29	2036W0BW090AMSD	FA78445-21MSD	Water	09/01/20
30				
31				
32				

Notes:

1	V02350					
2	VZ2410					

# Quality Control Outlier Reports

FA78565

# Method Blank Outlier Report

Lab Reporting Batch ID: FA78565

Laboratory: ACTO

EDD Filename: FA78565ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VZ2419-MB	9/15/2020 2:55:00 PM	METHYLENE CHLORIDE	1.1 ug/L	2036X0BW264A 2036X0BW265C

# Surrogate Outlier Report

Lab Reporting Batch ID: FA78565

Laboratory: ACTO

EDD Filename: FA78565ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

<i>Sample ID (Analysis Type)</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
2036X0BW261F (1REA1)	1,2-DICHLOROETHANE-D4	119	81.00-118.00	All Target Analytes	J+ (all detects)
2036X0BW262F (1REA1)	1,2-DICHLOROETHANE-D4	120	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW263F (1REA1)	1,2-DICHLOROETHANE-D4	121	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW265C (1RES)	TOLUENE-D8	80	89.00-112.00	All Target Analytes	J-(all detects) UJ(all non-detects)

## Reporting Limit Outliers

Lab Reporting Batch ID: FA78565

Laboratory: ACTO

EDD Filename: FA78565ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

**Method:** EPA8260-SIM  
**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
2036X0BW238F	CHLOROFORM	J	0.19	0.50	LOQ	ug/L	J (all detects)
	Trichloroethylene	J	0.38	0.50	LOQ	ug/L	
2036X0BW239F	CARBON TETRACHLORIDE	J	0.33	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.38	0.50	LOQ	ug/L	
	TETRACHLOROETHYLENE	J	0.11	0.50	LOQ	ug/L	
2036X0BW240F	1,2-DICHLOROETHENE (TOTAL)	J	0.17	0.50	LOQ	ug/L	J (all detects)
2036X0BW242F	CARBON TETRACHLORIDE	J	0.27	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.16	0.50	LOQ	ug/L	
2036X0BW247F	CARBON TETRACHLORIDE	J	0.20	0.50	LOQ	ug/L	J (all detects)
2036X0BW248F	CARBON TETRACHLORIDE	J	0.18	0.50	LOQ	ug/L	J (all detects)
2036X0BW250F	CARBON TETRACHLORIDE	J	0.12	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.12	0.50	LOQ	ug/L	
2036X0BW251F	CARBON TETRACHLORIDE	J	0.10	0.50	LOQ	ug/L	J (all detects)
2036X0BW253F	CARBON TETRACHLORIDE	J	0.33	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.14	0.50	LOQ	ug/L	
2036X0BW254F	CARBON TETRACHLORIDE	J	0.32	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.16	0.50	LOQ	ug/L	
2036X0BW255D	CARBON TETRACHLORIDE	J	0.31	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.16	0.50	LOQ	ug/L	
2036X0BW256F	CHLOROFORM	J	0.33	0.50	LOQ	ug/L	J (all detects)
2036X0BW257D	CHLOROFORM	J	0.33	0.50	LOQ	ug/L	J (all detects)
2036X0BW260F	CHLOROFORM	J	0.21	0.50	LOQ	ug/L	J (all detects)
2036X0BW261F	CHLOROFORM	J	0.23	0.50	LOQ	ug/L	J (all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: FA78565

Laboratory: ACTO

EDD Filename: FA78565ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036X0BW254F	2036X0BW255D			
CARBON TETRACHLORIDE	0.32	0.31	3	30.00	No Qualifiers Applied
CHLOROFORM	0.16	0.16	0	30.00	

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036X0BW256F	2036X0BW257D			
CARBON TETRACHLORIDE	3.0	3.0	0	30.00	No Qualifiers Applied
CHLOROFORM	0.33	0.33	0	30.00	

LDC #: 49259C1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78565

ADR/Stage 4

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 1 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	SW Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	A Δ	% PSD ≤ 15, f <sup>2</sup> ICV ≤ 20
IV.	Continuing calibration <i>ending</i>	Δ	CV ≤ 20/50
V.	Laboratory Blanks	N	Not reviewed for ADR validation.
VI.	Field blanks		
VII.	Surrogate spikes		Not reviewed for ADR validation.
VIII.	Matrix spike/Matrix spike duplicates		Not reviewed for ADR validation.
IX.	Laboratory control samples		Not reviewed for ADR validation.
X.	Field duplicates		
XI.	Internal standards	Δ	Not reviewed for ADR validation.
XII.	Compound quantitation RL/LOQ/LODs	N	Not reviewed for ADR validation.
XIII.	Target compound identification		Not reviewed for ADR validation.
XIV.	System performance		Not reviewed for ADR validation.
XV.	Overall assessment of data		Not reviewed for ADR validation.

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

\*\* Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	2036X0BW236F	FA78565-1	Water	09/03/20
2	2036X0BW237D	FA78565-2	Water	09/03/20
3	2036X0BW238F	FA78565-3	Water	09/03/20
4	2036X0BW239F**	FA78565-4**	Water	09/03/20
5	2036X0BW240F**	FA78565-5**	Water	09/03/20
6	2036X0BW242F**	FA78565-6**	Water	09/03/20
7	2036X0BW243F**	FA78565-7**	Water	09/03/20
8	2036X0BW245F**	FA78565-8**	Water	09/03/20
9	2036X0BW247F**	FA78565-9**	Water	09/03/20
10	2036X0BW248F	FA78565-10	Water	09/03/20
11	2036X0BW249F	FA78565-11	Water	09/03/20
12	2036X0BW250F**	FA78565-12**	Water	09/03/20
13	2036X0BW251F	FA78565-13	Water	09/03/20
14	2036X0BW252F	FA78565-14	Water	09/03/20



LDC #: 49259C1b

# VALIDATION COMPLETENESS WORKSHEET

SDG #: FA78565

ADR/Stage 4

Laboratory: SGS North America, Inc.

Date: 10/14/20

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Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

15	2036X0BW253F	FA78565-15	Water	09/03/20
16	2036X0BW254F	FA78565-16	Water	09/03/20
17	2036X0BW255D	FA78565-17	Water	09/03/20
18	2036X0BW256F	FA78565-18	Water	09/03/20
19	2036X0BW257D	FA78565-19	Water	09/03/20
20	2036X0BW258F	FA78565-20	Water	09/03/20
21	2036X0BW259F	FA78565-21	Water	09/03/20
22	2036X0BW260F	FA78565-22	Water	09/03/20
23	2036X0BW261F	FA78565-23	Water	09/03/20
24	2036X0BW262F	FA78565-24	Water	09/03/20
25	2036X0BW263F	FA78565-25	Water	09/03/20
26	2036X0BW264A	FA78565-26	Water	09/03/20
27	2036X0BW265C	FA78565-27	Water	09/03/20
28	2036X0BW236FMS	FA78565-1MS	Water	09/03/20
29	2036X0BW236FMSD	FA78565-1MSD	Water	09/03/20
30				
31				
32				

Notes:


## TARGET COMPOUND WORKSHEET

### METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.



# Quality Control Outlier Reports

FA78573

## Reporting Limit Outliers

Lab Reporting Batch ID: FA78573

Laboratory: ACTO

EDD Filename: FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

**Method:** EPA8260-SIM

**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
2036X00B221F	CARBON TETRACHLORIDE CHLOROFORM	J	0.49	0.50	LOQ	ug/L	J (all detects)
		J	0.20	0.50	LOQ	ug/L	
2036X0BW210F	CARBON TETRACHLORIDE	J	0.20	0.50	LOQ	ug/L	J (all detects)
2036X0BW214F	CARBON TETRACHLORIDE Trichloroethylene	J	0.33	0.50	LOQ	ug/L	J (all detects)
		J	0.37	0.50	LOQ	ug/L	
2036X0BW215D	CARBON TETRACHLORIDE Trichloroethylene	J	0.42	0.50	LOQ	ug/L	J (all detects)
		J	0.44	0.50	LOQ	ug/L	
2036X0BW216F	CHLOROFORM	J	0.29	0.50	LOQ	ug/L	J (all detects)
2036X0BW217F	CHLOROFORM	J	0.17	0.50	LOQ	ug/L	J (all detects)
2036X0BW218D	CHLOROFORM	J	0.16	0.50	LOQ	ug/L	J (all detects)
2036X0BW219F	CARBON TETRACHLORIDE	J	0.22	0.50	LOQ	ug/L	J (all detects)
2036X0BW220F	CHLOROFORM Trichloroethylene	J	0.20	0.50	LOQ	ug/L	J (all detects)
		J	0.23	0.50	LOQ	ug/L	
2036X0BW222F	CARBON TETRACHLORIDE CHLOROFORM	J	0.17	0.50	LOQ	ug/L	J (all detects)
		J	0.13	0.50	LOQ	ug/L	
2036X0BW229F	Trichloroethylene	J	0.20	0.50	LOQ	ug/L	J (all detects)
2036X0BW230F	Trichloroethylene	J	0.23	0.50	LOQ	ug/L	J (all detects)
2036X0BW231F	CHLOROFORM Trichloroethylene	J	0.33	0.50	LOQ	ug/L	J (all detects)
		J	0.44	0.50	LOQ	ug/L	

# Field Duplicate RPD Report

Lab Reporting Batch ID: FA78573

Laboratory: ACTO

EDD Filename: FA78573ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036X0BW217F	2036X0BW218D			
CARBON TETRACHLORIDE	0.64	0.64	0	30.00	No Qualifiers Applied
CHLOROFORM	0.17	0.16	6	30.00	

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036X0BW214F	2036X0BW215D			
CARBON TETRACHLORIDE	0.33	0.42	24	30.00	No Qualifiers Applied
CHLOROFORM	2.3	1.8	24	30.00	
Trichloroethylene	0.37	0.44	17	30.00	

LDC #: 49259D1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78573

ADR

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 1 of 2

Reviewer: KJR2nd Reviewer: KJR**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	Δ Δ	% PSD ≤ 15, 1 <sup>2</sup> ICV ≤ 20
IV.	Continuing calibration / ending	A	CCV ≤ 20/50
V.	Laboratory Blanks	N	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	N	
X.	Field duplicates	N	
XI.	Internal standards	Δ	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

	Client ID	Lab ID	Matrix	Date
1	2036X0BW210F	FA78573-1	Water	09/02/20
2	2036X0BW211F	FA78573-2	Water	09/02/20
3	2036X0BW212A	FA78573-3	Water	09/02/20
4	2036X0BW213C	FA78573-4	Water	09/02/20
5	2036X0BW214F	FA78573-5	Water	09/02/20
6	2036X0BW215D	FA78573-6	Water	09/02/20
7	2036X0BW216F	FA78573-7	Water	09/02/20
8	2036X0BW217F	FA78573-8	Water	09/02/20
9	2036X0BW218D	FA78573-9	Water	09/02/20
10	2036X0BW219F	FA78573-10	Water	09/02/20
11	2036X0BW220F	FA78573-11	Water	09/02/20
12	2036X0BW221F	FA78573-12	Water	09/02/20
13	2036X0BW222F	FA78573-13	Water	09/02/20
14	2036X0BW223F	FA78573-14	Water	09/02/20

LDC #: 49259D1b **VALIDATION COMPLETENESS WORKSHEET**  
 SDG #: FA78573 **ADR**  
 Laboratory: SGS North America, Inc.

Date: 10/14/20  
 Page: 2 of 2  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

	Client ID	Lab ID	Matrix	Date
15	2036X0BW225F	FA78573-15	Water	09/02/20
16	2036X0BW229F	FA78573-16	Water	09/02/20
17	2036X0BW230F	FA78573-17	Water	09/02/20
18	2036X0BW231F	FA78573-18	Water	09/02/20
19	2036X0BW210FMS	FA78573-1MS	Water	09/02/20
20	2036X0BW210FMDS	FA78573-1MSD	Water	09/02/20
21				
22				
23				

Notes:

VZ2414				
VZ2415				



**Enclosure II**

**Stage 4 Data Validation Reports**

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** Fort Ord, OUCTP-A  
**LDC Report Date:** October 14, 2020  
**Parameters:** Volatiles  
**Validation Level:** Stage 4  
**Laboratory:** SGS North America, Inc.  
**Sample Delivery Group (SDG):** FA78565

<b>Sample Identification</b>	<b>Laboratory Sample Identification</b>	<b>Matrix</b>	<b>Collection Date</b>
2036X0BW239F	FA78565-4	Water	09/03/20
2036X0BW240F	FA78565-5	Water	09/03/20
2036X0BW242F	FA78565-6	Water	09/03/20
2036X0BW243F	FA78565-7	Water	09/03/20
2036X0BW245F	FA78565-8	Water	09/03/20
2036X0BW247F	FA78565-9	Water	09/03/20
2036X0BW250F	FA78565-12	Water	09/03/20

## **Introduction**

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Volatiles Plume, Former Fort Ord, California (Revision 7, August 2019), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and the USACE Guidance for Evaluating Performance-Based Chemical Data (June 2005). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260B in Selected Ion Monitoring (SIM) mode

All sample results were subjected to Stage 4 data validation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J+ (Estimated, High Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying high bias, due to non-conformances discovered during data validation.
- J- (Estimated, Low Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying low bias, due to non-conformances discovered during data validation.
- J (Estimated, Bias Indeterminate): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation. Bias is indeterminate.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

## I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
2036X0BW240F	All compounds	A headspace was apparent in the sample containers.	There should be no headspace in the sample containers.	J- (all detects) UJ (all non-detects)	A

All technical holding time requirements were met.

## II. GC/MS Instrument Performance Check

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

## III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 15.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination ( $r^2$ ) were greater than or equal to 0.990.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

## IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the ending continuing calibration verifications (CCVs) were less than or equal to 50.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## **V. Laboratory Blanks**

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

## **VI. Field Blanks**

Sample 2036X0BW264A was identified as a trip blank. No contaminants were found.

Sample 2036X0BW265C was identified as a field blank. No contaminants were found.

## **VII. Surrogates**

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

## **VIII. Matrix Spike/Matrix Spike Duplicates**

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

## **IX. Laboratory Control Samples**

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

## **X. Field Duplicates**

No field duplicates were identified in this SDG.

## **XI. Internal Standards**

All internal standard areas and retention times were within QC limits.

## **XII. Compound Quantitation**

All compound quantitations met validation criteria.

All compounds reported below the limit of quantitation (LOQ) were qualified as follows:

Sample	Finding	Flag	A or P
2036X0BW239F 2036X0BW240F 2036X0BW242F 2036X0BW247F 2036X0BW250F	All compounds reported below the LOQ.	J (all detects)	A

### **XIII. Target Compound Identifications**

All target compound identifications met validation criteria.

### **XIV. System Performance**

The system performance was acceptable.

### **XV. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to headspace and results below the LOQ, data were qualified as estimated in five samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**Fort Ord, OUCTP-A  
Volatiles - Data Qualification Summary - SDG FA78565**

Sample	Compound	Flag	A or P	Reason
2036X0BW240F	All compounds	J- (all detects) UJ (all non-detects)	A	Sample condition (headspace)
2036X0BW239F 2036X0BW240F 2036X0BW242F 2036X0BW247F 2036X0BW250F	All compounds reported below the LOQ.	J (all detects)	A	Compound quantitation

**Fort Ord, OUCTP-A  
Volatiles - Laboratory Blank Data Qualification Summary - SDG FA78565**

No Sample Data Qualified in this SDG

**Fort Ord, OUCTP-A  
Volatiles - Field Blank Data Qualification Summary - SDG FA78565**

No Sample Data Qualified in this SDG



LDC #: 49259C1b  
 SDG #: FA78565  
 Laboratory: SGS North America, Inc.

**VALIDATION COMPLETENESS WORKSHEET**

ADR/Stage 4

Date: 10/14/20  
 Page: 1 of 2  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	SW, A	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	A, A	% PSD = 15, r <sup>2</sup> ICV ≤ 20
IV.	Continuing calibration / ending	Δ	CV ≤ 20 / SD
V.	Laboratory Blanks	Δ	Not reviewed for ADR validation.
VI.	Field blanks	ND	TB = 26 FB = 27
VII.	Surrogate spikes	Δ	Not reviewed for ADR validation.
VIII.	Matrix spike/Matrix spike duplicates	Δ	Not reviewed for ADR validation.
IX.	Laboratory control samples	Δ	Not reviewed for ADR validation. LCS
X.	Field duplicates	N	
XI.	Internal standards	Δ	Not reviewed for ADR validation.
XII.	Compound quantitation RL/LOQ/LODs	Δ	Not reviewed for ADR validation.
XIII.	Target compound identification	Δ	Not reviewed for ADR validation.
XIV.	System performance	Δ	Not reviewed for ADR validation.
XV.	Overall assessment of data	Δ	Not reviewed for ADR validation.

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank  
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:  
 SW = See worksheet FB = Field blank EB = Equipment blank

\*\* Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	<del>2036X0BW236F</del>	FA78565-1	Water	09/03/20
2	<del>2036X0BW237D</del>	FA78565-2	Water	09/03/20
3	<del>2036X0BW238F</del>	FA78565-3	Water	09/03/20
4	+3 2036X0BW239F**	FA78565-4**	Water	09/03/20
5	+3 2036X0BW240F**	FA78565-5**	Water	09/03/20
6	+3 2036X0BW242F**	FA78565-6**	Water	09/03/20
7	+3 2036X0BW243F**	FA78565-7**	Water	09/03/20
8	+3 2036X0BW245F**	FA78565-8**	Water	09/03/20
9	+3 2036X0BW247F**	FA78565-9**	Water	09/03/20
10	<del>2036X0BW248F</del>	FA78565-10	Water	09/03/20
11	<del>2036X0BW249F</del>	FA78565-11	Water	09/03/20
12	+3 2036X0BW250F**	FA78565-12**	Water	09/03/20
13	<del>2036X0BW251F</del>	FA78565-13	Water	09/03/20
14	<del>2036X0BW252F</del>	FA78565-14	Water	09/03/20

LDC #: 49259C1b

VALIDATION COMPLETENESS WORKSHEET

SDG #: FA78565

ADR/Stage 4

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 26 of 2

Reviewer: AF7

2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

	Client ID	Lab ID	Matrix	Date
15	<del>2036X0BW253F</del>	FA78565-15	Water	09/03/20
16	2036X0BW254F	FA78565-16	Water	09/03/20
17	2036X0BW255D	FA78565-17	Water	09/03/20
18	2036X0BW256F	FA78565-18	Water	09/03/20
19	2036X0BW257D	FA78565-19	Water	09/03/20
20	2036X0BW258F	FA78565-20	Water	09/03/20
21	2036X0BW259F	FA78565-21	Water	09/03/20
22	2036X0BW260F	FA78565-22	Water	09/03/20
23	2036X0BW261F	FA78565-23	Water	09/03/20
24	2036X0BW262F	FA78565-24	Water	09/03/20
25	2036X0BW263F	FA78565-25	Water	09/03/20
26	2036X0BW264A	FA78565-26	Water	09/03/20
27	2036X0BW265C	FA78565-27	Water	09/03/20
28	2036X0BW236FMS	FA78565-1MS	Water	09/03/20
29	2036X0BW236FMSD	FA78565-1MSD	Water	09/03/20
30				
31				
32				

Notes:

1	V02359	5	VZ2419				
2	V02360						
3	VZ2416						
4	VZ2418 (E)						

Method: Volatiles (EPA SW 846 Method 8260 B)-SIM

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
<b>II. GC/MS Instrument performance check</b>				
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
<b>IIIa. Initial calibration</b>				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) $\leq$ 15% and relative response factors (RRF) within method criteria?	/			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of $\geq$ 0.990?	/			
<b>IIIb. Initial Calibration Verification</b>				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) $\leq$ 20%?	/			
<b>IV. Continuing calibration</b>				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) $\leq$ 20% and relative response factors (RRF) within method criteria?	/			
Were all percent differences (%D) $\leq$ 50% for closing calibration verifications?	/			
<b>V. Laboratory Blanks</b>				
Was a laboratory blank associated with every sample in this SDG?	/			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	/			
Was there contamination in the laboratory blanks?		/		
<b>VI. Field blanks</b>				
Were field blanks were identified in this SDG?	/			
Were target compounds detected in the field blanks?		/		
<b>VII. Surrogate spikes</b>				
Were all surrogate percent recovery (%R) within QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
<b>VIII. Matrix spike/Matrix spike duplicates</b>				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	/			

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>IX. Laboratory control samples</b>				
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>X. Field duplicates</b>				
Were field duplicate pairs identified in this SDG?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were target compounds detected in the field duplicates?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>XI. Internal standards</b>				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were retention times within + 30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XII. Compound quantitation</b>				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XIII. Target compound identification</b>				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XIV. System performance</b>				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XV. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## TARGET COMPOUND WORKSHEET

### METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

**VALIDATION FINDINGS WORKSHEET**  
**Technical Holding Times**

All circled dates have exceeded the technical holding times.

(Y/N/N/A) Were all cooler temperatures within validation criteria? \_\_\_\_\_

(Y/N/N/A) Were air bubbles > 1/4 inch or was headspace present in the vials? \_\_\_\_\_

METHOD : GC/MS VOA (EPA SW 846 Method 8260 )							
Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
5	VOA		contained head space				1-42/A ND+Det

**TECHNICAL HOLDING TIME CRITERIA**

- Water unpreserved: Aromatic within 7 days, non-aromatic within 14 days of sample collection.
- Water preserved: Within 14 days of sample collection.
- Soil: Within 14 days of sample collection.

**VALIDATION FINDINGS WORKSHEET**  
**Initial Calibration Calculation Verification**

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 **B**)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$

average RRF = sum of the RRFs/number of standards

$\%RSD = 100 * (S/X)$

$A_x$  = Area of compound,

$C_x$  = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

$A_{is}$  = Area of associated internal standard

$C_{is}$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalc	Reported	Recalc	Reported	Recalc
				RRF ( <u>5.0</u> std)	RRF ( <u>5.0</u> std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL GCMS-2	9/11/20	<u>θ</u> (1st internal standard)	0.529	0.529	0.510	0.510	5.69	5.69
			<u>AA</u> (2nd internal standard)	<u>see column</u>					
			(3rd internal standard)						
			(4th internal standard)						
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

LDC #: 49259 c1b

**Validation Findings Worksheet**  
**Initial Calibration Calculation Verification**

Page: 1 of 1  
 Reviewer: FJ

Method: GC/MS 8260B SIM

Date	Instrument/Column	Compound	Level	(Y) Response	(X) Conc.	(X <sup>2</sup> ) Conc.
9/11/2020	GCMSZ	AA	1	0.0101	0.02	0.0004
			2	0.0538	0.10	0.01
			3	0.1964	0.40	0.16
			4	0.55	1.00	1
			5	1.032	2.00	4
			6	1.62	3.00	9
			7	1.868	4.00	16

**Regression Output**

			Reported
Constant	c =	0.0000	0
Std Err of Y Est			
R Squared		0.99802	0.9961
Degrees of Freedom			
	a =	b =	
X Coefficient(s)	5.98815E-01	-3.0344E-02	a= 0.59840
Std Err of Coef.			b= -0.03017
Correlation Coefficient		0.999010	0.9999
Coefficient of Determination (r <sup>2</sup> )	r <sup>2</sup>	0.998021	



LDC #: 49259c1b

**VALIDATION FINDINGS WORKSHEET**  
**Continuing Calibration Results Verification**

Page: 1 of 1  
 Reviewer: FT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260  $\beta$ )

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference =  $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$   
 $\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF  
 RRF = continuing calibration RRF  
 $A_x$  = Area of compound,  $A_{is}$  = Area of associated internal standard  
 $C_x$  = Concentration of compound,  $C_{is}$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv 0542	9/12/20	$\theta$ (IS1)	0.510	0.535	0.535	4.9	4.9
			AA (IS2)	10.0	10.411	10.411	4.1	4.1
			(IS3)					
			(IS4)					
			(IS5)					
2			(IS1)					
			(IS2)					
			(IS3)					
			(IS4)					
			(IS5)					
3			(IS1)					
			(IS2)					
			(IS3)					
			(IS4)					
			(IS5)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 49259c1b

**VALIDATION FINDINGS WORKSHEET**  
**Surrogate Results Verification**

Page: 1 of 1  
 Reviewer: FT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery:  $SF/SS * 100$

Where: SF = Surrogate Found  
 SS = Surrogate Spiked

Sample ID: #5

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4	5.0	5.31	106	106	0
Toluene-d8	↓	5.06	101	101	↓
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 49259 c1b

**VALIDATION FINDINGS WORKSHEET**  
**Matrix Spike/Matrix Spike Duplicates Results Verification**

Page: 1 of 1  
 Reviewer: FT

**METHOD:** GC/MS VOA (EPA Method 8260 B )

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery =  $100 * (SSC - SC) / SA$

Where: SSC = Spiked sample concentration  
 SA = Spike added

SC = Sample concentration

RPD =  $|MSC - MSC| * 2 / (MSC + MSC)$

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 28 + 29

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	50	50	ND	55.9	59.3	112	112	119	119	6	6
Trichloroethene	↓	↓	↓	58.0	59.9	116	116	120	120	3	3
Benzene											
Toluene											
Chlorobenzene											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 49259 clb

**VALIDATION FINDINGS WORKSHEET**  
**Laboratory Control Sample Results Verification**

Page: 1 of 1  
 Reviewer: FT

**METHOD:** GC/MS VOA (EPA Method 8260 B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 \* SSC/SA

Where: SSC = Spiked sample concentration  
 SA = Spike added

RPD = | LCSC - LCSDC | \* 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration    LCSDC = Laboratory control sample duplicate concentration

LCS ID: VZ 2416 BS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	5	NA	5.2	NA	104	104				
Trichloroethene	5	↓	5.2	↓	104	104	NA			
Benzene										
Toluene										
Chlorobenzene										

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

## VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 )

Y N N/A    Were all reported results recalculated and verified for all level IV samples?  
Y N N/A    Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

- $A_x$     =    Area of the characteristic ion (EICP) for the compound to be measured
- $A_{is}$     =    Area of the characteristic ion (EICP) for the specific internal standard
- $I_s$     =    Amount of internal standard added in nanograms (ng)
- RRF    =    Relative response factor of the calibration standard.
- $V_o$     =    Volume or weight of sample pruged in milliliters (ml) or grams (g).
- Df      =    Dilution factor.
- %S     =    Percent solids, applicable to soils and solid matrices only.

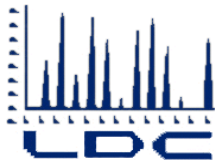
Example:

Sample I.D. #4 , 0 :

$$\text{Conc.} = \frac{(57495)(5.0)}{(1709962)(0.510)}$$

$$= 0.3296 \text{ ug/L}$$

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#4	0	0.33	0.3296	



## LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Ahtna Global, LLC.  
9699 Blue Larkspur Lane, Suite 201  
Monterey, CA 93940  
ATTN: Mr. Eric A. Schmidt  
[Eschmidt@ahtna.net](mailto:Eschmidt@ahtna.net)

October 20, 2020

SUBJECT: Fort Ord, OUCTP-A, Data Validation

Dear Mr. Schmidt,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on September 29, 2020. Attachment 1 is a summary of the samples that were reviewed for each analysis.

### LDC Project #49257:

<u>SDG #</u>	<u>Fraction</u>
FA78443, FA78564 FA78570	Carbon Tetrachloride

The data validation was performed under Stage 2B & 4 guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California; Revision 7, August 2019
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, Version 5.1; 2017
- USACE Guidance for Evaluating Performance-Based Chemical Data; June 2005
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng  
[Pgeng@lab-data.com](mailto:Pgeng@lab-data.com)  
Project Manager/Senior Chemist

ADR/Stage 4 90/10

LDC#49257 (AHTNA Engineering Services-Marina, CA / Fort Ord, OUCTP-Upper)

Project # 21065.000.01.0000

LDC	SDG#	DATE REC'D	(3) DATE DUE	(1)VOA (8260B -SIM)																												
					W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
Matrix: Water/Soil					W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S		
A	FA78443	09/29/20	10/20/20	2 0																												
B	FA78564	09/29/20	10/20/20	6 0																												
C	FA78570	09/29/20	10/20/20	3 0																												
C	FA78570	09/29/20	10/20/20	2 0																												
Total	T/PG				13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13		

**Data Validation Report  
Fort Ord, OUCTP - Upper**

**SDGs: FA78443, FA78564, and FA78570**

Prepared for

**Ahtna Environmental Inc.**  
296 12th Street  
Marina, California 93933-6001

Prepared by

**Laboratory Data Consultants, Inc**  
2701 Loker Ave West, Suite 220  
Carlsbad, CA 92010

October 19, 2020



## INTRODUCTION

This Data Validation Report (DVR) presents Stage 2B and 4 data validation results for samples collected during the September 2020 sampling period. Data validation was performed in accordance with the Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California (Revision 7, August 2019), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and the USACE Guidance for Evaluating Performance-Based Chemical Data (June 2005). Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Carbon Tetrachloride by Environmental Protection Agency (EPA) SW 846 Method 8260B in Selection Ion Monitoring (SIM) mode

The sample identification and method of analyses performed on each sample is presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Stage 2B Automated Data Review outliers are presented in Enclosure I. DVRs for samples on which Stage 4 validation was performed are presented in Enclosure II.

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results for sample holding times, initial and continuing calibrations, surrogates, matrix spike/matrix spike duplicates (MS/MSD), internal standards, laboratory control sample (LCS), laboratory blanks, equipment blanks, field blanks, and field duplicates. Approximately 10 percent of samples were subjected to Stage 4 evaluation as indicated in Attachment 1, which comprises a review of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

Automated data review was performed on all QC summary results using the Automated Data Review (ADR) software program (LDC, 2013) with the exception of the calibrations and internal standards, which were validated manually. Quality assurance (QA)/QC criteria specified in the QAPP, DoD QSM, and EM-200-1-10 were incorporated with the program's reference library to assess compliance with project requirements.

The following are definitions of the data qualifiers utilized during data validation:

- J+ (Estimated, High Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying high bias, due to non-conformances discovered during data validation.
- J- (Estimated, Low Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying low bias, due to non-conformances discovered during data validation.
- J (Estimated, Bias Indeterminate): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation. Bias is indeterminate.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

## **I. Sample Receipt & Technical Holding Times**

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## **II. Instrument Performance Check**

Instrument performance was checked at the frequency required by the method.

All criteria for the instrument performance check were met.

## **III. Initial Calibration and Initial Calibration Verification**

All criteria for the initial calibration and initial calibration verifications of the method were met.

## **IV. Continuing Calibration**

All criteria for the continuing calibration verifications of the method were met.

## **V. Laboratory Blanks**

Laboratory blanks were performed as required by the method. No contaminant concentrations were detected in the laboratory blanks.

## **VI. Field Blanks**

One equipment blank was collected and analyzed for carbon tetrachloride. No contaminants were found.

Two field blanks were collected and analyzed for carbon tetrachloride. No contaminants were found.

## **VII. Surrogates**

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the exception of five samples for carbon tetrachloride. The associated sample results were qualified as detected estimated (J-/J+) or non-detected estimated (UJ) as applicable. No data were qualified due to high %Rs when the associated sample results were non-detected. The details regarding the qualification of data are provided in Enclosure I.

## **VIII. Matrix Spike/Matrix Spike Duplicates**

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## **IX. Laboratory Control Samples**

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

## **X. Field Duplicates**

One field duplicate pair was collected and analyzed for carbon tetrachloride. All RPDs were within QC limits. The field duplicate result comparisons are provided in Enclosures I and II.

## **XI. Internal Standards**

All internal standard areas and retention times were within QC limits.

## **XII. Compound Quantitation**

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

All compounds reported below the limit of quantitation (LOQ) as detected by the laboratory were qualified as detected estimated (J). The details regarding the qualification of data are provided in Enclosure I.

## **XIII. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to surrogate %R, data were qualified as estimated in three samples.

Due to results below the LOQ, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

Data flags are summarized and are presented as Attachment 2.

**Attachment 1**  
**Sample Cross Reference**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Sep-2020	2036W0BW094F	FA78443-1	N	5030B	EPA8260-SIM	Stage 2B
01-Sep-2020	2036W0BW096C	FA78443-2	FB	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW116F	FA78564-1	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW116FMS	FA78564-1MS	MS	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW116FMSD	FA78564-1MSD	MSD	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW117B	FA78564-2	EB	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036WOU2118F	FA78564-3	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036WOU2121F	FA78564-4	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW122C	FA78564-5	FB	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW244F	FA78564-6	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW100F	FA78570-1	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW100FMS	FA78570-1MS	MS	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW100FMSD	FA78570-1MSD	MSD	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW101F	FA78570-2	N	5030B	EPA8260-SIM	Stage 4
02-Sep-2020	2036X0BW224F	FA78570-3	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036X0BW226F	FA78570-4	N	5030B	EPA8260-SIM	Stage 4
02-Sep-2020	2036X0BW227D	FA78570-5	FD	5030B	EPA8260-SIM	Stage 2B

**Attachment 2**  
**Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: FA78443, FA78564, FA78570

Laboratory: ACTO

EDD Filename: FA78443ACTO, FA78564ACTO, FA78570ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78443

Method Category: VOA

Method: EPA8260-SIM

Matrix: AQ

Sample ID:2036W0BW094F

Collected:9/1/2020 1:40:00 PM Analysis Type:1RES

Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	4.0		0.25	LOD	0.50	LOQ	ug/L	J+	Surr

SDG: FA78564

Method Category: VOA

Method: EPA8260-SIM

Matrix: AQ

Sample ID:2036WOU2118F

Collected:9/3/2020 12:45:00 PM Analysis Type:1RES

Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	6.6		0.25	LOD	0.50	LOQ	ug/L	J+	Surr

Sample ID:2036WOU2121F

Collected:9/3/2020 2:05:00 PM Analysis Type:1RES

Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Surr

SDG: FA78570

Method Category: VOA

Method: EPA8260-SIM

Matrix: AQ

Sample ID:2036X0BW227D

Collected:9/2/2020 2:20:00 PM Analysis Type:1RES

Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.49	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

Project Name and Number: 21065 - Fort Ord Groundwater Monitoring

10/16/2020 12:21:41 PM

ADR version 1.9.0.325

Page 1 of 2



# Data Qualifier Summary

Lab Reporting Batch ID: FA78443, FA78564, FA78570

Laboratory: ACTO

EDD Filename: FA78443ACTO, FA78564ACTO,  
FA78570ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

\* denotes a non-reportable result

**Project Name and Number: 21065 - Fort Ord Groundwater Monitoring**

10/16/2020 12:21:41 PM

ADR version 1.9.0.325

Page 2 of 2

**Enclosure I**  
**Stage 2B ADR Outliers**  
**(Including Manual Review Outliers)**

# Quality Control Outlier Reports

FA78443

# Surrogate Outlier Report

Lab Reporting Batch ID: FA78443

Laboratory: ACTO

EDD Filename: FA78443ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

<i>Sample ID (Analysis Type)</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
2036W0BW094F (1RES)	1,2-DICHLOROETHANE-D4	125	81.00-118.00	All Target Analytes	J+ (all detects)
2036W0BW096C (1RES)	1,2-DICHLOROETHANE-D4	126	81.00-118.00	All Target Analytes	J+(all detects)

LDC #: 49257A1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78443

ADR

Laboratory: SGS North America, Inc.

Date: 10/17/20

Page: 1 of 1

Reviewer: P

2nd Reviewer:

**METHOD:** GC/MS Carbon Tetrachloride (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	Δ Δ	r <sup>2</sup> ICV ≤ 20
IV.	Continuing calibration <i>ending</i>	Δ	CCV ≤ 20/50
V.	Laboratory Blanks	N	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	N	
X.	Field duplicates	N	
XI.	Internal standards	Δ	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

	Client ID	Lab ID	Matrix	Date
1	2036W0BW094F	FA78443-1	Water	09/01/20
2	2036W0BW096C	FA78443-2	Water	09/01/20
3				
4				
5				
6				
7				
8				
9				

Notes:

YZ 2410				

# Quality Control Outlier Reports

FA78564

# Surrogate Outlier Report

Lab Reporting Batch ID: FA78564

Laboratory: ACTO

EDD Filename: FA78564ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

<i>Sample ID (Analysis Type)</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
2036WOU2118F (1RES)	1,2-DICHLOROETHANE-D4	120	81.00-118.00	All Target Analytes	J+ (all detects)
2036WOU2121F (1RES)	TOLUENE-D8	88	89.00-112.00	All Target Analytes	J-(all detects) UJ(all non-detects)
2036WOU2121F (1RES)	1,2-DICHLOROETHANE-D4	119	81.00-118.00	All Target Analytes	J+(all detects)

LDC #: 49257B1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78564

ADR

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS Carbon Tetrachloride (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ, Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	Δ, Δ	% PSD ≤ 15      ICV ≤ 20
IV.	Continuing calibration <i>trending</i>	Δ	CV ≤ 20/50
V.	Laboratory Blanks	N	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	N	
X.	Field duplicates	N	
XI.	Internal standards	Δ	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

	Client ID	Lab ID	Matrix	Date
1	2036W0BW116F	FA78564-1	Water	09/03/20
2	2036W0BW117B	FA78564-2	Water	09/03/20
3	2036W0BW118F	FA78564-3	Water	09/03/20
4	2036W0BW121F	FA78564-4	Water	09/03/20
5	2036W0BW122C	FA78564-5	Water	09/03/20
6	2036W0BW244F	FA78564-6	Water	09/03/20
7	2036W0BW116FMS	FA78564-1MS	Water	09/03/20
8	2036W0BW116FMSD	FA78564-1MSD	Water	09/03/20
9				

Notes:

√ 02360				
√ Z2417				



# Quality Control Outlier Reports

FA78570

# Reporting Limit Outliers

Lab Reporting Batch ID: FA78570

Laboratory: ACTO

EDD Filename: FA78570ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
2036X0BW227D	CARBON TETRACHLORIDE	J	0.49	0.50	LOQ	ug/L	J (all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: FA78570

Laboratory: ACTO

EDD Filename: FA78570ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

<i>Analyte</i>	<i>Concentration (ug/L)</i>		<i>Sample RPD</i>	<i>eQAPP RPD</i>	<i>Flag</i>
	2036X0BW226F	2036X0BW227D			
CARBON TETRACHLORIDE	0.52	0.49	6	30.00	No Qualifiers Applied

LDC #: 49257C1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78570

ADR/Stage 4

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS Carbon Tetrachloride (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	A/Δ	% PSD ≤ 15      ICV ≤ 20
IV.	Continuing calibration <i>ending</i>	A	CV ≤ 20   50
V.	Laboratory Blanks	N	Not reviewed for ADR validation.
VI.	Field blanks		
VII.	Surrogate spikes		Not reviewed for ADR validation.
VIII.	Matrix spike/Matrix spike duplicates		Not reviewed for ADR validation.
IX.	Laboratory control samples		Not reviewed for ADR validation.
X.	Field duplicates		
XI.	Internal standards	Δ	Not reviewed for ADR validation.
XII.	Compound quantitation RL/LOQ/LODs	N	Not reviewed for ADR validation.
XIII.	Target compound identification		Not reviewed for ADR validation.
XIV.	System performance		Not reviewed for ADR validation.
XV.	Overall assessment of data		Not reviewed for ADR validation.

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

SB=Source blank  
 OTHER:

\*\* Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	2036W0BW100F	FA78570-1	Water	09/02/20
2	2036W0BW101F**	FA78570-2**	Water	09/02/20
3	2036W0BW224F	FA78570-3	Water	09/02/20
4	2036W0BW226F**	FA78570-4**	Water	09/02/20
5	2036W0BW227D	FA78570-5	Water	09/02/20
6	2036W0BW100FMS	FA78570-1MS	Water	09/02/20
7	2036W0BW100FMSD	FA78570-1MSD	Water	09/02/20
8				
9				

Notes:


**Enclosure II**

**Stage 4 Data Validation Reports**

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Fort Ord, OUCTP-Upper

**LDC Report Date:** October 19, 2020

**Parameters:** Carbon Tetrachloride

**Validation Level:** Stage 4

**Laboratory:** SGS North America, Inc.

**Sample Delivery Group (SDG):** FA78570

<b>Sample Identification</b>	<b>Laboratory Sample Identification</b>	<b>Matrix</b>	<b>Collection Date</b>
2036W0BW101F	FA78570-2	Water	09/02/20
2036X0BW226F	FA78570-4	Water	09/02/20

## Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California (Revision 7, August 2019), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and the USACE Guidance for Evaluating Performance-Based Chemical Data (June 2005). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Carbon Tetrachloride by Environmental Protection Agency (EPA) SW 846 Method 8260B in Selected Ion Monitoring (SIM) mode

All sample results were subjected to Stage 4 data validation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J+ (Estimated, High Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying high bias, due to non-conformances discovered during data validation.
- J- (Estimated, Low Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying low bias, due to non-conformances discovered during data validation.
- J (Estimated, Bias Indeterminate): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation. Bias is indeterminate.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.



## **I. Sample Receipt and Technical Holding Times**

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## **II. GC/MS Instrument Performance Check**

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

## **III. Initial Calibration and Initial Calibration Verification**

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 15.0%.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0%.

## **IV. Continuing Calibration**

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0%.

The percent differences (%D) of the ending continuing calibration verifications (CCVs) were less than or equal to 50.0%.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## **V. Laboratory Blanks**

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

## **VI. Field Blanks**

No field blanks were identified in this SDG.

## VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

## VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

## IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

## X. Field Duplicates

Samples 2036X0BW226F and 2036X0BW227D were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD (Limits)
	2036X0BW226F	2036X0BW227D	
Carbon tetrachloride	0.52	0.49	6.0 (≤30)

## XI. Internal Standards

All internal standard areas and retention times were within QC limits.

## XII. Compound Quantitation

All compound quantitations met validation criteria.

## XIII. Target Compound Identifications

All target compound identifications met validation criteria.

## XIV. System Performance

The system performance was acceptable.

## XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable.

**Fort Ord, OUCTP-Upper  
Carbon Tetrachloride - Data Qualification Summary - SDG FA78570**

No Sample Data Qualified in this SDG

**Fort Ord, OUCTP-Upper  
Carbon Tetrachloride - Laboratory Blank Data Qualification Summary - SDG  
FA78570**

No Sample Data Qualified in this SDG

**Fort Ord, OUCTP-Upper  
Carbon Tetrachloride - Field Blank Data Qualification Summary - SDG FA78570**

No Sample Data Qualified in this SDG

LDC #: 49257C1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78570

ADR/Stage 4

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS Carbon Tetrachloride (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A Δ	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A Δ	% PSD ≤ 15 ICV ≤ 20
IV.	Continuing calibration <i>ending</i>	Δ	CW ≤ 20 / 50
V.	Laboratory Blanks	A	Not reviewed for ADR validation.
VI.	Field blanks	N	
VII.	Surrogate spikes	A	Not reviewed for ADR validation.
VIII.	Matrix spike/Matrix spike duplicates	A	Not reviewed for ADR validation.
IX.	Laboratory control samples	Δ	Not reviewed for ADR validation. LC >
X.	Field duplicates	SW	ID = 4.5
XI.	Internal standards	Δ	Not reviewed for ADR validation.
XII.	Compound quantitation RL/LOQ/LODs	Δ	Not reviewed for ADR validation.
XIII.	Target compound identification	Δ	Not reviewed for ADR validation.
XIV.	System performance	Δ	Not reviewed for ADR validation.
XV.	Overall assessment of data	Δ	Not reviewed for ADR validation.

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

SB=Source blank  
 OTHER:

\*\* Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	<del>2036W0BW100F</del>	FA78570-1	Water	09/02/20
2	2036W0BW101F**	FA78570-2**	Water	09/02/20
3	<del>2036W0BW224F</del>	FA78570-3	Water	09/02/20
4	<del>2036W0BW226F</del> D	FA78570-4**	Water	09/02/20
5	<del>2036W0BW227D</del> D	FA78570-5	Water	09/02/20
6	2036W0BW100FMS	FA78570-1MS	Water	09/02/20
7	<del>2036W0BW100FMSD</del>	FA78570-1MSD	Water	09/02/20
8				
9				

Notes:

102397				

Method: Volatiles (EPA SW 846 Method 8260 **b**)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
<b>II. GC/MS Instrument performance check</b>				
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
<b>IIIa. Initial calibration</b>				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) $\leq$ 15% and relative response factors (RRF) within method criteria?	/			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of $\geq$ 0.990?			/	
<b>IIIb. Initial Calibration Verification</b>				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) $\leq$ 20%?	/			
<b>IV. Continuing calibration</b>				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) $\leq$ 20% and relative response factors (RRF) within method criteria?	/			
Were all percent differences (%D) $\leq$ 50% for closing calibration verifications?	/			
<b>V. Laboratory Blanks</b>				
Was a laboratory blank associated with every sample in this SDG?	/			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	/			
Was there contamination in the laboratory blanks?		/		
<b>VI. Field blanks</b>				
Were field blanks were identified in this SDG?		/		
Were target compounds detected in the field blanks?			/	
<b>VII. Surrogate spikes</b>				
Were all surrogate percent recovery (%R) within QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
<b>VIII. Matrix spike/Matrix spike duplicates</b>				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	/			

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>IX. Laboratory control samples</b>				
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>X. Field duplicates</b>				
Were field duplicate pairs identified in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were target compounds detected in the field duplicates?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XI. Internal standards</b>				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were retention times within + 30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XII. Compound quantitation</b>				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XIII. Target compound identification</b>				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XIV. System performance</b>				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XV. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## TARGET COMPOUND WORKSHEET

### METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

**METHOD:** GCMS VOA (EPA SW 846 Method 8260 B)

Y N N/A      Were field duplicate pairs identified in this SDG?  
Y N N/A      Were target compounds detected in the field duplicate pairs?

Compound	Concentration ( <u>ug/L</u> )		RPD ( ≤ <u>30</u> % )	QUAL
	<u>4</u>	<u>5</u>		
<u>0</u>	<u>0.52</u>	<u>0.49</u>	<u>6.0</u>	/

Compound	Concentration (            )		RPD ( ≤        % )	QUAL

Compound	Concentration (            )		RPD ( ≤        % )	QUAL

Compound	Concentration (            )		RPD ( ≤        % )	QUAL



**VALIDATION FINDINGS WORKSHEET**  
**Initial Calibration Calculation Verification**

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$

average RRF = sum of the RRFs/number of standards

$\%RSD = 100 * (S/X)$

$A_x$  = Area of compound,

$C_x$  = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

$A_{is}$  = Area of associated internal standard

$C_{is}$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalc	Reported	Recalc	Reported	Recalc
				RRF (5.0 std)	RRF (5.0 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL GEMSO	9/11/20	0 (1st internal standard)	0.571	0.571	0.544	0.544	5.38	5.30
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

LDC #: 49257016

**VALIDATION FINDINGS WORKSHEET**  
**Continuing Calibration Results Verification**

Page: 1 of 1  
 Reviewer: FT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 \* (ave. RRF - RRF)/ave. RRF  
 $RRF = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF  
 RRF = continuing calibration RRF  
 A<sub>x</sub> = Area of compound, A<sub>is</sub> = Area of associated internal standard  
 C<sub>x</sub> = Concentration of compound, C<sub>is</sub> = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv 0815	9/11/20	☉ (IS1)	0.450	0.410	0.410	10.5	10.5
			(IS2)					
			(IS3)					
			(IS4)					
			(IS5)					
2			(IS1)					
			(IS2)					
			(IS3)					
			(IS4)					
			(IS5)					
3			(IS1)					
			(IS2)					
			(IS3)					
			(IS4)					
			(IS5)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 49257c1b

**VALIDATION FINDINGS WORKSHEET**  
**Surrogate Results Verification**

Page: 1 of 1  
 Reviewer: FT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 β)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery:  $SF/SS * 100$

Where: SF = Surrogate Found  
 SS = Surrogate Spiked

**Sample ID:** 4

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4	5.0	5.11	102	102	0
Toluene-d8	↓	4.94	99	99	0
Bromofluorobenzene					

**Sample ID:**

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

**Sample ID:**

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

**Sample ID:**

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

**Sample ID:**

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 49257C1b

**VALIDATION FINDINGS WORKSHEET**  
**Matrix Spike/Matrix Spike Duplicates Results Verification**

Page: 1 of 1  
 Reviewer: FT

**METHOD:** GC/MS VOA (EPA Method 8260 **B**)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 \* (SSC - SC)/SA

Where: SSC = Spiked sample concentration  
 SA = Spike added

SC = Sample concentration

RPD = | MSC - MSC | \* 2 / (MSC + MSCD)

MSC = Matrix spike concentration

MSCD = Matrix spike duplicate concentration

MS/MSD sample: 6 + 7

Compound	Spike Added (ug/l)		Sample Concentration (ug/l)	Spiked Sample Concentration (ug/l)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
<del>1,1-Dichloroethene</del>	50	50	ND	49.4	52.8	99	99	106	106	7	7
<del>Trichloroethene</del>											
<del>Benzene</del>											
<del>Toluene</del>											
<del>Chlorobenzene</del>											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 49257C1b

**VALIDATION FINDINGS WORKSHEET**  
**Laboratory Control Sample Results Verification**

Page: 1 of 1  
 Reviewer: FT

**METHOD:** GC/MS VOA (EPA Method 8260 B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery =  $100 * SSC/SA$

Where: SSC = Spiked sample concentration  
 SA = Spike added

RPD =  $100 * |LCSC - LCSDC| / (LCSC + LCSDC)$

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: ND2357BS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
<del>1,1-Dichloroethene</del>	5	NA	5.9	NA	118	118	NA			
<del>Trichloroethene</del>										
<del>Benzene</del>										
<del>Toluene</del>										
<del>Chlorobenzene</del>										

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 49257CB

## VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 1 of 1  
Reviewer: FT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A  
Y N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

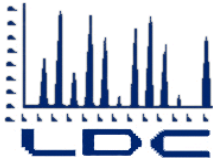
- A<sub>x</sub> = Area of the characteristic ion (EICP) for the compound to be measured
- A<sub>is</sub> = Area of the characteristic ion (EICP) for the specific internal standard
- I<sub>s</sub> = Amount of internal standard added in nanograms (ng)
- RRF = Relative response factor of the calibration standard.
- V<sub>o</sub> = Volume or weight of sample pruged in milliliters (ml) or grams (g).
- Df = Dilution factor.
- %S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #2, σ:

$$\begin{aligned} \text{Conc.} &= \frac{(30116)(5.0)}{(287790)(0.94)} \\ &= 0.9618 \text{ ug/l} \end{aligned}$$

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#2	σ	0.96	0.9618	



# LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Ahtna Global, LLC.  
9699 Blue Larkspur Lane, Suite 201  
Monterey, CA 93940  
ATTN: Mr. Eric A. Schmidt  
[Eschmidt@ahtna.net](mailto:Eschmidt@ahtna.net)

October 20, 2020

SUBJECT: Fort Ord, OUCTP-Lower, Data Validation

Dear Mr. Schmidt,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on September 29, 2020. Attachment 1 is a summary of the samples that were reviewed for each analysis.

**LDC Project #49258:**

<b><u>SDG #</u></b>	<b><u>Fraction</u></b>
FA78405, FA78559 FA78571	Volatiles

The data validation was performed under Stage 2B & 4 guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California; Revision 7, August 2019
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, Version 5.1; 2017
- USACE Guidance for Evaluating Performance-Based Chemical Data; June 2005
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng  
[Pgeng@lab-data.com](mailto:Pgeng@lab-data.com)  
Project Manager/Senior Chemist

ADR/Stage 4 90/10

**LDC#49258 (AHTNA Engineering Services-Marina, CA / Fort Ord, OUCTP-Lower)**

Project # 21065.000.01.0000

LDC	SDG#	DATE REC'D	(3) DATE DUE	(3)VOA (8260B -SIM)																																		
					W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S		
Matrix: Water/Soil					W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S		
A	FA78405	09/29/20	10/20/20	3 0																																		
B	FA78559	09/29/20	10/20/20	10 0																																		
C	FA78571	09/29/20	10/20/20	18 0																																		
C	FA78571	09/29/20	10/20/20	4 0																																		
Total	T/PG			35 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35

Shaded cells indicate Stage 4 validation (all other cells are ADR validation). These sample counts do not include MS/MSD, and DUPs



**Data Validation Report  
Fort Ord, OUCTP - Lower**

**SDGs: FA78405, FA78559, and FA78571**

Prepared for

**Ahtna Environmental Inc.**  
296 12th Street  
Marina, California 93933-6001

Prepared by

**Laboratory Data Consultants, Inc**  
2701 Loker Ave West, Suite 220  
Carlsbad, CA 92010

October 19, 2020

## INTRODUCTION

This Data Validation Report (DVR) presents Stage 2B and 4 data validation results for samples collected during the August through September 2020 sampling period. Data validation was performed in accordance with the Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California (Revision 7, August 2019), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and the USACE Guidance for Evaluating Performance-Based Chemical Data (June 2005). Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260B in Selection Ion Monitoring (SIM) mode

The sample identification and method of analyses performed on each sample is presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Stage 2B Automated Data Review outliers are presented in Enclosure I. DVRs for samples on which Stage 4 validation was performed are presented in Enclosure II.

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results for sample holding times, initial and continuing calibrations, surrogates, matrix spike/matrix spike duplicates (MS/MSD), internal standards, laboratory control sample (LCS), laboratory blanks, trip blanks, field blanks, and field duplicates. Approximately 10 percent of samples were subjected to Stage 4 evaluation as indicated in Attachment 1, which comprises a review of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

Automated data review was performed on all QC summary results using the Automated Data Review (ADR) software program (LDC, 2013) with the exception of the calibrations and internal standards, which were validated manually. Quality assurance (QA)/QC criteria specified in the QAPP, DoD QSM, and EM-200-1-10 were incorporated with the program's reference library to assess compliance with project requirements.

The following are definitions of the data qualifiers utilized during data validation:

- J+ (Estimated, High Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying high bias, due to non-conformances discovered during data validation.
- J- (Estimated, Low Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying low bias, due to non-conformances discovered during data validation.
- J (Estimated, Bias Indeterminate): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation. Bias is indeterminate.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

## **I. Sample Receipt & Technical Holding Times**

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## **II. Instrument Performance Check**

Instrument performance was checked at the frequency required by the method.

All criteria for the instrument performance check were met.

## **III. Initial Calibration and Initial Calibration Verification**

All criteria for the initial calibration and initial calibration verifications of the method were met.

## **IV. Continuing Calibration**

All criteria for the continuing calibration verifications of the method were met.

## **V. Laboratory Blanks**

Laboratory blanks were performed as required by the method. No contaminant concentrations were detected in the laboratory blanks.

## **VI. Field Blanks**

Four trip blanks were collected and analyzed for VOCs. No contaminants were found.

Three field blanks were collected and analyzed for VOCs. No contaminants were found.

## **VII. Surrogates**

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the exception of five samples for VOCs. The associated sample results were qualified as detected estimated (J-/J+) or non-detected estimated (UJ) as applicable. The details regarding the qualification of data are provided in Enclosure I.

## **VIII. Matrix Spike/Matrix Spike Duplicates**

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## **IX. Laboratory Control Samples**

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

## **X. Field Duplicates**

Five field duplicate pairs were collected and analyzed for VOCs. All RPDs were within QC limits with the exception of trichloroethylene in one duplicate pair and carbon tetrachloride in two duplicate pairs. No data were qualified on the basis of field duplicate RPDs outside the QC limits. The field duplicate result comparisons are provided in Enclosures I and II.

## **XI. Internal Standards**

All internal standard areas and retention times were within QC limits.

## **XII. Compound Quantitation**

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

All compounds reported below the limit of quantitation (LOQ) as detected by the laboratory were qualified as detected estimated (J). The details regarding the qualification of data are provided in Enclosures I and II.

## **XIII. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to surrogate %R, data were qualified as estimated in four samples.

Due to results below the LOQ, data were qualified as estimated in twelve samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

Data flags are summarized and are presented as Attachment 2.

**Attachment 1**  
**Sample Cross Reference**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
31-Aug-2020	2036W0BW086A	FA78405-1	TB	5030B	EPA8260-SIM	Stage 2B
31-Aug-2020	2036W0BW087F	FA78405-2	N	5030B	EPA8260-SIM	Stage 2B
31-Aug-2020	2036W0BW089C	FA78405-3	FB	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW111A	FA78559-1	TB	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036X0BW235F	FA78559-10	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW111AMS	FA78559-1MS	MS	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW111AMSD	FA78559-1MSD	MSD	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW112F	FA78559-2	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW113D	FA78559-3	FD	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW114F	FA78559-4	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036W0BW115F	FA78559-5	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036WOU2119F	FA78559-6	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036WOU2120F	FA78559-7	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036YOU2424F	FA78559-8	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036YOU2447C	FA78559-9	FB	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036Z0BW229F	FA78571-1	N	5030B	EPA8260-SIM	Stage 4
02-Sep-2020	2036W0BW102F	FA78571-10	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW103F	FA78571-11	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW104F	FA78571-12	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW105D	FA78571-13	FD	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW106F	FA78571-14	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW107F	FA78571-15	N	5030B	EPA8260-SIM	Stage 4
02-Sep-2020	2036W0BW108D	FA78571-16	FD	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW108DMS	FA78571-16MS	MS	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW108DMSD	FA78571-16MSD	MSD	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW109F	FA78571-17	N	5030B	EPA8260-SIM	Stage 2B

*N = Normal Sample*  
*FD = Field Duplicate*  
*TB = Trip Blank*

*MS = Matrix Spike*  
*MSD = Matrix Spike Duplicate*  
*FB = Field Blank*

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Sep-2020	2036W0BW110C	FA78571-18	FB	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036Y0BW415F	FA78571-19	N	5030B	EPA8260-SIM	Stage 4
03-Sep-2020	2036Z0BW230F	FA78571-2	N	5030B	EPA8260-SIM	Stage 4
02-Sep-2020	2036Y0BW416D	FA78571-20	FD	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036YOU2421F	FA78571-21	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036YOU2422F	FA78571-22	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036Z0BW231D	FA78571-3	FD	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036Z0BW232F	FA78571-4	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036Z0BW233F	FA78571-5	N	5030B	EPA8260-SIM	Stage 2B
03-Sep-2020	2036Z0BW234A	FA78571-6	TB	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW097A	FA78571-7	TB	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW098F	FA78571-8	N	5030B	EPA8260-SIM	Stage 2B
02-Sep-2020	2036W0BW099F	FA78571-9	N	5030B	EPA8260-SIM	Stage 2B



**Attachment 2**  
**Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: FA78405, FA78559, FA78571

Laboratory: ACTO

EDD Filename: FA78405ACTO, FA78559ACTO, FA78571ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78405

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

8/31/2020 11:55:00

**Sample ID:**2036W0BW087F

**Collected:**AM

**Analysis Type:**1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.30	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

SDG: FA78559

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:**2036W0BW113D

**Collected:**9/3/2020 8:35:00 AM

**Analysis Type:**1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	0.81		0.25	LOD	0.50	LOQ	ug/L	J+	Surr

9/3/2020 12:55:00

**Sample ID:**2036WOU2119F

**Collected:**PM

**Analysis Type:**1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	0.40	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:**2036X0BW235F

**Collected:**9/3/2020 8:28:00 AM

**Analysis Type:**1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.45	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr
Trichloroethylene	0.10	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

**Sample ID:**2036YOU2424F

**Collected:**9/3/2020 7:35:00 AM

**Analysis Type:**1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Surr
CARBON TETRACHLORIDE	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Surr
Trichloroethylene	4.5		0.25	LOD	0.50	LOQ	ug/L	J-	Surr

\* denotes a non-reportable result

Project Name and Number: 21065 - Fort Ord Groundwater Monitoring

10/16/2020 12:34:23 PM

ADR version 1.9.0.325

Page 1 of 4

# Data Qualifier Summary

Lab Reporting Batch ID: FA78405, FA78559, FA78571

Laboratory: ACTO

EDD Filename: FA78405ACTO, FA78559ACTO, FA78571ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78559

**Method Category:** VOA  
**Method:** EPA8260-SIM **Matrix:** AQ

**Sample ID:** 2036YOU2447C **Collected:** 9/3/2020 3:10:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Surr
CARBON TETRACHLORIDE	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Surr
Trichloroethylene	0.50	U	0.25	LOD	0.50	LOQ	ug/L	UJ	Surr

SDG: FA78571

**Method Category:** VOA  
**Method:** EPA8260-SIM **Matrix:** AQ

9/2/2020 11:25:00

**Sample ID:** 2036W0BW103F **Collected:** AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036W0BW106F **Collected:** 9/2/2020 2:15:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	0.39	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036W0BW109F **Collected:** 9/2/2020 2:45:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036Y0BW415F **Collected:** 9/2/2020 2:10:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.10	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

Project Name and Number: 21065 - Fort Ord Groundwater Monitoring

10/16/2020 12:34:23 PM

ADR version 1.9.0.325

Page 2 of 4

## Data Qualifier Summary

Lab Reporting Batch ID: FA78405, FA78559, FA78571

Laboratory: ACTO

EDD Filename: FA78405ACTO, FA78559ACTO,  
FA78571ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

SDG: FA78571

**Method Category:** VOA

**Method:** EPA8260-SIM

**Matrix:** AQ

**Sample ID:** 2036Z0BW229F

**Collected:** 9/3/2020 7:45:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.21	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.45	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036Z0BW230F

**Collected:** 9/3/2020 7:55:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036Z0BW231D

**Collected:** 9/3/2020 8:00:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.14	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036Z0BW232F

**Collected:** 9/3/2020 8:15:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.15	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

**Sample ID:** 2036Z0BW233F

**Collected:** 9/3/2020 8:30:00 AM **Analysis Type:** 1RES

**Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBON TETRACHLORIDE	0.36	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

\* denotes a non-reportable result

**Project Name and Number:** 21065 - Fort Ord Groundwater Monitoring

10/16/2020 12:34:23 PM

ADR version 1.9.0.325

Page 3 of 4

# Data Qualifier Summary

Lab Reporting Batch ID: FA78405, FA78559, FA78571

Laboratory: ACTO

EDD Filename: FA78405ACTO, FA78559ACTO,  
FA78571ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

\* denotes a non-reportable result

**Project Name and Number: 21065 - Fort Ord Groundwater Monitoring**

10/16/2020 12:34:23 PM

ADR version 1.9.0.325

Page 4 of 4

**Enclosure I**  
**Stage 2B ADR Outliers**  
**(Including Manual Review Outliers)**

# Quality Control Outlier Reports

FA78405

# Reporting Limit Outliers

Lab Reporting Batch ID: FA78405

Laboratory: ACTO

EDD Filename: FA78405ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

**Method:** EPA8260-SIM

**Matrix:** AQ

<b>SampleID</b>	<b>Analyte</b>	<b>Lab Qual</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>RL Type</b>	<b>Units</b>	<b>Flag</b>
2036W0BW087F	CARBON TETRACHLORIDE	J	0.30	0.50	LOQ	ug/L	J (all detects)



LDC #: 49258A1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78405

ADR

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 1 of 1

Reviewer: KR

2nd Reviewer: KR

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

*only*

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ / Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	Δ / Δ	% PSD = 15, 1 <sup>2</sup> ICV ≤ 20
IV.	Continuing calibration <i>ending</i>	A	CCV ≤ 20   50
V.	Laboratory Blanks	N	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	N	
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

	Client ID	Lab ID	Matrix	Date
1	2036W0BW086A	FA78405-1	Water	08/31/20
2	2036W0BW087F	FA78405-2	Water	08/31/20
3	2036W0BW089C	FA78405-3	Water	08/31/20
4				
5				
6				
7				
8				
9				

Notes:

VZ 2409					

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# Quality Control Outlier Reports

FA78559

# Surrogate Outlier Report

Lab Reporting Batch ID: FA78559

Laboratory: ACTO

EDD Filename: FA78559ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

**Method:** EPA8260-SIM  
**Matrix:** AQ

<i>Sample ID (Analysis Type)</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
2036W0BW113D (1RES)	1,2-DICHLOROETHANE-D4	119	81.00-118.00	All Target Analytes	J+ (all detects)
2036W0BW114F (1RES)	1,2-DICHLOROETHANE-D4	119	81.00-118.00	All Target Analytes	J+(all detects)
2036X0BW235F (1RES)	1,2-DICHLOROETHANE-D4	120	81.00-118.00	All Target Analytes	J+(all detects)
2036YOU2424F (1RES)	TOLUENE-D8	88	89.00-112.00	All Target Analytes	J-(all detects) UJ(all non-detects)
2036YOU2447C (1RES)	TOLUENE-D8	72	89.00-112.00	All Target Analytes	J-(all detects) UJ(all non-detects)
2036YOU2447C (1RES)	1,2-DICHLOROETHANE-D4	120	81.00-118.00	All Target Analytes	J+(all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: FA78559

Laboratory: ACTO

EDD Filename: FA78559ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

**Method:** EPA8260-SIM

**Matrix:** AQ

<b>SampleID</b>	<b>Analyte</b>	<b>Lab Qual</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>RL Type</b>	<b>Units</b>	<b>Flag</b>
2036WOU2119F	Trichloroethylene	J	0.40	0.50	LOQ	ug/L	J (all detects)
2036X0BW235F	CARBON TETRACHLORIDE	J	0.45	0.50	LOQ	ug/L	J (all detects)
	Trichloroethylene	J	0.10	0.50	LOQ	ug/L	

# Field Duplicate RPD Report

Lab Reporting Batch ID: FA78559

Laboratory: ACTO

EDD Filename: FA78559ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036W0BW112F	2036W0BW113D			
Trichloroethylene	1.3	0.81	46	30.00	No Qualifiers Applied

LDC #: 49258B1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78559

ADR

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	A Δ	% RSD ≤ 15      ICV ≤ 20
IV.	Continuing calibration	Δ	CCV ≤ 20   50
V.	Laboratory Blanks	N	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	N	
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	N	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

	Client ID	Lab ID	Matrix	Date
1	2036W0BW111A	FA78559-1	Water	09/03/20
2	2036W0BW112F	FA78559-2	Water	09/03/20
3	2036W0BW113D	FA78559-3	Water	09/03/20
4	2036W0BW114F	FA78559-4	Water	09/03/20
5	2036W0BW115F	FA78559-5	Water	09/03/20
6	2036WOU2119F	FA78559-6	Water	09/03/20
7	2036WOU2120F	FA78559-7	Water	09/03/20
8	2036YOU2424F	FA78559-8	Water	09/03/20
9	2036YOU2447C	FA78559-9	Water	09/03/20
10	2036X0BW235F	FA78559-10	Water	09/03/20
11	2036W0BW111AMS	FA78559-1MS	Water	09/03/20
12	2036W0BW111AMSD	FA78559-1MSD	Water	09/03/20
13				
14	202361			

e, H, S

# Quality Control Outlier Reports

FA78571

## Reporting Limit Outliers

Lab Reporting Batch ID: FA78571

Laboratory: ACTO

EDD Filename: FA78571ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

**Method:** EPA8260-SIM

**Matrix:** AQ

<i>SampleID</i>	<i>Analyte</i>	<i>Lab Qual</i>	<i>Result</i>	<i>Reporting Limit</i>	<i>RL Type</i>	<i>Units</i>	<i>Flag</i>
2036W0BW103F	CARBON TETRACHLORIDE	J	0.13	0.50	LOQ	ug/L	J (all detects)
2036W0BW106F	Trichloroethylene	J	0.39	0.50	LOQ	ug/L	J (all detects)
2036W0BW109F	CARBON TETRACHLORIDE	J	0.17	0.50	LOQ	ug/L	J (all detects)
2036Y0BW415F	CARBON TETRACHLORIDE	J	0.10	0.50	LOQ	ug/L	J (all detects)
2036Z0BW229F	CARBON TETRACHLORIDE Trichloroethylene	J J	0.21 0.45	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2036Z0BW230F	CARBON TETRACHLORIDE	J	0.13	0.50	LOQ	ug/L	J (all detects)
2036Z0BW231D	CARBON TETRACHLORIDE	J	0.14	0.50	LOQ	ug/L	J (all detects)
2036Z0BW232F	CARBON TETRACHLORIDE	J	0.15	0.50	LOQ	ug/L	J (all detects)
2036Z0BW233F	CARBON TETRACHLORIDE	J	0.36	0.50	LOQ	ug/L	J (all detects)



# Field Duplicate RPD Report

Lab Reporting Batch ID: FA78571

Laboratory: ACTO

EDD Filename: FA78571ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

Method: EPA8260-SIM

Matrix: AQ

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036Y0BW415F	2036Y0BW416D			
CARBON TETRACHLORIDE Trichloroethylene	0.10 9.8	0.25 U 8.9	200 10	30.00 30.00	No Qualifiers Applied
Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036Z0BW230F	2036Z0BW231D			
CARBON TETRACHLORIDE Trichloroethylene	0.13 0.84	0.14 0.84	7 0	30.00 30.00	No Qualifiers Applied
Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036W0BW104F	2036W0BW105D			
Trichloroethylene	3.7	3.2	14	30.00	No Qualifiers Applied
Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2036W0BW107F	2036W0BW108D			
CARBON TETRACHLORIDE	2.2	1.4	44	30.00	No Qualifiers Applied

LDC #: 49258C1b  
 SDG #: FA78571  
 Laboratory: SGS North America, Inc.

**VALIDATION COMPLETENESS WORKSHEET**

ADR/Stage 4

Date: 10/14/20  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	Δ Δ	%RSD ≤ 15      ICV ≤ 20
IV.	Continuing calibration <i>tending</i>	Δ	CW ≤ 20/SD
V.	Laboratory Blanks	N	Not reviewed for ADR validation.
VI.	Field blanks	↓	
VII.	Surrogate spikes	↓	Not reviewed for ADR validation.
VIII.	Matrix spike/Matrix spike duplicates	↓	Not reviewed for ADR validation.
IX.	Laboratory control samples	↓	Not reviewed for ADR validation.
X.	Field duplicates	↓	
XI.	Internal standards	Δ	Not reviewed for ADR validation.
XII.	Compound quantitation RL/LOQ/LODs	N	Not reviewed for ADR validation.
XIII.	Target compound identification	↓	Not reviewed for ADR validation.
XIV.	System performance	↓	Not reviewed for ADR validation.
XV.	Overall assessment of data	↓	Not reviewed for ADR validation.

Note: A = Acceptable      ND = No compounds detected      D = Duplicate      SB=Source blank  
 N = Not provided/applicable      R = Rinsate      TB = Trip blank      OTHER:  
 SW = See worksheet      FB = Field blank      EB = Equipment blank

\*\* Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	2036Z0BW229F**	FA78571-1**	Water	09/03/20
2	2036Z0BW230F**	FA78571-2**	Water	09/03/20
3	2036Z0BW231D	FA78571-3	Water	09/03/20
4	2036Z0BW232F	FA78571-4	Water	09/03/20
5	2036Z0BW233F	FA78571-5	Water	09/03/20
6	2036Z0BW234A	FA78571-6	Water	09/03/20
7	2036W0BW097A	FA78571-7	Water	09/02/20
8	2036W0BW098F	FA78571-8	Water	09/02/20
9	2036W0BW099F	FA78571-9	Water	09/02/20
10	2036W0BW102F	FA78571-10	Water	09/02/20
11	2036W0BW103F	FA78571-11	Water	09/02/20
12	2036W0BW104F	FA78571-12	Water	09/02/20
13	2036W0BW105D	FA78571-13	Water	09/02/20
14	2036W0BW106F	FA78571-14	Water	09/02/20

LDC #: 49258C1b

### VALIDATION COMPLETENESS WORKSHEET

Date: 10/14/20

SDG #: FA78571

ADR/Stage 4

Page: 1 of 1

Laboratory: SGS North America, Inc.

Reviewer: PT

2nd Reviewer: KIC

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

15	2036W0BW107F**	FA78571-15**	Water	09/02/20
16	2036W0BW108D	FA78571-16	Water	09/02/20
17	2036W0BW109F	FA78571-17	Water	09/02/20
18	2036W0BW110C	FA78571-18	Water	09/02/20
19	2036Y0BW415F**	FA78571-19**	Water	09/02/20
20	2036Y0BW416D	FA78571-20	Water	09/02/20
21	2036YOU2421F	FA78571-21	Water	09/02/20
22	2036YOU2422F	FA78571-22	Water	09/02/20
23	2036W0BW108DMS	FA78571-16MS	Water	09/02/20
24	2036W0BW108DMSD	FA78571-16MSD	Water	09/02/20
25				
26				
27				

Notes:


**Enclosure II**

**Stage 4 Data Validation Reports**

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** Fort Ord, OUCTP-Lower

**LDC Report Date:** October 14, 2020

**Parameters:** Volatiles

**Validation Level:** Stage 4

**Laboratory:** SGS North America, Inc.

**Sample Delivery Group (SDG):** FA78571

<b>Sample Identification</b>	<b>Laboratory Sample Identification</b>	<b>Matrix</b>	<b>Collection Date</b>
2036Z0BW229F	FA78571-1	Water	09/03/20
2036Z0BW230F	FA78571-2	Water	09/03/20
2036W0BW107F	FA78571-15	Water	09/02/20
2036Y0BW415F	FA78571-19	Water	09/02/20

## **Introduction**

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Volatiles Plume, Former Fort Ord, California (Revision 7, August 2019), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and the USACE Guidance for Evaluating Performance-Based Chemical Data (June 2005). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260B in Selected Ion Monitoring (SIM) mode

All sample results were subjected to Stage 4 data validation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J+ (Estimated, High Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying high bias, due to non-conformances discovered during data validation.
- J- (Estimated, Low Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying low bias, due to non-conformances discovered during data validation.
- J (Estimated, Bias Indeterminate): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation. Bias is indeterminate.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

## **I. Sample Receipt and Technical Holding Times**

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## **II. GC/MS Instrument Performance Check**

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

## **III. Initial Calibration and Initial Calibration Verification**

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 15.0% for all compounds.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

## **IV. Continuing Calibration**

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the ending continuing calibration verifications (CCVs) were less than or equal to 50.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## **V. Laboratory Blanks**

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

## **VI. Field Blanks**

Samples 2036Z0BW234A and 2036W0BW097A were identified as trip blanks. No contaminants were found.

Sample 2036W0BW110C was identified as a field blank. No contaminants were found.



## VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

## VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

## IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

## X. Field Duplicates

Samples 2036Z0BW230F and 2036Z0BW231D, samples 2036W0BW107F and 2036W0BW108D, and samples 2036Y0BW415F and 2036Y0BW416D were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD (Limits)
	2036Z0BW230F	2036Z0BW231D	
Carbon tetrachloride	0.13	0.14	7 (≤30)
Trichloroethene	0.84	0.84	0 (≤30)

Compound	Concentration (ug/L)		RPD (Limits)
	2036W0BW107F	2036W0BW108D	
Carbon tetrachloride	2.2	1.4	44 (≤30)

Compound	Concentration (ug/L)		RPD (Limits)
	2036Y0BW415F	2036Y0BW416D	
Carbon tetrachloride	0.10	0.25U	200 (≤30)
Trichloroethene	9.8	8.9	10 (≤30)

## XI. Internal Standards

All internal standard areas and retention times were within QC limits.

## XII. Compound Quantitation

All compound quantitations met validation criteria.

All compounds reported below the limit of quantitation (LOQ) were qualified as follows:

Sample	Finding	Flag	A or P
2036Z0BW229F 2036Z0BW230F 2036Y0BW415F	All compounds reported below the LOQ.	J (all detects)	A

## XIII. Target Compound Identifications

All target compound identifications met validation criteria.

## XIV. System Performance

The system performance was acceptable.

## XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to results below the LOQ, data were qualified as estimated in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable.

**Fort Ord, OUCTP-Lower  
Volatiles - Data Qualification Summary - SDG FA78571**

Sample	Compound	Flag	A or P	Reason
2036Z0BW229F 2036Z0BW230F 2036Y0BW415F	All compounds reported below the LOQ.	J (all detects)	A	Compound quantitation

**Fort Ord, OUCTP-Lower  
Volatiles - Laboratory Blank Data Qualification Summary - SDG FA78571**

No Sample Data Qualified in this SDG

**Fort Ord, OUCTP-Lower  
Volatiles - Field Blank Data Qualification Summary - SDG FA78571**

No Sample Data Qualified in this SDG

LDC #: 49258C1b

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: FA78571

ADR/Stage 4

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 1 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ / Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	Δ Δ	% PSD = 15      ICV = 20
IV.	Continuing calibration <i>tending</i>	Δ	ECV = 20/50
V.	Laboratory Blanks	N	Not reviewed for ADR validation.
VI.	Field blanks	ND	TB = 6, 7      FB = 18
VII.	Surrogate spikes	A	Not reviewed for ADR validation.
VIII.	Matrix spike/Matrix spike duplicates	Δ	Not reviewed for ADR validation.
IX.	Laboratory control samples	A	Not reviewed for ADR validation. LC >
X.	Field duplicates	SW	R = 3, 3      15, 16      19, 20
XI.	Internal standards	Δ	Not reviewed for ADR validation.
XII.	Compound quantitation RL/LOQ/LODs	Δ	Not reviewed for ADR validation.
XIII.	Target compound identification	Δ	Not reviewed for ADR validation.
XIV.	System performance	Δ	Not reviewed for ADR validation.
XV.	Overall assessment of data	Δ	Not reviewed for ADR validation.

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

\*\* Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	2036Z0BW229F**	FA78571-1**	Water	09/03/20
2	2036Z0BW230F** D	FA78571-2**	Water	09/03/20
3	<del>2036Z0BW231D</del> P	FA78571-3	Water	09/03/20
4	2036Z0BW232F	FA78571-4	Water	09/03/20
5	2036Z0BW233F	FA78571-5	Water	09/03/20
6	2036Z0BW234A -	FA78571-6	Water	09/03/20
7	2036W0BW097A -	FA78571-7	Water	09/02/20
8	2036W0BW098F	FA78571-8	Water	09/02/20
9	2036W0BW099F	FA78571-9	Water	09/02/20
10	2036W0BW102F	FA78571-10	Water	09/02/20
11	2036W0BW103F	FA78571-11	Water	09/02/20
12	2036W0BW104F	FA78571-12	Water	09/02/20
13	2036W0BW105D	FA78571-13	Water	09/02/20
14	2036W0BW106F	FA78571-14	Water	09/02/20

0, H, S

LDC #: 49258C1b

### VALIDATION COMPLETENESS WORKSHEET

SDG #: FA78571

ADR/Stage 4

Laboratory: SGS North America, Inc.

Date: 10/14/20

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B-SIM)

	Client ID	Lab ID	Matrix	Date
15	2036W0BW107F** D	FA78571-15**	Water	09/02/20
16	<del>2036W0BW108D</del> D	FA78571-16	Water	09/02/20
17	2036W0BW109F	FA78571-17	Water	09/02/20
18	<del>2036W0BW110C</del> F13	FA78571-18	Water	09/02/20
19	2036Y0BW415F** D	FA78571-19**	Water	09/02/20
20	<del>2036Y0BW416D</del> D	FA78571-20	Water	09/02/20
21	2036YOU2421F	FA78571-21	Water	09/02/20
22	2036YOU2422F	FA78571-22	Water	09/02/20
23	2036W0BW108DMS	FA78571-16MS	Water	09/02/20
24	<del>2036W0BW108DMSD</del>	FA78571-16MSD	Water	09/02/20
25				
26				
27				

Notes:

1	VO 2357				
2	VE 2415				

Method: Volatiles (EPA SW 846 Method 8260 B)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
Were all technical holding times met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was cooler temperature criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>II. GC/MS Instrument performance check</b>				
Were the BFB performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples analyzed within the 12 hour clock criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>IIIa. Initial calibration</b>				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) $\leq$ 15% and relative response factors (RRF) within method criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of $> 0.990$ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>IIIb. Initial Calibration Verification</b>				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) $\leq$ 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>IV. Continuing calibration</b>				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) $\leq$ 20% and relative response factors (RRF) within method criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) $\leq$ 50% for closing calibration verifications?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>V. Laboratory Blanks</b>				
Was a laboratory blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the laboratory blanks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>VI. Field blanks</b>				
Were field blanks were identified in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were target compounds detected in the field blanks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>VII. Surrogate spikes</b>				
Were all surrogate percent recovery (%R) within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>VIII. Matrix spike/Matrix spike duplicates</b>				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
<b>IX. Laboratory control samples</b>				
Was an LCS analyzed per analytical batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
<b>X. Field duplicates</b>				
Were field duplicate pairs identified in this SDG?	/			
Were target compounds detected in the field duplicates?	/			
<b>XI. Internal standards</b>				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds of the associated calibration standard?	/			
<b>XII. Compound quantitation</b>				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
<b>XIII. Target compound identification</b>				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
<b>XIV. System performance</b>				
System performance was found to be acceptable.	/			
<b>XV. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	/			

## TARGET COMPOUND WORKSHEET

### METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.



**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

**METHOD:** GCMS VOA (EPA SW 846 Method 8260 )

Y N N/A Were field duplicate pairs identified in this SDG?  
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration ( ug/L )		RPD ( ≤ 30% )	QUAL
	2	3		
0	0.13	0.14	7	/
S	0.84	0.84	0	

Compound	Concentration ( ug/L )		RPD ( ≤ 30% )	QUAL
	15	16		
0	2.2	1.4	44	/

Compound	Concentration ( ug/L )		RPD ( ≤ 30% )	QUAL
	19	20		
0	0.10	0.25U	200	/
S	9.8	8.9	10	

Compound	Concentration ( )		RPD ( ≤ % )	QUAL

**VALIDATION FINDINGS WORKSHEET**  
**Initial Calibration Calculation Verification**

METHOD: GC/MS VOA (EPA SW 846 Method 8260 B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

 $A_x$  = Area of compound, $C_x$  = Concentration of compound, $S$  = Standard deviation of the RRFs $X$  = Mean of the RRFs $A_{is}$  = Area of associated internal standard $C_{is}$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalc	Reported	Recalc	Reported	Recalc
				RRF (5.0 std)	RRF (5.0 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL FCMSO	9/11/20	0 (1st internal standard)	0.571	0.571	0.544	0.544	5.38	5.38
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
2	ICAL GCMSZ	9/11/20	0 (1st internal standard)	0.529	0.529	0.510	0.510	5.69	5.69
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

**VALIDATION FINDINGS WORKSHEET**  
**Continuing Calibration Results Verification**

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference =  $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$   
 $\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF  
 RRF = continuing calibration RRF  
 $A_x$  = Area of compound,  $A_{is}$  = Area of associated internal standard  
 $C_x$  = Concentration of compound,  $C_{is}$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ceV 0815	9/11/20	⊖ (IS1)	0.544	0.482	0.482	11.4	11.4
			(IS2)					
			(IS3)					
			(IS4)					
			(IS5)					
2	ceV 1107	9/12/20	⊖ (IS1)	0.510	0.584	0.584	14.5	14.5
			(IS2)					
			(IS3)					
			(IS4)					
			(IS5)					
3			(IS1)					
			(IS2)					
			(IS3)					
			(IS4)					
			(IS5)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 49258C16

**VALIDATION FINDINGS WORKSHEET**  
**Surrogate Results Verification**

Page: 1 of 1  
Reviewer: FT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 )

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery:  $SF/SS * 100$

Where: SF = Surrogate Found  
SS = Surrogate Spiked

**Sample ID:** #2

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4	5.0	5.19	104	104	0
Toluene-d8	↓	5.02	100	100	↓
Bromofluorobenzene					

**Sample ID:**

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

**Sample ID:**

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

**Sample ID:**

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

**Sample ID:**

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 49258 C1b

**VALIDATION FINDINGS WORKSHEET**  
**Matrix Spike/Matrix Spike Duplicates Results Verification**

Page: 1 of 1  
 Reviewer: FT

**METHOD:** GC/MS VOA (EPA Method 8260 B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery =  $100 * (SSC - SC) / SA$

Where: SSC = Spiked sample concentration  
 SA = Spike added

SC = Sample concentration

RPD =  $| MSC - MSC | * 2 / (MSC + MSDC)$

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 23 + 24

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene											
Trichloroethene	50	50	ND	55.6	57.4	111	111	115	115	3	3
Benzene											
Toluene											
Chlorobenzene											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 49250 c1b

## VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page: 1 of 1  
Reviewer: FT

**METHOD:** GC/MS VOA (EPA Method 8260 B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery =  $100 * SSC/SA$

Where: SSC = Spiked sample concentration  
SA = Spike added

RPD =  $| LCSC - LCSDC | * 2 / (LCSC + LCSDC)$

LCSC = Laboratory control sample concentration    LCSDC = Laboratory control sample duplicate concentration

LCS ID: V02357-B5

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
<del>1,1-Dichloroethene</del>										
Trichloroethene	5	NA	5.7	NA	114	114	NA			
<del>Benzene</del>										
Toluene										
Chlorobenzene										

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

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LDC #: 49258 C1b

### VALIDATION FINDINGS WORKSHEET

#### Sample Calculation Verification

Page: 1 of 1  
Reviewer: FT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 )

- Y N N/A Were all reported results recalculated and verified for all level IV samples?  
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

- A<sub>x</sub> = Area of the characteristic ion (EICP) for the compound to be measured
- A<sub>is</sub> = Area of the characteristic ion (EICP) for the specific internal standard
- I<sub>s</sub> = Amount of internal standard added in nanograms (ng)
- RRF = Relative response factor of the calibration standard.
- V<sub>o</sub> = Volume or weight of sample pruged in milliliters (ml) or grams (g).
- Df = Dilution factor.
- %S = Percent solids, applicable to soils and solid matrices only.

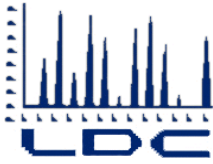
Example:

Sample I.D. #1, Ø:

$$\text{Conc.} = \frac{(6153)(9.0)}{(266661)(0.574)}$$

0.21 µg/L

#	Sample ID	Compound	Reported Concentration (µg/L)	Calculated Concentration (µg/L)	Qualification
	#1	Ø	0.21	0.21	



# LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Ahtna Global, LLC.  
9699 Blue Larkspur Lane, Suite 201  
Monterey, CA 93940  
ATTN: Mr. Eric A. Schmidt  
[Eschmidt@ahtna.net](mailto:Eschmidt@ahtna.net)

November 9, 2020

SUBJECT: Fort Ord, OUCTP-Upper, Data Validation

Dear Mr. Schmidt,

Enclosed is the final validation report for the fraction listed below. This SDG was received on October 19, 2020. Attachment 1 is a summary of the samples that were reviewed for analysis.

## LDC Project #49434:

<u>SDG #</u>	<u>Fraction</u>
FA79153	Volatiles

The data validation was performed under Stage 2B guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California; Revision 7, August 2019
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, Version 5.1; 2017
- USACE Guidance for Evaluating Performance-Based Chemical Data; June 2005
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng  
[Pgeng@lab-data.com](mailto:Pgeng@lab-data.com)  
Project Manager/Senior Chemist





**Data Validation Report  
Fort Ord, OUCTP - Upper**

**SDG: FA79153**

Prepared for

**Ahtna Environmental Inc.**  
296 12th Street  
Marina, California 93933-6001

Prepared by

**Laboratory Data Consultants, Inc**  
2701 Loker Ave West, Suite 220  
Carlsbad, CA 92010

November 9, 2020

## INTRODUCTION

This Data Validation Report (DVR) presents Stage 2B and 4 data validation results for samples collected during the September 2020 sampling period. Data validation was performed in accordance with the Final Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California (Revision 7, August 2019), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and the USACE Guidance for Evaluating Performance-Based Chemical Data (June 2005). Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Carbon Tetrachloride by Environmental Protection Agency (EPA) SW 846 Method 8260B in Selection Ion Monitoring (SIM) mode

The sample identification and method of analyses performed on each sample is presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Stage 2B Automated Data Review outliers are presented in Enclosure I.

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results for sample holding times, initial and continuing calibrations, surrogates, internal standards, laboratory control sample (LCS), and laboratory blanks.

Automated data review was performed on all QC summary results using the Automated Data Review (ADR) software program (LDC, 2013) with the exception of the calibrations and internal standards, which were validated manually. Quality assurance (QA)/QC criteria specified in the QAPP, DoD QSM, and EM-200-1-10 were incorporated with the program's reference library to assess compliance with project requirements.

The following are definitions of the data qualifiers utilized during data validation:

- J+ (Estimated, High Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying high bias, due to non-conformances discovered during data validation.
- J- (Estimated, Low Bias): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated, displaying low bias, due to non-conformances discovered during data validation.
- J (Estimated, Bias Indeterminate): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation. Bias is indeterminate.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

## **I. Sample Receipt & Technical Holding Times**

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## **II. Instrument Performance Check**

Instrument performance was checked at the frequency required by the method.

All criteria for the instrument performance check were met.

## **III. Initial Calibration and Initial Calibration Verification**

All criteria for the initial calibration and initial calibration verifications of the method were met.

## **IV. Continuing Calibration**

All criteria for the continuing calibration verifications of the method were met.

## **V. Laboratory Blanks**

Laboratory blanks were performed as required by the method. No contaminant concentrations were detected in the laboratory blanks.

## **VI. Field Blanks**

No field blanks were identified in this SDG.

## **VII. Surrogates**

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

## **VIII. Matrix Spike/Matrix Spike Duplicates**

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed.

## **IX. Laboratory Control Samples**

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

## **X. Field Duplicates**

No field duplicates were identified in this SDG.

## **XI. Internal Standards**

All internal standard areas and retention times were within QC limits.

## **XII. Compound Quantitation**

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

## **XIII. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable.

## **Attachment 1**

### **Sample Cross Reference**

## Sample Cross Reference

---

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Sep-2020	2039YOU2454F	FA79153-1	N	5030B	EPA8260-SIM	Stage 2B

---



**Attachment 2**  
**Overall Data Qualification Summary**

## ***Data Qualifier Summary***

Lab Reporting Batch ID: FA79153

Laboratory: ACTO

EDD Filename: FA79153ACTO

eQAPP Name: FtOrd\_UFP\_QAPP\_Rev8

**No Data Review Qualifiers Applied.**

**Enclosure I**

**Stage 2B ADR Outliers**

**(Including Manual Review Outliers)**

# Quality Control Outlier Reports

FA79153

(No Outliers)

LDC #: 49434A1b

# VALIDATION COMPLETENESS WORKSHEET

Date: 10/26/20

SDG #: FA79153

ADR

Page: 1 of 1

Laboratory: SGS North America, Inc.

Reviewer: [Signature]

2nd Reviewer: KIK

**METHOD:** GC/MS Carbon Tetrachloride (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A A	RSD ≤ 15% Y ICV ≤ 20%
IV.	Continuing calibration / See [Signature]	A	CV ≤ 20/50%
V.	Laboratory Blanks	N	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	N	
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	N	

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

SB=Source blank  
 OTHER:

	Client ID	Lab ID	Matrix	Date
1	2039YOU2454F	FA79153-1	Water	09/23/20
2				
3				
4				
5				
6				
7				
8				
9				

Notes:


**Third Quarter 2020  
Groundwater Data  
SGS Laboratory Reports**

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

**Ahtna Global, LLC**

**Fort Ord Groundwater Monitoring**

**21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)**

**SGS Job Number: FA78565**

**Sampling Dates: 09/03/20 - 09/04/20**



### Report to:

**Ahtna Global, LLC**  
**9699 Blue Larkspur Lane Suite 203**  
**Monterey, CA 93940**  
**dlieberman@ahtna.net; mfisher@ahtna.net;**  
**hdillon@ahtna.net; eschmidt@ahtna.net;**  
**ATTN: Derek Lieberman**

**Total number of pages in report: 426**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

**Norm Farmer**  
**Technical Director**

**Client Service contact: Elvin Kumar 407-425-6700**

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA78565

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA78565-1	09/03/20	09:17	RMCG09/09/20	AQ	Ground Water	2036X0BW236F
FA78565-2	09/03/20	09:19	RMCG09/09/20	AQ	Ground Water	2036X0BW237D
FA78565-3	09/03/20	09:35	RMCG09/09/20	AQ	Ground Water	2036X0BW238F
FA78565-4	09/03/20	09:58	RMCG09/09/20	AQ	Ground Water	2036X0BW239F
FA78565-5	09/03/20	10:43	RMCG09/09/20	AQ	Ground Water	2036X0BW240F
FA78565-6	09/03/20	11:48	RMCG09/09/20	AQ	Ground Water	2036X0BW242F
FA78565-7	09/03/20	12:00	RMCG09/09/20	AQ	Ground Water	2036X0BW243F
FA78565-8	09/03/20	12:46	RMCG09/09/20	AQ	Ground Water	2036X0BW245F
FA78565-9	09/03/20	14:50	RMCG09/09/20	AQ	Ground Water	2036X0BW247F
FA78565-10	09/03/20	14:52	RMCG09/09/20	AQ	Ground Water	2036X0BW248F
FA78565-11	09/03/20	15:09	RMCG09/09/20	AQ	Ground Water	2036X0BW249F
FA78565-12	09/03/20	15:12	RMCG09/09/20	AQ	Ground Water	2036X0BW250F
FA78565-13	09/03/20	15:33	RMCG09/09/20	AQ	Ground Water	2036X0BW251F



## Sample Summary

(continued)

Ahtna Global, LLC

**Job No:** FA78565

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA78565-14	09/03/20	15:53 RMCG	09/09/20	AQ	Ground Water	2036X0BW252F
FA78565-15	09/04/20	07:41 RMCG	09/09/20	AQ	Ground Water	2036X0BW253F
FA78565-16	09/04/20	08:00 RMCG	09/09/20	AQ	Ground Water	2036X0BW254F
FA78565-17	09/04/20	08:02 RMCG	09/09/20	AQ	Ground Water	2036X0BW255D
FA78565-18	09/04/20	08:20 RMCG	09/09/20	AQ	Ground Water	2036X0BW256F
FA78565-19	09/04/20	08:22 RMCG	09/09/20	AQ	Ground Water	2036X0BW257D
FA78565-20	09/04/20	08:47 RMCG	09/09/20	AQ	Ground Water	2036X0BW258F
FA78565-21	09/04/20	08:49 RMCG	09/09/20	AQ	Ground Water	2036X0BW259F
FA78565-22	09/04/20	09:04 RMCG	09/09/20	AQ	Ground Water	2036X0BW260F
FA78565-23	09/04/20	09:32 RMCG	09/09/20	AQ	Ground Water	2036X0BW261F
FA78565-24	09/04/20	09:48 RMCG	09/09/20	AQ	Ground Water	2036X0BW262F
FA78565-25	09/04/20	09:50 RMCG	09/09/20	AQ	Ground Water	2036X0BW263F
FA78565-26	09/04/20	07:00 RMCG	09/09/20	AQ	Trip Blank Water	2036X0BW264A



## Sample Summary

(continued)

Ahtna Global, LLC

**Job No:** FA78565

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA78565-27	09/04/20	09:56	RMCG09/09/20	AQ	Ground Water	2036X0BW265C

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78565

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/18/2020 12:37:32

26 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on between 09/03/2020 and 09/04/2020 and were received at SGS North America Inc - Orlando on 09/09/2020 properly preserved, at 3.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA78565. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ **Batch ID:** VO2359

All samples were analyzed within the recommended method holding time.  
Sample(s) FA78551-12MS, FA78551-12MSD were used as the QC samples indicated.  
All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** VO2360

All samples were analyzed within the recommended method holding time.  
Sample(s) FA78564-1MS, FA78564-1MSD were used as the QC samples indicated.  
All method blanks for this batch meet method specific criteria.  
Sample(s) FA78565-27 have surrogates outside control limits.  
FA78565-27 for Toluene-D8: Outside DOD QSM control limits.  
FA78565-27 for Vinyl Chloride: Confirmed ND by reanalysis.

**Matrix:** AQ **Batch ID:** VZ2416

All samples were analyzed within the recommended method holding time.  
All method blanks for this batch meet method specific criteria.  
Sample(s) FA78565-1MS, FA78565-1MSD were used as the QC samples indicated.  
FA78565-5: Sample vial(s) contained significant headspace; reported results are considered minimum values.

**Matrix:** AQ **Batch ID:** VZ2418

All samples were analyzed within the recommended method holding time.  
All method blanks for this batch meet method specific criteria.  
Sample(s) FA78551-15MS, FA78551-15MSD were used as the QC samples indicated.  
FA78565-23 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.  
FA78565-24 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.  
FA78565-25 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

**Matrix:** AQ **Batch ID:** VZ2419

All samples were analyzed within the recommended method holding time.  
All method blanks for this batch meet method specific criteria.  
Sample(s) FA78551-7MS, FA78551-7MSD were used as the QC samples indicated.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA78565  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20 thru 09/04/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

**FA78565-1      2036X0BW236F**

No hits reported in this sample.

**FA78565-2      2036X0BW237D**

No hits reported in this sample.

**FA78565-3      2036X0BW238F**

Chloroform	0.19 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	0.38 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78565-4      2036X0BW239F**

Carbon Tetrachloride	0.33 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.38 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Tetrachloroethylene	0.11 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	1.1	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78565-5      2036X0BW240F**

1,2-Dichloroethene (total) <sup>a</sup>	0.17 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene <sup>a</sup>	1.1	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78565-6      2036X0BW242F**

Carbon Tetrachloride	0.27 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.16 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78565-7      2036X0BW243F**

Carbon Tetrachloride	3.3	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.63	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	0.86	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78565-8      2036X0BW245F**

Carbon Tetrachloride	2.2	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.59	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	1.1	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78565-9      2036X0BW247F**

Carbon Tetrachloride	0.20 J	0.50	0.25	ug/l	SW846 8260B BY SIM
----------------------	--------	------	------	------	--------------------

## Summary of Hits

**Job Number:** FA78565  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20 thru 09/04/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
<b>FA78565-10</b>	<b>2036X0BW248F</b>					
Carbon Tetrachloride		0.18 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78565-11</b>	<b>2036X0BW249F</b>					
No hits reported in this sample.						
<b>FA78565-12</b>	<b>2036X0BW250F</b>					
Carbon Tetrachloride		0.12 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.12 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78565-13</b>	<b>2036X0BW251F</b>					
Carbon Tetrachloride		0.10 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78565-14</b>	<b>2036X0BW252F</b>					
No hits reported in this sample.						
<b>FA78565-15</b>	<b>2036X0BW253F</b>					
Carbon Tetrachloride		0.33 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.14 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78565-16</b>	<b>2036X0BW254F</b>					
Carbon Tetrachloride		0.32 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.16 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78565-17</b>	<b>2036X0BW255D</b>					
Carbon Tetrachloride		0.31 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.16 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78565-18</b>	<b>2036X0BW256F</b>					
Carbon Tetrachloride		3.0	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.33 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78565-19</b>	<b>2036X0BW257D</b>					
Carbon Tetrachloride		3.0	0.50	0.25	ug/l	SW846 8260B BY SIM

## Summary of Hits

**Job Number:** FA78565  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20 thru 09/04/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

Chloroform		0.33 J	0.50	0.25	ug/l	SW846 8260B BY SIM
------------	--	--------	------	------	------	--------------------

**FA78565-20      2036X0BW258F**

No hits reported in this sample.

**FA78565-21      2036X0BW259F**

No hits reported in this sample.

**FA78565-22      2036X0BW260F**

Carbon Tetrachloride		1.2	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.21 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78565-23      2036X0BW261F**

Carbon Tetrachloride		2.2	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.23 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78565-24      2036X0BW262F**

No hits reported in this sample.

**FA78565-25      2036X0BW263F**

No hits reported in this sample.

**FA78565-26      2036X0BW264A**

No hits reported in this sample.

**FA78565-27      2036X0BW265C**

No hits reported in this sample.

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.



Sample Results

---

Report of Analysis

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SGS North America Inc.

## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	2036X0BW236F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78565-1	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62263.D	1	09/12/20 19:04	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW237D		
<b>Lab Sample ID:</b>	FA78565-2	<b>Date Sampled:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b>	09/09/20
<b>Method:</b>	SW846 8260B BY SIM	<b>Percent Solids:</b>	n/a
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62264.D	1	09/12/20 19:23	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW238F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78565-3	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62265.D	1	09/12/20 19:42	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.19	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.38	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW239F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78565-4	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62266.D	1	09/12/20 20:01	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.33	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.38	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.11	0.50	0.25	0.10	ug/l	J
79-01-6	Trichloroethylene	1.1	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW240F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78565-5	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	Z62267.D	1	09/12/20 20:20	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.17	0.50	0.25	0.10	ug/l	J
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	1.1	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW242F	
<b>Lab Sample ID:</b> FA78565-6	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62268.D	1	09/12/20 20:39	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.27	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.16	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW243F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78565-7	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62269.D	1	09/12/20 20:59	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	3.3	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.63	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.86	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.7  
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<b>Client Sample ID:</b> 2036X0BW245F	
<b>Lab Sample ID:</b> FA78565-8	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62270.D	1	09/12/20 21:18	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	2.2	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.59	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	1.1	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW247F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78565-9	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62271.D	1	09/12/20 21:37	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.20	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW248F	
<b>Lab Sample ID:</b> FA78565-10	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62272.D	1	09/12/20 21:57	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.18	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.10  
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<b>Client Sample ID:</b> 2036X0BW249F	
<b>Lab Sample ID:</b> FA78565-11	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62273.D	1	09/12/20 22:16	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW250F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78565-12	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62274.D	1	09/12/20 22:35	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.12	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.12	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

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<b>Client Sample ID:</b> 2036X0BW251F	
<b>Lab Sample ID:</b> FA78565-13	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62275.D	1	09/12/20 22:54	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.10	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.13  
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<b>Client Sample ID:</b> 2036X0BW252F		<b>Date Sampled:</b> 09/03/20
<b>Lab Sample ID:</b> FA78565-14		<b>Date Received:</b> 09/09/20
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM		
<b>Project:</b> Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62276.D	1	09/12/20 23:13	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW253F	
<b>Lab Sample ID:</b> FA78565-15	<b>Date Sampled:</b> 09/04/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62277.D	1	09/12/20 23:33	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.33	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.14	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.15  
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<b>Client Sample ID:</b> 2036X0BW254F	
<b>Lab Sample ID:</b> FA78565-16	<b>Date Sampled:</b> 09/04/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62278.D	1	09/12/20 23:52	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.32	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.16	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.16  
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## Report of Analysis

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<b>Client Sample ID:</b>	2036X0BW255D	<b>Date Sampled:</b>	09/04/20
<b>Lab Sample ID:</b>	FA78565-17	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62279.D	1	09/13/20 00:11	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.31	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.16	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW256F	
<b>Lab Sample ID:</b> FA78565-18	<b>Date Sampled:</b> 09/04/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62280.D	1	09/13/20 00:30	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	3.0	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.33	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.18  
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<b>Client Sample ID:</b> 2036X0BW257D	<b>Date Sampled:</b> 09/04/20
<b>Lab Sample ID:</b> FA78565-19	<b>Date Received:</b> 09/09/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62281.D	1	09/13/20 00:49	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	3.0	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.33	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.19  
4

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# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW258F	<b>Date Sampled:</b> 09/04/20
<b>Lab Sample ID:</b> FA78565-20	<b>Date Received:</b> 09/09/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62282.D	1	09/13/20 01:09	SP	n/a	n/a	VZ2416
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	112%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.20  
4

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<b>Client Sample ID:</b> 2036X0BW259F	<b>Date Sampled:</b> 09/04/20
<b>Lab Sample ID:</b> FA78565-21	<b>Date Received:</b> 09/09/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61314.D	1	09/13/20 01:11	SP	n/a	n/a	VO2359
Run #2	Z62345.D	1	09/14/20 21:09	JG	n/a	n/a	VZ2418

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U <sup>a</sup>	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%	116%	74-125%
2037-26-5	Toluene-D8	92%	98%	88-111%

(a) Result is from Run# 2

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.21  
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# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW260F	<b>Date Sampled:</b> 09/04/20
<b>Lab Sample ID:</b> FA78565-22	<b>Date Received:</b> 09/09/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61315.D	1	09/13/20 01:32	SP	n/a	n/a	VO2359
Run #2	Z62346.D	1	09/14/20 21:28	JG	n/a	n/a	VZ2418

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	1.2	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.21	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U <sup>a</sup>	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%	118%	74-125%
2037-26-5	Toluene-D8	91%	97%	88-111%

(a) Result is from Run# 2

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW261F	<b>Date Sampled:</b> 09/04/20
<b>Lab Sample ID:</b> FA78565-23	<b>Date Received:</b> 09/09/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61316.D	1	09/13/20 01:52	SP	n/a	n/a	VO2359
Run #2	Z62347.D	1	09/14/20 21:48	JG	n/a	n/a	VZ2418

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	2.2	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.23	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U <sup>a</sup>	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%	119% <sup>b</sup>	74-125%
2037-26-5	Toluene-D8	94%	97%	88-111%

(a) Result is from Run# 2

(b) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036X0BW262F	<b>Date Sampled:</b> 09/04/20
<b>Lab Sample ID:</b> FA78565-24	<b>Date Received:</b> 09/09/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61317.D	1	09/13/20 02:12	SP	n/a	n/a	VO2359
Run #2	Z62348.D	1	09/14/20 22:07	JG	n/a	n/a	VZ2418

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U <sup>a</sup>	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%	120% <sup>b</sup>	74-125%
2037-26-5	Toluene-D8	96%	97%	88-111%

(a) Result is from Run# 2

(b) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	2036X0BW263F	<b>Date Sampled:</b>	09/04/20
<b>Lab Sample ID:</b>	FA78565-25	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61329.D	1	09/13/20 13:07	SP	n/a	n/a	VO2360
Run #2	Z62349.D	1	09/14/20 22:26	JG	n/a	n/a	VZ2418

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U <sup>a</sup>	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%	121% <sup>b</sup>	74-125%
2037-26-5	Toluene-D8	94%	96%	88-111%

(a) Result is from Run# 2

(b) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036X0BW264A	
<b>Lab Sample ID:</b> FA78565-26	<b>Date Sampled:</b> 09/04/20
<b>Matrix:</b> AQ - Trip Blank Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61330.D	1	09/13/20 13:27	SP	n/a	n/a	VO2360
Run #2	Z62359.D	1	09/15/20 15:39	JG	n/a	n/a	VZ2419

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U <sup>a</sup>	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%	118%	74-125%
2037-26-5	Toluene-D8	97%	98%	88-111%

(a) Result is from Run# 2

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036X0BW265C	<b>Date Sampled:</b> 09/04/20
<b>Lab Sample ID:</b> FA78565-27	<b>Date Received:</b> 09/09/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62360.D	1	09/15/20 15:58	JG	n/a	n/a	VZ2419
Run #2	O61331.D	1	09/13/20 13:48	SP	n/a	n/a	VO2360

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride <sup>a</sup>	0.050 U <sup>b</sup>	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%	109%	74-125%
2037-26-5	Toluene-D8	96%	80% <sup>c</sup>	88-111%

- (a) Confirmed ND by reanalysis.
- (b) Result is from Run# 2
- (c) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

CADS 2038  
Ahtna

CHAIN OF CUSTODY

FA78565  
WATER / SOIL

Chain of Custody #: 0138 10F2  
Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:										Analysis Requested					Lab Sample Receipt																																																											
Project Location: <u>Former Fort Ord, CA</u>					Sampler/s: <u>R. MIKOVILTA, C. CARLIA</u>					<table border="1"> <tr> <td>VOCs 8260 - SIM</td> <td>Metals 6010 C</td> <td>Chloride 9056A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A																																																									
VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A																																																																								
Project Name: <u>FFO Beaumont Comm</u>					Report To: <u>Derek Lieberman</u>					Laboratory Sample Delivery																																																																
Project Number: <u>21065.000.01.0000</u>					E-Mail: <u>dlieberman@ahntna.net</u>					Group #: _____																																																																
Sampling Event/Site: <u>3Q2020</u>					Laboratory: <u>SGS</u>					Custody Seal: _____																																																																
										Temp (°C): <u>1.2</u>																																																																
Lab Number	Sample Number/Description	Sample Collection		Matrix			Number of Preserved Bottles										Notes																																																									
		Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other	VOCs 8260 - SIM		Metals 6010 C	Chloride 9056A																																																							
1	2036X0BW236F	9-3-20	0917	X			3	3																																																																		
2	2036X0BW237D	9-3-20	0919	X			2	2																																																																		
3	2036X0BW238F	9-3-20	0935	X			3	3																																																																		
4	2036X0BW239F	9-3-20	0958	X			3	3																																																																		
5	2036X0BW240F	9-3-20	<del>1050</del>	X			3	3																																																																		
6	2036X0BW241F	9-3-20	1148	X			3	3																																																																		
7	2036X0BW243F	9-3-20	1200	X			3	3																																																																		
8	2036X0BW245F	9-3-20	1246	X			3	3																																																																		
9	2036X0BW247F	9-3-20	1450	X			3	3																																																																		
10	2036X0BW248F	9-3-20	1452	X			3	3																																																																		
11	2036X0BW249F	9-3-20	1509	X			3	3																																																																		
12	2036X0BW250F	9-3-20	1512	X			3	3																																																																		
13	2036X0BW251F	9-3-20	1533	X			3	3																																																																		
14	2036X0BW252F	9-3-20	1553	X			3	3																																																																		

TIME = 1043

INITIAL ASSESSMENT AK  
QUALITY VERIFICATION DO

Turnaround Time:  Standard  3-5 Day Rush  48 Hour Rush  24 Hour Rush  
 Shipment Method: \_\_\_\_\_ Tracking ID: \_\_\_\_\_

Comments:

OUCTP-A

Chain of Custody Tracking:

Relinquished By Sampler: <u>R. Mikovilta</u>	Date/Time: <u>9-3-20/1645</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/3/20 1650</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/4/20 1155</u>	Received By: <u>Lee Baniz</u>	Date/Time: <u>9/4/20 1155</u>
Relinquished By: <u>Lee Baniz</u>	Date/Time: <u>9/8/20 1500</u>	Received By Laboratory: <u>FEDER</u>	Date/Time: <u>9/8/20 1500</u>
<u>Fedex</u>		<u>3.4</u>	<u>9/9/20 1015</u>



5.1  
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CADS 2038  
Ahtna

FA78565  
WATER / SOIL

CHAIN OF CUSTODY

Chain of Custody #: 0142  
Carbon Copies: White - Laboratory Yellow - Ahtna

2 of 2

Project Information:										Analysis Requested					Lab Sample Receipt			
Project Location: <u>Former Fort Ord, CA</u>			Sampler/s: <u>R. MINOVICH, L. CARLITA</u>							VOCs 8260 - SIM Metals 6010 C Chloride 9056A					Laboratory Sample Delivery			
Project Name: <u>FFO Beswick GWM</u>			Report To: <u>Derek Lieberman</u>												Group #: _____			
Project Number: <u>21065.000.01.0000</u>			E-Mail: <u>dlieberman@ahntna.net</u>												Custody Seal: _____			
Sampling Event/Site: <u>3Q2020</u>			Laboratory: <u>SGS</u>												Temp (°C): _____			
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles								VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Notes	
	Sample Number/Description	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>					None
15	2036x03W253F	9-4-20	0741	X			3	3								X		
16	2036x03W254F	9-4-20	0800	X			3	3								X		
17	2036x03W255D	9-4-20	0802	X			2	2								X		
18	2036x03W256F	9-4-20	0820	X			3	3								X		
19	2036x03W257D	9-4-20	0822	X			2	2								X		
20	2036x03W258F	9-4-20	0847	X			3	3								X		
21	2036x03W259F	9-4-20	0849	X			3	3								X		
22	2036x03W260F	9-4-20	0904	X			3	3								X		
23	2036x03W261F	9-4-20	0932	X			3	3								X		
24	2036x03W262F	9-4-20	0948	X			3	3								X		
25	2036x03W263F	9-4-20	0950	X			3	3								X		
26	2036x03W264A	9-4-20	0700	X			2	2								X		
27	2036x03W265C	9-4-20	0956	X			3	3								X		

Turnaround Time:  Standard ;  3-5 Day Rush ;  48 Hour Rush ;  24 Hour Rush

Comments: \_\_\_\_\_

OVCTP-A

Chain of Custody Tracking:

Relinquished By: <u>[Signature]</u>	Date/Time: <u>9-4-20 1105</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/4/20 1105</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/4/20 1155</u>	Received By: <u>Lee Bantz</u>	Date/Time: <u>9/4/20 1155</u>
Relinquished By: <u>Lee Bantz</u>	Date/Time: <u>9/4/20 1500</u>	Received By Laboratory: <u>FEDEx</u>	Date/Time: <u>9/9/20 1500</u>

FA78565: Chain of Custody

Page 2 of 3



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## SGS Sample Receipt Summary

Job Number: FA78565

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP A

Date / Time Received: 9/9/2020 10:15:00 AM

Delivery Method: FedEx

Airbill #s: 771472545354

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Sample Information**

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 230315 pH 10-12 219813A Other: (Specify) \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments SAMPLES 2036X0BW239F AND 2036X0BW240F RECEIVED WITH HEADSPACE

SM001  
Rev. Date 05/24/17

Technician: BRYANG

Date: 9/9/2020 10:15:00 AM

Reviewer: PH

Date: 9/10/2020

FA78565: Chain of Custody

Page 3 of 3

5.1  
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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78565  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20 thru 09/04/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
--------------	------	---------	-------------	-------------	--------	-------	--------

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VO2359 SW846 8260B BY SIM							
VO2359-BS	56-23-5	Carbon Tetrachloride	BSP	REC	100	%	72-136
VO2359-BS	67-66-3	Chloroform	BSP	REC	96	%	79-124
VO2359-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	108	%	71-131
VO2359-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	100	%	79-121
VO2359-BS	127-18-4	Tetrachloroethylene	BSP	REC	102	%	74-129
VO2359-BS	79-01-6	Trichloroethylene	BSP	REC	98	%	79-123
VO2359-BS	75-01-4	Vinyl Chloride	BSP	REC	102	%	58-137
VO2359-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	81-118
VO2359-BS	2037-26-5	Toluene-D8	BSP	SURR	95	%	89-112
FA78551-12MS*	56-23-5	Carbon Tetrachloride	MS	REC	105	%	72-136
FA78551-12MS*	67-66-3	Chloroform	MS	REC	102	%	79-124
FA78551-12MS*	75-35-4	1,1-Dichloroethylene	MS	REC	113	%	71-131
FA78551-12MS*	540-59-0	1,2-Dichloroethene (total)	MS	REC	102	%	79-121
FA78551-12MS*	127-18-4	Tetrachloroethylene	MS	REC	104	%	74-129
FA78551-12MS*	79-01-6	Trichloroethylene	MS	REC	97	%	79-123
FA78551-12MS*	75-01-4	Vinyl Chloride	MS	REC	108	%	58-137
FA78551-12MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	100	%	81-118
FA78551-12MS*	2037-26-5	Toluene-D8	MS	SURR	87 <sup>a</sup>	%	89-112
FA78551-12MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	109	%	72-136
FA78551-12MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	3	%	20
FA78551-12MSD*	67-66-3	Chloroform	MSD	REC	104	%	79-124
FA78551-12MSD*	67-66-3	Chloroform	MSD	RPD	1	%	20
FA78551-12MSD*	75-35-4	1,1-Dichloroethylene	MSD	REC	118	%	71-131
FA78551-12MSD*	75-35-4	1,1-Dichloroethylene	MSD	RPD	4	%	20
FA78551-12MSD*	540-59-0	1,2-Dichloroethene (total)	MSD	REC	107	%	79-121
FA78551-12MSD*	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	5	%	20
FA78551-12MSD*	127-18-4	Tetrachloroethylene	MSD	REC	107	%	74-129
FA78551-12MSD*	127-18-4	Tetrachloroethylene	MSD	RPD	2	%	20
FA78551-12MSD*	79-01-6	Trichloroethylene	MSD	REC	100	%	79-123
FA78551-12MSD*	79-01-6	Trichloroethylene	MSD	RPD	3	%	20
FA78551-12MSD*	75-01-4	Vinyl Chloride	MSD	REC	102	%	58-137
FA78551-12MSD*	75-01-4	Vinyl Chloride	MSD	RPD	6	%	20
FA78551-12MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	99	%	81-118
FA78551-12MSD*	2037-26-5	Toluene-D8	MSD	SURR	89	%	89-112
VO2359-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	103	%	81-118
VO2359-MB	2037-26-5	Toluene-D8	MB	SURR	101	%	89-112
FA78565-21	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	114	%	81-118
FA78565-21	2037-26-5	Toluene-D8	SAMP	SURR	92	%	89-112
FA78565-22	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	114	%	81-118
FA78565-22	2037-26-5	Toluene-D8	SAMP	SURR	91	%	89-112
FA78565-23	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	114	%	81-118
FA78565-23	2037-26-5	Toluene-D8	SAMP	SURR	94	%	89-112

\* Sample used for QC is not from job FA78565

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78565  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20 thru 09/04/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78565-24	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	114	%	81-118
FA78565-24	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
VO2360 SW846 8260B BY SIM							
VO2360-BS	56-23-5	Carbon Tetrachloride	BSP	REC	108	%	72-136
VO2360-BS	67-66-3	Chloroform	BSP	REC	102	%	79-124
VO2360-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	118	%	71-131
VO2360-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	107	%	79-121
VO2360-BS	127-18-4	Tetrachloroethylene	BSP	REC	108	%	74-129
VO2360-BS	79-01-6	Trichloroethylene	BSP	REC	106	%	79-123
VO2360-BS	75-01-4	Vinyl Chloride	BSP	REC	100	%	58-137
VO2360-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	81-118
VO2360-BS	2037-26-5	Toluene-D8	BSP	SURR	92	%	89-112
FA78564-1MS*	56-23-5	Carbon Tetrachloride	MS	REC	99	%	72-136
FA78564-1MS*	67-66-3	Chloroform	MS	REC	97	%	79-124
FA78564-1MS*	75-35-4	1,1-Dichloroethylene	MS	REC	109	%	71-131
FA78564-1MS*	540-59-0	1,2-Dichloroethene (total)	MS	REC	94	%	79-121
FA78564-1MS*	127-18-4	Tetrachloroethylene	MS	REC	101	%	74-129
FA78564-1MS*	79-01-6	Trichloroethylene	MS	REC	97	%	79-123
FA78564-1MS*	75-01-4	Vinyl Chloride	MS	REC	115	%	58-137
FA78564-1MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	101	%	81-118
FA78564-1MS*	2037-26-5	Toluene-D8	MS	SURR	85	%	89-112
FA78564-1MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	105	%	72-136
FA78564-1MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	5	%	20
FA78564-1MSD*	67-66-3	Chloroform	MSD	REC	100	%	79-124
FA78564-1MSD*	67-66-3	Chloroform	MSD	RPD	4	%	20
FA78564-1MSD*	75-35-4	1,1-Dichloroethylene	MSD	REC	113	%	71-131
FA78564-1MSD*	75-35-4	1,1-Dichloroethylene	MSD	RPD	4	%	20
FA78564-1MSD*	540-59-0	1,2-Dichloroethene (total)	MSD	REC	100	%	79-121
FA78564-1MSD*	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	6	%	20
FA78564-1MSD*	127-18-4	Tetrachloroethylene	MSD	REC	107	%	74-129
FA78564-1MSD*	127-18-4	Tetrachloroethylene	MSD	RPD	6	%	20
FA78564-1MSD*	79-01-6	Trichloroethylene	MSD	REC	103	%	79-123
FA78564-1MSD*	79-01-6	Trichloroethylene	MSD	RPD	6	%	20
FA78564-1MSD*	75-01-4	Vinyl Chloride	MSD	REC	108	%	58-137
FA78564-1MSD*	75-01-4	Vinyl Chloride	MSD	RPD	6	%	20
FA78564-1MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	99	%	81-118
FA78564-1MSD*	2037-26-5	Toluene-D8	MSD	SURR	87	%	89-112
VO2360-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	108	%	81-118
VO2360-MB	2037-26-5	Toluene-D8	MB	SURR	98	%	89-112
FA78565-25	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FA78565-25	2037-26-5	Toluene-D8	SAMP	SURR	94	%	89-112
FA78565-26	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	110	%	81-118
FA78565-26	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112

\* Sample used for QC is not from job FA78565

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78565  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20 thru 09/04/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78565-27	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	109	%	81-118
FA78565-27	2037-26-5	Toluene-D8	SAMP	SURR	80 <sup>a</sup>	%	89-112
VZ2416	SW846 8260B BY SIM						
VZ2416-BS	56-23-5	Carbon Tetrachloride	BSP	REC	98	%	72-136
VZ2416-BS	67-66-3	Chloroform	BSP	REC	98	%	79-124
VZ2416-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	104	%	71-131
VZ2416-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	101	%	79-121
VZ2416-BS	75-09-2	Methylene Chloride	BSP	REC	86	%	74-124
VZ2416-BS	127-18-4	Tetrachloroethylene	BSP	REC	96	%	74-129
VZ2416-BS	79-01-6	Trichloroethylene	BSP	REC	104	%	79-123
VZ2416-BS	75-01-4	Vinyl Chloride	BSP	REC	114	%	58-137
VZ2416-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	103	%	81-118
VZ2416-BS	2037-26-5	Toluene-D8	BSP	SURR	101	%	89-112
FA78565-IMS	56-23-5	Carbon Tetrachloride	MS	REC	102	%	72-136
FA78565-IMS	67-66-3	Chloroform	MS	REC	110	%	79-124
FA78565-IMS	75-35-4	1,1-Dichloroethylene	MS	REC	112	%	71-131
FA78565-IMS	540-59-0	1,2-Dichloroethene (total)	MS	REC	108	%	79-121
FA78565-IMS	75-09-2	Methylene Chloride	MS	REC	101	%	74-124
FA78565-IMS	127-18-4	Tetrachloroethylene	MS	REC	102	%	74-129
FA78565-IMS	79-01-6	Trichloroethylene	MS	REC	116	%	79-123
FA78565-IMS	75-01-4	Vinyl Chloride	MS	REC	120	%	58-137
FA78565-IMS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	110	%	81-118
FA78565-IMS	2037-26-5	Toluene-D8	MS	SURR	96	%	89-112
FA78565-1MSD	56-23-5	Carbon Tetrachloride	MSD	REC	105	%	72-136
FA78565-1MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	3	%	20
FA78565-1MSD	67-66-3	Chloroform	MSD	REC	114	%	79-124
FA78565-1MSD	67-66-3	Chloroform	MSD	RPD	4	%	20
FA78565-1MSD	75-35-4	1,1-Dichloroethylene	MSD	REC	119	%	71-131
FA78565-1MSD	75-35-4	1,1-Dichloroethylene	MSD	RPD	6	%	20
FA78565-1MSD	540-59-0	1,2-Dichloroethene (total)	MSD	REC	113	%	79-121
FA78565-1MSD	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	5	%	20
FA78565-1MSD	75-09-2	Methylene Chloride	MSD	REC	105	%	74-124
FA78565-1MSD	75-09-2	Methylene Chloride	MSD	RPD	4	%	20
FA78565-1MSD	127-18-4	Tetrachloroethylene	MSD	REC	107	%	74-129
FA78565-1MSD	127-18-4	Tetrachloroethylene	MSD	RPD	5	%	20
FA78565-1MSD	79-01-6	Trichloroethylene	MSD	REC	120	%	79-123
FA78565-1MSD	79-01-6	Trichloroethylene	MSD	RPD	3	%	20
FA78565-1MSD	75-01-4	Vinyl Chloride	MSD	REC	127	%	58-137
FA78565-1MSD	75-01-4	Vinyl Chloride	MSD	RPD	6	%	20
FA78565-1MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	110	%	81-118
FA78565-1MSD	2037-26-5	Toluene-D8	MSD	SURR	97	%	89-112
VZ2416-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	105	%	81-118
VZ2416-MB	2037-26-5	Toluene-D8	MB	SURR	102	%	89-112

\* Sample used for QC is not from job FA78565

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78565  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20 thru 09/04/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78565-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78565-1	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA78565-2	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78565-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA78565-3	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78565-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FA78565-4	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FA78565-5	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FA78565-6	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FA78565-7	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FA78565-8	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	109	%	81-118
FA78565-9	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FA78565-10	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	109	%	81-118
FA78565-11	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-12	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	109	%	81-118
FA78565-12	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-13	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	110	%	81-118
FA78565-13	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78565-14	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	111	%	81-118
FA78565-14	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-15	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	109	%	81-118
FA78565-15	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78565-16	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	110	%	81-118
FA78565-16	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78565-17	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	111	%	81-118
FA78565-17	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78565-18	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	111	%	81-118
FA78565-18	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78565-19	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	111	%	81-118
FA78565-19	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78565-20	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	112	%	81-118
FA78565-20	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
VZ2418	SW846 8260B BY SIM						
VZ2418-BS	75-09-2	Methylene Chloride	BSP	REC	104	%	74-124
VZ2418-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	110	%	81-118

\* Sample used for QC is not from job FA78565

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78565  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20 thru 09/04/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VZ2418-BS	2037-26-5	Toluene-D8	BSP	SURR	98	%	89-112
FA78551-15MS*	75-09-2	Methylene Chloride	MS	REC	102	%	74-124
FA78551-15MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	114	%	81-118
FA78551-15MS*	2037-26-5	Toluene-D8	MS	SURR	93	%	89-112
FA78551-15MSD*	75-09-2	Methylene Chloride	MSD	REC	102	%	74-124
FA78551-15MSD*	75-09-2	Methylene Chloride	MSD	RPD	0	%	20
FA78551-15MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	113	%	81-118
FA78551-15MSD*	2037-26-5	Toluene-D8	MSD	SURR	94	%	89-112
VZ2418-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	112	%	81-118
VZ2418-MB	2037-26-5	Toluene-D8	MB	SURR	100	%	89-112
FA78565-21	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	116	%	81-118
FA78565-21	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FA78565-22	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	118	%	81-118
FA78565-22	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FA78565-23	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	119 <sup>a</sup>	%	81-118
FA78565-23	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FA78565-24	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	120 <sup>a</sup>	%	81-118
FA78565-24	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FA78565-25	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	121 <sup>a</sup>	%	81-118
FA78565-25	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112

VZ2419 SW846 8260B BY SIM

VZ2419-BS	56-23-5	Carbon Tetrachloride	BSP	REC	106	%	72-136
VZ2419-BS	67-66-3	Chloroform	BSP	REC	112	%	79-124
VZ2419-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	116	%	71-131
VZ2419-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	110	%	79-121
VZ2419-BS	75-09-2	Methylene Chloride	BSP	REC	102	%	74-124
VZ2419-BS	127-18-4	Tetrachloroethylene	BSP	REC	102	%	74-129
VZ2419-BS	79-01-6	Trichloroethylene	BSP	REC	114	%	79-123
VZ2419-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	112	%	81-118
VZ2419-BS	2037-26-5	Toluene-D8	BSP	SURR	95	%	89-112
FA78551-7MS*	56-23-5	Carbon Tetrachloride	MS	REC	108	%	72-136
FA78551-7MS*	67-66-3	Chloroform	MS	REC	122	%	79-124
FA78551-7MS*	75-35-4	1,1-Dichloroethylene	MS	REC	124	%	71-131
FA78551-7MS*	540-59-0	1,2-Dichloroethene (total)	MS	REC	114	%	79-121
FA78551-7MS*	75-09-2	Methylene Chloride	MS	REC	115	%	74-124
FA78551-7MS*	127-18-4	Tetrachloroethylene	MS	REC	103	%	74-129
FA78551-7MS*	79-01-6	Trichloroethylene	MS	REC	124	%	79-123
FA78551-7MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	119 <sup>a</sup>	%	81-118
FA78551-7MS*	2037-26-5	Toluene-D8	MS	SURR	89	%	89-112
FA78551-7MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	107	%	72-136
FA78551-7MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	1	%	20
FA78551-7MSD*	67-66-3	Chloroform	MSD	REC	122	%	79-124
FA78551-7MSD*	67-66-3	Chloroform	MSD	RPD	1	%	20

\* Sample used for QC is not from job FA78565

## QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78565  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20 thru 09/04/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78551-7MSD*	75-35-4	1,1-Dichloroethylene	MSD	REC	124	%	71-131
FA78551-7MSD*	75-35-4	1,1-Dichloroethylene	MSD	RPD	1	%	20
FA78551-7MSD*	540-59-0	1,2-Dichloroethene (total)	MSD	REC	116	%	79-121
FA78551-7MSD*	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	1	%	20
FA78551-7MSD*	75-09-2	Methylene Chloride	MSD	REC	114	%	74-124
FA78551-7MSD*	75-09-2	Methylene Chloride	MSD	RPD	1	%	20
FA78551-7MSD*	127-18-4	Tetrachloroethylene	MSD	REC	104	%	74-129
FA78551-7MSD*	127-18-4	Tetrachloroethylene	MSD	RPD	1	%	20
FA78551-7MSD*	79-01-6	Trichloroethylene	MSD	REC	124	%	79-123
FA78551-7MSD*	79-01-6	Trichloroethylene	MSD	RPD	0	%	20
FA78551-7MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	118	%	81-118
FA78551-7MSD*	2037-26-5	Toluene-D8	MSD	SURR	90	%	89-112
VZ2419-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	116	%	81-118
VZ2419-MB	2037-26-5	Toluene-D8	MB	SURR	99	%	89-112
FA78565-26	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	118	%	81-118
FA78565-26	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FA78565-27	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	118	%	81-118
FA78565-27	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112

(a) Outside DOD QSM control limits.

\* Sample used for QC is not from job FA78565

## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2416-MB	Z62262.D	1	09/12/20	SP	n/a	n/a	VZ2416

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78565-1, FA78565-2, FA78565-3, FA78565-4, FA78565-5, FA78565-6, FA78565-7, FA78565-8, FA78565-9, FA78565-10, FA78565-11, FA78565-12, FA78565-13, FA78565-14, FA78565-15, FA78565-16, FA78565-17, FA78565-18, FA78565-19, FA78565-20

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	105%	74-125%
2037-26-5	Toluene-D8	102%	88-111%



**Method Blank Summary**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2359-MB	O61296.D	1	09/12/20	SP	n/a	n/a	VO2359

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-21, FA78565-22, FA78565-23, FA78565-24

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	103%	74-125%
2037-26-5	Toluene-D8	101%	88-111%

**Method Blank Summary**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2360-MB	O61328.D	1	09/13/20	SP	n/a	n/a	VO2360

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-25, FA78565-26, FA78565-27

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	108%	74-125%
2037-26-5	Toluene-D8	98%	88-111%

## Method Blank Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2418-MB	Z62325.D	1	09/14/20	JG	n/a	n/a	VZ2418

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-21, FA78565-22, FA78565-23, FA78565-24, FA78565-25

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	112%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

**Method Blank Summary**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2419-MB	Z62357.D	1	09/15/20	JG	n/a	n/a	VZ2419

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-26, FA78565-27

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	1.1	2.0	0.50	ug/l	J
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	116%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

**Blank Spike Summary**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2416-BS	Z62260.D	1	09/12/20	SP	n/a	n/a	VZ2416

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78565-1, FA78565-2, FA78565-3, FA78565-4, FA78565-5, FA78565-6, FA78565-7, FA78565-8, FA78565-9, FA78565-10, FA78565-11, FA78565-12, FA78565-13, FA78565-14, FA78565-15, FA78565-16, FA78565-17, FA78565-18, FA78565-19, FA78565-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	4.9	98	76-136
67-66-3	Chloroform	5	4.9	98	80-124
75-35-4	1,1-Dichloroethylene	5	5.2	104	78-137
540-59-0	1,2-Dichloroethene (total)	10	10.1	101	76-127
75-09-2	Methylene Chloride	5	4.3	86	69-135
127-18-4	Tetrachloroethylene	5	4.8	96	76-135
79-01-6	Trichloroethylene	5	5.2	104	81-126
75-01-4	Vinyl Chloride	5	5.7	114	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	103%	74-125%
2037-26-5	Toluene-D8	101%	88-111%

\* = Outside of Control Limits.

**Blank Spike Summary**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2359-BS	O61295.D	1	09/12/20	SP	n/a	n/a	VO2359

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-21, FA78565-22, FA78565-23, FA78565-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.0	100	76-136
67-66-3	Chloroform	5	4.8	96	80-124
75-35-4	1,1-Dichloroethylene	5	5.4	108	78-137
540-59-0	1,2-Dichloroethene (total)	10	10.0	100	76-127
127-18-4	Tetrachloroethylene	5	5.1	102	76-135
79-01-6	Trichloroethylene	5	4.9	98	81-126
75-01-4	Vinyl Chloride	5	5.1	102	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	74-125%
2037-26-5	Toluene-D8	95%	88-111%

\* = Outside of Control Limits.

**Blank Spike Summary**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2360-BS	O61326.D	1	09/13/20	SP	n/a	n/a	VO2360

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-25, FA78565-26, FA78565-27

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.4	108	76-136
67-66-3	Chloroform	5	5.1	102	80-124
75-35-4	1,1-Dichloroethylene	5	5.9	118	78-137
540-59-0	1,2-Dichloroethene (total)	10	10.7	107	76-127
127-18-4	Tetrachloroethylene	5	5.4	108	76-135
79-01-6	Trichloroethylene	5	5.3	106	81-126
75-01-4	Vinyl Chloride	5	5.0	100	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	74-125%
2037-26-5	Toluene-D8	92%	88-111%

\* = Outside of Control Limits.

**Blank Spike Summary**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2418-BS	Z62323.D	1	09/14/20	JG	n/a	n/a	VZ2418

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-21, FA78565-22, FA78565-23, FA78565-24, FA78565-25

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-09-2	Methylene Chloride	5	5.2	104	69-135

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	110%	74-125%
2037-26-5	Toluene-D8	98%	88-111%

\* = Outside of Control Limits.



**Blank Spike Summary**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2419-BS	Z62355.D	1	09/15/20	JG	n/a	n/a	VZ2419

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-26, FA78565-27

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.3	106	76-136
67-66-3	Chloroform	5	5.6	112	80-124
75-35-4	1,1-Dichloroethylene	5	5.8	116	78-137
540-59-0	1,2-Dichloroethene (total)	10	11.0	110	76-127
75-09-2	Methylene Chloride	5	5.1	102	69-135
127-18-4	Tetrachloroethylene	5	5.1	102	76-135
79-01-6	Trichloroethylene	5	5.7	114	81-126

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	112%	74-125%
2037-26-5	Toluene-D8	95%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78565-1MS	Z62283.D	10	09/13/20	SP	n/a	n/a	VZ2416
FA78565-1MSD	Z62284.D	10	09/13/20	SP	n/a	n/a	VZ2416
FA78565-1	Z62263.D	1	09/12/20	SP	n/a	n/a	VZ2416

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-1, FA78565-2, FA78565-3, FA78565-4, FA78565-5, FA78565-6, FA78565-7, FA78565-8, FA78565-9, FA78565-10, FA78565-11, FA78565-12, FA78565-13, FA78565-14, FA78565-15, FA78565-16, FA78565-17, FA78565-18, FA78565-19, FA78565-20

CAS No.	Compound	FA78565-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	50	50.8	102	50	52.5	105	3	76-136/23
67-66-3	Chloroform	0.50 U	50	54.8	110	50	57.1	114	4	80-124/15
75-35-4	1,1-Dichloroethylene	0.50 U	50	55.9	112	50	59.3	119	6	78-137/18
540-59-0	1,2-Dichloroethene (total)	0.50 U	100	108	108	100	113	113	5	76-127/17
75-09-2	Methylene Chloride	2.0 U	50	50.5	101	50	52.7	105	4	69-135/16
127-18-4	Tetrachloroethylene	0.50 U	50	51.2	102	50	53.6	107	5	76-135/16
79-01-6	Trichloroethylene	0.50 U	50	58.0	116	50	59.9	120	3	81-126/15
75-01-4	Vinyl Chloride	0.10 U	50	60.1	120	50	63.5	127	6	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA78565-1	Limits
17060-07-0	1,2-Dichloroethane-D4	110%	110%	103%	74-125%
2037-26-5	Toluene-D8	96%	97%	101%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78551-12MS	O61318.D	10	09/13/20	SP	n/a	n/a	VO2359
FA78551-12MSD	O61319.D	10	09/13/20	SP	n/a	n/a	VO2359
FA78551-12	O61298.D	1	09/12/20	SP	n/a	n/a	VO2359

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-21, FA78565-22, FA78565-23, FA78565-24

CAS No.	Compound	FA78551-12 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	50	52.6	105	50	54.4	109	3	76-136/23
67-66-3	Chloroform	5.2	50	56.2	102	50	57.0	104	1	80-124/15
75-35-4	1,1-Dichloroethylene	0.75	50	57.3	113	50	59.7	118	4	78-137/18
540-59-0	1,2-Dichloroethene (total)	0.35 J	100	102	102	100	107	107	5	76-127/17
127-18-4	Tetrachloroethylene	7.4	50	59.5	104	50	61.0	107	2	76-135/16
79-01-6	Trichloroethylene	5.5	50	54.2	97	50	55.6	100	3	81-126/15
75-01-4	Vinyl Chloride	0.10 U	50	53.8	108	50	50.9	102	6	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA78551-12	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	99%	105%	74-125%
2037-26-5	Toluene-D8	87% * a	89%	96%	88-111%

(a) Outside DOD QSM control limits.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78564-1MS	O61349.D	10	09/13/20	SP	n/a	n/a	VO2360
FA78564-1MSD	O61350.D	10	09/13/20	SP	n/a	n/a	VO2360
FA78564-1	O61345.D	1	09/13/20	SP	n/a	n/a	VO2360

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-25, FA78565-26, FA78565-27

CAS No.	Compound	FA78564-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	50	49.7	99	50	52.4	105	5	76-136/23
67-66-3	Chloroform	0.50 U	50	48.3	97	50	50.1	100	4	80-124/15
75-35-4	1,1-Dichloroethylene	0.50 U	50	54.5	109	50	56.6	113	4	78-137/18
540-59-0	1,2-Dichloroethene (total)	0.50 U	100	93.6	94	100	99.6	100	6	76-127/17
127-18-4	Tetrachloroethylene	0.50 U	50	50.4	101	50	53.4	107	6	76-135/16
79-01-6	Trichloroethylene	0.50 U	50	48.3	97	50	51.5	103	6	81-126/15
75-01-4	Vinyl Chloride	0.10 U	50	57.4	115	50	54.0	108	6	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA78564-1	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	99%	118%	74-125%
2037-26-5	Toluene-D8	85% *	87% *	94%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78551-15MS	Z62335.D	10	09/14/20	JG	n/a	n/a	VZ2418
FA78551-15MSD	Z62336.D	10	09/14/20	JG	n/a	n/a	VZ2418
FA78551-15	Z62334.D	2	09/14/20	JG	n/a	n/a	VZ2418

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-21, FA78565-22, FA78565-23, FA78565-24, FA78565-25

CAS No.	Compound	FA78551-15 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-09-2	Methylene Chloride	1.5	J	50	52.5	102	50	52.6	102	0	69-135/16

CAS No.	Surrogate Recoveries	MS	MSD	FA78551-15	Limits
17060-07-0	1,2-Dichloroethane-D4	114%	113%	116%	74-125%
2037-26-5	Toluene-D8	93%	94%	98%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78551-7MS	Z62370.D	5	09/15/20	JG	n/a	n/a	VZ2419
FA78551-7MSD	Z62371.D	5	09/15/20	JG	n/a	n/a	VZ2419
FA78551-7	Z62367.D	1	09/15/20	JG	n/a	n/a	VZ2419

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78565-26, FA78565-27

CAS No.	Compound	FA78551-7 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	25	27.1	108	25	26.8	107	1	76-136/23
67-66-3	Chloroform	0.60	25	31.2	122	25	31.0	122	1	80-124/15
75-35-4	1,1-Dichloroethylene	0.50 U	25	31.1	124	25	30.9	124	1	78-137/18
540-59-0	1,2-Dichloroethene (total)	0.36 J	50	57.6	114	50	58.3	116	1	76-127/17
75-09-2	Methylene Chloride	2.0 U	25	28.8	115	25	28.4	114	1	69-135/16
127-18-4	Tetrachloroethylene	0.28 J	25	26.1	103	25	26.3	104	1	76-135/16
79-01-6	Trichloroethylene	1.3	25	32.3	124	25	32.3	124	0	81-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA78551-7	Limits
17060-07-0	1,2-Dichloroethane-D4	119% <sup>a</sup>	118%	125% <sup>a</sup>	74-125%
2037-26-5	Toluene-D8	89%	90%	95%	88-111%

(a) Outside DOD QSM control limits.

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2356-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61227.D	<b>Injection Time:</b> 14:01
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	105346	30.7	Pass
75	30.0 - 60.0% of mass 95	169774	49.4	Pass
95	Base peak, 100% relative abundance	343616	100.0	Pass
96	5.0 - 9.0% of mass 95	25531	7.43	Pass
173	Less than 2.0% of mass 174	1340	0.39 (0.45) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	294848	85.8	Pass
175	5.0 - 9.0% of mass 174	20565	5.98 (6.97) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	284096	82.7 (96.4) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	17677	5.14 (6.22) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2356-IC2356	O61230.D	09/11/20	15:34	01:33	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20	15:54	01:53	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20	16:14	02:13	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20	16:35	02:34	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20	16:55	02:54	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20	17:15	03:14	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20	17:36	03:35	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20	18:16	04:15	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2359-BFB	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> O61293.D	<b>Injection Time:</b> 17:31
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	117360	31.7	Pass
75	30.0 - 60.0% of mass 95	174059	47.0	Pass
95	Base peak, 100% relative abundance	370240	100.0	Pass
96	5.0 - 9.0% of mass 95	28037	7.57	Pass
173	Less than 2.0% of mass 174	1589	0.43 (0.47) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	338069	91.3	Pass
175	5.0 - 9.0% of mass 174	24341	6.57 (7.20) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	323925	87.5 (95.8) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	20637	5.57 (6.37) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2359-CC2356	O61294.D	09/12/20	17:54	00:23	Continuing cal 5
VO2359-BS	O61295.D	09/12/20	18:43	01:12	Blank Spike
VO2359-MB	O61296.D	09/12/20	19:03	01:32	Method Blank
FA78551-12	O61298.D	09/12/20	19:43	02:12	(used for QC only; not part of job FA78565)
ZZZZZZ	O61299.D	09/12/20	20:04	02:33	(unrelated sample)
ZZZZZZ	O61300.D	09/12/20	20:24	02:53	(unrelated sample)
ZZZZZZ	O61301.D	09/12/20	20:44	03:13	(unrelated sample)
ZZZZZZ	O61302.D	09/12/20	21:04	03:33	(unrelated sample)
ZZZZZZ	O61303.D	09/12/20	21:25	03:54	(unrelated sample)
ZZZZZZ	O61304.D	09/12/20	21:45	04:14	(unrelated sample)
ZZZZZZ	O61305.D	09/12/20	22:05	04:34	(unrelated sample)
ZZZZZZ	O61306.D	09/12/20	22:25	04:54	(unrelated sample)
ZZZZZZ	O61307.D	09/12/20	22:46	05:15	(unrelated sample)
ZZZZZZ	O61308.D	09/12/20	23:06	05:35	(unrelated sample)
ZZZZZZ	O61309.D	09/12/20	23:26	05:55	(unrelated sample)
ZZZZZZ	O61310.D	09/12/20	23:46	06:15	(unrelated sample)
ZZZZZZ	O61311.D	09/13/20	00:11	06:40	(unrelated sample)
ZZZZZZ	O61312.D	09/13/20	00:31	07:00	(unrelated sample)
ZZZZZZ	O61313.D	09/13/20	00:51	07:20	(unrelated sample)
FA78565-21	O61314.D	09/13/20	01:11	07:40	2036X0BW259F
FA78565-22	O61315.D	09/13/20	01:32	08:01	2036X0BW260F
FA78565-23	O61316.D	09/13/20	01:52	08:21	2036X0BW261F
FA78565-24	O61317.D	09/13/20	02:12	08:41	2036X0BW262F
FA78551-12MS	O61318.D	09/13/20	02:33	09:02	Matrix Spike



# Instrument Performance Check (BFB)

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2359-BFB	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> O61293.D	<b>Injection Time:</b> 17:31
<b>Instrument ID:</b> GCMSO	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78551-12MSD	O61319.D	09/13/20	02:53	09:22	Matrix Spike Duplicate
VO2359-ECC2356	O61320.D	09/13/20	03:13	09:42	Ending cal 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2360-BFB	<b>Injection Date:</b> 09/13/20
<b>Lab File ID:</b> O61324.D	<b>Injection Time:</b> 11:21
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	105581	32.9	Pass
75	30.0 - 60.0% of mass 95	153003	47.6	Pass
95	Base peak, 100% relative abundance	321323	100.0	Pass
96	5.0 - 9.0% of mass 95	23851	7.42	Pass
173	Less than 2.0% of mass 174	1727	0.54 (0.57) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	302997	94.3	Pass
175	5.0 - 9.0% of mass 174	22299	6.94 (7.36) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	289216	90.0 (95.5) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	18941	5.89 (6.55) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2360-CC2356	O61325.D	09/13/20	11:41	00:20	Continuing cal 5
VO2360-BS	O61326.D	09/13/20	12:06	00:45	Blank Spike
VO2360-MB	O61328.D	09/13/20	12:47	01:26	Method Blank
FA78565-25	O61329.D	09/13/20	13:07	01:46	2036X0BW263F
FA78565-26	O61330.D	09/13/20	13:27	02:06	2036X0BW264A
FA78565-27	O61331.D	09/13/20	13:48	02:27	2036X0BW265C
ZZZZZZ	O61332.D	09/13/20	14:08	02:47	(unrelated sample)
ZZZZZZ	O61333.D	09/13/20	14:28	03:07	(unrelated sample)
ZZZZZZ	O61334.D	09/13/20	14:48	03:27	(unrelated sample)
ZZZZZZ	O61335.D	09/13/20	15:09	03:48	(unrelated sample)
ZZZZZZ	O61336.D	09/13/20	15:29	04:08	(unrelated sample)
ZZZZZZ	O61337.D	09/13/20	15:49	04:28	(unrelated sample)
ZZZZZZ	O61338.D	09/13/20	16:09	04:48	(unrelated sample)
ZZZZZZ	O61339.D	09/13/20	16:30	05:09	(unrelated sample)
ZZZZZZ	O61340.D	09/13/20	16:50	05:29	(unrelated sample)
ZZZZZZ	O61341.D	09/13/20	17:10	05:49	(unrelated sample)
ZZZZZZ	O61342.D	09/13/20	17:30	06:09	(unrelated sample)
ZZZZZZ	O61343.D	09/13/20	17:51	06:30	(unrelated sample)
ZZZZZZ	O61344.D	09/13/20	18:11	06:50	(unrelated sample)
FA78564-1	O61345.D	09/13/20	18:31	07:10	(used for QC only; not part of job FA78565)
ZZZZZZ	O61346.D	09/13/20	18:51	07:30	(unrelated sample)
ZZZZZZ	O61347.D	09/13/20	19:11	07:50	(unrelated sample)
ZZZZZZ	O61348.D	09/13/20	19:32	08:11	(unrelated sample)
FA78564-1MS	O61349.D	09/13/20	19:52	08:31	Matrix Spike

# Instrument Performance Check (BFB)

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2360-BFB	<b>Injection Date:</b> 09/13/20
<b>Lab File ID:</b> O61324.D	<b>Injection Time:</b> 11:21
<b>Instrument ID:</b> GCMSO	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78564-1MSD	O61350.D	09/13/20	20:12	08:51	Matrix Spike Duplicate
VO2360-ECC2356	O61351.D	09/13/20	20:32	09:11	Ending cal 5

6.4.3

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**Instrument Performance Check (BFB)**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2414-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> Z62205.D	<b>Injection Time:</b> 17:20
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	24546	21.4	Pass
75	30.0 - 60.0% of mass 95	61341	53.4	Pass
95	Base peak, 100% relative abundance	114880	100.0	Pass
96	5.0 - 9.0% of mass 95	7912	6.89	Pass
173	Less than 2.0% of mass 174	429	0.37 (0.48) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	89573	78.0	Pass
175	5.0 - 9.0% of mass 174	6903	6.01 (7.71) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	89128	77.6 (99.5) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	5541	4.82 (6.22) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2414-IC2414	Z62207.D	09/11/20	18:15	00:55	Initial cal 1
VZ2414-IC2414	Z62208.D	09/11/20	18:34	01:14	Initial cal 2
VZ2414-IC2414	Z62209.D	09/11/20	18:53	01:33	Initial cal 3
VZ2414-IC2414	Z62210.D	09/11/20	19:13	01:53	Initial cal 4
VZ2414-ICC2414	Z62211.D	09/11/20	19:32	02:12	Initial cal 5
VZ2414-IC2414	Z62212.D	09/11/20	19:51	02:31	Initial cal 6
VZ2414-IC2414	Z62213.D	09/11/20	20:13	02:53	Initial cal 7
VZ2414-ICV2414	Z62215.D	09/11/20	20:51	03:31	Initial cal verification 5
VZ2414-BS	Z62216.D	09/11/20	21:10	03:50	Blank Spike
VZ2414-MB	Z62218.D	09/11/20	21:49	04:29	Method Blank
FA78573-1	Z62219.D	09/11/20	22:08	04:48	(used for QC only; not part of job FA78565)
ZZZZZZ	Z62220.D	09/11/20	22:27	05:07	(unrelated sample)
ZZZZZZ	Z62221.D	09/11/20	22:47	05:27	(unrelated sample)
ZZZZZZ	Z62222.D	09/11/20	23:06	05:46	(unrelated sample)
ZZZZZZ	Z62223.D	09/11/20	23:26	06:06	(unrelated sample)
ZZZZZZ	Z62224.D	09/11/20	23:45	06:25	(unrelated sample)
ZZZZZZ	Z62225.D	09/12/20	00:04	06:44	(unrelated sample)
ZZZZZZ	Z62226.D	09/12/20	00:23	07:03	(unrelated sample)
ZZZZZZ	Z62227.D	09/12/20	00:42	07:22	(unrelated sample)
ZZZZZZ	Z62228.D	09/12/20	01:02	07:42	(unrelated sample)
ZZZZZZ	Z62229.D	09/12/20	01:21	08:01	(unrelated sample)
ZZZZZZ	Z62230.D	09/12/20	01:40	08:20	(unrelated sample)
ZZZZZZ	Z62231.D	09/12/20	02:00	08:40	(unrelated sample)
ZZZZZZ	Z62232.D	09/12/20	02:19	08:59	(unrelated sample)

# Instrument Performance Check (BFB)

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2414-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> Z62205.D	<b>Injection Time:</b> 17:20
<b>Instrument ID:</b> GCMSZ	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78573-1MS	Z62233.D	09/12/20	02:38	09:18	Matrix Spike
FA78573-1MSD	Z62234.D	09/12/20	02:57	09:37	Matrix Spike Duplicate
VZ2414-ECC2414	Z62235.D	09/12/20	03:16	09:56	Ending cal 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2416-BFB	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> Z62258.D	<b>Injection Time:</b> 17:22
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	21613	23.3	Pass
75	30.0 - 60.0% of mass 95	51797	55.9	Pass
95	Base peak, 100% relative abundance	92653	100.0	Pass
96	5.0 - 9.0% of mass 95	6785	7.32	Pass
173	Less than 2.0% of mass 174	352	0.38 (0.48) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	73528	79.4	Pass
175	5.0 - 9.0% of mass 174	5630	6.08 (7.66) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	74181	80.1 (100.9) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	4951	5.34 (6.67) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2416-CC2414	Z62259.D	09/12/20	17:42	00:20	Continuing cal 5
VZ2416-BS	Z62260.D	09/12/20	18:05	00:43	Blank Spike
VZ2416-MB	Z62262.D	09/12/20	18:44	01:22	Method Blank
FA78565-1	Z62263.D	09/12/20	19:04	01:42	2036X0BW236F
FA78565-2	Z62264.D	09/12/20	19:23	02:01	2036X0BW237D
FA78565-3	Z62265.D	09/12/20	19:42	02:20	2036X0BW238F
FA78565-4	Z62266.D	09/12/20	20:01	02:39	2036X0BW239F
FA78565-5	Z62267.D	09/12/20	20:20	02:58	2036X0BW240F
FA78565-6	Z62268.D	09/12/20	20:39	03:17	2036X0BW242F
FA78565-7	Z62269.D	09/12/20	20:59	03:37	2036X0BW243F
FA78565-8	Z62270.D	09/12/20	21:18	03:56	2036X0BW245F
FA78565-9	Z62271.D	09/12/20	21:37	04:15	2036X0BW247F
FA78565-10	Z62272.D	09/12/20	21:57	04:35	2036X0BW248F
FA78565-11	Z62273.D	09/12/20	22:16	04:54	2036X0BW249F
FA78565-12	Z62274.D	09/12/20	22:35	05:13	2036X0BW250F
FA78565-13	Z62275.D	09/12/20	22:54	05:32	2036X0BW251F
FA78565-14	Z62276.D	09/12/20	23:13	05:51	2036X0BW252F
FA78565-15	Z62277.D	09/12/20	23:33	06:11	2036X0BW253F
FA78565-16	Z62278.D	09/12/20	23:52	06:30	2036X0BW254F
FA78565-17	Z62279.D	09/13/20	00:11	06:49	2036X0BW255D
FA78565-18	Z62280.D	09/13/20	00:30	07:08	2036X0BW256F
FA78565-19	Z62281.D	09/13/20	00:49	07:27	2036X0BW257D
FA78565-20	Z62282.D	09/13/20	01:09	07:47	2036X0BW258F
FA78565-1MS	Z62283.D	09/13/20	01:28	08:06	Matrix Spike

# Instrument Performance Check (BFB)

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2416-BFB	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> Z62258.D	<b>Injection Time:</b> 17:22
<b>Instrument ID:</b> GCMSZ	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78565-1MSD	Z62284.D	09/13/20	01:47	08:25	Matrix Spike Duplicate
VZ2416-ECC2414	Z62285.D	09/13/20	02:06	08:44	Ending cal 5

6.4.5

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**Instrument Performance Check (BFB)**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2418-BFB	<b>Injection Date:</b> 09/14/20
<b>Lab File ID:</b> Z62321.D	<b>Injection Time:</b> 11:56
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	23573	24.3	Pass
75	30.0 - 60.0% of mass 95	53144	54.7	Pass
95	Base peak, 100% relative abundance	97075	100.0	Pass
96	5.0 - 9.0% of mass 95	6990	7.20	Pass
173	Less than 2.0% of mass 174	393	0.40 (0.48) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	81579	84.0	Pass
175	5.0 - 9.0% of mass 174	5714	5.89 (7.00) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	80621	83.1 (98.8) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	4844	4.99 (6.01) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2418-CC2414	Z62322.D	09/14/20	12:22	00:26	Continuing cal 5
VZ2418-BS	Z62323.D	09/14/20	13:18	01:22	Blank Spike
VZ2418-MB	Z62325.D	09/14/20	13:57	02:01	Method Blank
ZZZZZZ	Z62326.D	09/14/20	15:04	03:08	(unrelated sample)
ZZZZZZ	Z62327.D	09/14/20	15:23	03:27	(unrelated sample)
ZZZZZZ	Z62328.D	09/14/20	15:42	03:46	(unrelated sample)
ZZZZZZ	Z62329.D	09/14/20	16:02	04:06	(unrelated sample)
ZZZZZZ	Z62330.D	09/14/20	16:21	04:25	(unrelated sample)
ZZZZZZ	Z62331.D	09/14/20	16:41	04:45	(unrelated sample)
ZZZZZZ	Z62332.D	09/14/20	17:00	05:04	(unrelated sample)
ZZZZZZ	Z62333.D	09/14/20	17:19	05:23	(unrelated sample)
FA78551-15	Z62334.D	09/14/20	17:38	05:42	(used for QC only; not part of job FA78565)
FA78551-15MS	Z62335.D	09/14/20	17:57	06:01	Matrix Spike
FA78551-15MSD	Z62336.D	09/14/20	18:16	06:20	Matrix Spike Duplicate
ZZZZZZ	Z62337.D	09/14/20	18:36	06:40	(unrelated sample)
ZZZZZZ	Z62338.D	09/14/20	18:55	06:59	(unrelated sample)
ZZZZZZ	Z62339.D	09/14/20	19:14	07:18	(unrelated sample)
ZZZZZZ	Z62340.D	09/14/20	19:33	07:37	(unrelated sample)
ZZZZZZ	Z62341.D	09/14/20	19:52	07:56	(unrelated sample)
FA78551-16	Z62342.D	09/14/20	20:12	08:16	(used for QC only; not part of job FA78565)
FA78551-16MS	Z62343.D	09/14/20	20:31	08:35	Matrix Spike
FA78551-16MSD	Z62344.D	09/14/20	20:50	08:54	Matrix Spike Duplicate
FA78565-21	Z62345.D	09/14/20	21:09	09:13	2036X0BW259F
FA78565-22	Z62346.D	09/14/20	21:28	09:32	2036X0BW260F



# Instrument Performance Check (BFB)

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2418-BFB	<b>Injection Date:</b> 09/14/20
<b>Lab File ID:</b> Z62321.D	<b>Injection Time:</b> 11:56
<b>Instrument ID:</b> GCMSZ	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78565-23	Z62347.D	09/14/20	21:48	09:52	2036X0BW261F
FA78565-24	Z62348.D	09/14/20	22:07	10:11	2036X0BW262F
FA78565-25	Z62349.D	09/14/20	22:26	10:30	2036X0BW263F
VZ2418-ECC2414	Z62350.D	09/14/20	22:45	10:49	Ending cal 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2419-BFB	<b>Injection Date:</b> 09/15/20
<b>Lab File ID:</b> Z62353.D	<b>Injection Time:</b> 13:19
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	25171	24.4	Pass
75	30.0 - 60.0% of mass 95	57957	56.3	Pass
95	Base peak, 100% relative abundance	103013	100.0	Pass
96	5.0 - 9.0% of mass 95	8476	8.23	Pass
173	Less than 2.0% of mass 174	575	0.56 (0.65) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	88536	85.9	Pass
175	5.0 - 9.0% of mass 174	6388	6.20 (7.22) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	87899	85.3 (99.3) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	5269	5.11 (5.99) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2419-CC2414	Z62354.D	09/15/20	13:58	00:39	Continuing cal 5
VZ2419-BS	Z62355.D	09/15/20	14:17	00:58	Blank Spike
VZ2419-MB	Z62357.D	09/15/20	14:55	01:36	Method Blank
FA78565-26	Z62359.D	09/15/20	15:39	02:20	2036X0BW264A
FA78565-27	Z62360.D	09/15/20	15:58	02:39	2036X0BW265C
ZZZZZZ	Z62361.D	09/15/20	16:18	02:59	(unrelated sample)
ZZZZZZ	Z62362.D	09/15/20	16:37	03:18	(unrelated sample)
ZZZZZZ	Z62363.D	09/15/20	16:56	03:37	(unrelated sample)
ZZZZZZ	Z62364.D	09/15/20	17:16	03:57	(unrelated sample)
ZZZZZZ	Z62365.D	09/15/20	17:35	04:16	(unrelated sample)
ZZZZZZ	Z62366.D	09/15/20	17:55	04:36	(unrelated sample)
FA78551-7	Z62367.D	09/15/20	18:14	04:55	(used for QC only; not part of job FA78565)
ZZZZZZ	Z62368.D	09/15/20	18:33	05:14	(unrelated sample)
FA78551-7MS	Z62370.D	09/15/20	18:53	05:34	Matrix Spike
FA78551-7MSD	Z62371.D	09/15/20	19:12	05:53	Matrix Spike Duplicate
ZZZZZZ	Z62372.D	09/15/20	19:31	06:12	(unrelated sample)
ZZZZZZ	Z62373.D	09/15/20	19:51	06:32	(unrelated sample)
ZZZZZZ	Z62374.D	09/15/20	20:10	06:51	(unrelated sample)
ZZZZZZ	Z62375.D	09/15/20	20:29	07:10	(unrelated sample)
ZZZZZZ	Z62376.D	09/15/20	20:49	07:30	(unrelated sample)
ZZZZZZ	Z62377.D	09/15/20	21:08	07:49	(unrelated sample)
ZZZZZZ	Z62379.D	09/15/20	21:47	08:28	(unrelated sample)
ZZZZZZ	Z62380.D	09/15/20	22:06	08:47	(unrelated sample)
ZZZZZZ	Z62381.D	09/15/20	22:25	09:06	(unrelated sample)

# Instrument Performance Check (BFB)

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2419-BFB	<b>Injection Date:</b> 09/15/20
<b>Lab File ID:</b> Z62353.D	<b>Injection Time:</b> 13:19
<b>Instrument ID:</b> GCMSZ	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	Z62382.D	09/15/20	22:45	09:26	(unrelated sample)
ZZZZZZ	Z62383.D	09/15/20	23:04	09:45	(unrelated sample)
VZ2419-ECC2414	Z62384.D	09/15/20	23:23	10:04	Ending cal 5

6.4.7

6

# Internal Standard Area Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b>	VO2359-CC2356	<b>Injection Date:</b>	09/12/20
<b>Lab File ID:</b>	O61294.D	<b>Injection Time:</b>	17:54
<b>Instrument ID:</b>	GCMSO	<b>Method:</b>	SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	367891	7.35	288681	10.45
Check Std <sup>b</sup>	309205	7.34	244582	10.44
Upper Limit <sup>c</sup>	618410	7.51	489164	10.61
Lower Limit <sup>d</sup>	154603	7.17	122291	10.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VO2359-BS	312701	7.34	245098	10.44
VO2359-MB	277430	7.35	211417	10.44
FA78551-12	231482	7.35	184213	10.45
ZZZZZZ	234740	7.35	187654	10.45
ZZZZZZ	227299	7.35	183118	10.45
ZZZZZZ	226995	7.35	184311	10.45
ZZZZZZ	224261	7.35	183224	10.45
ZZZZZZ	217976	7.35	180623	10.45
ZZZZZZ	210971	7.35	171670	10.45
ZZZZZZ	212593	7.35	173815	10.45
ZZZZZZ	207333	7.35	162383	10.45
ZZZZZZ	203050	7.35	164109	10.45
ZZZZZZ	196239	7.35	159788	10.45
ZZZZZZ	194241	7.35	160896	10.45
ZZZZZZ	192803	7.35	152706	10.45
ZZZZZZ	194118	7.34	150807	10.44
ZZZZZZ	185209	7.34	176438	10.45
ZZZZZZ	184950	7.35	150061	10.45
FA78565-21	183028	7.35	148402	10.45
FA78565-22	180985	7.35	149504	10.45
FA78565-23	176073	7.34	140821	10.45
FA78565-24	180953	7.35	141150	10.45
FA78551-12MS	224584	7.35	184530	10.45
FA78551-12MSD	240247	7.34	194673	10.44
VO2359-ECC2356267420		7.35	216936	10.45

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2356-ICC2356 O61234.D 09/11/20 16:55
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Internal Standard Area Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b>	VO2360-CC2356	<b>Injection Date:</b>	09/13/20
<b>Lab File ID:</b>	O61325.D	<b>Injection Time:</b>	11:41
<b>Instrument ID:</b>	GCMSO	<b>Method:</b>	SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	367891	7.35	288681	10.45
Check Std <sup>b</sup>	286719	7.34	233530	10.44
Upper Limit <sup>c</sup>	573438	7.51	467060	10.61
Lower Limit <sup>d</sup>	143360	7.17	116765	10.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VO2360-BS	283212	7.34	224536	10.44
VO2360-MB	219622	7.35	169409	10.45
FA78565-25	211288	7.35	169710	10.45
FA78565-26	201101	7.35	156034	10.45
FA78565-27	201795	7.35	189821	10.45
ZZZZZZ	194853	7.35	161681	10.45
ZZZZZZ	186897	7.35	155497	10.45
ZZZZZZ	184643	7.34	153620	10.45
ZZZZZZ	181234	7.35	150472	10.45
ZZZZZZ	176052	7.35	145910	10.45
ZZZZZZ	176231	7.35	148576	10.45
ZZZZZZ	170866	7.35	143561	10.45
ZZZZZZ	173988	7.34	144405	10.45
ZZZZZZ	173928	7.34	143428	10.45
ZZZZZZ	173088	7.35	137078	10.45
ZZZZZZ	172216	7.35	140001	10.45
ZZZZZZ	173487	7.34	174735	10.45
ZZZZZZ	172421	7.34	137210	10.45
FA78564-1	168342	7.35	134027	10.45
ZZZZZZ	168998	7.35	132387	10.45
ZZZZZZ	163470	7.34	132432	10.45
ZZZZZZ	164246	7.34	139552	10.45
FA78564-1MS	215252	7.34	177426	10.44
FA78564-1MSD	233995	7.34	190479	10.44
VO2360-ECC2356254568		7.35	207589	10.45

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2356-ICC2356 O61234.D 09/11/20 16:55
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

6.5.2  
6

# Internal Standard Area Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2416-CC2414	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> Z62259.D	<b>Injection Time:</b> 17:42
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	1875869	7.40	1507669	10.51
Check Std <sup>b</sup>	2101231	7.40	1698422	10.51
Upper Limit <sup>c</sup>	4202462	7.57	3396844	10.68
Lower Limit <sup>d</sup>	1050616	7.23	849211	10.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ2416-BS	2046480	7.40	1638604	10.51
VZ2416-MB	1968793	7.40	1562073	10.51
FA78565-1	1920437	7.40	1517275	10.51
FA78565-2	1871373	7.40	1483392	10.51
FA78565-3	1885303	7.40	1496702	10.51
FA78565-4	1709962	7.40	1356583	10.51
FA78565-5 <sup>e</sup>	1772661	7.40	1408103	10.51
FA78565-6	1729723	7.40	1371565	10.51
FA78565-7	1645797	7.40	1301518	10.51
FA78565-8	1579769	7.40	1250275	10.51
FA78565-9	1573270	7.40	1245827	10.51
FA78565-10	1730487	7.40	1372804	10.51
FA78565-11	1742473	7.40	1375781	10.51
FA78565-12	1727120	7.40	1370089	10.52
FA78565-13	1597135	7.40	1268700	10.51
FA78565-14	1586928	7.40	1259175	10.51
FA78565-15	1696845	7.40	1349937	10.51
FA78565-16	1683313	7.40	1336248	10.51
FA78565-17	1666046	7.40	1329426	10.51
FA78565-18	1517226	7.40	1208165	10.51
FA78565-19	1506107	7.40	1197455	10.51
FA78565-20	1403862	7.40	1118209	10.51
FA78565-1MS	1590891	7.40	1317037	10.51
FA78565-1MSD	1551912	7.40	1274043	10.51
VZ2416-ECC2414	1643661	7.40	1345796	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2414-ICC2414 Z62211.D 09/11/20 19:32
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

6.5.3  
6

# Internal Standard Area Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2416-CC2414	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> Z62259.D	<b>Injection Time:</b> 17:42
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

Lab	IS 1		IS 2	
Sample ID	AREA	RT	AREA	RT

(e) Sample vial(s) contained significant headspace; reported results are considered minimum values.

6.5.3

6

# Internal Standard Area Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2418-CC2414	<b>Injection Date:</b> 09/14/20
<b>Lab File ID:</b> Z62322.D	<b>Injection Time:</b> 12:22
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
	<b>AREA</b>		<b>AREA</b>	
Initial Cal <sup>a</sup>	1875869	7.40	1507669	10.51
Check Std <sup>b</sup>	1993481	7.40	1656572	10.51
Upper Limit <sup>c</sup>	3986962	7.57	3313144	10.68
Lower Limit <sup>d</sup>	996741	7.23	828286	10.34

<b>Lab</b>	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
<b>Sample ID</b>	<b>AREA</b>		<b>AREA</b>	
VZ2418-BS	1802196	7.40	1471249	10.51
VZ2418-MB	1691138	7.40	1358393	10.51
ZZZZZZ	1602030	7.40	1286055	10.51
ZZZZZZ	1576340	7.40	1275081	10.51
ZZZZZZ	1512698	7.40	1225189	10.51
ZZZZZZ	1527900	7.40	1238043	10.51
ZZZZZZ	1485802	7.40	1206669	10.51
ZZZZZZ	1473867	7.40	1201502	10.51
ZZZZZZ	1444465	7.40	1171684	10.51
ZZZZZZ	1402630	7.40	1138118	10.51
FA78551-15	1402089	7.40	1140633	10.51
FA78551-15MS	1535956	7.40	1308662	10.51
FA78551-15MSD	1533862	7.40	1295594	10.51
ZZZZZZ	1474091	7.40	1187051	10.51
ZZZZZZ	1361609	7.40	1097547	10.51
ZZZZZZ	1391996	7.40	1135236	10.51
ZZZZZZ	1380259	7.40	1140028	10.51
ZZZZZZ	1368340	7.40	1112637	10.51
FA78551-16	1340569	7.40	1092265	10.51
FA78551-16MS	1386954	7.40	1188096	10.51
FA78551-16MSD	1509625	7.40	1278994	10.51
FA78565-21	1414299	7.40	1136056	10.51
FA78565-22	1371655	7.40	1116479	10.51
FA78565-23	1364805	7.40	1111660	10.51
FA78565-24	1271893	7.40	1030410	10.51
FA78565-25	1273604	7.40	1045493	10.51
VZ2418-ECC2414	1446126	7.40	1266288	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

(a) Initial Cal is: VZ2414-ICC2414 Z62211.D 09/11/20 19:32  
 (b) Check Std Limit = -50 to + 100% of initial cal area.



# Internal Standard Area Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2418-CC2414	<b>Injection Date:</b> 09/14/20
<b>Lab File ID:</b> Z62322.D	<b>Injection Time:</b> 12:22
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

Lab	IS 1	IS 2		
Sample ID	AREA	RT	AREA	RT

- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Internal Standard Area Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2419-CC2414	<b>Injection Date:</b> 09/15/20
<b>Lab File ID:</b> Z62354.D	<b>Injection Time:</b> 13:58
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	1875869	7.40	1507669	10.51
Check Std <sup>b</sup>	2207739	7.40	1887969	10.51
Upper Limit <sup>c</sup>	4415478	7.57	3775938	10.68
Lower Limit <sup>d</sup>	1103870	7.23	943985	10.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ2419-BS	2106664	7.40	1769955	10.51
VZ2419-MB	1858608	7.40	1502088	10.51
FA78565-26	1745743	7.40	1426071	10.51
FA78565-27	1702720	7.40	1418169	10.51
ZZZZZZ	1642515	7.40	1342090	10.51
ZZZZZZ	1613020	7.40	1322254	10.51
ZZZZZZ	1523802	7.40	1250445	10.51
ZZZZZZ	1598786	7.40	1309618	10.51
ZZZZZZ	1579131	7.40	1301000	10.51
ZZZZZZ	1510569	7.40	1246801	10.52
FA78551-7	1495843	7.40	1236200	10.52
ZZZZZZ	1528417	7.40	1257129	10.52
FA78551-7MS	1645715	7.40	1440453	10.51
FA78551-7MSD	1649663	7.40	1429931	10.51
ZZZZZZ	1602425	7.40	1314913	10.51
ZZZZZZ	1548226	7.40	1277318	10.51
ZZZZZZ	1519534	7.40	1253366	10.51
ZZZZZZ	1484029	7.40	1236600	10.51
ZZZZZZ	1461395	7.40	1217797	10.51
ZZZZZZ	1465795	7.40	1219249	10.51
ZZZZZZ	1462983	7.40	1232583	10.51
ZZZZZZ	1430433	7.40	1189416	10.51
ZZZZZZ	1442469	7.40	1201458	10.51
ZZZZZZ	1425076	7.40	1193005	10.51
ZZZZZZ	1443164	7.40	1210945	10.51
VZ2419-ECC2414	1683040	7.40	1525848	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

(a) Initial Cal is: VZ2414-ICC2414 Z62211.D 09/11/20 19:32  
 (b) Check Std Limit = -50 to + 100% of initial cal area.  
 (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.

6.5.5  
6

# Internal Standard Area Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2419-CC2414	<b>Injection Date:</b> 09/15/20
<b>Lab File ID:</b> Z62354.D	<b>Injection Time:</b> 13:58
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

Lab	IS 1	IS 2		
Sample ID	AREA	RT	AREA	RT

(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

6.5.5

6

# Surrogate Recovery Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA78565-1	Z62263.D	103	101
FA78565-2	Z62264.D	104	102
FA78565-3	Z62265.D	104	102
FA78565-4	Z62266.D	105	101
FA78565-5	Z62267.D	106	101
FA78565-6	Z62268.D	106	101
FA78565-7	Z62269.D	107	101
FA78565-8	Z62270.D	108	101
FA78565-9	Z62271.D	109	101
FA78565-10	Z62272.D	108	101
FA78565-11	Z62273.D	109	101
FA78565-12	Z62274.D	109	101
FA78565-13	Z62275.D	110	100
FA78565-14	Z62276.D	111	101
FA78565-15	Z62277.D	109	100
FA78565-16	Z62278.D	110	101
FA78565-17	Z62279.D	111	100
FA78565-18	Z62280.D	111	100
FA78565-19	Z62281.D	111	100
FA78565-20	Z62282.D	112	100
FA78565-21	O61314.D	114	92
FA78565-21	Z62345.D	116	98
FA78565-22	Z62346.D	118	97
FA78565-22	O61315.D	114	91
FA78565-23	O61316.D	114	94
FA78565-23	Z62347.D	119 <sup>a</sup>	97
FA78565-24	Z62348.D	120 <sup>a</sup>	97
FA78565-24	O61317.D	114	96
FA78565-25	O61329.D	108	94
FA78565-25	Z62349.D	121 <sup>a</sup>	96
FA78565-26	Z62359.D	118	98
FA78565-26	O61330.D	110	97
FA78565-27	Z62360.D	118	96
FA78565-27	O61331.D	109	80* <sup>a</sup>
FA78551-12MS	O61318.D	100	87* <sup>a</sup>
FA78551-12MSD	O61319.D	99	89
FA78551-15MS	Z62335.D	114	93
FA78551-15MSD	Z62336.D	113	94
FA78551-7MS	Z62370.D	119 <sup>a</sup>	89
FA78551-7MSD	Z62371.D	118	90

# Surrogate Recovery Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA78564-1MS	O61349.D	101	85*
FA78564-1MSD	O61350.D	99	87*
FA78565-1MS	Z62283.D	110	96
FA78565-1MSD	Z62284.D	110	97
VO2359-BS	O61295.D	97	95
VO2359-MB	O61296.D	103	101
VO2360-BS	O61326.D	97	92
VO2360-MB	O61328.D	108	98
VZ2416-BS	Z62260.D	103	101
VZ2416-MB	Z62262.D	105	102
VZ2418-BS	Z62323.D	110	98
VZ2418-MB	Z62325.D	112	100
VZ2419-BS	Z62355.D	112	95
VZ2419-MB	Z62357.D	116	99

Surrogate Compounds	Recovery Limits
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S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

(a) Outside DOD QSM control limits.

6.6.1  
6

# Initial Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

## Response Factor Report MSVOA12

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

### Calibration Files

1 =O61230.D 2 =O61231.D 3 =O61232.D 4 =O61233.D  
 5 =O61234.D 6 =O61235.D 7 =O61236.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
-----									
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.558	0.633	0.571	0.573	0.524	0.492	0.473	0.546	9.96
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.59060 *A + -0.03053 *A^2								
3) Chloromethane	1.395	1.093	0.857	0.828	0.737	0.682	0.649	0.892	29.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.88497 *A + -0.06257 *A^2								
4) 1,1-Dichloroethen	0.648	0.725	0.662	0.734	0.703	0.672	0.694	0.691	4.67
5) Methylene Chlorid	2.151	0.418	0.186	0.117	0.102	0.095	0.094	0.452	E1 167.87
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9916								
	Response Ratio = 0.00000 + 1.08258 *A								
6) trans-1,2-Dichlor	0.823	0.909	0.775	0.847	0.805	0.778	0.808	0.821	5.65
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.79595 *A + 0.00117 *A^2								
7) 1,1-Dichloroethan	0.920	0.983	0.903	0.972	0.919	0.884	0.906	0.927	3.97
8) cis-1,2-Dichloroe	0.471	0.472	0.435	0.472	0.454	0.444	0.460	0.458	3.24
9) Chloroform	0.840	0.844	0.764	0.827	0.779	0.754	0.774	0.798	4.79
10) Carbon Tetrachlor	0.502	0.562	0.506	0.571	0.556	0.537	0.571	0.544	5.38
11) 1,1,1-Trichloroet	0.593	0.629	0.576	0.645	0.621	0.604	0.636	0.615	4.06
12) Benzene	1.681	1.663	1.504	1.628	1.554	1.503	1.551	1.583	4.64
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 1.54480 *A + -0.00157 *A^2								
13)S 1,2-Dichloroethan	0.407	0.407	0.413	0.434	0.389	0.389	0.387	0.404	4.23
14) 1,2-Dichloroethan	0.768	0.789	0.746	0.780	0.737	0.728	0.733	0.754	3.24
15) Trichloroethene	0.466	0.487	0.444	0.487	0.472	0.461	0.476	0.470	3.22
16) 1,2-Dichloropropa	0.514	0.567	0.519	0.548	0.517	0.503	0.519	0.527	4.30
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 0.51595 *A + -0.00029 *A^2								
17) cis-1,3-Dichlorop	0.485	0.515	0.497	0.552	0.551	0.561	0.582	0.535	6.69
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.161	1.150	1.123	1.108	1.100	1.117	1.132	1.127	1.95
20) trans-1,3-Dichlor	0.576	0.606	0.611	0.681	0.682	0.706	0.738	0.657	9.10
21) Tetrachloroethene	0.563	0.631	0.539	0.583	0.555	0.541	0.566	0.568	5.54
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.54272 *A + 0.00447 *A^2								
22) 1,4-Dichlorobenze	1.098	1.175	1.110	1.205	1.177	1.154	1.188	1.158	3.46
23) 1,2-Dibromo-3-Chl	0.334	0.260	0.190	0.205	0.209	0.220	0.225	0.235	20.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								

6.7.1  
6

# Initial Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

---

$$\text{Response Ratio} = 0.00000 + 0.20028 *A + 0.00615 *A^2$$

-----  
(#) = Out of Range

SIMCL091120.M

Sun Sep 13 19:41:25 2020

## Initial Calibration Verification

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2356-ICV2356  
 Lab FileID: O61238.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\091120\O61238.D Vial: 10  
 Acq On : 11 Sep 2020 6:16 pm Operator: stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00	7.35
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	8.489	15.1	93	0.00	2.90
3	Chloromethane	10.000	8.270	17.3	94	0.00	2.80
	----- AvgRF	CCRF	%Dev	-----			
4	1,1-Dichloroethene	0.691	0.646	6.5	98	0.00	4.09
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	8.887	11.1	101	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	9.532	4.7	101	0.00	4.87
	----- AvgRF	CCRF	%Dev	-----			
7	1,1-Dichloroethane	0.927	0.885	4.5	103	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.443	3.3	104	0.00	6.07
9	Chloroform	0.798	0.745	6.6	102	0.00	6.33
10	Carbon Tetrachloride	0.544	0.522	4.0	100	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.580	5.7	100	0.00	6.58
	----- Amount	Calc.	%Drift	-----			
12	Benzene	10.000	10.095	-1.0	107	0.00	6.94
	----- AvgRF	CCRF	%Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.386	4.5	106	0.00	7.07
14	1,2-Dichloroethane	0.754	0.741	1.7	107	0.00	7.14
15	Trichloroethene	0.470	0.466	0.9	105	0.00	7.52
	----- Amount	Calc.	%Drift	-----			
16	1,2-Dichloropropane	10.000	10.102	-1.0	108	0.00	8.04
	----- AvgRF	CCRF	%Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.573	-7.1	111	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	10.45
19 S	Toluene-d8	1.127	1.117	0.9	108	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.726	-10.5	113	0.00	9.34
	----- Amount	Calc.	%Drift	-----			
21	Tetrachloroethene	10.000	9.602	4.0	101	0.00	9.34
	----- AvgRF	CCRF	%Dev	-----			



# Initial Calibration Verification

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICV2356  
**Lab FileID:** O61238.D

---

22	1,4-Dichlorobenzene	1.158	1.170	-1.0	105	0.00	12.83
	-----	Amount	Calc.	%Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	10.133	-1.3	109	0.00	14.04
	-----				-----		

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
061234.D    SIMCL091120.M              Sun Sep 13 19:41:09 2020

6.7.2  
6

## Continuing Calibration Summary

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2359-CC2356  
 Lab FileID: O61294.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VO2359\O61294.d Vial: 20  
 Acq On : 12 Sep 2020 5:54 pm Operator: stutip  
 Sample : cc2356-5 Inst : MSVOA12  
 Misc : MS47192,VO2359,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	84	0.00	7.34
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.115	-1.2	86	0.00	2.90
3	Chloromethane	10.000	9.846	1.5	86	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.720	-4.2	86	-0.01	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	9.418	5.8	84	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	10.020	-0.2	84	-0.01	4.86
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.907	2.2	83	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.434	5.2	80	-0.01	6.06
9	Chloroform	0.798	0.755	5.4	81	0.00	6.33
10	Carbon Tetrachloride	0.544	0.534	1.8	81	0.00	6.50
11	1,1,1-Trichloroethane	0.615	0.595	3.3	81	-0.01	6.57
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	9.676	3.2	81	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.390	3.5	84	0.00	7.07
14	1,2-Dichloroethane	0.754	0.713	5.4	81	-0.01	7.13
15	Trichloroethene	0.470	0.450	4.3	80	0.00	7.51
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	9.738	2.6	82	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.510	4.7	78	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00	10.44
19 S	Toluene-d8	1.127	1.065	5.5	82	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.630	4.1	78	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	9.850	1.5	83	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2359-CC2356  
**Lab FileID:** O61294.D

22	1,4-Dichlorobenzene	1.158	1.145	1.1	82	0.00	12.82
		----- True	Calc.	% Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	9.146	8.5	78	0.00	14.04
		-----					

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 07:54:42 2020

6.7.3  
6

# Continuing Calibration Summary

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2359-ECC2356  
 Lab FileID: O61320.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VO2359\O61320.d Vial: 26  
 Acq On : 13 Sep 2020 3:13 am Operator: stutip  
 Sample : ecc2356-5 Inst : MSVOA12  
 Misc : MS47193,VO2359,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	73	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.892	-8.9	79	0.00	2.91
3	Chloromethane	10.000	10.743	-7.4	80	0.00	2.81
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.751	-8.7	78	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	10.148	-1.5	79	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	10.513	-5.1	76	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.957	-3.2	76	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.447	2.4	72	0.00	6.07
9	Chloroform	0.798	0.792	0.8	74	0.00	6.33
10	Carbon Tetrachloride	0.544	0.559	-2.8	73	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.622	-1.1	73	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	10.189	-1.9	73	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.393	2.7	73	0.00	7.07
14	1,2-Dichloroethane	0.754	0.743	1.5	73	0.00	7.14
15	Trichloroethene	0.470	0.471	-0.2	73	0.00	7.52
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	10.154	-1.5	74	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.490	8.4	65	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	75	0.00	10.45
19 S	Toluene-d8	1.127	1.018	9.7	70	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.598	9.0	66	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	10.002	-0.0	75	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2359-ECC2356  
**Lab FileID:** O61320.D

22	1,4-Dichlorobenzene	1.158	1.142	1.4	73	0.00	12.83
		----- True	Calc.	% Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	8.877	11.2	67	0.00	14.04

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 08:09:19 2020

6.7.4

6

## Continuing Calibration Summary

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2360-CC2356  
 Lab FileID: O61325.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VO2360\O61325.d Vial: 1  
 Acq On : 13 Sep 2020 11:41 am Operator: stutip  
 Sample : cc2356-5 Inst : MSVOA12  
 Misc : MS47193,VO2360,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	78	0.00	7.34
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.148	-1.5	80	0.00	2.90
3	Chloromethane	10.000	10.520	-5.2	84	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.774	-12.0	86	-0.01	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	10.669	-6.7	89	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	10.665	-6.6	82	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.999	-7.8	85	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.468	-2.2	80	0.00	6.07
9	Chloroform	0.798	0.819	-2.6	82	0.00	6.33
10	Carbon Tetrachloride	0.544	0.545	-0.2	76	0.00	6.50
11	1,1,1-Trichloroethane	0.615	0.613	0.3	77	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	10.620	-6.2	82	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.396	2.0	79	0.00	7.07
14	1,2-Dichloroethane	0.754	0.791	-4.9	84	0.00	7.14
15	Trichloroethene	0.470	0.480	-2.1	79	0.00	7.51
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	10.767	-7.7	84	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.555	-3.7	79	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	81	0.00	10.44
19 S	Toluene-d8	1.127	1.030	8.6	76	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.678	-3.2	80	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	9.903	1.0	80	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2360-CC2356  
**Lab FileID:** O61325.D

22	1,4-Dichlorobenzene	1.158	1.208	-4.3	83	0.00	12.82
		----- True	Calc.	% Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	9.956	0.4	82	0.00	14.04

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 08:29:14 2020

6.7.5  
6

## Continuing Calibration Summary

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2360-ECC2356  
 Lab FileID: O61351.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VO2360\O61351.d Vial: 26  
 Acq On : 13 Sep 2020 8:32 pm Operator: stutip  
 Sample : ecc2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	69	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	8.875	11.3	63	0.00	2.90
3	Chloromethane	10.000	8.999	10.0	65	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.636	8.0	63	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	9.224	7.8	68	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	8.920	10.8	61	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.824	11.1	62	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.381	16.8	58	0.00	6.07
9	Chloroform	0.798	0.685	14.2	61	0.00	6.33
10	Carbon Tetrachloride	0.544	0.463	14.9	58	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.515	16.3	57	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	8.575	14.3	59	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.397	1.7	70	0.00	7.07
14	1,2-Dichloroethane	0.754	0.643	14.7	60	0.00	7.14
15	Trichloroethene	0.470	0.394	16.2	58	0.00	7.51
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	8.702	13.0	60	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.424	20.7	53	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	72	0.00	10.45
19 S	Toluene-d8	1.127	0.989	12.2	65	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.521	20.7	55	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	8.444	15.6	60	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			



# Continuing Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2360-ECC2356  
**Lab FileID:** O61351.D

22	1,4-Dichlorobenzene	1.158	0.999	13.7	61	0.00	12.82
		----- True	Calc.	% Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	7.967	20.3	58	0.00	14.04

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 08:41:23 2020

6.7.6

6

# Initial Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICC2414  
**Lab FileID:** Z62211.D

Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Calibration Files

1 =Z62207.D 2 =Z62208.D 3 =Z62209.D 4 =Z62210.D  
 5 =Z62211.D 6 =Z62212.D 7 =Z62213.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.745	0.530	0.472	0.398	0.398	0.410	0.429	0.483	25.87
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983								
	Response Ratio = 0.00000 + 0.41463 *A + 0.00115 *A^2								
3) Chloromethane	0.663	0.498	0.481	0.368	0.359	0.379	0.420	0.453	23.78
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980								
	Response Ratio = 0.00000 + 0.31946 *A + 0.02378 *A^2								
4) 1,1-Dichloroethen	0.306	0.298	0.281	0.309	0.292	0.302	0.306	0.299	3.29
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.30297 *A								
5) Methylene Chlorid	2.740	0.838	0.457	0.451	0.392	0.409	0.402	0.813	106.36
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9908								
	Response Ratio = 0.00000 + 0.49775 *A + -0.02806 *A^2								
6)T trans-1,2-Dichlor	0.358	0.379	0.341	0.385	0.360	0.379	0.382	0.369	4.44
7) 1,1-Dichloroethan	0.575	0.661	0.582	0.662	0.612	0.647	0.644	0.626	5.82
8) cis-1,2-Dichloroe	0.419	0.429	0.375	0.427	0.391	0.416	0.414	0.410	4.85
9) Chloroform	0.777	0.786	0.680	0.784	0.718	0.760	0.756	0.752	5.23
10) Carbon Tetrachlor	0.498	0.489	0.462	0.529	0.514	0.540	0.540	0.510	5.69
11) 1,1,1-Trichloroet	0.636	0.660	0.612	0.687	0.654	0.683	0.676	0.658	4.12
12) Benzene	1.341	1.460	1.286	1.457	1.351	1.425	1.421	1.392	4.75
13)S 1,2-Dichloroethan	0.304	0.310	0.307	0.309	0.314	0.310	0.310	0.309	0.92
14) 1,2-Dichloroethan	0.501	0.562	0.476	0.554	0.506	0.539	0.534	0.525	5.98
15) Trichloroethene	0.414	0.428	0.389	0.442	0.415	0.440	0.460	0.427	5.41
16) 1,2-Dichloropropa	0.344	0.377	0.320	0.372	0.342	0.363	0.361	0.354	5.62
17) cis-1,3-Dichlorop	0.353	0.328	0.296	0.411	0.409	0.472	0.460	0.390	17.03
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9970								
	Response Ratio = 0.00000 + 0.35911 *A + 0.02868 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.254	1.248	1.248	1.237	1.232	1.224	1.055	1.214	5.83
20)T trans-1,3-Dichlor	0.334	0.340	0.304	0.429	0.428	0.497	0.416	0.393	17.45
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9900								
	Response Ratio = 0.00000 + 0.41206 *A + 0.00891 *A^2								
21) Tetrachloroethene	0.505	0.538	0.491	0.550	0.516	0.540	0.467	0.515	5.78
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9961								
	Response Ratio = 0.00000 + 0.59840 *A + -0.03017 *A^2								

(#) = Out of Range

6.7.7  
6

# Initial Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICC2414  
**Lab FileID:** Z62211.D

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SIMCL091120.M

Sun Sep 13 14:24:15 2020

## Initial Calibration Verification

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2414-ICV2414  
 Lab FileID: Z62215.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\091120\Z62215.D Vial: 10  
 Acq On : 11 Sep 2020 8:51 pm Operator: SHANICAO  
 Sample : ICV2414-5 Inst : MSVOA15  
 Misc : MS47171,VZ2414,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I Fluorobenzene	1.000	1.000	0.0	102	0.00	7.40
----- Amount Calc. %Drift -----						
2 Vinyl Chloride	10.000	10.131	-1.3	108	0.00	2.84
3 Chloromethane	10.000	9.964	0.4	104	0.00	2.73
4 1,1-Dichloroethene	10.000	10.988	-9.9	116	0.00	4.08
5 Methylene Chloride	10.000	9.188	8.1	107	0.00	4.71
----- AvgRF CCRF %Dev -----						
6 T trans-1,2-Dichloroethene	0.369	0.379	-2.7	108	0.00	4.89
7 1,1-Dichloroethane	0.626	0.649	-3.7	108	0.00	5.55
8 cis-1,2-Dichloroethene	0.410	0.412	-0.5	108	0.00	6.11
9 Chloroform	0.752	0.748	0.5	106	0.00	6.38
10 Carbon Tetrachloride	0.510	0.540	-5.9	107	0.00	6.54
11 1,1,1-Trichloroethane	0.658	0.683	-3.8	107	0.00	6.61
12 Benzene	1.392	1.466	-5.3	111	0.00	6.99
13 S 1,2-Dichloroethane-d4	0.309	0.315	-1.9	102	0.00	7.13
14 1,2-Dichloroethane	0.525	0.541	-3.0	109	0.00	7.20
15 Trichloroethene	0.427	0.446	-4.4	110	0.00	7.57
16 1,2-Dichloropropane	0.354	0.368	-4.0	110	0.00	8.11
----- Amount Calc. %Drift -----						
17 cis-1,3-Dichloropropene	10.000	10.889	-8.9	115	0.00	8.77
----- AvgRF CCRF %Dev -----						
18 I Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.51
19 S Toluene-d8	1.214	1.231	-1.4	102	0.00	8.96
----- Amount Calc. %Drift -----						
20 T trans-1,3-Dichloropropene	10.000	11.393	-13.9	117	0.00	9.41
21 Tetrachloroethene	10.000	10.356	-3.6	109	0.00	9.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 Z62211.D SIMCL091120.M Sun Sep 13 14:23:50 2020

## Continuing Calibration Summary

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2416-CC2414  
 Lab FileID: Z62259.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vz2416\Z62259.d Vial: 2  
 Acq On : 12 Sep 2020 5:42 pm Operator: stutip  
 Sample : cc2414-5 Inst : MSVOA15  
 Misc : MS47183,VZ2416,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	112	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	11.787	-17.9	139	0.00	2.84
3	Chloromethane	10.000	11.425	-14.3	133	0.00	2.73
4	1,1-Dichloroethene	10.000	10.446	-4.5	121	0.00	4.08
5	Methylene Chloride	10.000	9.484	5.2	120	0.00	4.71
	----- AvgRF	CCRF	% Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.396	-7.3	123	0.00	4.89
7	1,1-Dichloroethane	0.626	0.672	-7.3	123	0.00	5.54
8	cis-1,2-Dichloroethene	0.410	0.418	-2.0	120	0.00	6.10
9	Chloroform	0.752	0.770	-2.4	120	0.00	6.37
10	Carbon Tetrachloride	0.510	0.535	-4.9	117	0.00	6.54
11	1,1,1-Trichloroethane	0.658	0.704	-7.0	121	0.00	6.61
12	Benzene	1.392	1.459	-4.8	121	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.317	-2.6	113	0.00	7.12
14	1,2-Dichloroethane	0.525	0.536	-2.1	119	0.00	7.19
15	Trichloroethene	0.427	0.442	-3.5	119	0.00	7.57
16	1,2-Dichloropropane	0.354	0.360	-1.7	118	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	10.764	-7.6	124	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	113	0.00	10.51
19 S	Toluene-d8	1.214	1.217	-0.2	111	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	11.044	-10.4	125	0.00	9.41
21	Tetrachloroethene	10.000	10.411	-4.1	122	0.00	9.40

(#) = Out of Range  
 Z62211.D SIMCL091120.M

SPCC's out = 0 CCC's out = 0  
 Mon Sep 14 06:55:54 2020

# Continuing Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2416-ECC2414  
**Lab FileID:** Z62285.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vz2416\Z62285.d Vial: 26  
 Acq On : 13 Sep 2020 2:06 am Operator: stutip  
 Sample : ecc2414-5 Inst : MSVOA15  
 Misc : MS47199,VZ2416,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	88	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	9.169	8.3	84	0.00	2.84
3	Chloromethane	10.000	9.162	8.4	81	0.00	2.73
4	1,1-Dichloroethene	10.000	8.096	19.0	74	0.00	4.09
5	Methylene Chloride	10.000	7.968	20.3	81	0.00	4.71
	----- AvgRF	CCRF	% Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.308	16.5	75	0.00	4.89
7	1,1-Dichloroethane	0.626	0.552	11.8	79	0.00	5.55
8	cis-1,2-Dichloroethene	0.410	0.337	17.8	76	0.00	6.11
9	Chloroform	0.752	0.645	14.2	79	0.00	6.38
10	Carbon Tetrachloride	0.510	0.384	24.7	66	0.00	6.54
11	1,1,1-Trichloroethane	0.658	0.546	17.0	73	0.00	6.61
12	Benzene	1.392	1.189	14.6	77	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.335	-8.4	94	0.00	7.13
14	1,2-Dichloroethane	0.525	0.467	11.0	81	0.00	7.20
15	Trichloroethene	0.427	0.367	14.1	77	0.00	7.57
16	1,2-Dichloropropane	0.354	0.302	14.7	77	0.00	8.11
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	6.107	38.9	52	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00	10.51
19 S	Toluene-d8	1.214	1.178	3.0	85	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	5.780	42.2	51	0.00	9.41
21	Tetrachloroethene	10.000	7.720	22.8	74	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62211.D    SIMCL091120.M              Mon Sep 14 06:56:52 2020

6.7.10 6

## Continuing Calibration Summary

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2418-CC2414  
 Lab FileID: Z62322.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\091420\Z62322.D Vial: 1  
 Acq On : 14 Sep 2020 12:22 pm Operator: JuanG  
 Sample : CC2414-5 Inst : MSVOA15  
 Misc : MS47199,VZ2418,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	106	0.00	7.40
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	12.650	-26.5#	141	0.00	2.84
3	Chloromethane	10.000	12.991	-29.9#	147	0.00	2.73
4	1,1-Dichloroethene	10.000	10.544	-5.4	116	0.00	4.08
5	Methylene Chloride	10.000	10.422	-4.2	124	0.00	4.71
	----- AvgRF	CCRF	%Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.405	-9.8	120	0.00	4.88
7	1,1-Dichloroethane	0.626	0.705	-12.6	122	0.00	5.54
8	cis-1,2-Dichloroethene	0.410	0.424	-3.4	115	0.00	6.10
9	Chloroform	0.752	0.810	-7.7	120	0.00	6.37
10	Carbon Tetrachloride	0.510	0.529	-3.7	109	0.00	6.54
11	1,1,1-Trichloroethane	0.658	0.708	-7.6	115	0.00	6.61
12	Benzene	1.392	1.507	-8.3	119	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.336	-8.7	114	0.00	7.12
14	1,2-Dichloroethane	0.525	0.562	-7.0	118	0.00	7.19
15	Trichloroethene	0.427	0.439	-2.8	112	0.00	7.57
16	1,2-Dichloropropane	0.354	0.366	-3.4	114	0.00	8.10
	----- Amount	Calc.	%Drift	-----			
17	cis-1,3-Dichloropropene	10.000	10.729	-7.3	117	0.00	8.77
	----- AvgRF	CCRF	%Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00	10.51
19 S	Toluene-d8	1.214	1.176	3.1	105	0.00	8.96
	----- Amount	Calc.	%Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	10.906	-9.1	121	0.00	9.41
21	Tetrachloroethene	10.000	9.919	0.8	114	0.00	9.40

(#) = Out of Range  
 Z62211.D SIMCL091120.M

SPCC's out = 0 CCC's out = 0  
 Tue Sep 15 19:11:21 2020

## Continuing Calibration Summary

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2418-ECC2414  
 Lab FileID: Z62350.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\091420\Z62350.D Vial: 28  
 Acq On : 14 Sep 2020 10:45 pm Operator: JuanG  
 Sample : ECC2414-5 Inst : MSVOA15  
 Misc : MS47199,VZ2418,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	77	0.00	7.40
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	13.173	-31.7	107	0.00	2.83
3	Chloromethane	10.000	12.057	-20.6	98	0.00	2.73
4	1,1-Dichloroethene	10.000	10.978	-9.8	88	0.00	4.08
5	Methylene Chloride	10.000	11.075	-10.7	95	0.00	4.71
	----- AvgRF	CCRF	%Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.404	-9.5	87	0.00	4.89
7	1,1-Dichloroethane	0.626	0.730	-16.6	92	0.00	5.55
8	cis-1,2-Dichloroethene	0.410	0.425	-3.7	84	0.00	6.11
9	Chloroform	0.752	0.854	-13.6	92	0.00	6.38
10	Carbon Tetrachloride	0.510	0.507	0.6	76	0.00	6.54
11	1,1,1-Trichloroethane	0.658	0.716	-8.8	84	0.00	6.61
12	Benzene	1.392	1.565	-12.4	89	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.351	-13.6	86	0.00	7.13
14	1,2-Dichloroethane	0.525	0.586	-11.6	89	0.00	7.20
15	Trichloroethene	0.427	0.478	-11.9	89	0.00	7.57
16	1,2-Dichloropropane	0.354	0.386	-9.0	87	0.00	8.10
	----- Amount	Calc.	%Drift	-----			
17	cis-1,3-Dichloropropene	10.000	7.316	26.8	55	0.00	8.77
	----- AvgRF	CCRF	%Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	10.51
19 S	Toluene-d8	1.214	1.091	10.1	74	0.00	8.96
	----- Amount	Calc.	%Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	6.864	31.4	57	0.00	9.41
21	Tetrachloroethene	10.000	9.779	2.2	86	0.00	9.40

(#) = Out of Range  
 Z62211.D SIMCL091120.M

SPCC's out = 0 CCC's out = 0  
 Tue Sep 15 19:11:40 2020



# Continuing Calibration Summary

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2419-CC2414  
**Lab FileID:** Z62354.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\091520\Z62354.D Vial: 1  
 Acq On : 15 Sep 2020 1:58 pm Operator: JuanG  
 Sample : CC2414-5 Inst : MSVOA15  
 Misc : MS47199,VZ2419,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I Fluorobenzene	1.000	1.000	0.0	118	0.00	7.40
----- Amount Calc. %Drift -----						
2 Vinyl Chloride	10.000	13.761	-37.6#	170	0.00	2.84
3 Chloromethane	10.000	12.947	-29.5#	162	0.00	2.73
4 1,1-Dichloroethene	10.000	11.417	-14.2	139	0.00	4.08
5 Methylene Chloride	10.000	11.135	-11.3	146	0.00	4.71
----- AvgRF CCRF %Dev -----						
6 T trans-1,2-Dichloroethene	0.369	0.426	-15.4	139	0.00	4.88
7 1,1-Dichloroethane	0.626	0.745	-19.0	143	0.00	5.54
8 cis-1,2-Dichloroethene	0.410	0.438	-6.8	132	0.00	6.10
9 Chloroform	0.752	0.861	-14.5	141	0.00	6.37
10 Carbon Tetrachloride	0.510	0.567	-11.2	130	0.00	6.54
11 1,1,1-Trichloroethane	0.658	0.750	-14.0	135	0.00	6.61
12 Benzene	1.392	1.590	-14.2	138	0.00	6.99
13 S 1,2-Dichloroethane-d4	0.309	0.345	-11.7	129	0.00	7.12
14 1,2-Dichloroethane	0.525	0.589	-12.2	137	0.00	7.19
15 Trichloroethene	0.427	0.461	-8.0	131	0.00	7.56
16 1,2-Dichloropropane	0.354	0.386	-9.0	133	0.00	8.10
----- Amount Calc. %Drift -----						
17 cis-1,3-Dichloropropene	10.000	10.971	-9.7	133	0.00	8.77
----- AvgRF CCRF %Dev -----						
18 I Chlorobenzene-d5	1.000	1.000	0.0	125	0.00	10.51
19 S Toluene-d8	1.214	1.143	5.8	116	0.00	8.96
----- Amount Calc. %Drift -----						
20 T trans-1,3-Dichloropropene	10.000	11.009	-10.1	139	0.00	9.41
21 Tetrachloroethene	10.000	10.217	-2.2	133	0.00	9.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 Z62211.D SIMCL091120.M Wed Sep 16 14:00:03 2020

6.7.13

6

## Continuing Calibration Summary

Job Number: FA78565  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2419-ECC2414  
 Lab FileID: Z62384.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\091520\Z62384.D Vial: 29  
 Acq On : 15 Sep 2020 11:23 pm Operator: JuanG  
 Sample : ecc2414-5 Inst : MSVOA15  
 Misc : MS47193,VZ2419,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	90	0.00	7.40
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	13.797	-38.0	130	0.00	2.84
3	Chloromethane	10.000	12.578	-25.8	119	0.00	2.73
4	1,1-Dichloroethene	10.000	10.699	-7.0	100	0.00	4.08
5	Methylene Chloride	10.000	10.967	-9.7	110	0.00	4.71
	----- AvgRF	CCRF	%Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.399	-8.1	99	0.00	4.89
7	1,1-Dichloroethane	0.626	0.730	-16.6	107	0.00	5.54
8	cis-1,2-Dichloroethene	0.410	0.415	-1.2	95	0.00	6.10
9	Chloroform	0.752	0.859	-14.2	107	0.00	6.37
10	Carbon Tetrachloride	0.510	0.495	2.9	87	0.00	6.54
11	1,1,1-Trichloroethane	0.658	0.703	-6.8	96	0.00	6.61
12	Benzene	1.392	1.553	-11.6	103	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.364	-17.8	104	0.00	7.13
14	1,2-Dichloroethane	0.525	0.587	-11.8	104	0.00	7.20
15	Trichloroethene	0.427	0.481	-12.6	104	0.00	7.56
16	1,2-Dichloropropane	0.354	0.383	-8.2	101	0.00	8.10
	----- Amount	Calc.	%Drift	-----			
17	cis-1,3-Dichloropropene	10.000	6.855	31.4	60	0.00	8.77
	----- AvgRF	CCRF	%Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	10.51
19 S	Toluene-d8	1.214	1.045	13.9	86	0.00	8.96
	----- Amount	Calc.	%Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	5.898	41.0	59	0.00	9.41
21	Tetrachloroethene	10.000	9.063	9.4	97	0.00	9.40

(#) = Out of Range  
 Z62211.D SIMCL091120.M

SPCC's out = 0 CCC's out = 0  
 Wed Sep 16 14:03:03 2020

**Run Sequence Report**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2356	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2356-BFB	O61227.D	09/11/20 14:01	n/a	BFB Tune
VO2356-IC2356	O61230.D	09/11/20 15:34	n/a	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20 15:54	n/a	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20 16:14	n/a	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20 16:35	n/a	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20 16:55	n/a	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20 17:15	n/a	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20 17:36	n/a	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20 18:16	n/a	Initial cal verification 5

## Run Sequence Report

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VO2359      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSO

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2359-BFB	O61293.D	09/12/20 17:31	n/a	BFB Tune
VO2359-CC2356	O61294.D	09/12/20 17:54	n/a	Continuing cal 5
VO2359-BS	O61295.D	09/12/20 18:43	n/a	Blank Spike
VO2359-MB	O61296.D	09/12/20 19:03	n/a	Method Blank
FA78551-12	O61298.D	09/12/20 19:43	n/a	(used for QC only; not part of job FA78565)
ZZZZZZ	O61299.D	09/12/20 20:04	n/a	(unrelated sample)
ZZZZZZ	O61300.D	09/12/20 20:24	n/a	(unrelated sample)
ZZZZZZ	O61301.D	09/12/20 20:44	n/a	(unrelated sample)
ZZZZZZ	O61302.D	09/12/20 21:04	n/a	(unrelated sample)
ZZZZZZ	O61303.D	09/12/20 21:25	n/a	(unrelated sample)
ZZZZZZ	O61304.D	09/12/20 21:45	n/a	(unrelated sample)
ZZZZZZ	O61305.D	09/12/20 22:05	n/a	(unrelated sample)
ZZZZZZ	O61306.D	09/12/20 22:25	n/a	(unrelated sample)
ZZZZZZ	O61307.D	09/12/20 22:46	n/a	(unrelated sample)
ZZZZZZ	O61308.D	09/12/20 23:06	n/a	(unrelated sample)
ZZZZZZ	O61309.D	09/12/20 23:26	n/a	(unrelated sample)
ZZZZZZ	O61310.D	09/12/20 23:46	n/a	(unrelated sample)
ZZZZZZ	O61311.D	09/13/20 00:11	n/a	(unrelated sample)
ZZZZZZ	O61312.D	09/13/20 00:31	n/a	(unrelated sample)
ZZZZZZ	O61313.D	09/13/20 00:51	n/a	(unrelated sample)
FA78565-21	O61314.D	09/13/20 01:11	n/a	2036X0BW259F
FA78565-22	O61315.D	09/13/20 01:32	n/a	2036X0BW260F
FA78565-23	O61316.D	09/13/20 01:52	n/a	2036X0BW261F
FA78565-24	O61317.D	09/13/20 02:12	n/a	2036X0BW262F
FA78551-12MS	O61318.D	09/13/20 02:33	n/a	Matrix Spike
FA78551-12MSD	O61319.D	09/13/20 02:53	n/a	Matrix Spike Duplicate
VO2359-ECC2356	O61320.D	09/13/20 03:13	n/a	Ending cal 5

## Run Sequence Report

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VO2360      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSO

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2360-BFB	O61324.D	09/13/20 11:21	n/a	BFB Tune
VO2360-CC2356	O61325.D	09/13/20 11:41	n/a	Continuing cal 5
VO2360-BS	O61326.D	09/13/20 12:06	n/a	Blank Spike
VO2360-MB	O61328.D	09/13/20 12:47	n/a	Method Blank
FA78565-25	O61329.D	09/13/20 13:07	n/a	2036X0BW263F
FA78565-26	O61330.D	09/13/20 13:27	n/a	2036X0BW264A
FA78565-27	O61331.D	09/13/20 13:48	n/a	2036X0BW265C
ZZZZZZ	O61332.D	09/13/20 14:08	n/a	(unrelated sample)
ZZZZZZ	O61333.D	09/13/20 14:28	n/a	(unrelated sample)
ZZZZZZ	O61334.D	09/13/20 14:48	n/a	(unrelated sample)
ZZZZZZ	O61335.D	09/13/20 15:09	n/a	(unrelated sample)
ZZZZZZ	O61336.D	09/13/20 15:29	n/a	(unrelated sample)
ZZZZZZ	O61337.D	09/13/20 15:49	n/a	(unrelated sample)
ZZZZZZ	O61338.D	09/13/20 16:09	n/a	(unrelated sample)
ZZZZZZ	O61339.D	09/13/20 16:30	n/a	(unrelated sample)
ZZZZZZ	O61340.D	09/13/20 16:50	n/a	(unrelated sample)
ZZZZZZ	O61341.D	09/13/20 17:10	n/a	(unrelated sample)
ZZZZZZ	O61342.D	09/13/20 17:30	n/a	(unrelated sample)
ZZZZZZ	O61343.D	09/13/20 17:51	n/a	(unrelated sample)
ZZZZZZ	O61344.D	09/13/20 18:11	n/a	(unrelated sample)
FA78564-1	O61345.D	09/13/20 18:31	n/a	(used for QC only; not part of job FA78565)
ZZZZZZ	O61346.D	09/13/20 18:51	n/a	(unrelated sample)
ZZZZZZ	O61347.D	09/13/20 19:11	n/a	(unrelated sample)
ZZZZZZ	O61348.D	09/13/20 19:32	n/a	(unrelated sample)
FA78564-1MS	O61349.D	09/13/20 19:52	n/a	Matrix Spike
FA78564-1MSD	O61350.D	09/13/20 20:12	n/a	Matrix Spike Duplicate
VO2360-ECC2356	O61351.D	09/13/20 20:32	n/a	Ending cal 5

## Run Sequence Report

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2414      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2414-BFB	Z62205.D	09/11/20 17:20	n/a	BFB Tune
VZ2414-IC2414	Z62207.D	09/11/20 18:15	n/a	Initial cal 1
VZ2414-IC2414	Z62208.D	09/11/20 18:34	n/a	Initial cal 2
VZ2414-IC2414	Z62209.D	09/11/20 18:53	n/a	Initial cal 3
VZ2414-IC2414	Z62210.D	09/11/20 19:13	n/a	Initial cal 4
VZ2414-ICC2414	Z62211.D	09/11/20 19:32	n/a	Initial cal 5
VZ2414-IC2414	Z62212.D	09/11/20 19:51	n/a	Initial cal 6
VZ2414-IC2414	Z62213.D	09/11/20 20:13	n/a	Initial cal 7
VZ2414-ICV2414	Z62215.D	09/11/20 20:51	n/a	Initial cal verification 5
VZ2414-BS	Z62216.D	09/11/20 21:10	n/a	Blank Spike
VZ2414-MB	Z62218.D	09/11/20 21:49	n/a	Method Blank
FA78573-1	Z62219.D	09/11/20 22:08	n/a	(used for QC only; not part of job FA78565)
ZZZZZZ	Z62220.D	09/11/20 22:27	n/a	(unrelated sample)
ZZZZZZ	Z62221.D	09/11/20 22:47	n/a	(unrelated sample)
ZZZZZZ	Z62222.D	09/11/20 23:06	n/a	(unrelated sample)
ZZZZZZ	Z62223.D	09/11/20 23:26	n/a	(unrelated sample)
ZZZZZZ	Z62224.D	09/11/20 23:45	n/a	(unrelated sample)
ZZZZZZ	Z62225.D	09/12/20 00:04	n/a	(unrelated sample)
ZZZZZZ	Z62226.D	09/12/20 00:23	n/a	(unrelated sample)
ZZZZZZ	Z62227.D	09/12/20 00:42	n/a	(unrelated sample)
ZZZZZZ	Z62228.D	09/12/20 01:02	n/a	(unrelated sample)
ZZZZZZ	Z62229.D	09/12/20 01:21	n/a	(unrelated sample)
ZZZZZZ	Z62230.D	09/12/20 01:40	n/a	(unrelated sample)
ZZZZZZ	Z62231.D	09/12/20 02:00	n/a	(unrelated sample)
ZZZZZZ	Z62232.D	09/12/20 02:19	n/a	(unrelated sample)
FA78573-1MS	Z62233.D	09/12/20 02:38	n/a	Matrix Spike
FA78573-1MSD	Z62234.D	09/12/20 02:57	n/a	Matrix Spike Duplicate
VZ2414-ECC2414	Z62235.D	09/12/20 03:16	n/a	Ending cal 5

**Run Sequence Report**

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2416      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2416-BFB	Z62258.D	09/12/20 17:22	n/a	BFB Tune
VZ2416-CC2414	Z62259.D	09/12/20 17:42	n/a	Continuing cal 5
VZ2416-BS	Z62260.D	09/12/20 18:05	n/a	Blank Spike
VZ2416-MB	Z62262.D	09/12/20 18:44	n/a	Method Blank
FA78565-1	Z62263.D	09/12/20 19:04	n/a	2036X0BW236F
FA78565-2	Z62264.D	09/12/20 19:23	n/a	2036X0BW237D
FA78565-3	Z62265.D	09/12/20 19:42	n/a	2036X0BW238F
FA78565-4	Z62266.D	09/12/20 20:01	n/a	2036X0BW239F
FA78565-5	Z62267.D	09/12/20 20:20	n/a	2036X0BW240F
FA78565-6	Z62268.D	09/12/20 20:39	n/a	2036X0BW242F
FA78565-7	Z62269.D	09/12/20 20:59	n/a	2036X0BW243F
FA78565-8	Z62270.D	09/12/20 21:18	n/a	2036X0BW245F
FA78565-9	Z62271.D	09/12/20 21:37	n/a	2036X0BW247F
FA78565-10	Z62272.D	09/12/20 21:57	n/a	2036X0BW248F
FA78565-11	Z62273.D	09/12/20 22:16	n/a	2036X0BW249F
FA78565-12	Z62274.D	09/12/20 22:35	n/a	2036X0BW250F
FA78565-13	Z62275.D	09/12/20 22:54	n/a	2036X0BW251F
FA78565-14	Z62276.D	09/12/20 23:13	n/a	2036X0BW252F
FA78565-15	Z62277.D	09/12/20 23:33	n/a	2036X0BW253F
FA78565-16	Z62278.D	09/12/20 23:52	n/a	2036X0BW254F
FA78565-17	Z62279.D	09/13/20 00:11	n/a	2036X0BW255D
FA78565-18	Z62280.D	09/13/20 00:30	n/a	2036X0BW256F
FA78565-19	Z62281.D	09/13/20 00:49	n/a	2036X0BW257D
FA78565-20	Z62282.D	09/13/20 01:09	n/a	2036X0BW258F
FA78565-1MS	Z62283.D	09/13/20 01:28	n/a	Matrix Spike
FA78565-1MSD	Z62284.D	09/13/20 01:47	n/a	Matrix Spike Duplicate
VZ2416-ECC2414	Z62285.D	09/13/20 02:06	n/a	Ending cal 5

## Run Sequence Report

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2418      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2418-BFB	Z62321.D	09/14/20 11:56	n/a	BFB Tune
VZ2418-CC2414	Z62322.D	09/14/20 12:22	n/a	Continuing cal 5
VZ2418-BS	Z62323.D	09/14/20 13:18	n/a	Blank Spike
VZ2418-MB	Z62325.D	09/14/20 13:57	n/a	Method Blank
ZZZZZZ	Z62326.D	09/14/20 15:04	n/a	(unrelated sample)
ZZZZZZ	Z62327.D	09/14/20 15:23	n/a	(unrelated sample)
ZZZZZZ	Z62328.D	09/14/20 15:42	n/a	(unrelated sample)
ZZZZZZ	Z62329.D	09/14/20 16:02	n/a	(unrelated sample)
ZZZZZZ	Z62330.D	09/14/20 16:21	n/a	(unrelated sample)
ZZZZZZ	Z62331.D	09/14/20 16:41	n/a	(unrelated sample)
ZZZZZZ	Z62332.D	09/14/20 17:00	n/a	(unrelated sample)
ZZZZZZ	Z62333.D	09/14/20 17:19	n/a	(unrelated sample)
FA78551-15	Z62334.D	09/14/20 17:38	n/a	(used for QC only; not part of job FA78565)
FA78551-15MS	Z62335.D	09/14/20 17:57	n/a	Matrix Spike
FA78551-15MSD	Z62336.D	09/14/20 18:16	n/a	Matrix Spike Duplicate
ZZZZZZ	Z62337.D	09/14/20 18:36	n/a	(unrelated sample)
ZZZZZZ	Z62338.D	09/14/20 18:55	n/a	(unrelated sample)
ZZZZZZ	Z62339.D	09/14/20 19:14	n/a	(unrelated sample)
ZZZZZZ	Z62340.D	09/14/20 19:33	n/a	(unrelated sample)
ZZZZZZ	Z62341.D	09/14/20 19:52	n/a	(unrelated sample)
FA78551-16	Z62342.D	09/14/20 20:12	n/a	(used for QC only; not part of job FA78565)
FA78551-16MS	Z62343.D	09/14/20 20:31	n/a	Matrix Spike
FA78551-16MSD	Z62344.D	09/14/20 20:50	n/a	Matrix Spike Duplicate
FA78565-21	Z62345.D	09/14/20 21:09	n/a	2036X0BW259F
FA78565-22	Z62346.D	09/14/20 21:28	n/a	2036X0BW260F
FA78565-23	Z62347.D	09/14/20 21:48	n/a	2036X0BW261F
FA78565-24	Z62348.D	09/14/20 22:07	n/a	2036X0BW262F
FA78565-25	Z62349.D	09/14/20 22:26	n/a	2036X0BW263F
VZ2418-ECC2414	Z62350.D	09/14/20 22:45	n/a	Ending cal 5



## Run Sequence Report

**Job Number:** FA78565  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2419      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2419-BFB	Z62353.D	09/15/20 13:19	n/a	BFB Tune
VZ2419-CC2414	Z62354.D	09/15/20 13:58	n/a	Continuing cal 5
VZ2419-BS	Z62355.D	09/15/20 14:17	n/a	Blank Spike
VZ2419-MB	Z62357.D	09/15/20 14:55	n/a	Method Blank
FA78565-26	Z62359.D	09/15/20 15:39	n/a	2036X0BW264A
FA78565-27	Z62360.D	09/15/20 15:58	n/a	2036X0BW265C
ZZZZZZ	Z62361.D	09/15/20 16:18	n/a	(unrelated sample)
ZZZZZZ	Z62362.D	09/15/20 16:37	n/a	(unrelated sample)
ZZZZZZ	Z62363.D	09/15/20 16:56	n/a	(unrelated sample)
ZZZZZZ	Z62364.D	09/15/20 17:16	n/a	(unrelated sample)
ZZZZZZ	Z62365.D	09/15/20 17:35	n/a	(unrelated sample)
ZZZZZZ	Z62366.D	09/15/20 17:55	n/a	(unrelated sample)
FA78551-7	Z62367.D	09/15/20 18:14	n/a	(used for QC only; not part of job FA78565)
ZZZZZZ	Z62368.D	09/15/20 18:33	n/a	(unrelated sample)
FA78551-7MS	Z62370.D	09/15/20 18:53	n/a	Matrix Spike
FA78551-7MSD	Z62371.D	09/15/20 19:12	n/a	Matrix Spike Duplicate
ZZZZZZ	Z62372.D	09/15/20 19:31	n/a	(unrelated sample)
ZZZZZZ	Z62373.D	09/15/20 19:51	n/a	(unrelated sample)
ZZZZZZ	Z62374.D	09/15/20 20:10	n/a	(unrelated sample)
ZZZZZZ	Z62375.D	09/15/20 20:29	n/a	(unrelated sample)
ZZZZZZ	Z62376.D	09/15/20 20:49	n/a	(unrelated sample)
ZZZZZZ	Z62377.D	09/15/20 21:08	n/a	(unrelated sample)
ZZZZZZ	Z62379.D	09/15/20 21:47	n/a	(unrelated sample)
ZZZZZZ	Z62380.D	09/15/20 22:06	n/a	(unrelated sample)
ZZZZZZ	Z62381.D	09/15/20 22:25	n/a	(unrelated sample)
ZZZZZZ	Z62382.D	09/15/20 22:45	n/a	(unrelated sample)
ZZZZZZ	Z62383.D	09/15/20 23:04	n/a	(unrelated sample)
VZ2419-ECC2414	Z62384.D	09/15/20 23:23	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2416\  
Data File : Z62263.d  
Acq On : 12 Sep 2020 7:04 pm  
Operator : stutip  
Sample : fa78565-1  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 06:49:26 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1920437	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1517275	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	611853	5.15	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.00%
19) Toluene-d8	8.961	98	1868400	5.07	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
Target Compounds						
5) Methylene Chloride	4.713	84	41430	0.22	ppb	Qvalue 91
-----						

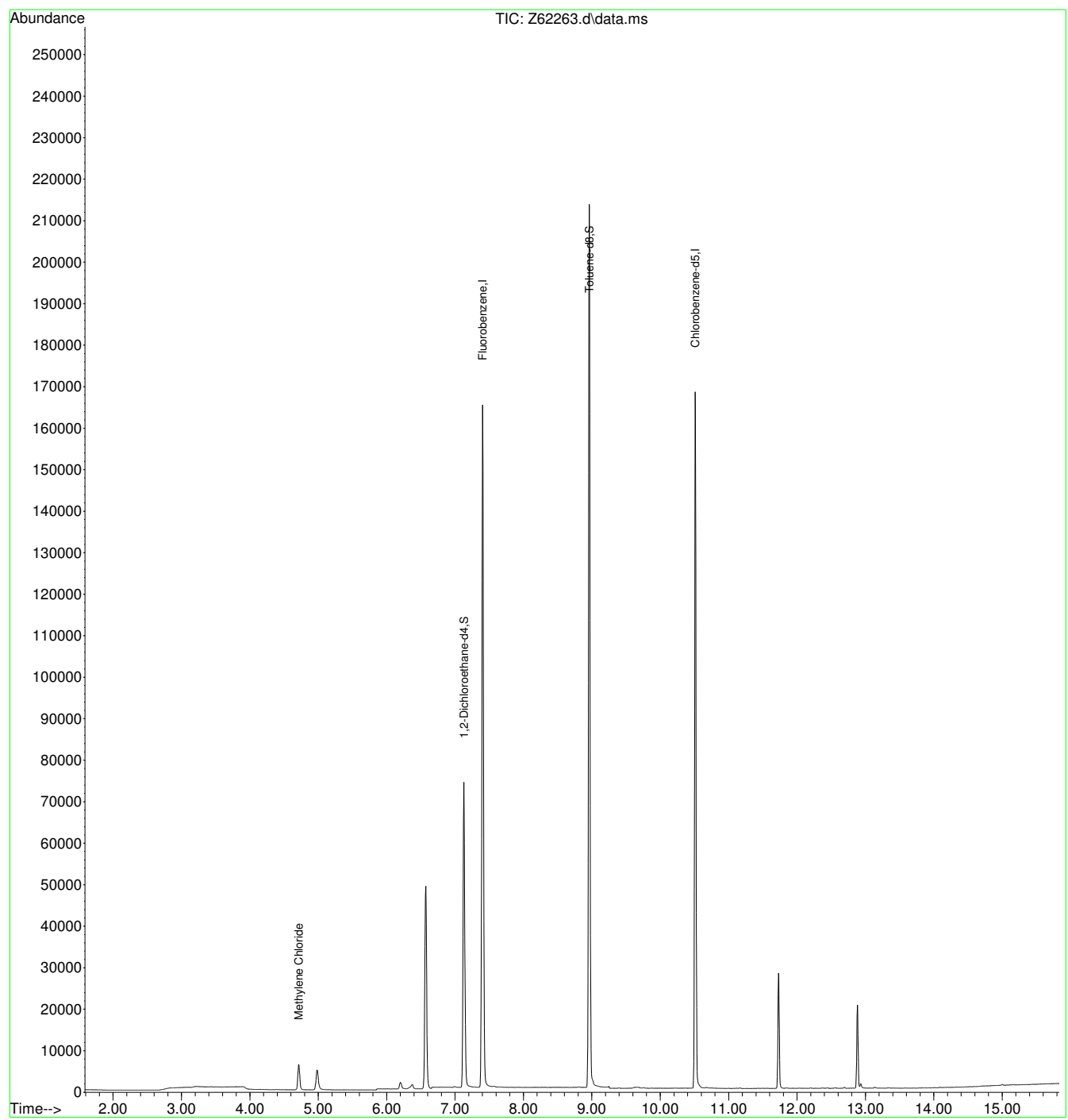
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.11  
7

Quantitation Report (QT Reviewed)

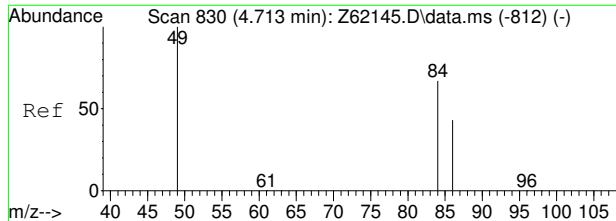
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62263.d  
Acq On : 12 Sep 2020 7:04 pm  
Operator : stutip  
Sample : fa78565-1  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 06:49:26 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.1  
7

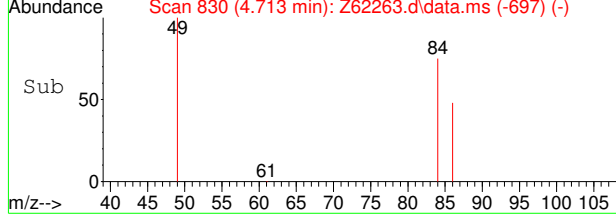
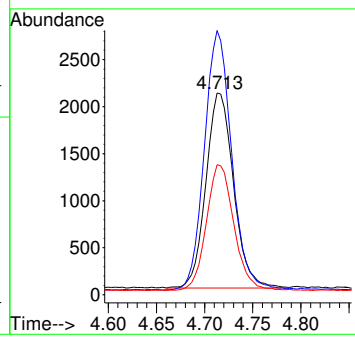
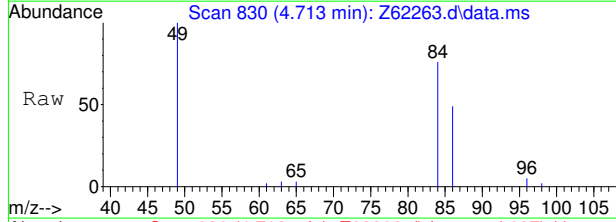




#5  
 Methylene Chloride  
 Concen: 0.22 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62263.d  
 Acq: 12 Sep 2020 7:04 pm

Tgt Ion: 84 Resp: 41430

Ion	Ratio	Lower	Upper
84	100		
49	132.8	128.7	168.7
86	64.4	43.9	83.9



7.1.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62264.d  
Acq On : 12 Sep 2020 7:23 pm  
Operator : stutip  
Sample : fa78565-2  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 06:49:28 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1871373	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1483392	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	600058	5.18	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.60%
19) Toluene-d8	8.961	98	1828658	5.08	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%
Target Compounds						
5) Methylene Chloride	4.713	84	19240	0.10	ppb	Qvalue # 88
-----						

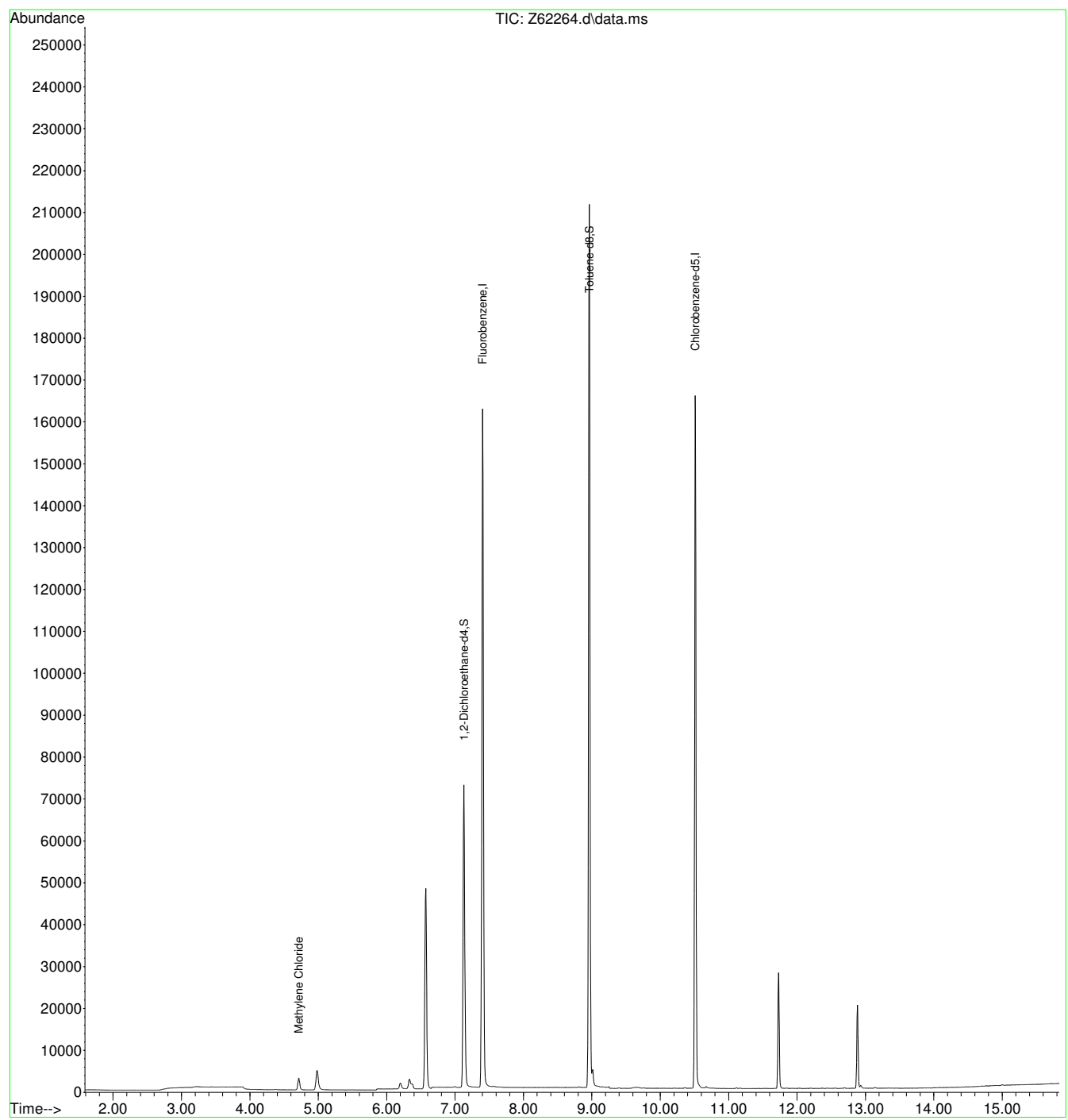
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.12  
7

Quantitation Report (QT Reviewed)

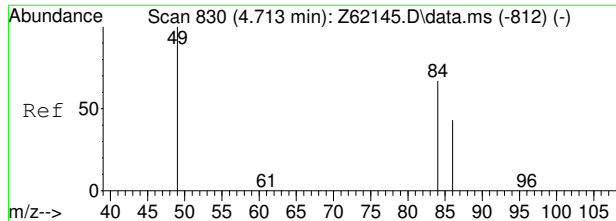
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62264.d  
Acq On : 12 Sep 2020 7:23 pm  
Operator : stutip  
Sample : fa78565-2  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 06:49:28 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



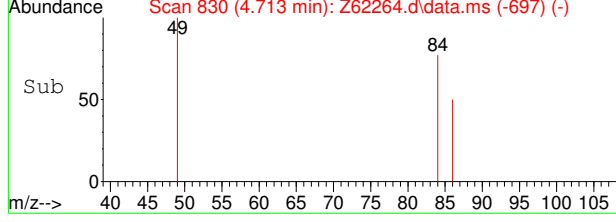
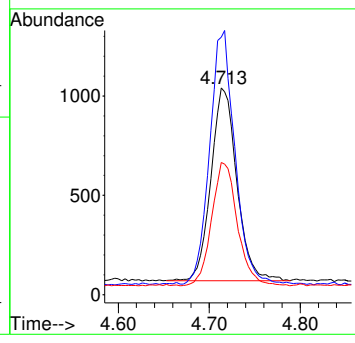
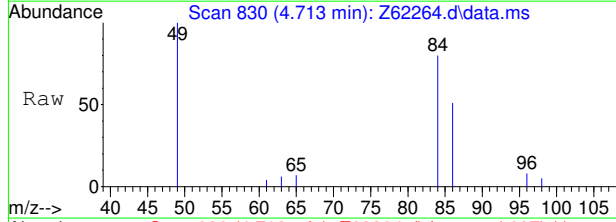
7.1.2  
7





#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62264.d  
 Acq: 12 Sep 2020 7:23 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.7	128.7	168.7#
86	63.8	43.9	83.9



7.12  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
Data File : Z62265.D  
Acq On : 12 Sep 2020 7:42 pm  
Operator : stutip  
Sample : fa78565-3  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 15 14:12:41 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1885303	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1496702	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	607704	5.21	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	104.20%	
19) Toluene-d8	8.961	98	1845532	5.08	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%	
Target Compounds							
5) Methylene Chloride	4.713	84	21205	0.11	ppb		Qvalue 91
9) Chloroform	6.377	83	54534	0.19	ppb		90
15) Trichloroethene	7.571	95	60710	0.38	ppb	#	84
21) Tetrachloroethene	9.399	166	10907	0.06	ppb		97
-----							

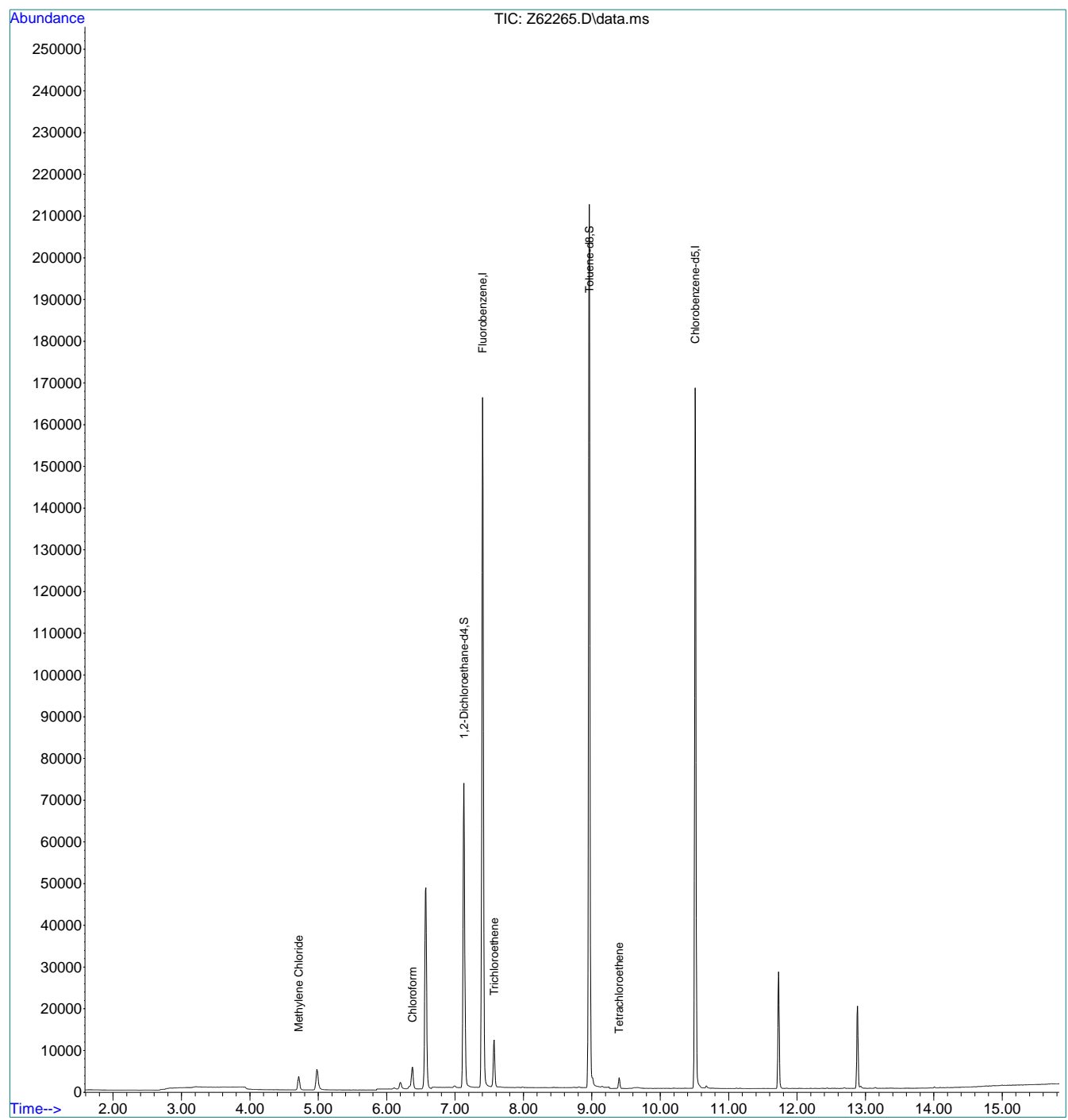
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.3  
7

Quantitation Report (QT Reviewed)

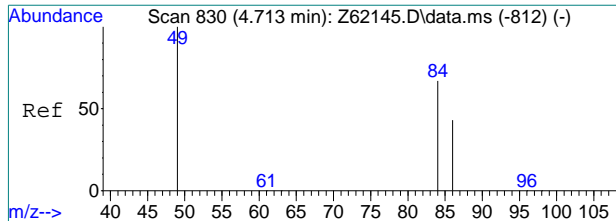
Data Path : C:\msdchem\1\data\091220\  
Data File : Z62265.D  
Acq On : 12 Sep 2020 7:42 pm  
Operator : stutip  
Sample : fa78565-3  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 15 14:12:41 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.3  
7

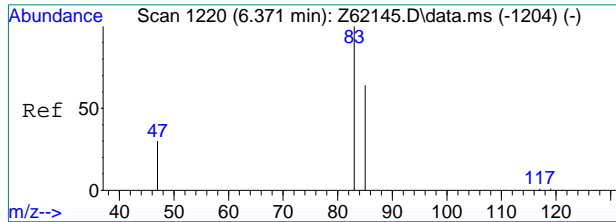
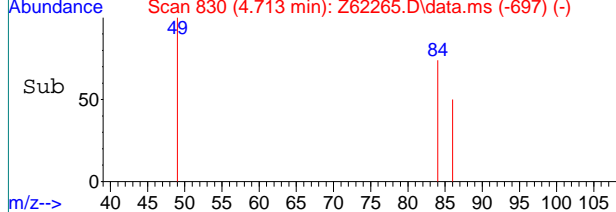
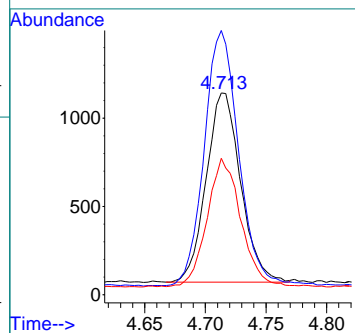
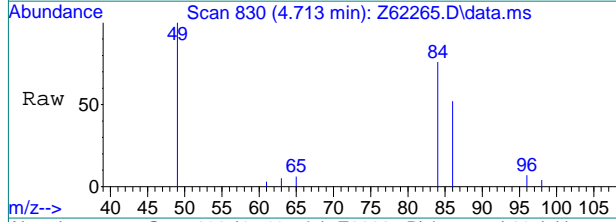




#5  
 Methylene Chloride  
 Concen: 0.11 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62265.D  
 Acq: 12 Sep 2020 7:42 pm

Tgt Ion: 84 Resp: 21205

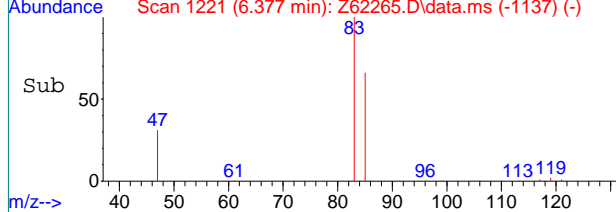
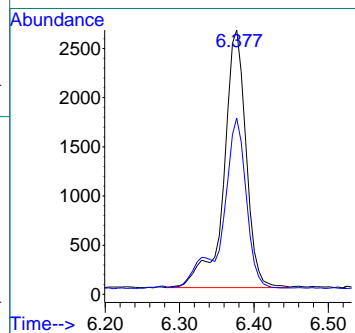
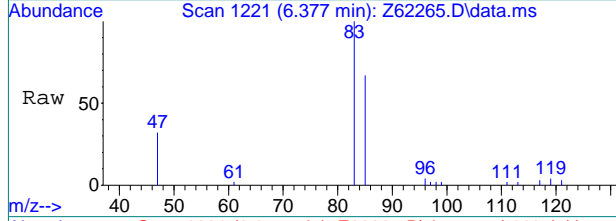
Ion	Ratio	Lower	Upper
84	100		
49	134.8	128.7	168.7
86	67.8	43.9	83.9

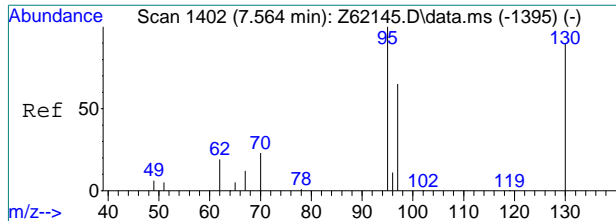


#9  
 Chloroform  
 Concen: 0.19 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62265.D  
 Acq: 12 Sep 2020 7:42 pm

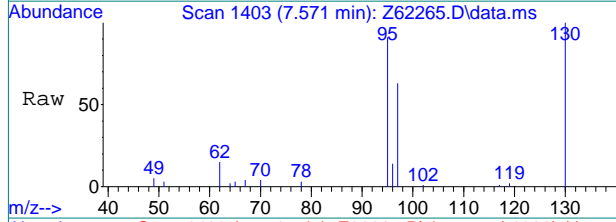
Tgt Ion: 83 Resp: 54534

Ion	Ratio	Lower	Upper
83	100		
85	58.4	46.1	86.1



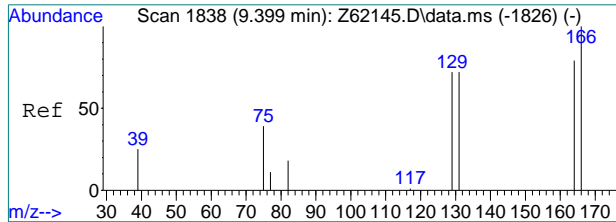
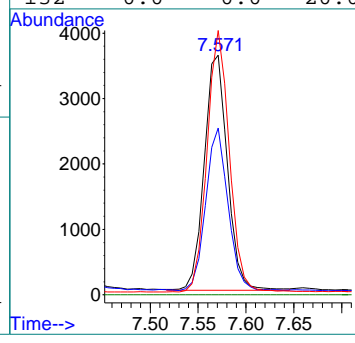
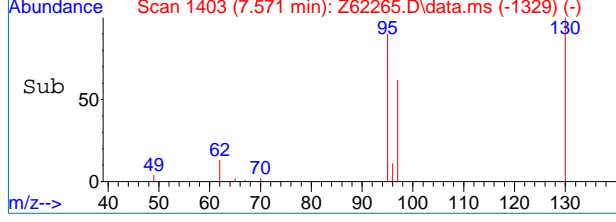


#15  
 Trichloroethene  
 Concen: 0.38 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62265.D  
 Acq: 12 Sep 2020 7:42 pm

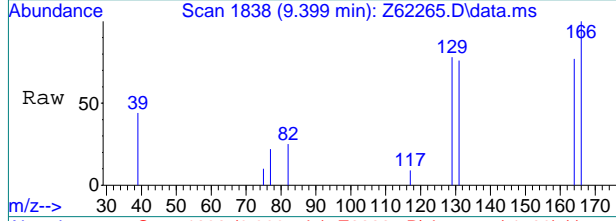


Tgt Ion: 95 Resp: 60710

Ion	Ratio	Lower	Upper
95	100		
97	69.2	44.5	84.5
130	111.6	69.7	109.7#
132	0.0	0.0	20.0

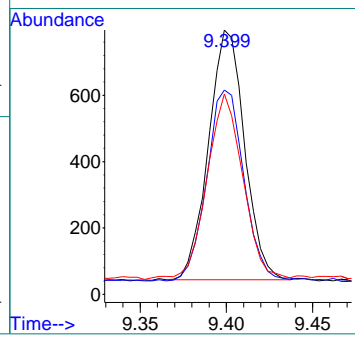
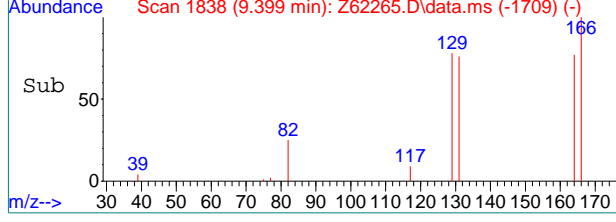


#21  
 Tetrachloroethene  
 Concen: 0.06 ppb  
 RT: 9.399 min Scan# 1838  
 Delta R.T. -0.000 min  
 Lab File: Z62265.D  
 Acq: 12 Sep 2020 7:42 pm



Tgt Ion: 166 Resp: 10907

Ion	Ratio	Lower	Upper
166	100		
164	76.4	58.7	98.7
131	73.6	51.6	91.6



7.13  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
 Data File : Z62266.D  
 Acq On : 12 Sep 2020 8:01 pm  
 Operator : stutip  
 Sample : fa78565-4  
 Misc : MS47199,VZ2416,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 14:12:44 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1709962	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1356583	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	554108	5.24	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	104.80%
19) Toluene-d8	8.961	98	1661934	5.05	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
Target Compounds						
5) Methylene Chloride	4.717	84	31691	0.19	ppb	# 88
9) Chloroform	6.377	83	97115	0.38	ppb	98
10) Carbon Tetrachloride	6.543	117	57495	0.33	ppb	97
15) Trichloroethene	7.571	95	156469	1.07	ppb	# 85
21) Tetrachloroethene	9.399	166	17618	0.11	ppb	98
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

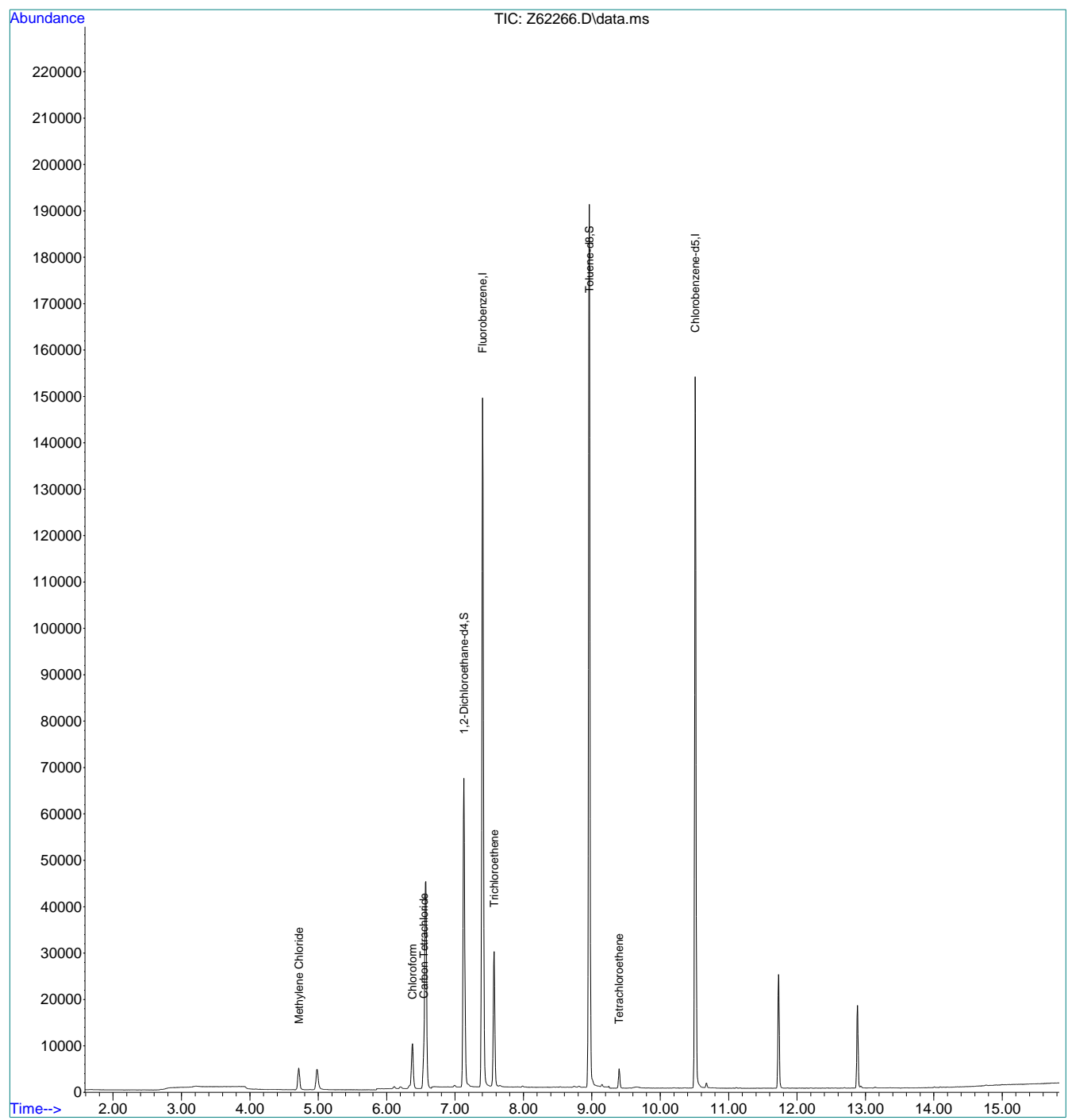
7.14  
7



Quantitation Report (QT Reviewed)

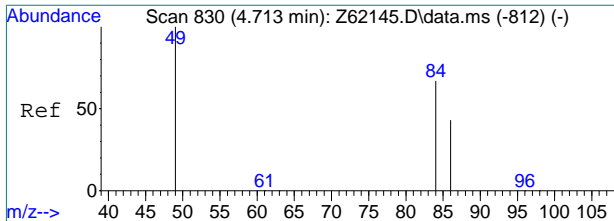
Data Path : C:\msdchem\1\data\091220\  
Data File : Z62266.D  
Acq On : 12 Sep 2020 8:01 pm  
Operator : stutip  
Sample : fa78565-4  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 14:12:44 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



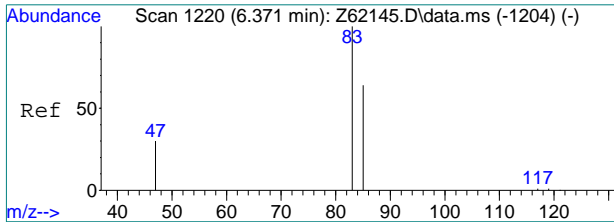
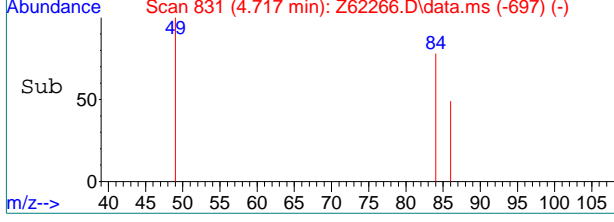
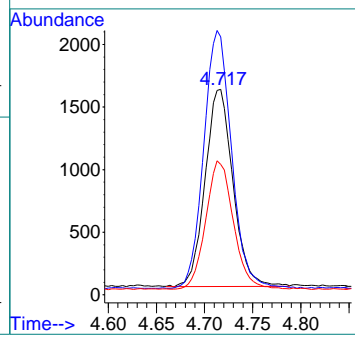
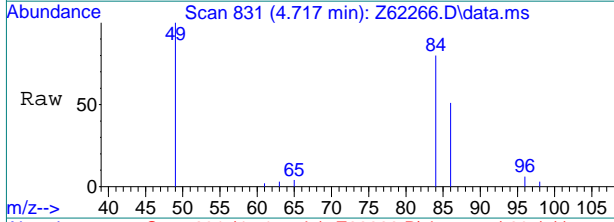
7.1.4  
7





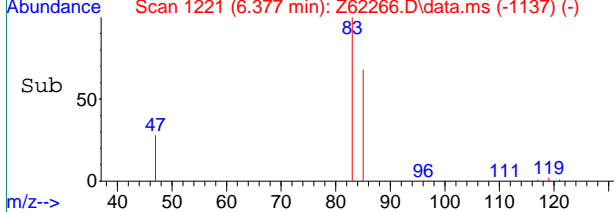
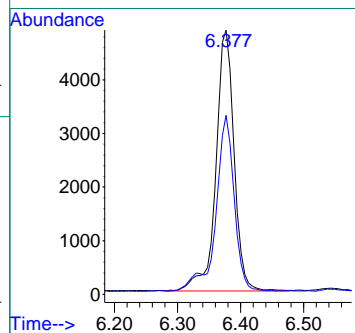
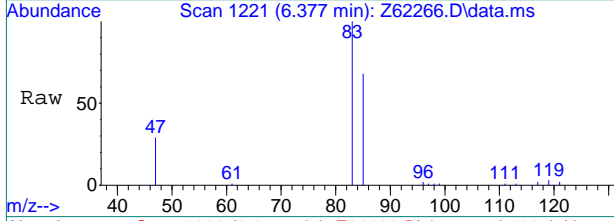
#5  
 Methylene Chloride  
 Concen: 0.19 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62266.D  
 Acq: 12 Sep 2020 8:01 pm

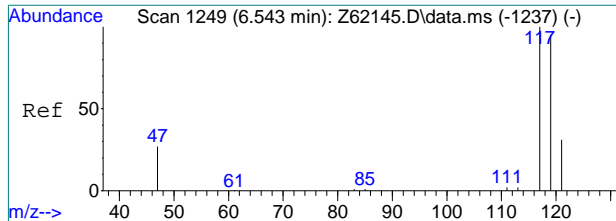
Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.6	128.7	168.7#
86	63.0	43.9	83.9



#9  
 Chloroform  
 Concen: 0.38 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62266.D  
 Acq: 12 Sep 2020 8:01 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.1	46.1	86.1

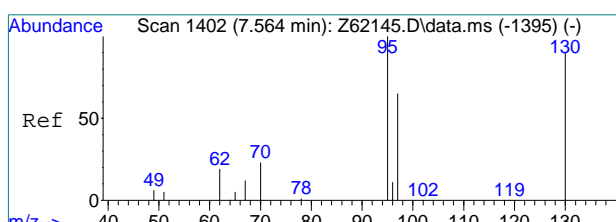
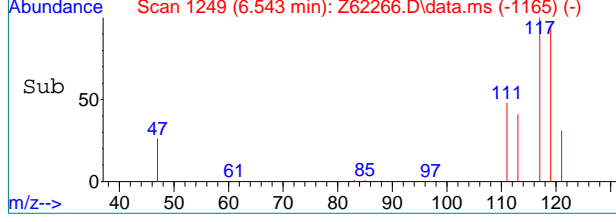
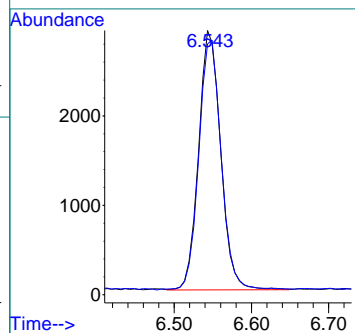
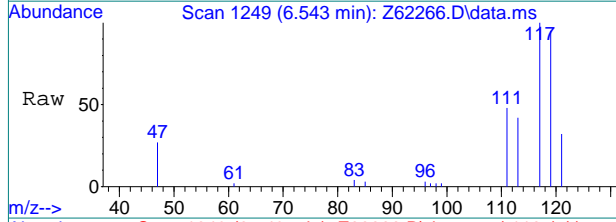




#10  
 Carbon Tetrachloride  
 Concen: 0.33 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62266.D  
 Acq: 12 Sep 2020 8:01 pm

Tgt Ion: 117 Resp: 57495

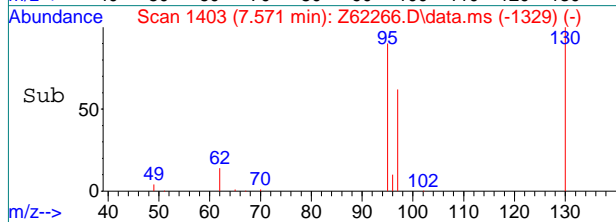
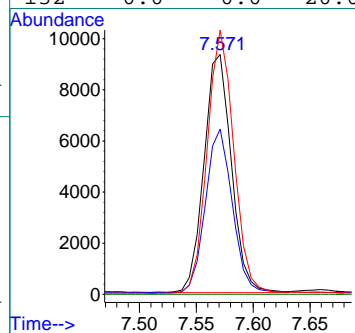
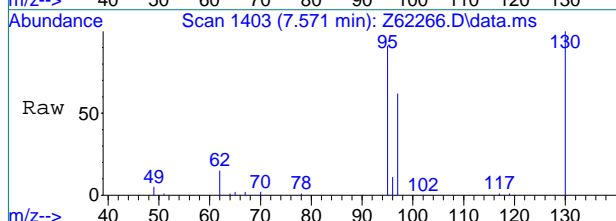
Ion	Ratio	Lower	Upper
117	100		
119	98.5	75.5	115.5



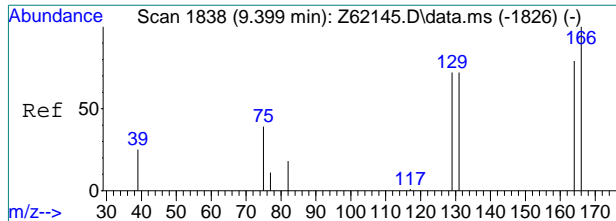
#15  
 Trichloroethene  
 Concen: 1.07 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62266.D  
 Acq: 12 Sep 2020 8:01 pm

Tgt Ion: 95 Resp: 156469

Ion	Ratio	Lower	Upper
95	100		
97	68.7	44.5	84.5
130	110.7	69.7	109.7#
132	0.0	0.0	20.0

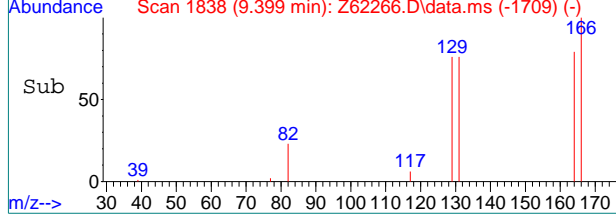
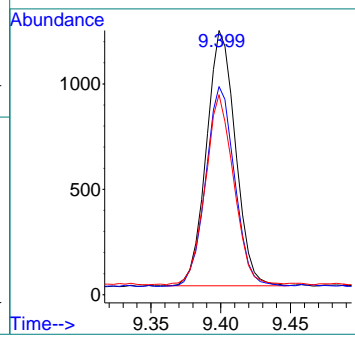
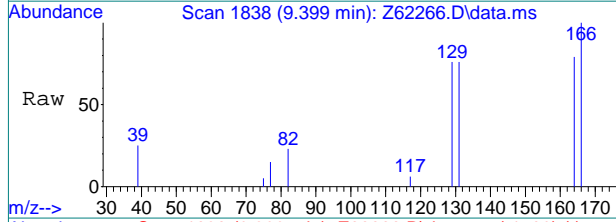






#21  
 Tetrachloroethene  
 Concen: 0.11 ppb  
 RT: 9.399 min Scan# 1838  
 Delta R.T. -0.000 min  
 Lab File: Z62266.D  
 Acq: 12 Sep 2020 8:01 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.1	58.7	98.7
131	74.3	51.6	91.6



7.1.4  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2416\  
Data File : Z62267.d  
Acq On : 12 Sep 2020 8:20 pm  
Operator : stutip  
Sample : fa78565-5  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 06:49:35 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1772661	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1408103	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	582163	5.31	ppb	0.00
Spiked Amount	5.000	Range 79 - 125	Recovery	=	106.20%	
19) Toluene-d8	8.961	98	1730658	5.06	ppb	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	101.20%	
Target Compounds						
5) Methylene Chloride	4.713	84	19424	0.11	ppb	# 85
8) cis-1,2-Dichloroethene	6.110	96	25206	0.17	ppb	91
15) Trichloroethene	7.571	95	167946	1.11	ppb	# 83
-----						

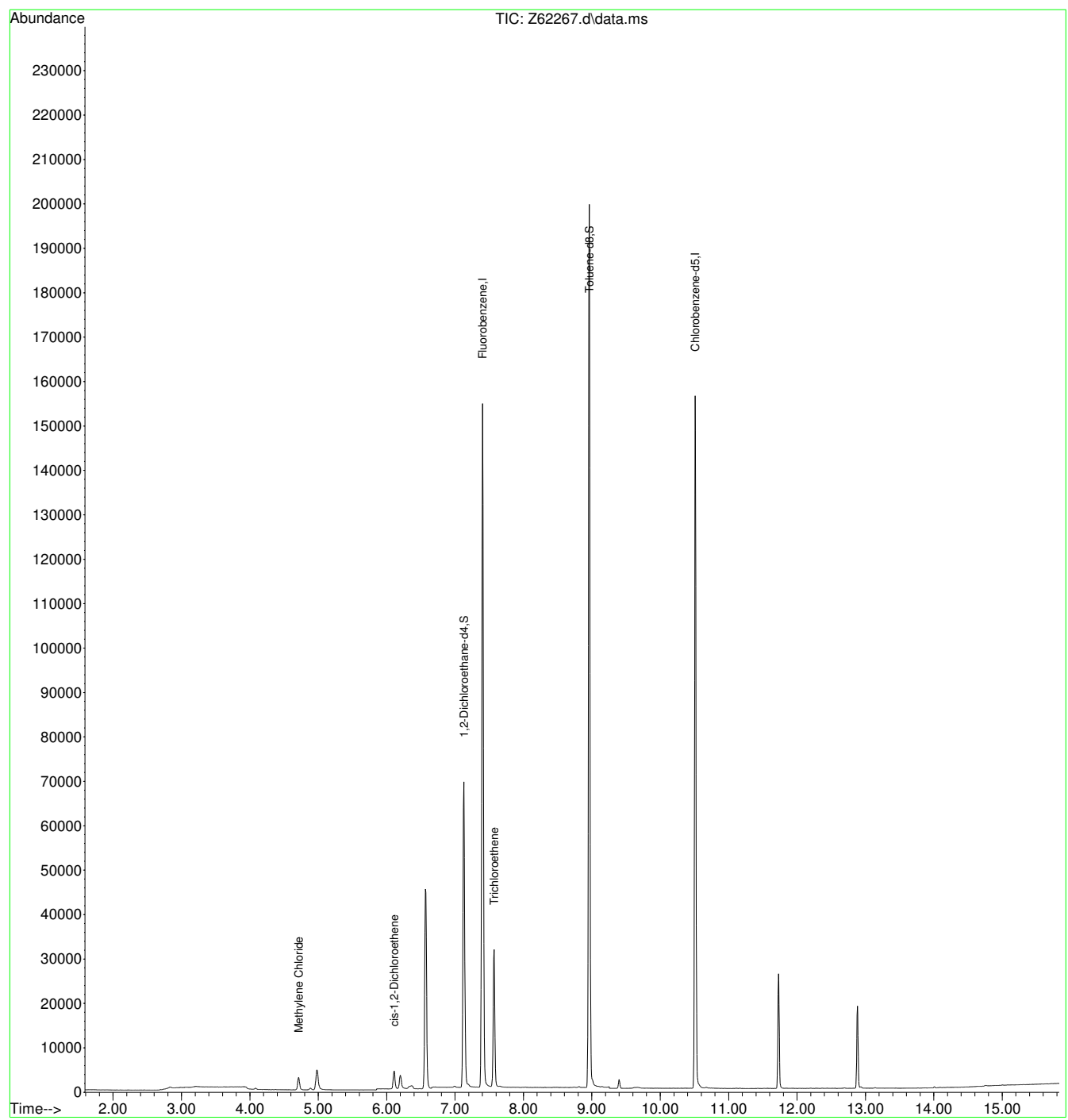
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.15  
7

Quantitation Report (QT Reviewed)

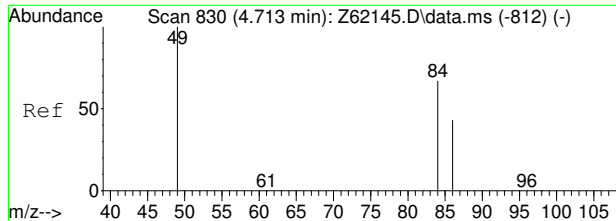
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62267.d  
Acq On : 12 Sep 2020 8:20 pm  
Operator : stutip  
Sample : fa78565-5  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 06:49:35 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.5  
7

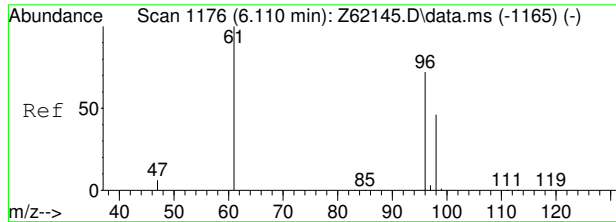
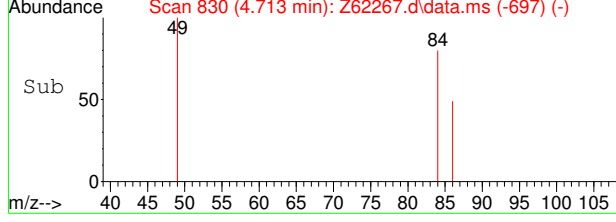
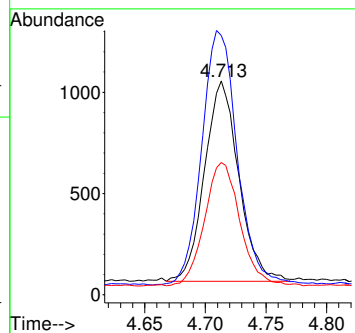
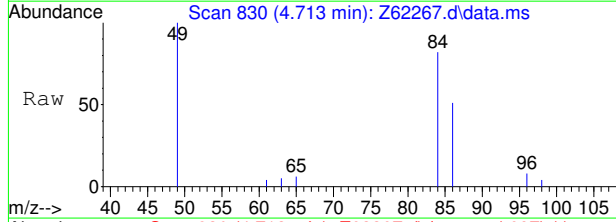




#5  
 Methylene Chloride  
 Concen: 0.11 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62267.d  
 Acq: 12 Sep 2020 8:20 pm

Tgt Ion: 84 Resp: 19424

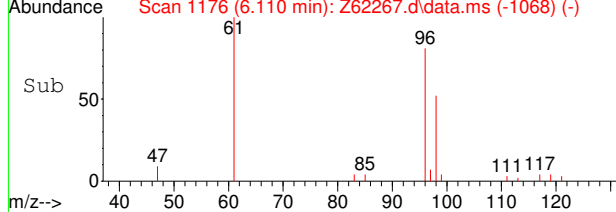
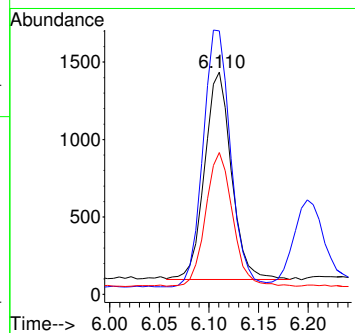
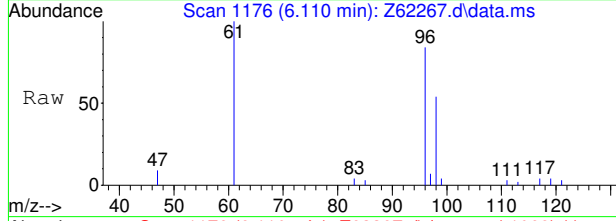
Ion	Ratio	Lower	Upper
84	100		
49	123.9	128.7	168.7#
86	61.6	43.9	83.9



#8  
 cis-1,2-Dichloroethene  
 Concen: 0.17 ppb  
 RT: 6.110 min Scan# 1176  
 Delta R.T. 0.000 min  
 Lab File: Z62267.d  
 Acq: 12 Sep 2020 8:20 pm

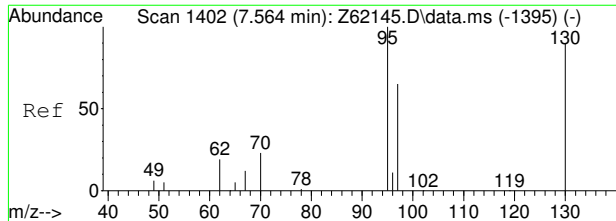
Tgt Ion: 96 Resp: 25206

Ion	Ratio	Lower	Upper
96	100		
61	123.5	119.3	159.3
98	64.6	44.5	84.5

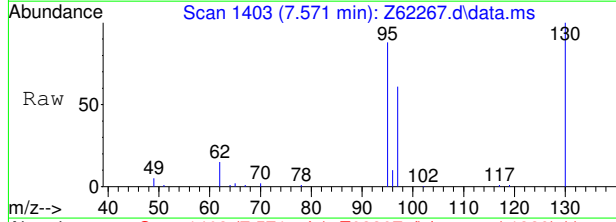


7.15  
7



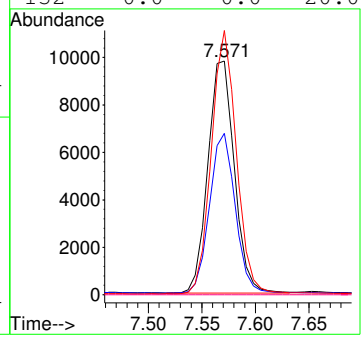
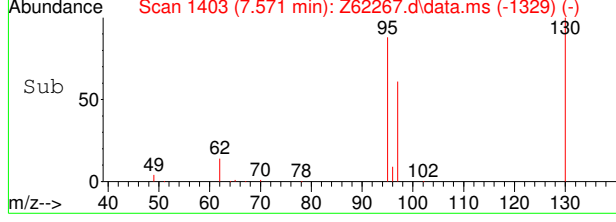


#15  
 Trichloroethene  
 Concen: 1.11 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62267.d  
 Acq: 12 Sep 2020 8:20 pm



Tgt Ion: 95 Resp: 167946

Ion	Ratio	Lower	Upper
95	100		
97	68.9	44.5	84.5
130	113.6	69.7	109.7#
132	0.0	0.0	20.0



7.1.5  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2416\  
 Data File : Z62268.d  
 Acq On : 12 Sep 2020 8:39 pm  
 Operator : stutip  
 Sample : fa78565-6  
 Misc : MS47199,VZ2416,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 06:49:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1729723	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1371565	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	567536	5.30	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	106.00%
19) Toluene-d8	8.961	98	1683340	5.05	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
Target Compounds						
5) Methylene Chloride	4.713	84	17865	0.10	ppb	Qvalue # 87
9) Chloroform	6.377	83	41698	0.16	ppb	98
10) Carbon Tetrachloride	6.543	117	46775	0.27	ppb	97
15) Trichloroethene	7.564	95	14663	0.10	ppb	97
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

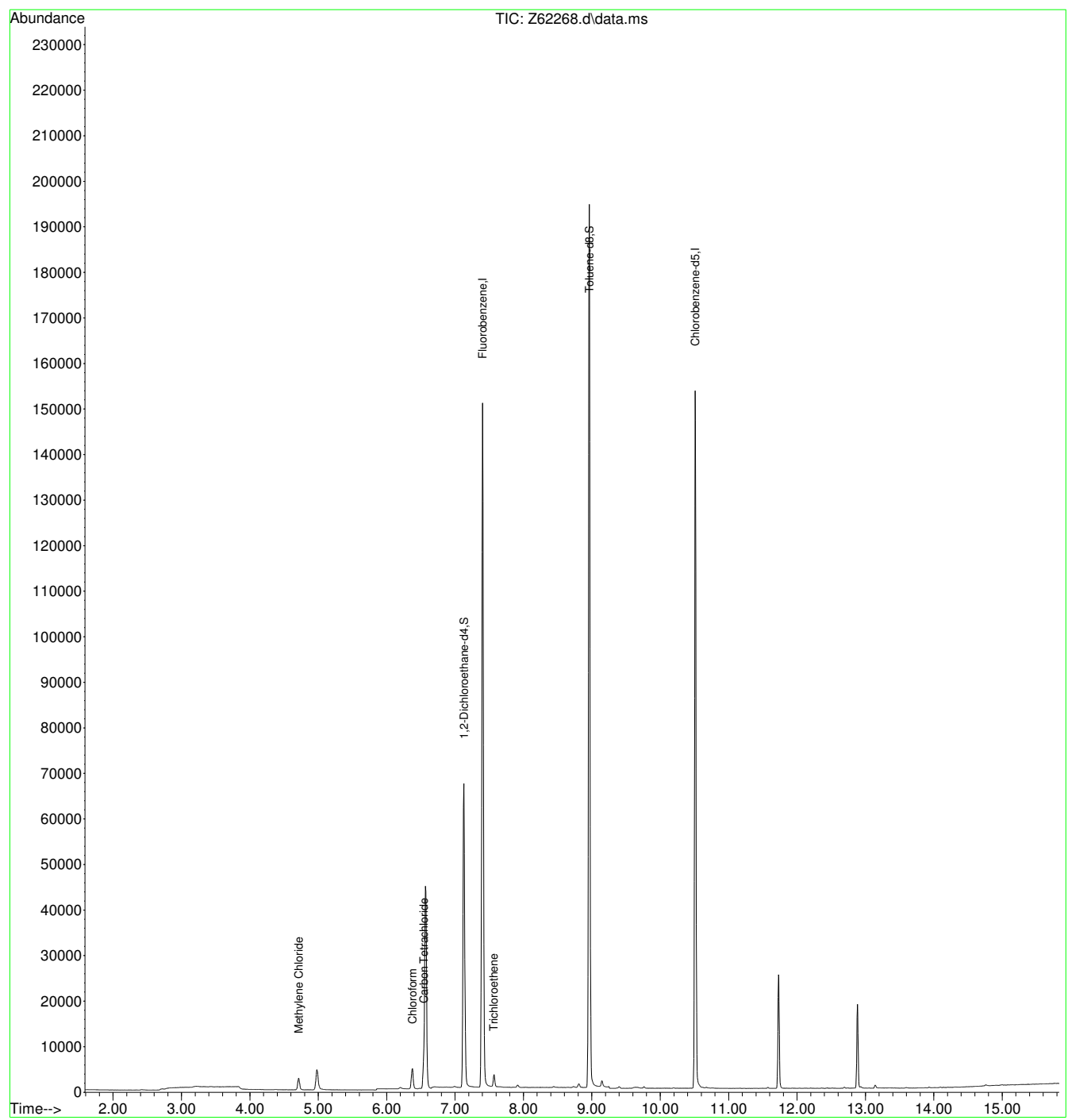
7.1.6  
7



Quantitation Report (QT Reviewed)

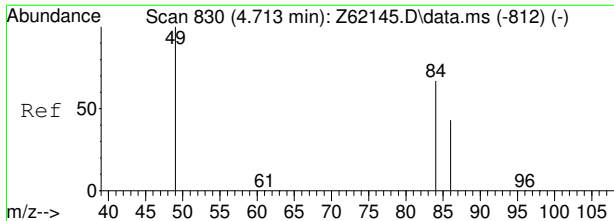
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62268.d  
Acq On : 12 Sep 2020 8:39 pm  
Operator : stutip  
Sample : fa78565-6  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 06:49:37 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



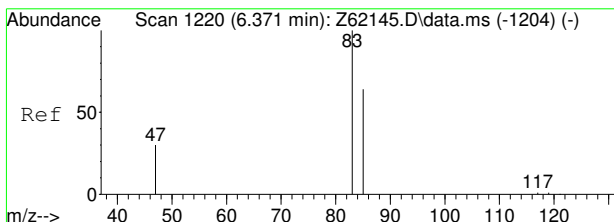
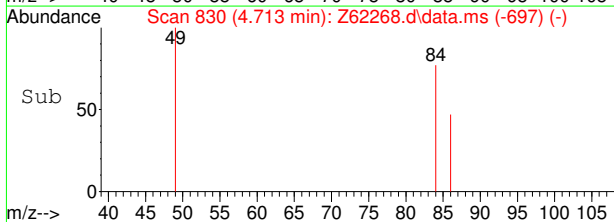
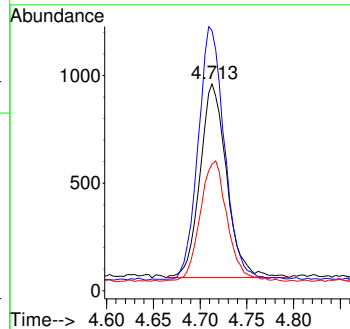
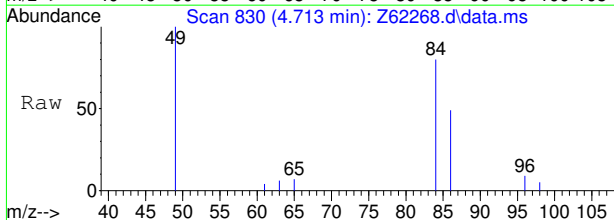
7.1.6  
7





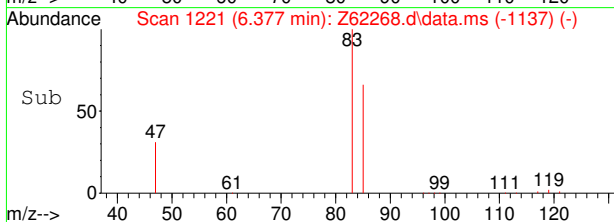
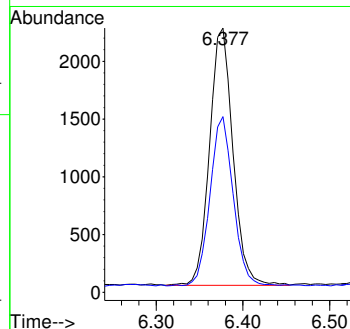
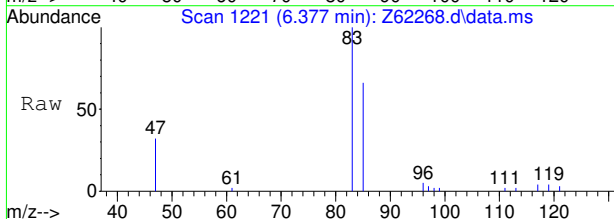
#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62268.d  
 Acq: 12 Sep 2020 8:39 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	128.1	128.7	168.7#
86	60.2	43.9	83.9



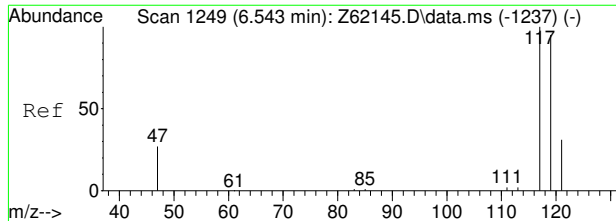
#9  
 Chloroform  
 Concen: 0.16 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62268.d  
 Acq: 12 Sep 2020 8:39 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	46.1	86.1



7.16  
7

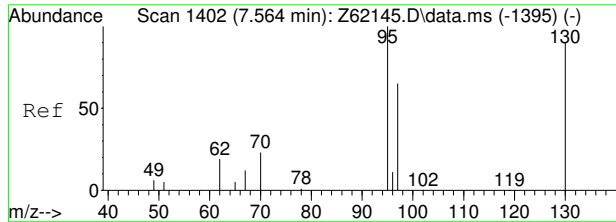
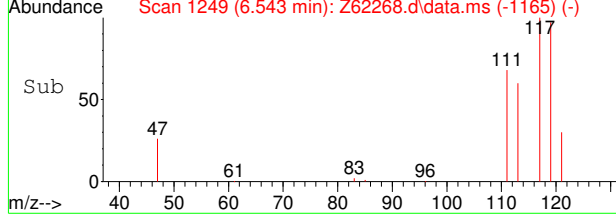
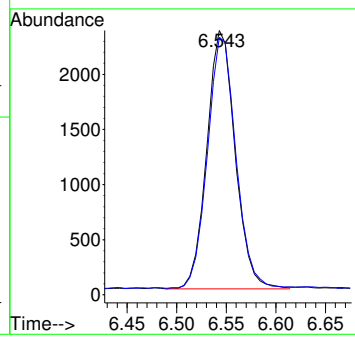
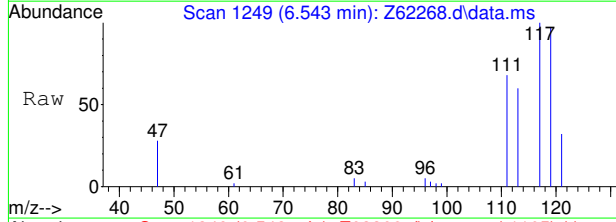




#10  
 Carbon Tetrachloride  
 Concen: 0.27 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62268.d  
 Acq: 12 Sep 2020 8:39 pm

Tgt Ion: 117 Resp: 46775

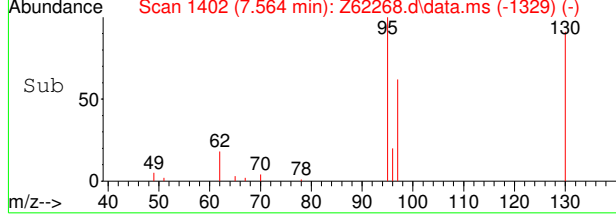
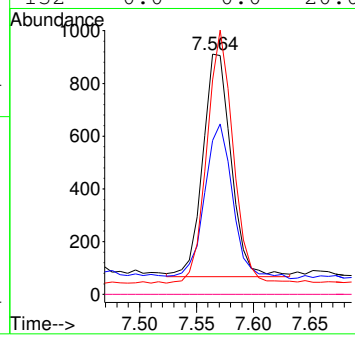
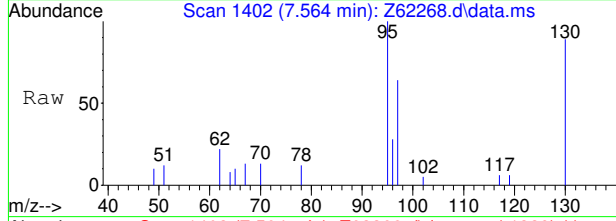
Ion	Ratio	Lower	Upper
117	100		
119	98.0	75.5	115.5



#15  
 Trichloroethene  
 Concen: 0.10 ppb  
 RT: 7.564 min Scan# 1402  
 Delta R.T. -0.007 min  
 Lab File: Z62268.d  
 Acq: 12 Sep 2020 8:39 pm

Tgt Ion: 95 Resp: 14663

Ion	Ratio	Lower	Upper
95	100		
97	62.8	44.5	84.5
130	92.3	69.7	109.7
132	0.0	0.0	20.0



7.1.6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2416\  
Data File : Z62269.d  
Acq On : 12 Sep 2020 8:59 pm  
Operator : stutip  
Sample : fa78565-7  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 06:49:40 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1645797	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1301518	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	545159	5.35	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	107.00%
19) Toluene-d8	8.961	98	1596193	5.05	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
Target Compounds						
5) Methylene Chloride	4.717	84	16935	0.10	ppb	# 86
9) Chloroform	6.377	83	156351	0.63	ppb	100
10) Carbon Tetrachloride	6.549	117	552687	3.29	ppb	97
15) Trichloroethene	7.571	95	121579	0.86	ppb	86
21) Tetrachloroethene	9.399	166	13967	0.09	ppb	98
-----						

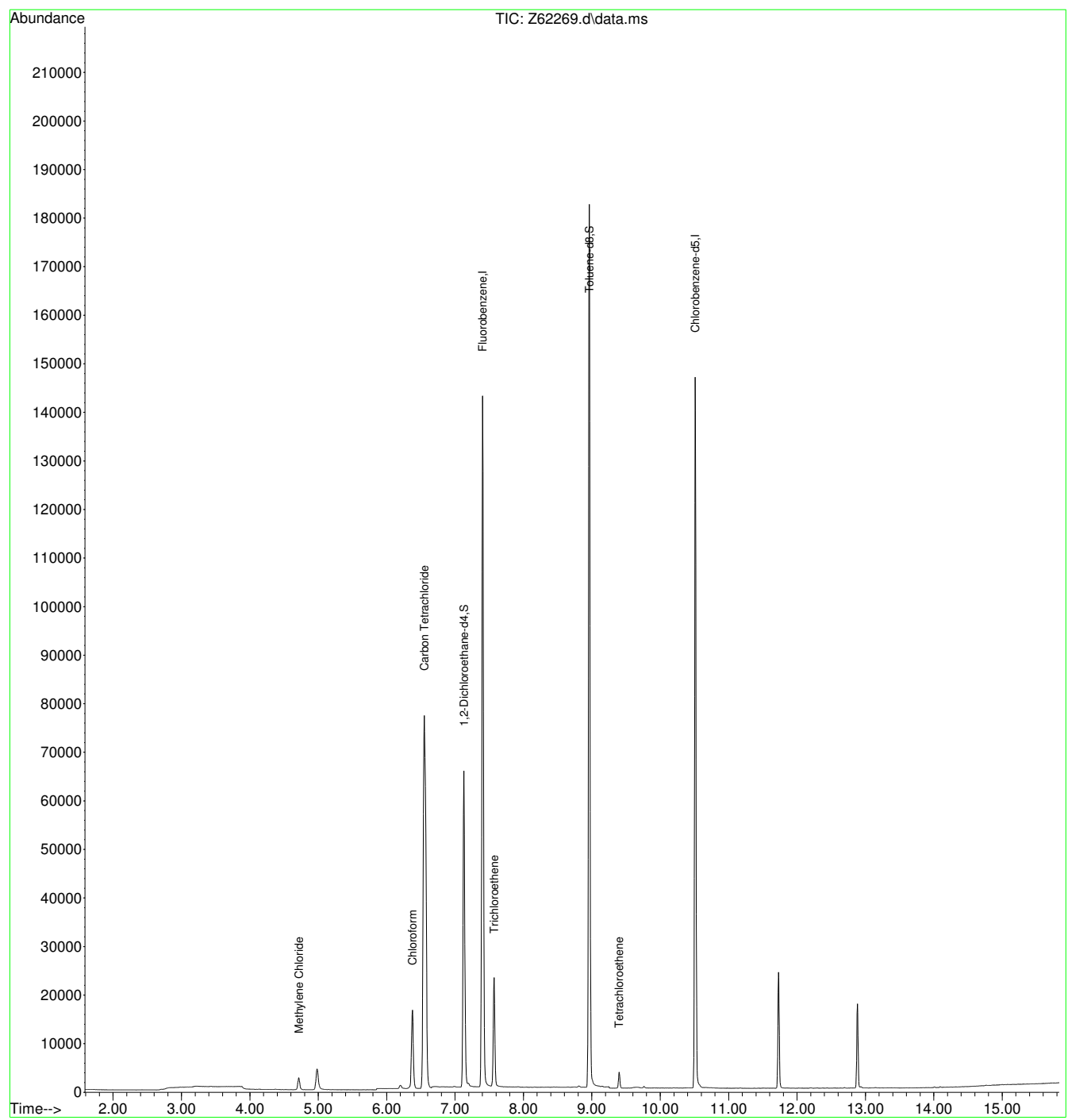
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.17  
7

Quantitation Report (QT Reviewed)

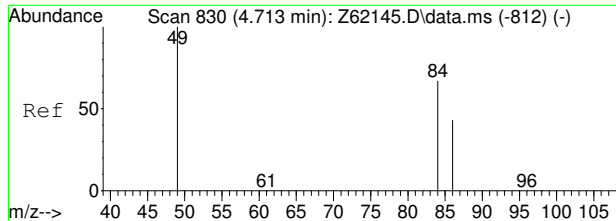
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62269.d  
Acq On : 12 Sep 2020 8:59 pm  
Operator : stutip  
Sample : fa78565-7  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 06:49:40 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.7  
7

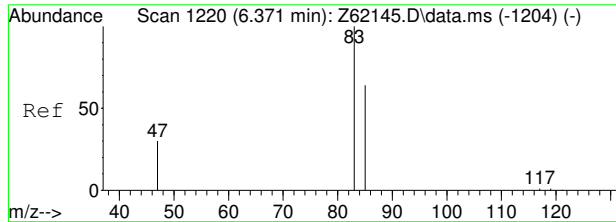
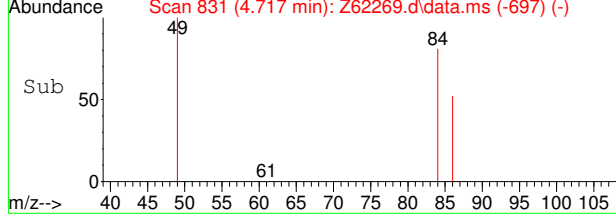
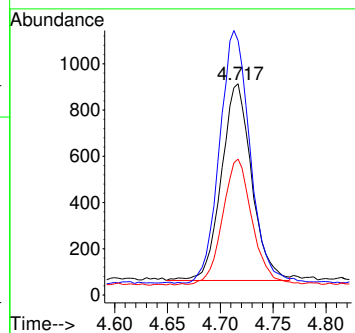
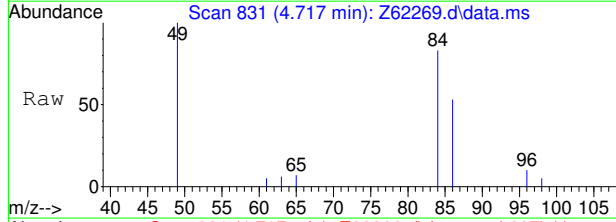




#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62269.d  
 Acq: 12 Sep 2020 8:59 pm

Tgt Ion: 84 Resp: 16935

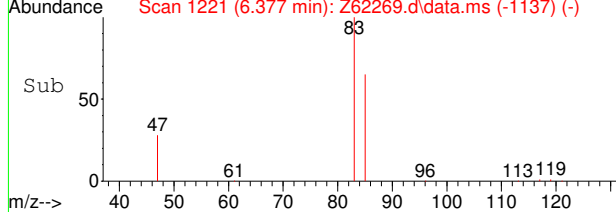
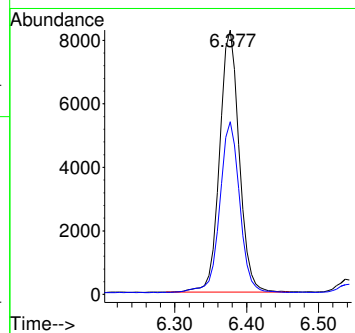
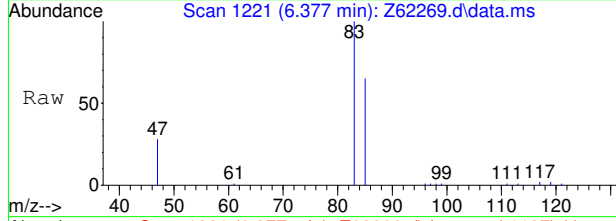
Ion	Ratio	Lower	Upper
84	100		
49	123.0	128.7	168.7#
86	64.0	43.9	83.9



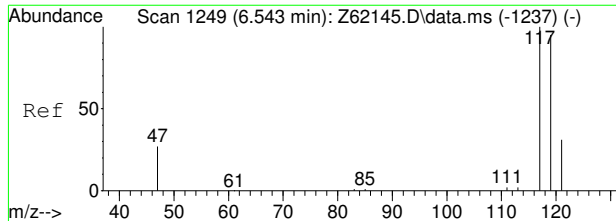
#9  
 Chloroform  
 Concen: 0.63 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62269.d  
 Acq: 12 Sep 2020 8:59 pm

Tgt Ion: 83 Resp: 156351

Ion	Ratio	Lower	Upper
83	100		
85	65.8	46.1	86.1



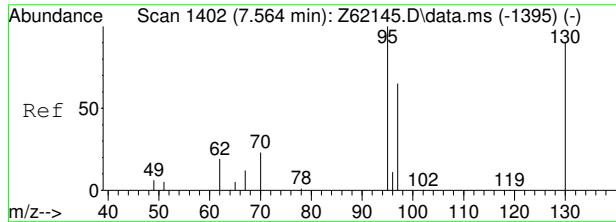
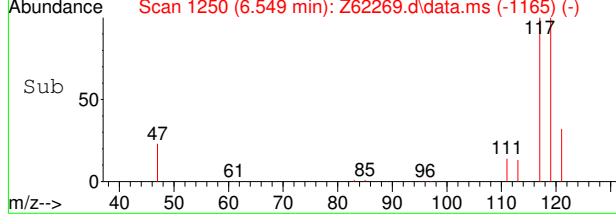
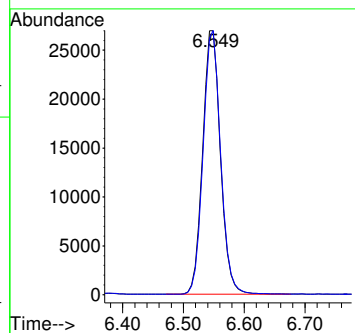
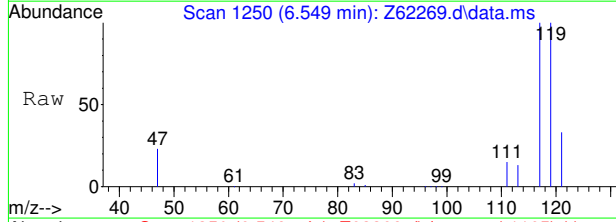
7.17



#10  
 Carbon Tetrachloride  
 Concen: 3.29 ppb  
 RT: 6.549 min Scan# 1250  
 Delta R.T. 0.006 min  
 Lab File: Z62269.d  
 Acq: 12 Sep 2020 8:59 pm

Tgt Ion: 117 Resp: 552687

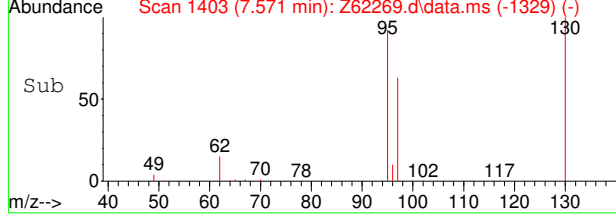
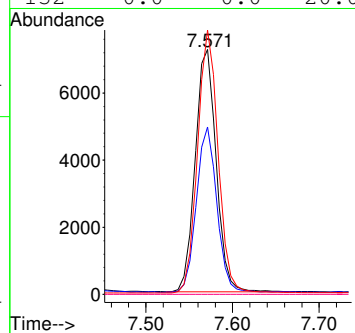
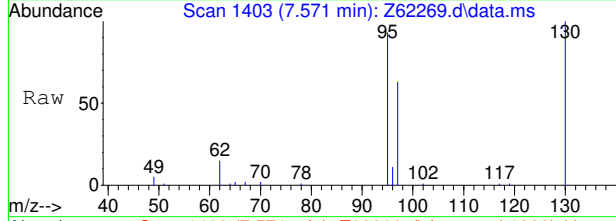
Ion	Ratio	Lower	Upper
117	100		
119	98.8	75.5	115.5



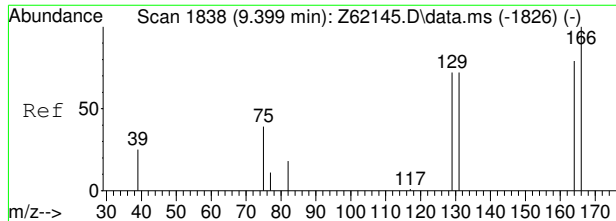
#15  
 Trichloroethene  
 Concen: 0.86 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. -0.000 min  
 Lab File: Z62269.d  
 Acq: 12 Sep 2020 8:59 pm

Tgt Ion: 95 Resp: 121579

Ion	Ratio	Lower	Upper
95	100		
97	68.1	44.5	84.5
130	108.5	69.7	109.7
132	0.0	0.0	20.0

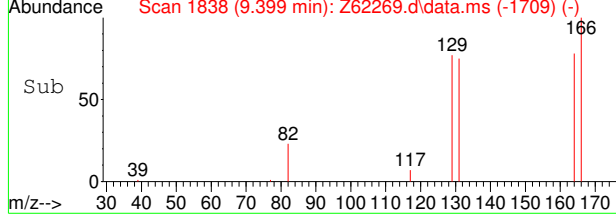
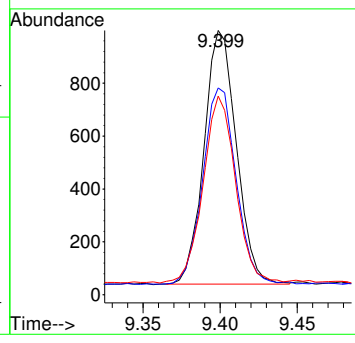
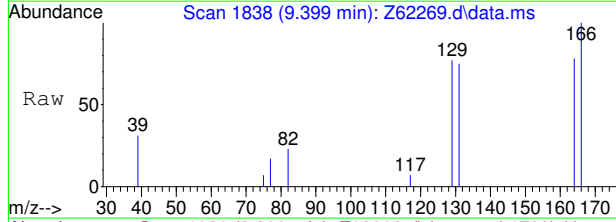


7.17



#21  
 Tetrachloroethene  
 Concen: 0.09 ppb  
 RT: 9.399 min Scan# 1838  
 Delta R.T. -0.000 min  
 Lab File: Z62269.d  
 Acq: 12 Sep 2020 8:59 pm

Tgt Ion	Resp
166	13967
166	100
164	77.2
131	73.1



7.1.7  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62270.d  
 Acq On : 12 Sep 2020 9:18 pm  
 Operator : stutip  
 Sample : fa78565-8  
 Misc : MS47199,VZ2416,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 06:49:42 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1579769	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1250275	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	528078	5.40	ppb	0.00
Spiked Amount	5.000	Range 79 - 125	Recovery	=	108.00%	
19) Toluene-d8	8.961	98	1533358	5.05	ppb	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	101.00%	
Target Compounds						
5) Methylene Chloride	4.717	84	15863	0.10	ppb	# 87
9) Chloroform	6.377	83	139436	0.59	ppb	99
10) Carbon Tetrachloride	6.543	117	360327	2.24	ppb	96
15) Trichloroethene	7.571	95	149643	1.11	ppb	# 86
21) Tetrachloroethene	9.399	166	8135	0.05	ppb	96
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

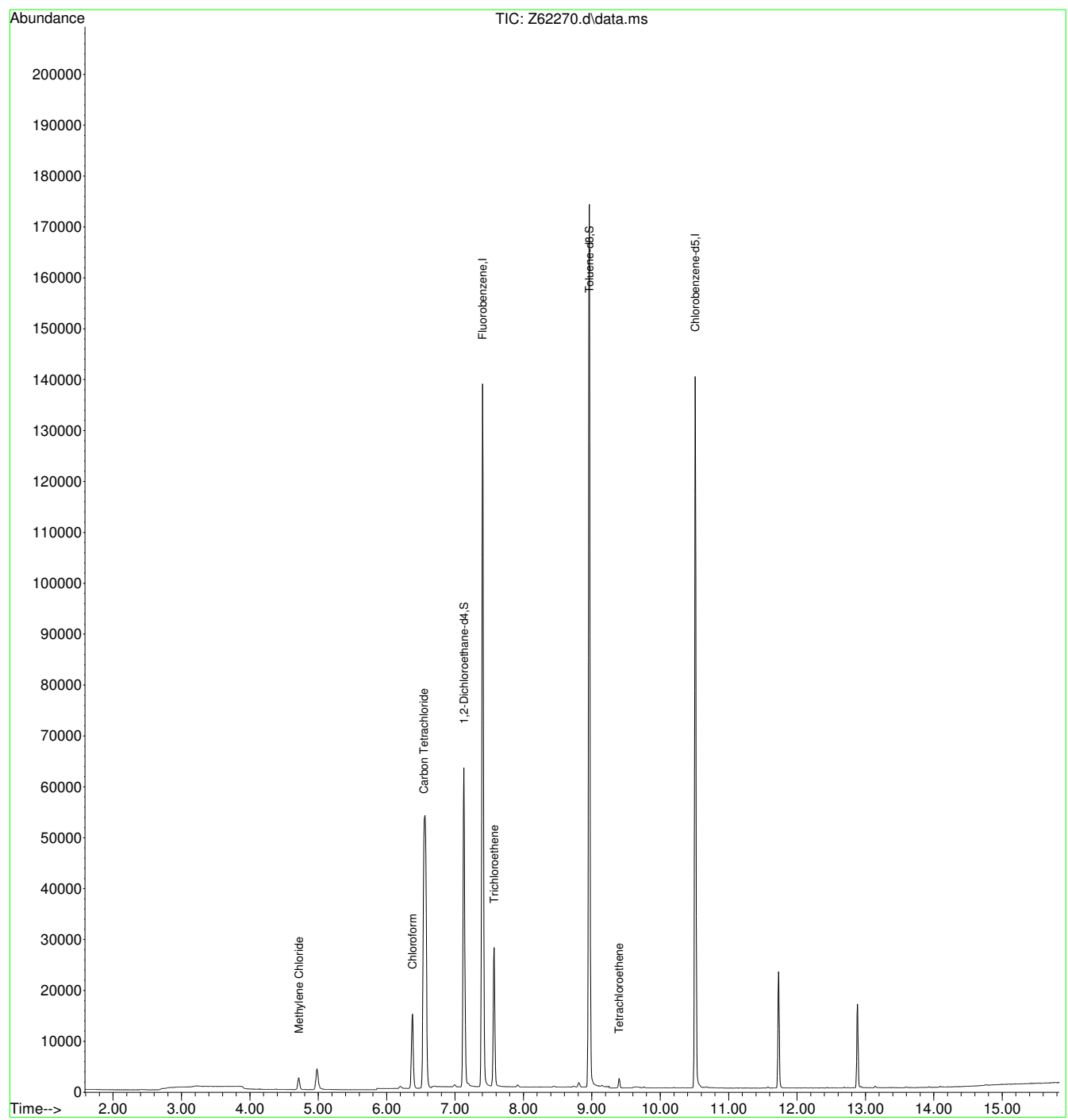
7.1.8  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62270.d  
Acq On : 12 Sep 2020 9:18 pm  
Operator : stutip  
Sample : fa78565-8  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 11 Sample Multiplier: 1

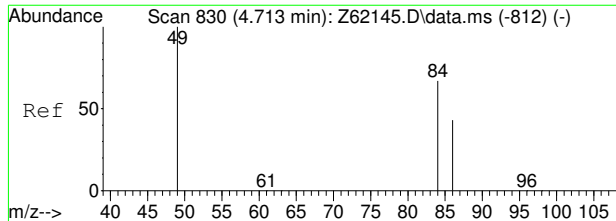
Quant Time: Sep 14 06:49:42 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.8  
7



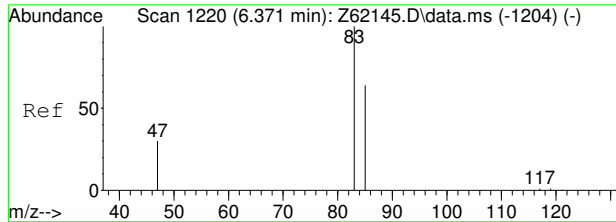
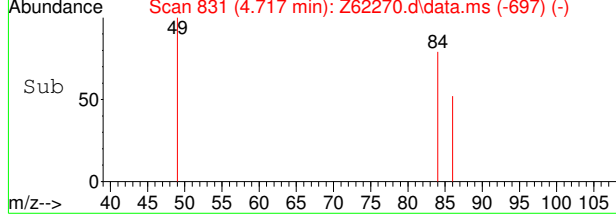
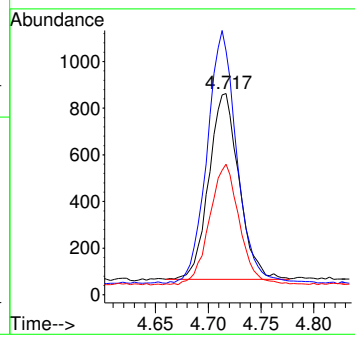
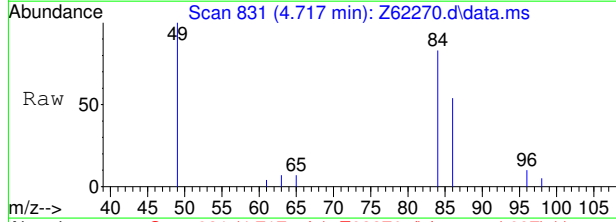




#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62270.d  
 Acq: 12 Sep 2020 9:18 pm

Tgt Ion: 84 Resp: 15863

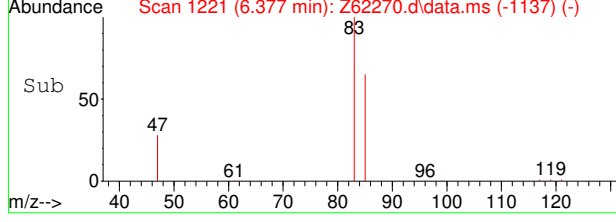
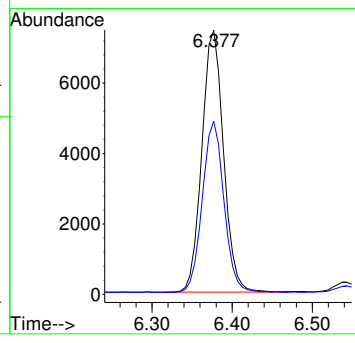
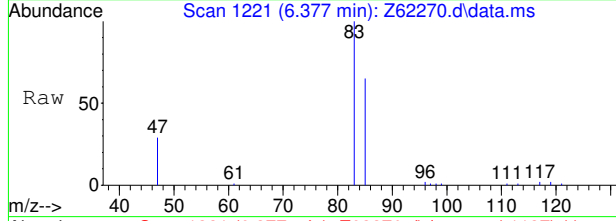
Ion	Ratio	Lower	Upper
84	100		
49	125.1	128.7	168.7#
86	64.4	43.9	83.9



#9  
 Chloroform  
 Concen: 0.59 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62270.d  
 Acq: 12 Sep 2020 9:18 pm

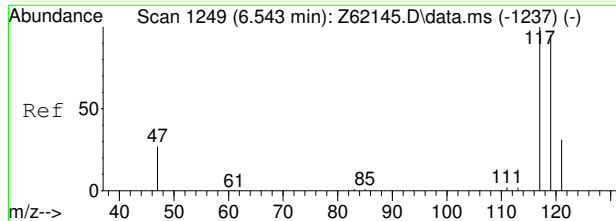
Tgt Ion: 83 Resp: 139436

Ion	Ratio	Lower	Upper
83	100		
85	65.1	46.1	86.1



7.18  
7

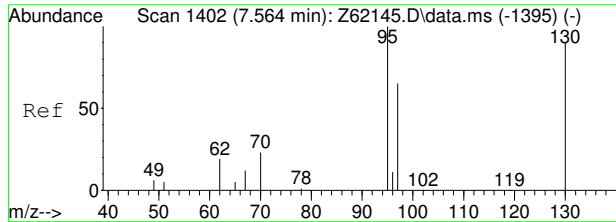
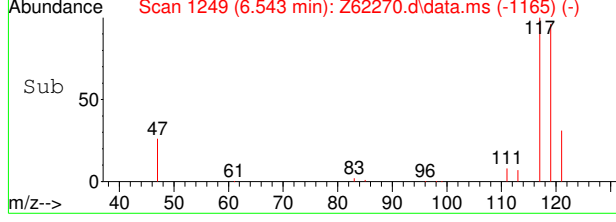
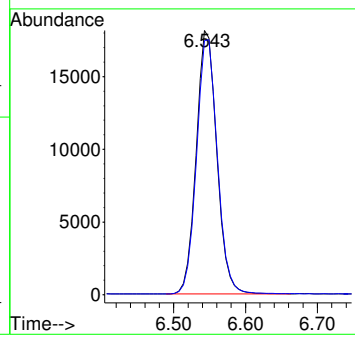
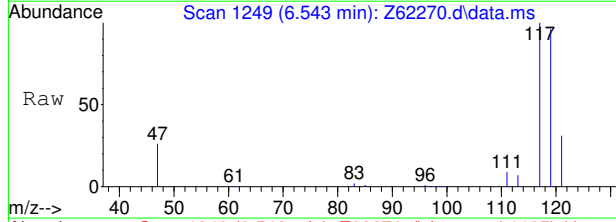




#10  
 Carbon Tetrachloride  
 Concen: 2.24 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62270.d  
 Acq: 12 Sep 2020 9:18 pm

Tgt Ion: 117 Resp: 360327

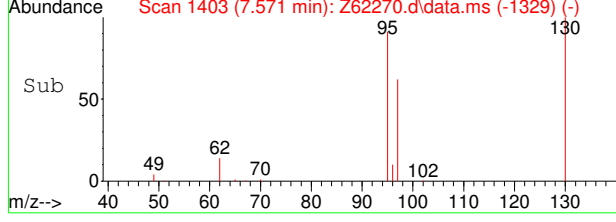
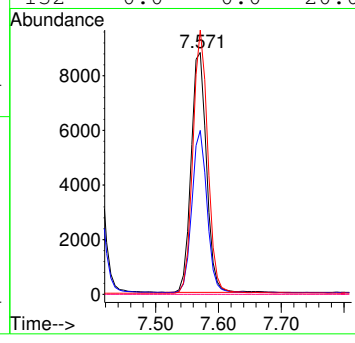
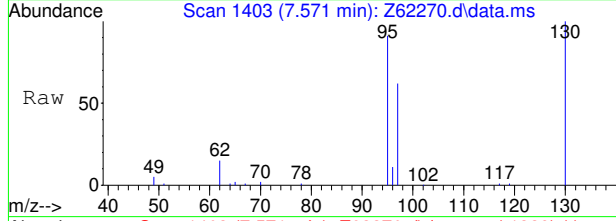
Ion	Ratio	Lower	Upper
117	100		
119	99.1	75.5	115.5



#15  
 Trichloroethene  
 Concen: 1.11 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62270.d  
 Acq: 12 Sep 2020 9:18 pm

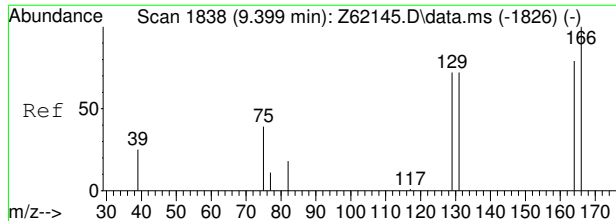
Tgt Ion: 95 Resp: 149643

Ion	Ratio	Lower	Upper
95	100		
97	67.7	44.5	84.5
130	109.8	69.7	109.7#
132	0.0	0.0	20.0



7.18  
7

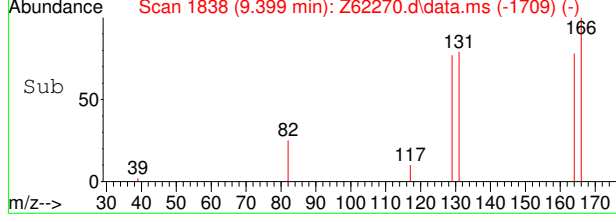
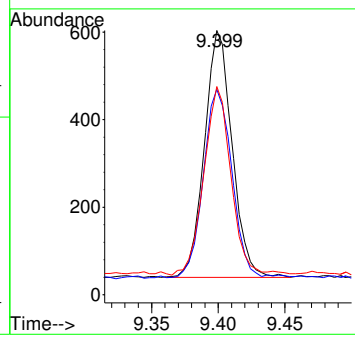
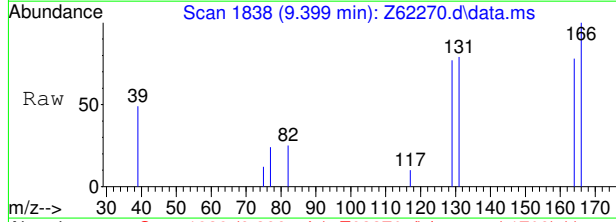




#21  
 Tetrachloroethene  
 Concen: 0.05 ppb  
 RT: 9.399 min Scan# 1838  
 Delta R.T. -0.000 min  
 Lab File: Z62270.d  
 Acq: 12 Sep 2020 9:18 pm

Tgt Ion: 166 Resp: 8135

Ion	Ratio	Lower	Upper
166	100		
164	76.2	58.7	98.7
131	75.9	51.6	91.6



7.1.8  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62271.d  
Acq On : 12 Sep 2020 9:37 pm  
Operator : stutip  
Sample : fa78565-9  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 06:49:44 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1573270	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1245827	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	528131	5.43	ppb	0.00
Spiked Amount	5.000	Range 79 - 125	Recovery	=	108.60%	
19) Toluene-d8	8.961	98	1527503	5.05	ppb	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	101.00%	
Target Compounds						
5) Methylene Chloride	4.717	84	14978	0.10	ppb	Qvalue # 83
9) Chloroform	6.377	83	21633	0.09	ppb	91
10) Carbon Tetrachloride	6.549	117	31818	0.20	ppb	100
-----						

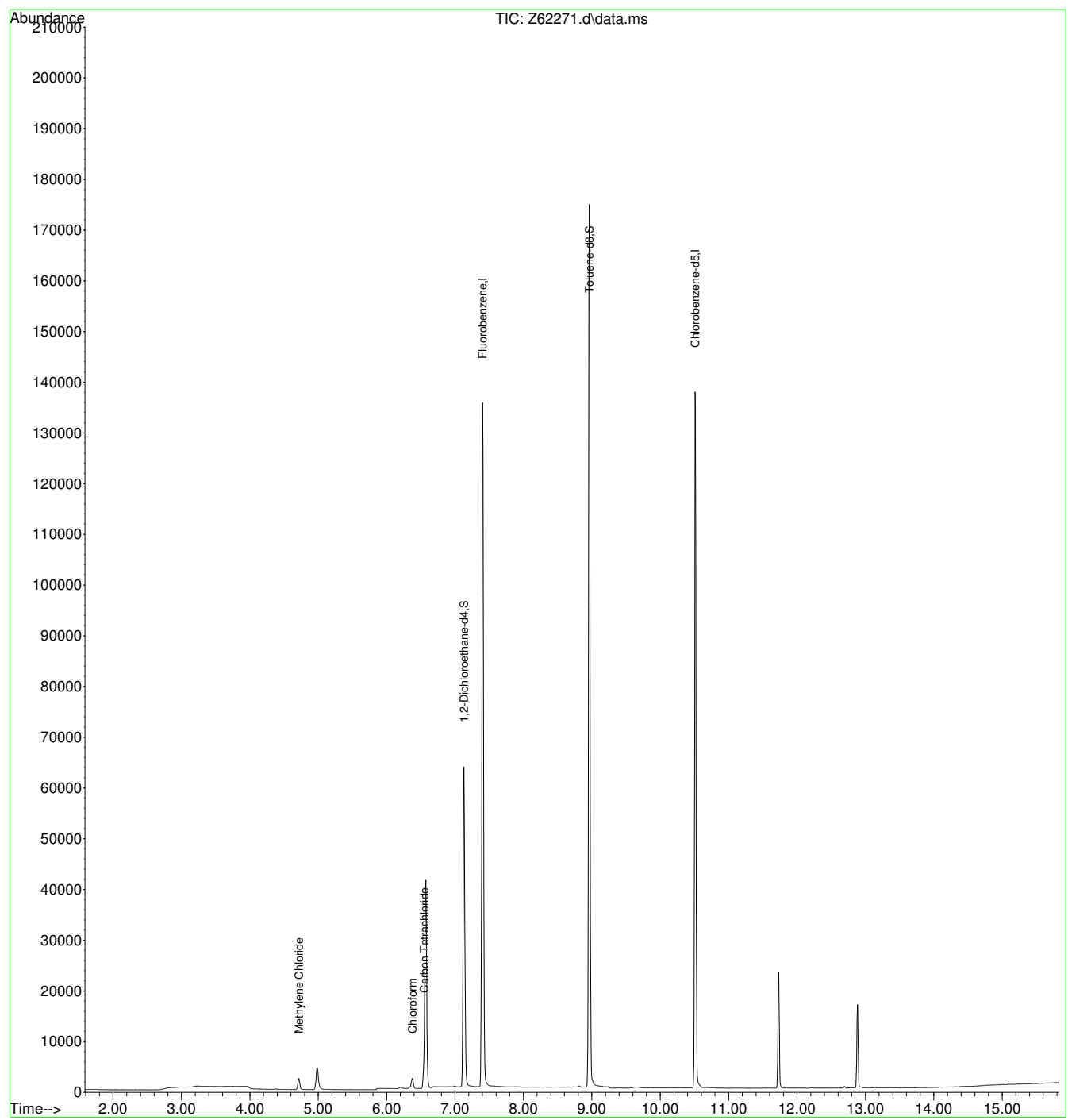
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.9  
7

Quantitation Report (QT Reviewed)

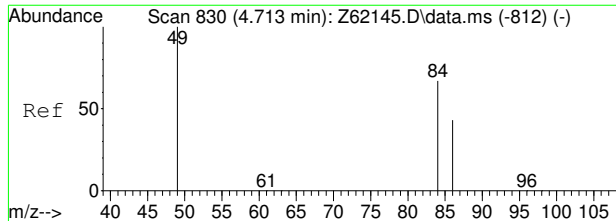
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62271.d  
Acq On : 12 Sep 2020 9:37 pm  
Operator : stutip  
Sample : fa78565-9  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 06:49:44 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.19

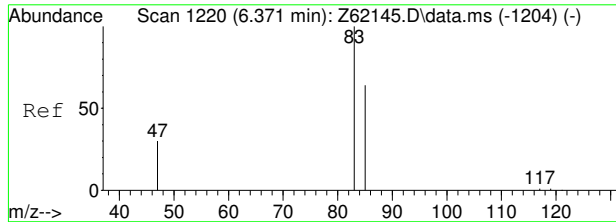
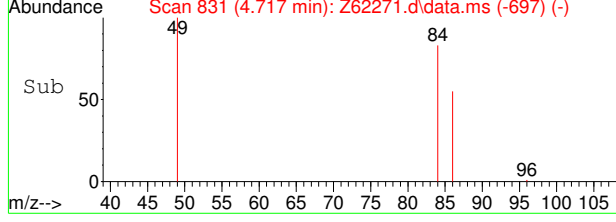
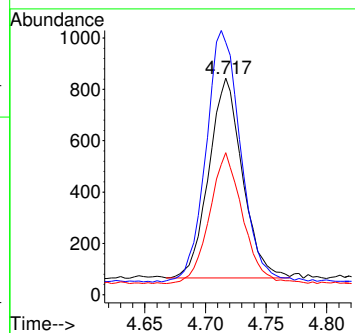
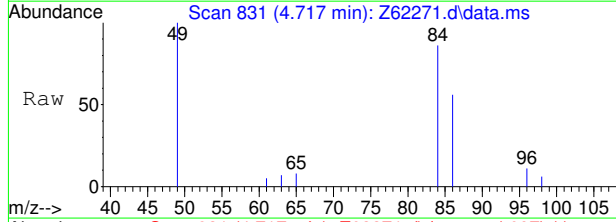




#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62271.d  
 Acq: 12 Sep 2020 9:37 pm

Tgt Ion: 84 Resp: 14978

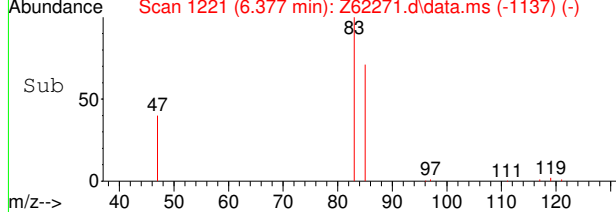
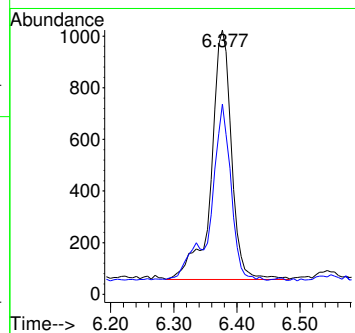
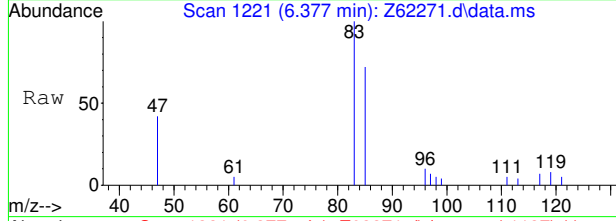
Ion	Ratio	Lower	Upper
84	100		
49	119.3	128.7	168.7#
86	65.6	43.9	83.9



#9  
 Chloroform  
 Concen: 0.09 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62271.d  
 Acq: 12 Sep 2020 9:37 pm

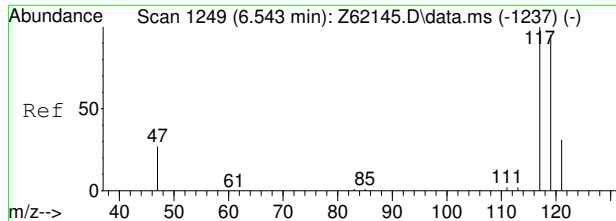
Tgt Ion: 83 Resp: 21633

Ion	Ratio	Lower	Upper
83	100		
85	58.7	46.1	86.1



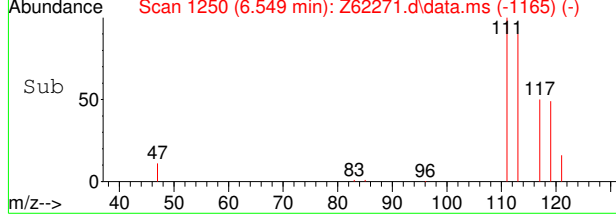
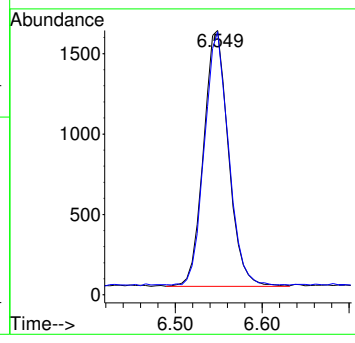
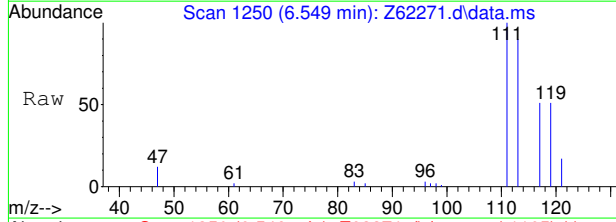
7.19  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.20 ppb  
 RT: 6.549 min Scan# 1250  
 Delta R.T. 0.006 min  
 Lab File: Z62271.d  
 Acq: 12 Sep 2020 9:37 pm

Tgt Ion	Resp	Lower	Upper
117	31818		
117	100		
119	95.5	75.5	115.5



7.1.9  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2416\  
Data File : Z62272.d  
Acq On : 12 Sep 2020 9:57 pm  
Operator : stutip  
Sample : fa78565-10  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 06:49:46 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1730487	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1372804	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	578938	5.41	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	108.20%
19) Toluene-d8	8.961	98	1680109	5.04	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
Target Compounds						
5) Methylene Chloride	4.717	84	17378	0.10	ppb	Qvalue # 89
9) Chloroform	6.377	83	20399	0.08	ppb	99
10) Carbon Tetrachloride	6.549	117	32511	0.18	ppb	100
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

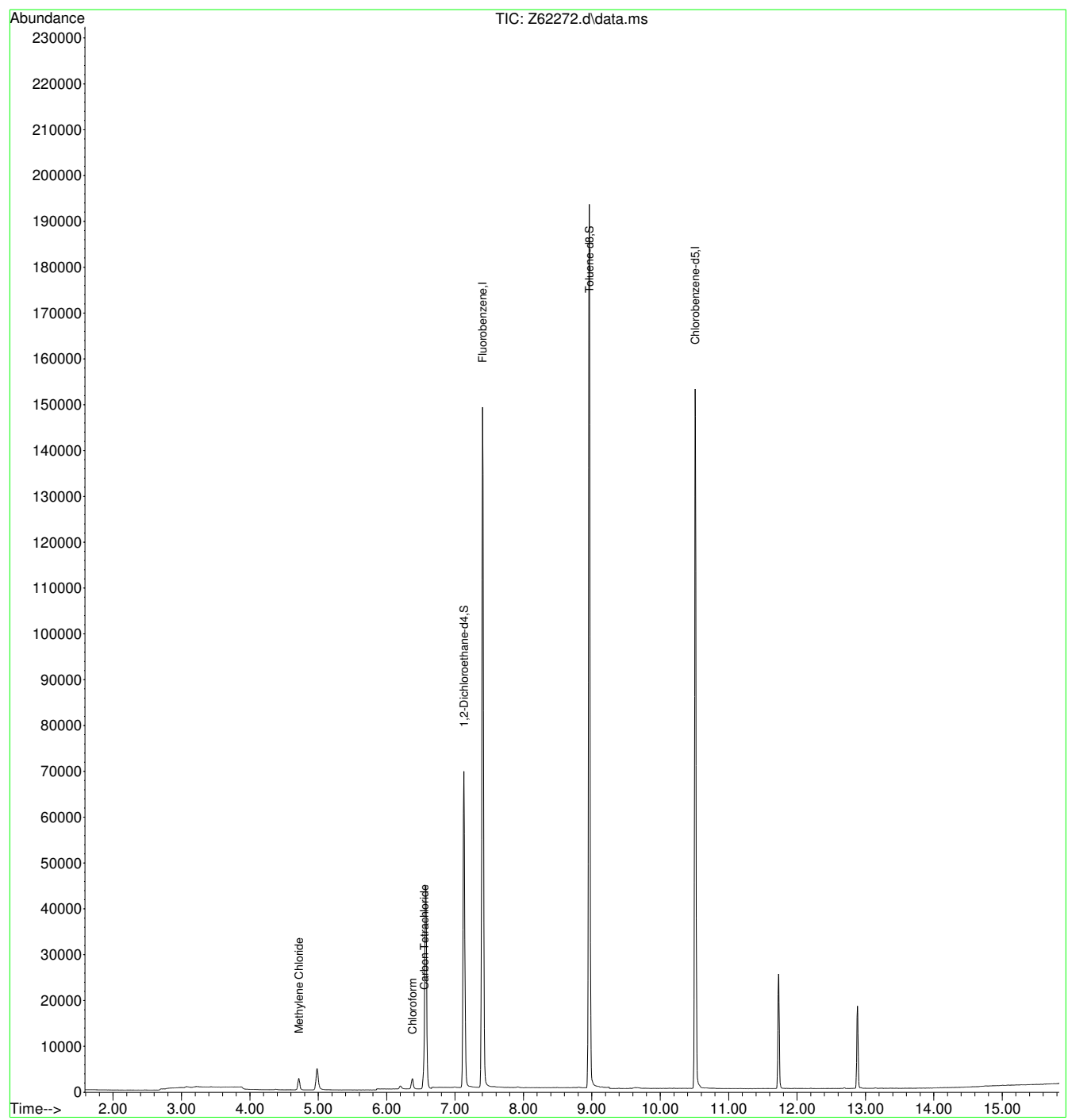
7.1.10  
7



Quantitation Report (QT Reviewed)

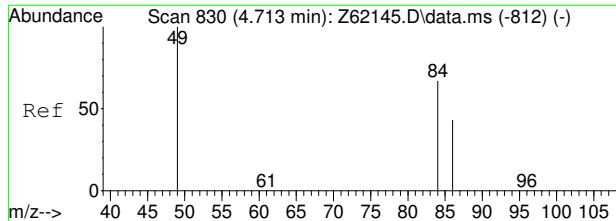
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62272.d  
Acq On : 12 Sep 2020 9:57 pm  
Operator : stutip  
Sample : fa78565-10  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 06:49:46 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.10  
7

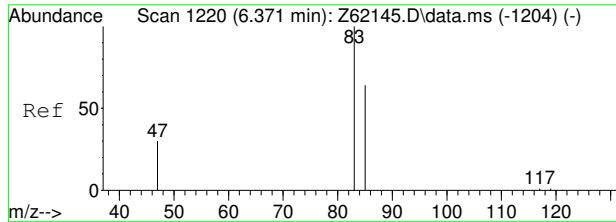
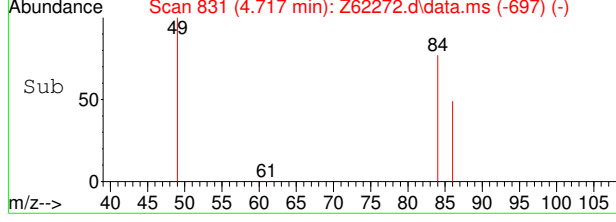
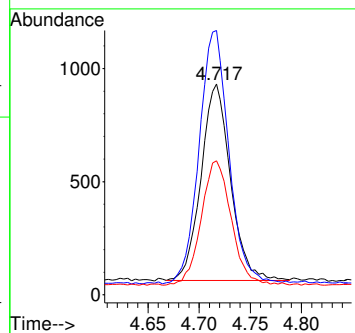
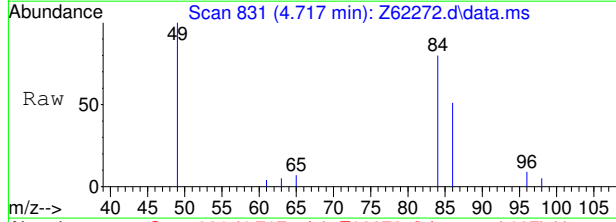




#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62272.d  
 Acq: 12 Sep 2020 9:57 pm

Tgt Ion: 84 Resp: 17378

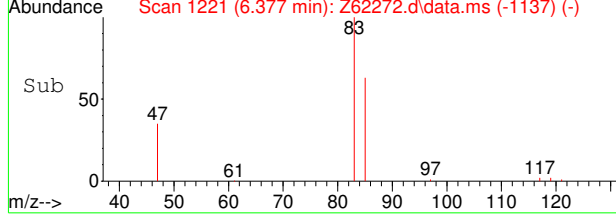
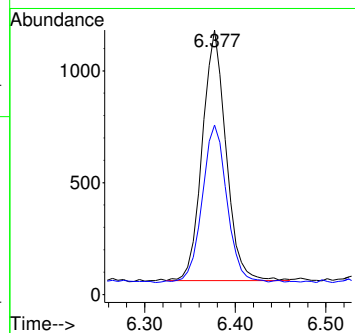
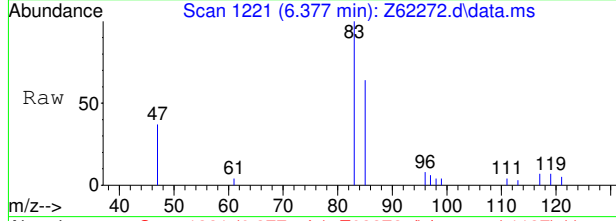
Ion	Ratio	Lower	Upper
84	100		
49	128.6	128.7	168.7#
86	63.1	43.9	83.9



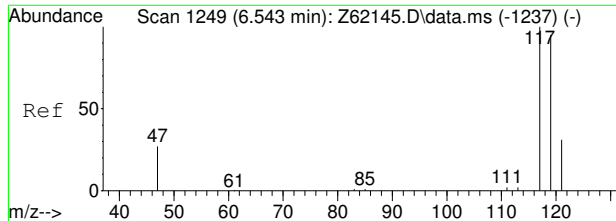
#9  
 Chloroform  
 Concen: 0.08 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62272.d  
 Acq: 12 Sep 2020 9:57 pm

Tgt Ion: 83 Resp: 20399

Ion	Ratio	Lower	Upper
83	100		
85	65.0	46.1	86.1

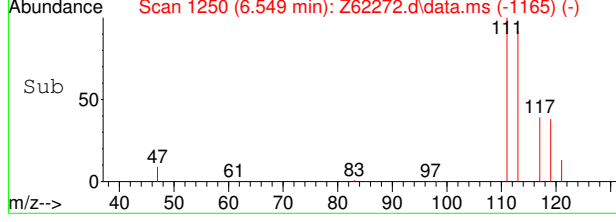
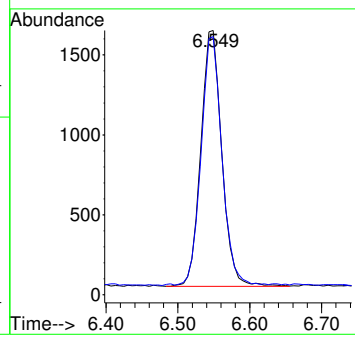
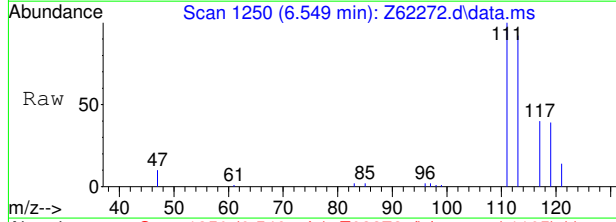


7.1.10  
7



#10  
Carbon Tetrachloride  
Concen: 0.18 ppb  
RT: 6.549 min Scan# 1250  
Delta R.T. 0.006 min  
Lab File: Z62272.d  
Acq: 12 Sep 2020 9:57 pm

Tgt Ion	Resp	Lower	Upper
117	32511		
117	100		
119	95.8	75.5	115.5



7.1.10  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
 Data File : Z62273.D  
 Acq On : 12 Sep 2020 10:16 pm  
 Operator : stutip  
 Sample : fa78565-11  
 Misc : MS47199,VZ2416,,,,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 15 14:12:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1742473	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1375781	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	588195	5.46	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	109.20%	
19) Toluene-d8	8.961	98	1689445	5.06	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%	
Target Compounds							
5) Methylene Chloride	4.713	84	17939	0.10	ppb	89	Qvalue
9) Chloroform	6.377	83	14409	0.06	ppb	99	
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

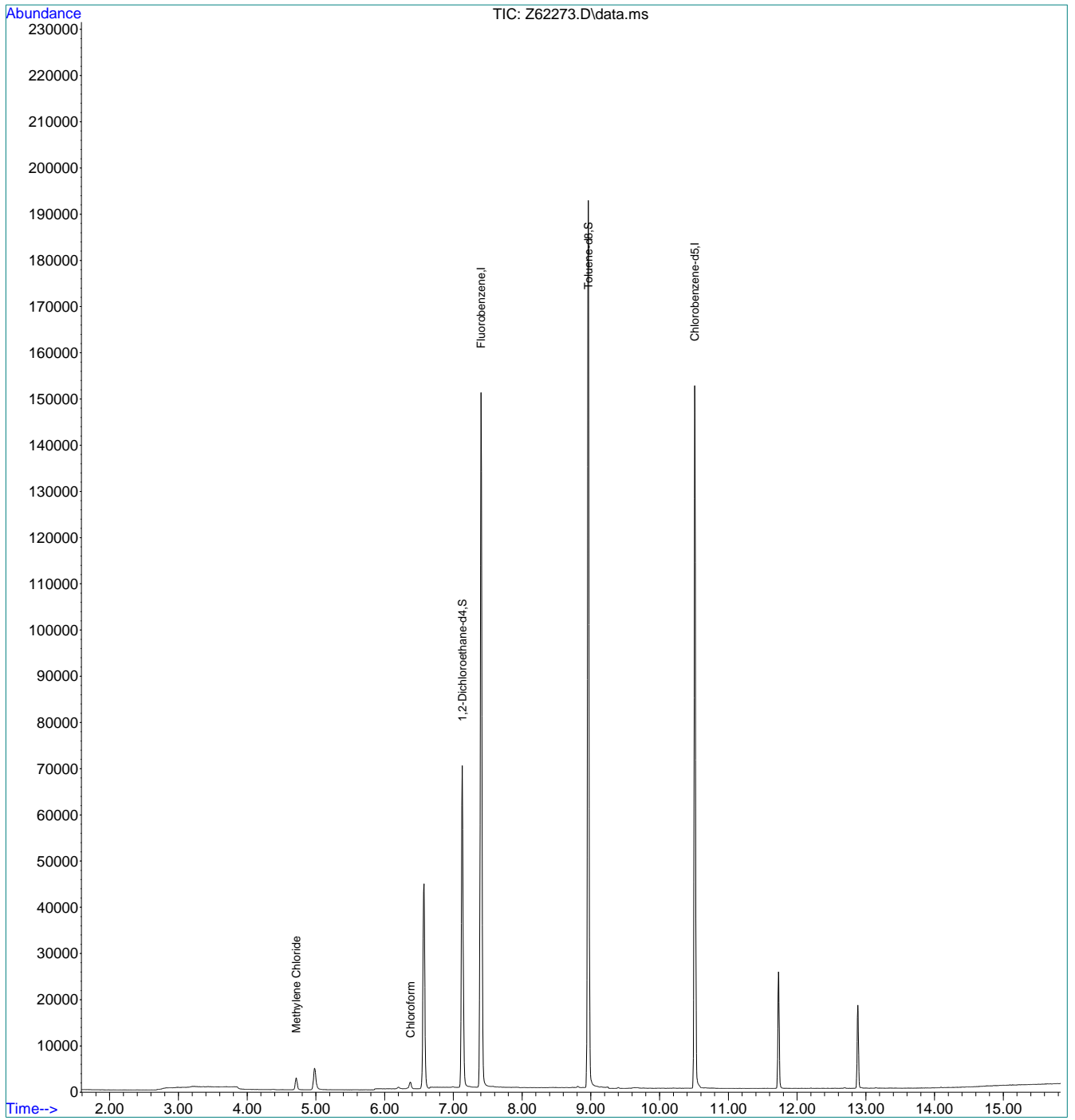
7.1.11  
7



Quantitation Report (QT Reviewed)

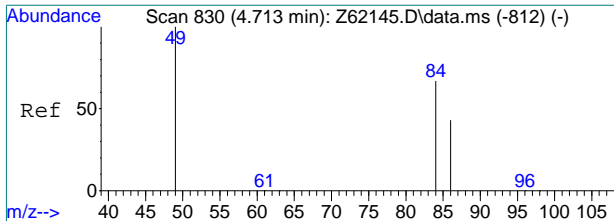
Data Path : C:\msdchem\1\data\091220\  
Data File : Z62273.D  
Acq On : 12 Sep 2020 10:16 pm  
Operator : stutip  
Sample : fa78565-11  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 15 14:12:46 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



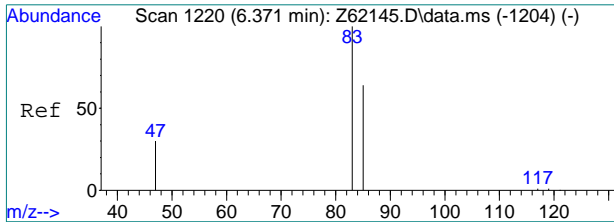
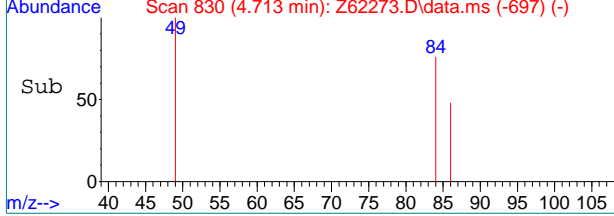
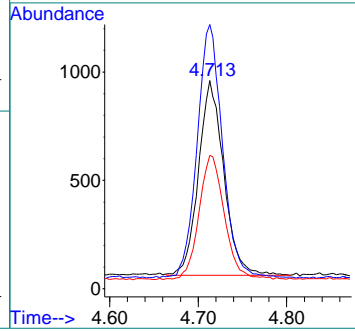
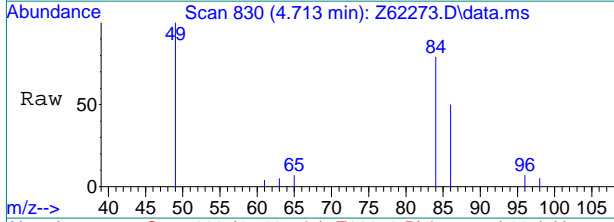
7.1.11  
7





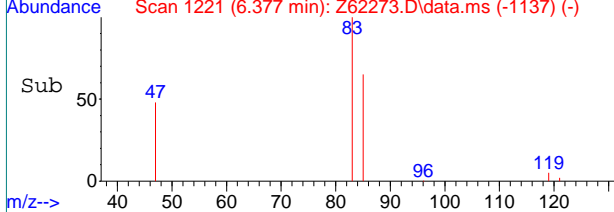
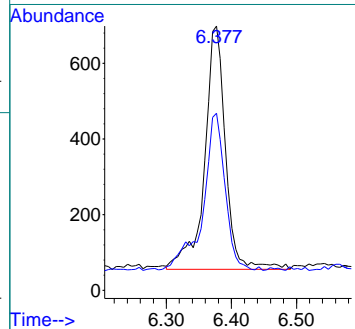
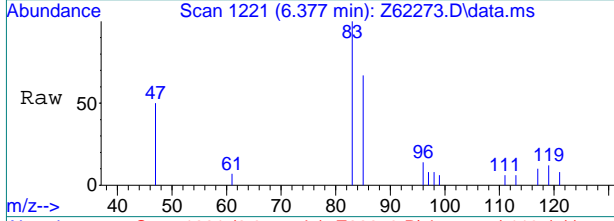
#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62273.D  
 Acq: 12 Sep 2020 10:16 pm

Tgt Ion	Resp	Lower	Upper
84	17939		
49	129.7	128.7	168.7
86	63.3	43.9	83.9



#9  
 Chloroform  
 Concen: 0.06 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62273.D  
 Acq: 12 Sep 2020 10:16 pm

Tgt Ion	Resp	Lower	Upper
83	14409		
83	100		
85	67.1	46.1	86.1



7.1.11  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
Data File : Z62274.D  
Acq On : 12 Sep 2020 10:35 pm  
Operator : stutip  
Sample : fa78565-12  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 15 14:12:48 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1727120	5.00	ppb	0.00
18) Chlorobenzene-d5	10.515	117	1370089	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	580849	5.44	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	108.80%
19) Toluene-d8	8.961	98	1674548	5.03	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%
Target Compounds						
5) Methylene Chloride	4.717	84	18301	0.11	ppb	Qvalue # 89
9) Chloroform	6.377	83	29933	0.12	ppb	98
10) Carbon Tetrachloride	6.549	117	20949	0.12	ppb	97
-----						

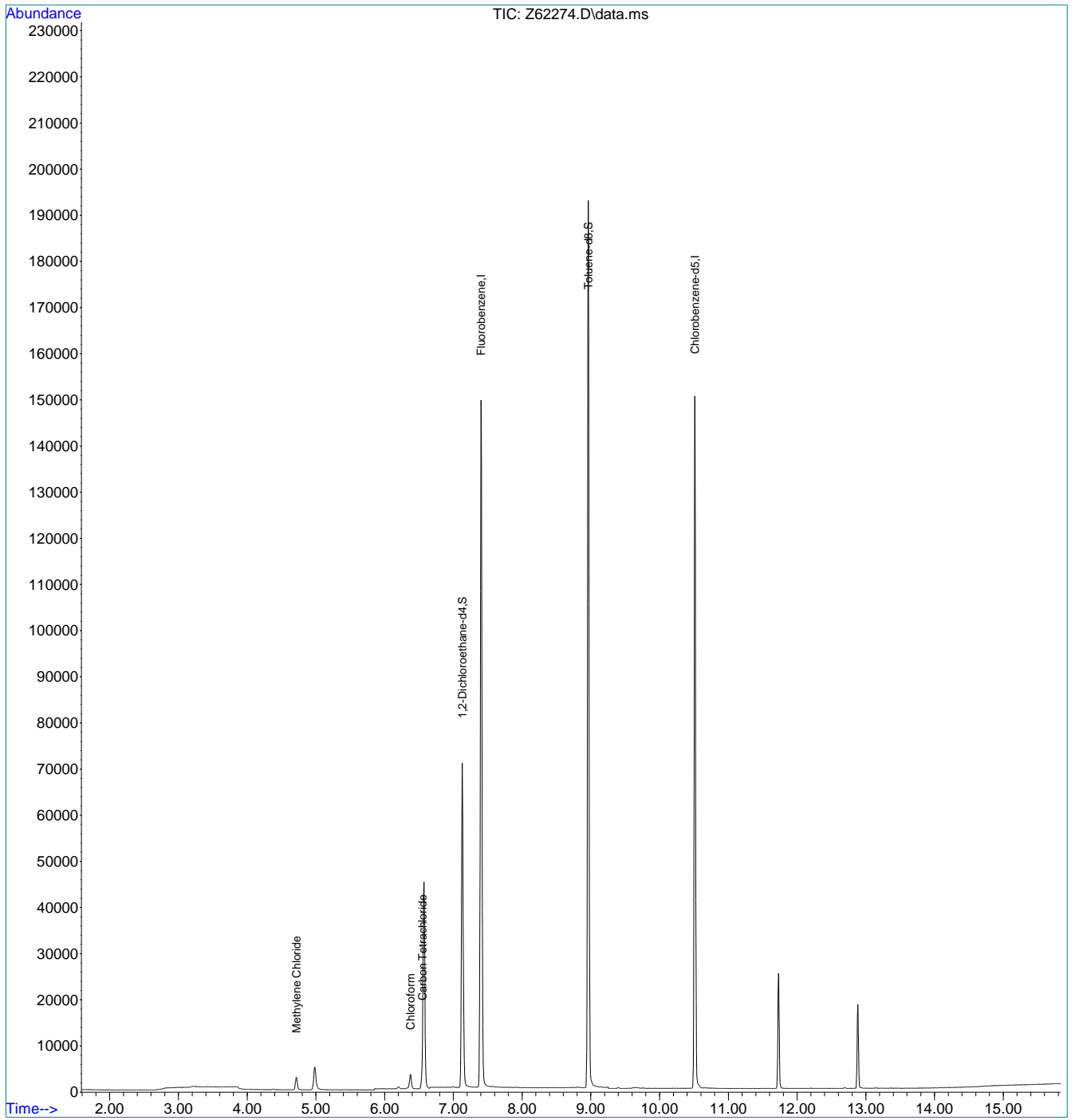
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.12  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
Data File : Z62274.D  
Acq On : 12 Sep 2020 10:35 pm  
Operator : stutip  
Sample : fa78565-12  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 15 Sample Multiplier: 1

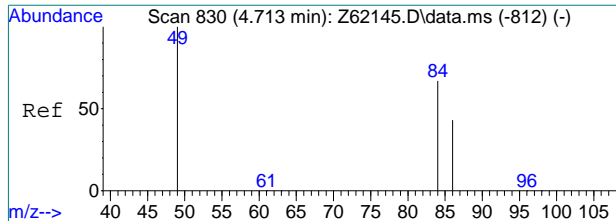
Quant Time: Sep 15 14:12:48 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.12  
7

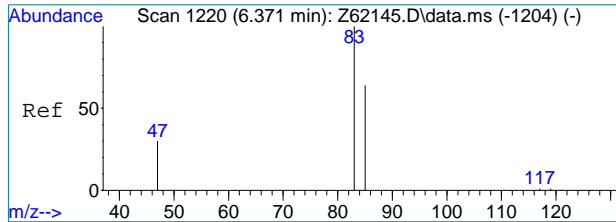
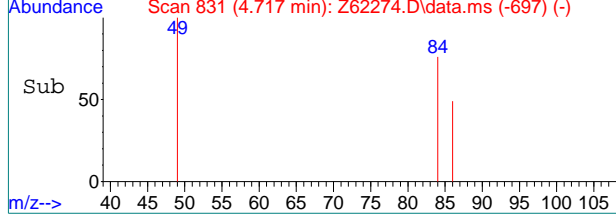
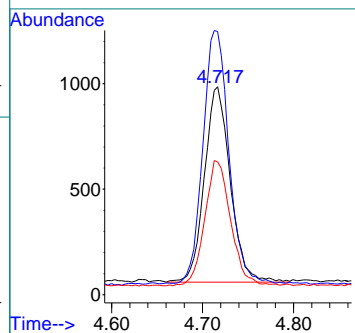
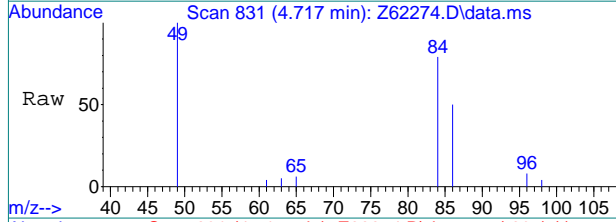






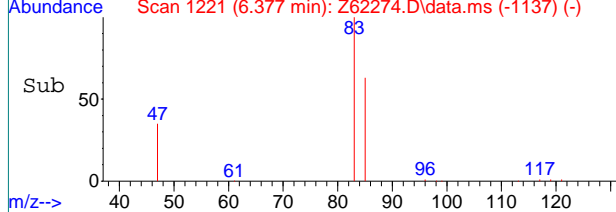
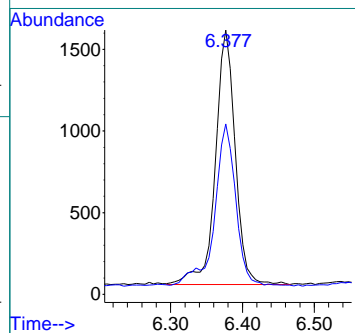
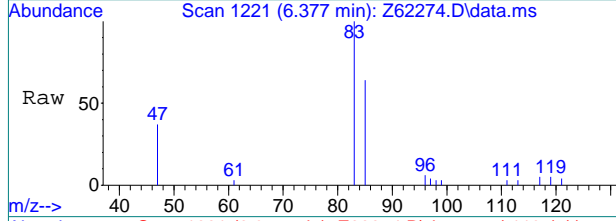
#5  
 Methylene Chloride  
 Concen: 0.11 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62274.D  
 Acq: 12 Sep 2020 10:35 pm

Tgt Ion	Resp	Lower	Upper
84	18301		
49	128.6	128.7	168.7#
86	63.3	43.9	83.9

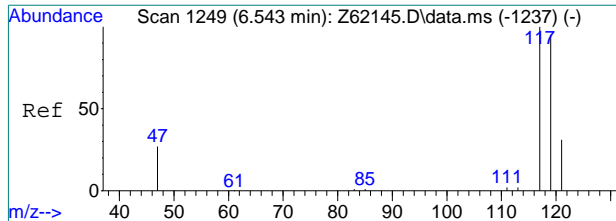


#9  
 Chloroform  
 Concen: 0.12 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62274.D  
 Acq: 12 Sep 2020 10:35 pm

Tgt Ion	Resp	Lower	Upper
83	29933		
83	100		
85	68.1	46.1	86.1

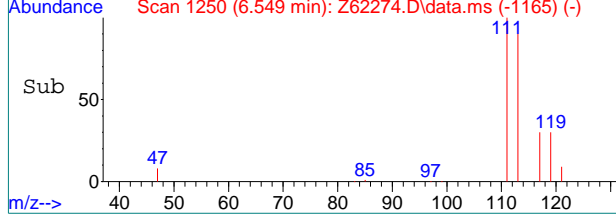
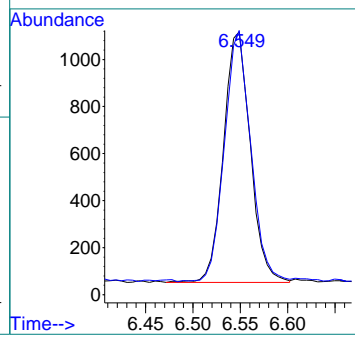
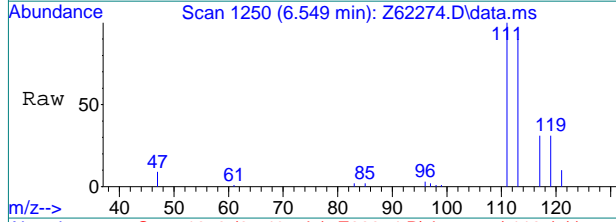


7.1.12  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.12 ppb  
 RT: 6.549 min Scan# 1250  
 Delta R.T. 0.006 min  
 Lab File: Z62274.D  
 Acq: 12 Sep 2020 10:35 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	75.5	115.5



7.1.12  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
Data File : Z62275.D  
Acq On : 12 Sep 2020 10:54 pm  
Operator : stutip  
Sample : fa78565-13  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 14:12:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1597135	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1268700	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	542831	5.49	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	109.80%	
19) Toluene-d8	8.961	98	1547095	5.02	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%	
Target Compounds							
5) Methylene Chloride	4.713	84	16571	0.10	ppb	93	
9) Chloroform	6.377	83	18805	0.08	ppb	91	
10) Carbon Tetrachloride	6.543	117	16529	0.10	ppb	99	
-----							

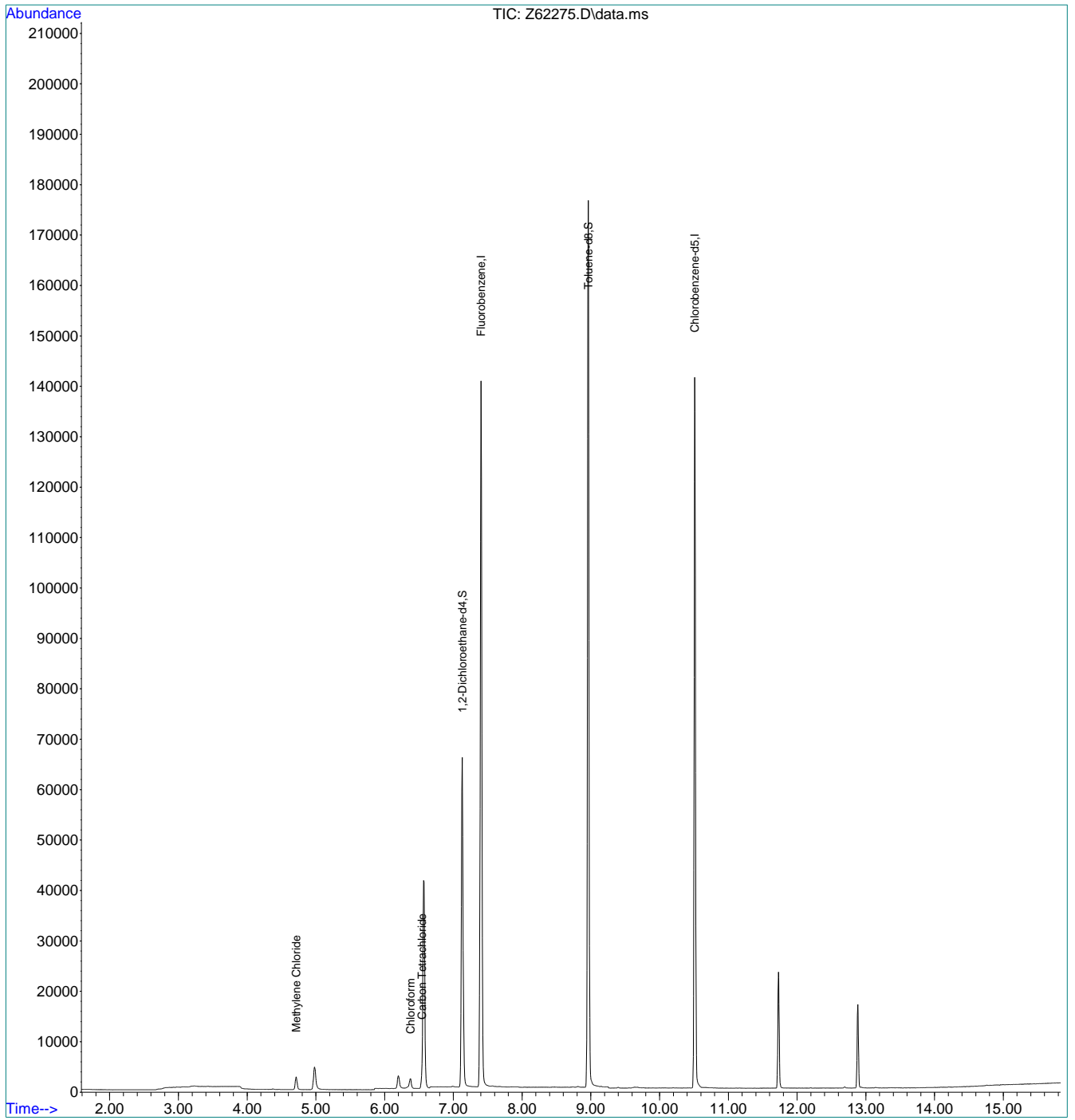
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.13  
7

Quantitation Report (QT Reviewed)

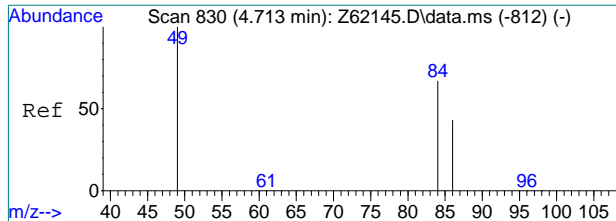
Data Path : C:\msdchem\1\data\091220\  
Data File : Z62275.D  
Acq On : 12 Sep 2020 10:54 pm  
Operator : stutip  
Sample : fa78565-13  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 14:12:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



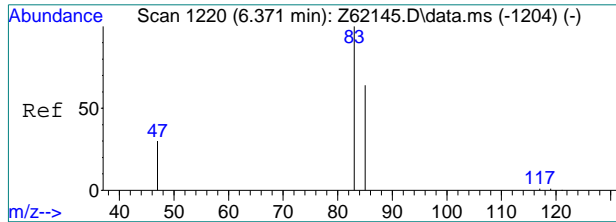
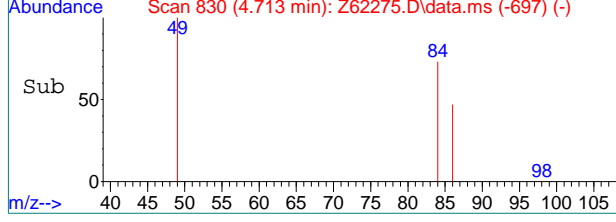
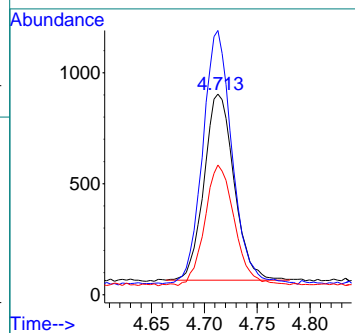
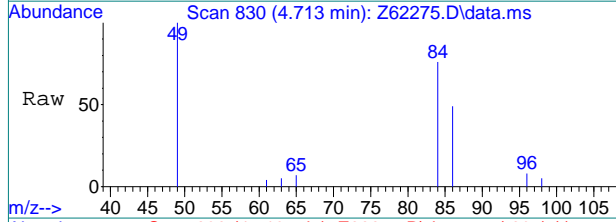
7.1.13  
7





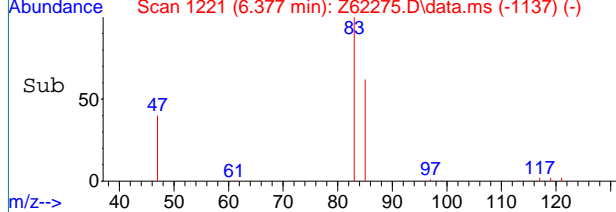
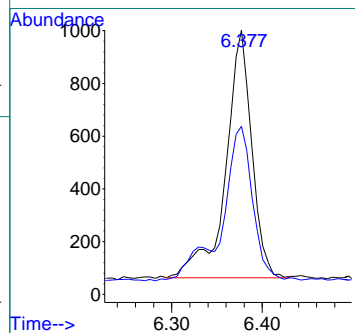
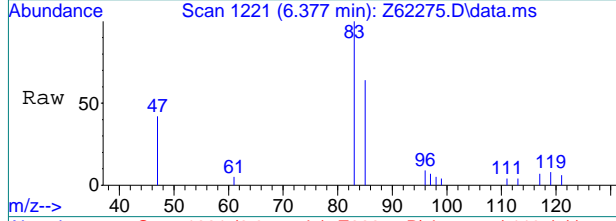
#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62275.D  
 Acq: 12 Sep 2020 10:54 pm

Tgt Ion	Resp	Lower	Upper
84	16571		
49	135.8	128.7	168.7
86	64.4	43.9	83.9



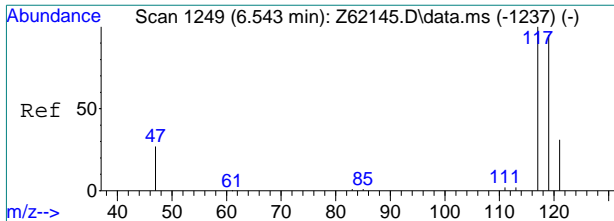
#9  
 Chloroform  
 Concen: 0.08 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62275.D  
 Acq: 12 Sep 2020 10:54 pm

Tgt Ion	Resp	Lower	Upper
83	18805		
83	100		
85	59.1	46.1	86.1



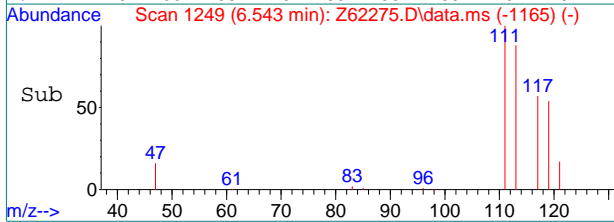
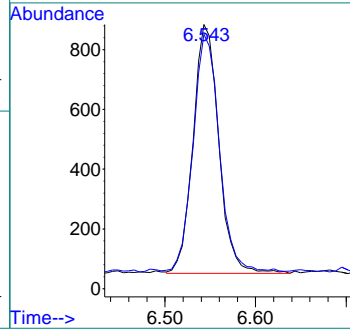
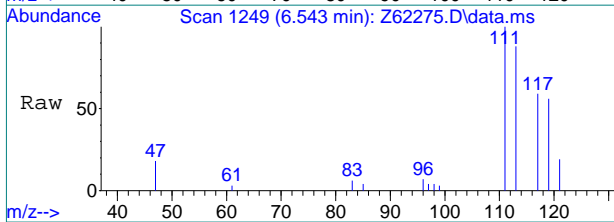
7.1.13  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.10 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62275.D  
 Acq: 12 Sep 2020 10:54 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	75.5	115.5



7.1.13  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62276.d  
Acq On : 12 Sep 2020 11:13 pm  
Operator : stutip  
Sample : fa78565-14  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 14 06:49:55 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.402	96	1586928	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.512	117	1259175	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.131	65	542732	5.53	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	110.60%	
19) Toluene-d8	8.962	98	1537428	5.03	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%	
Target Compounds							
5) Methylene Chloride	4.713	84	15475	0.10	ppb		90
9) Chloroform	6.377	83	17767	0.07	ppb		99
10) Carbon Tetrachloride	6.543	117	8345	0.05	ppb		98
-----							

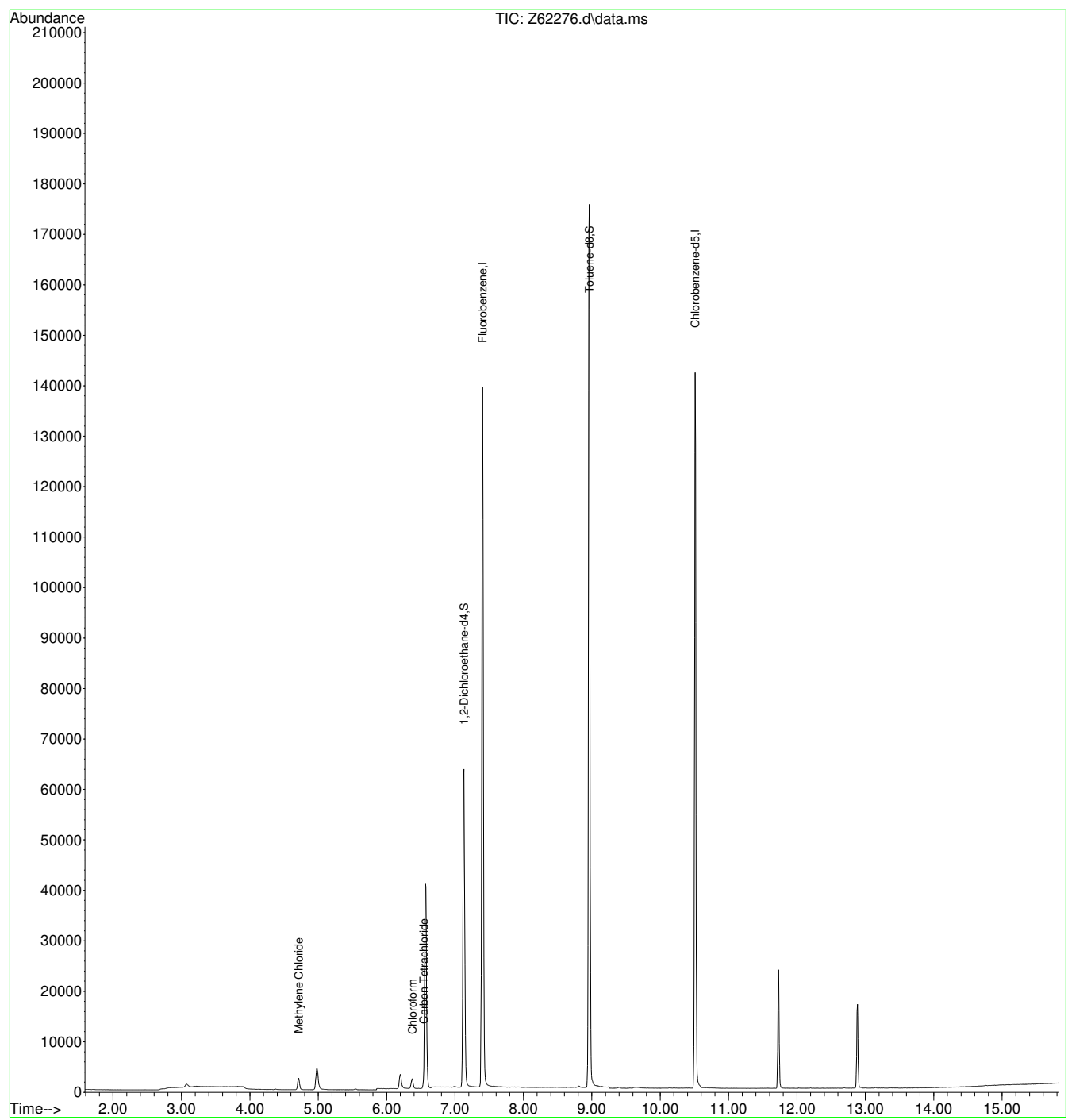
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.14  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62276.d  
Acq On : 12 Sep 2020 11:13 pm  
Operator : stutip  
Sample : fa78565-14  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 17 Sample Multiplier: 1

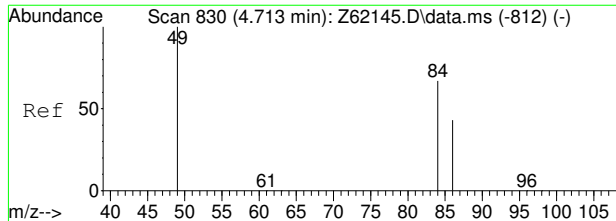
Quant Time: Sep 14 06:49:55 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.14  
7

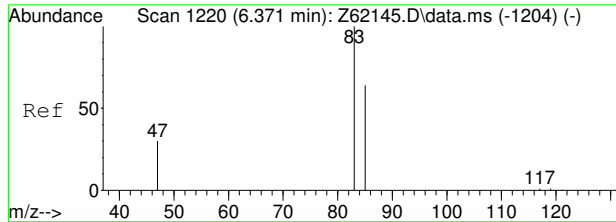
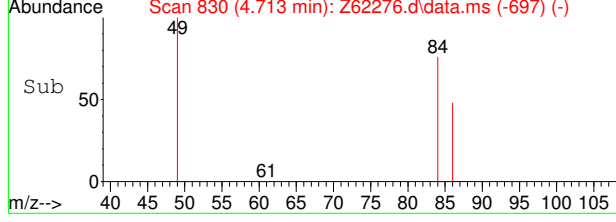
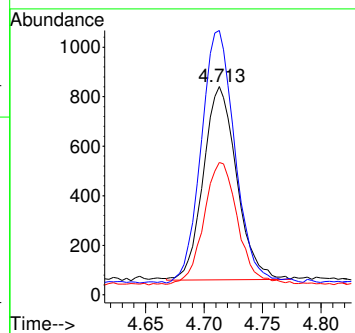
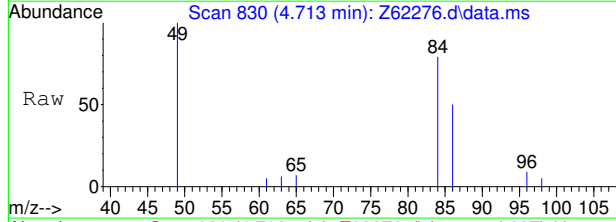






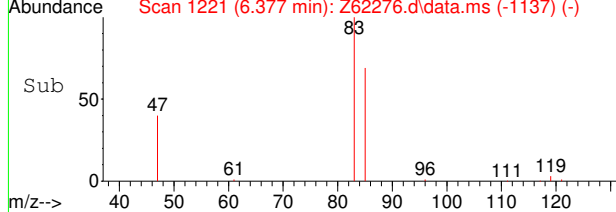
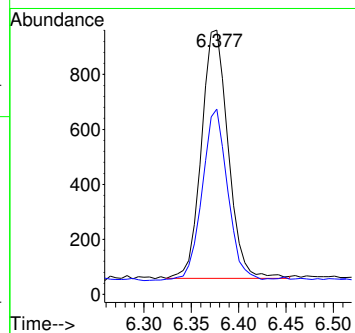
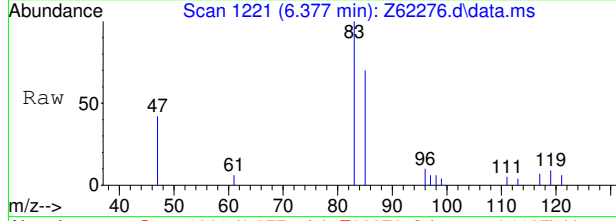
#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62276.d  
 Acq: 12 Sep 2020 11:13 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	131.1	128.7	168.7
86	63.2	43.9	83.9

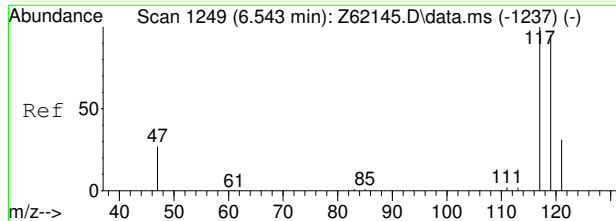


#9  
 Chloroform  
 Concen: 0.07 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62276.d  
 Acq: 12 Sep 2020 11:13 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	46.1	86.1

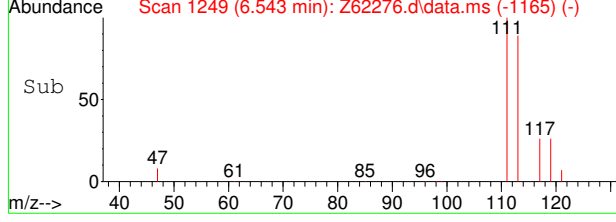
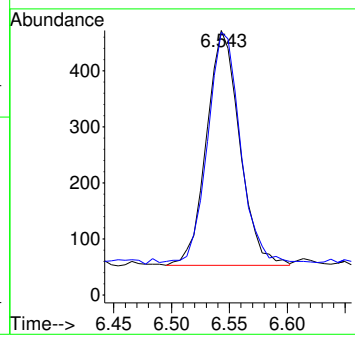
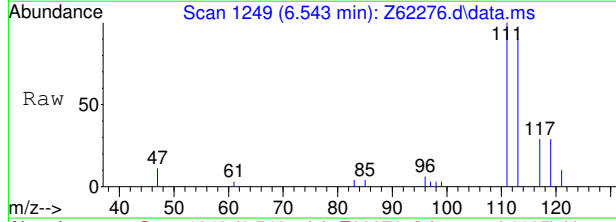


7.1.14  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.05 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62276.d  
 Acq: 12 Sep 2020 11:13 pm

Tgt Ion	Resp	Lower	Upper
117	8345		
117	100		
119	97.2	75.5	115.5



7.1.14  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
Data File : Z62277.D  
Acq On : 12 Sep 2020 11:33 pm  
Operator : stutip  
Sample : fa78565-15  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 14:12:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1696845	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1349937	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	574189	5.47	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	109.40%		
19) Toluene-d8	8.961	98	1638909	5.00	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	100.00%		
Target Compounds							
5) Methylene Chloride	4.717	84	17376	0.10	ppb		90
9) Chloroform	6.377	83	35756	0.14	ppb		98
10) Carbon Tetrachloride	6.549	117	57578	0.33	ppb		100
-----							

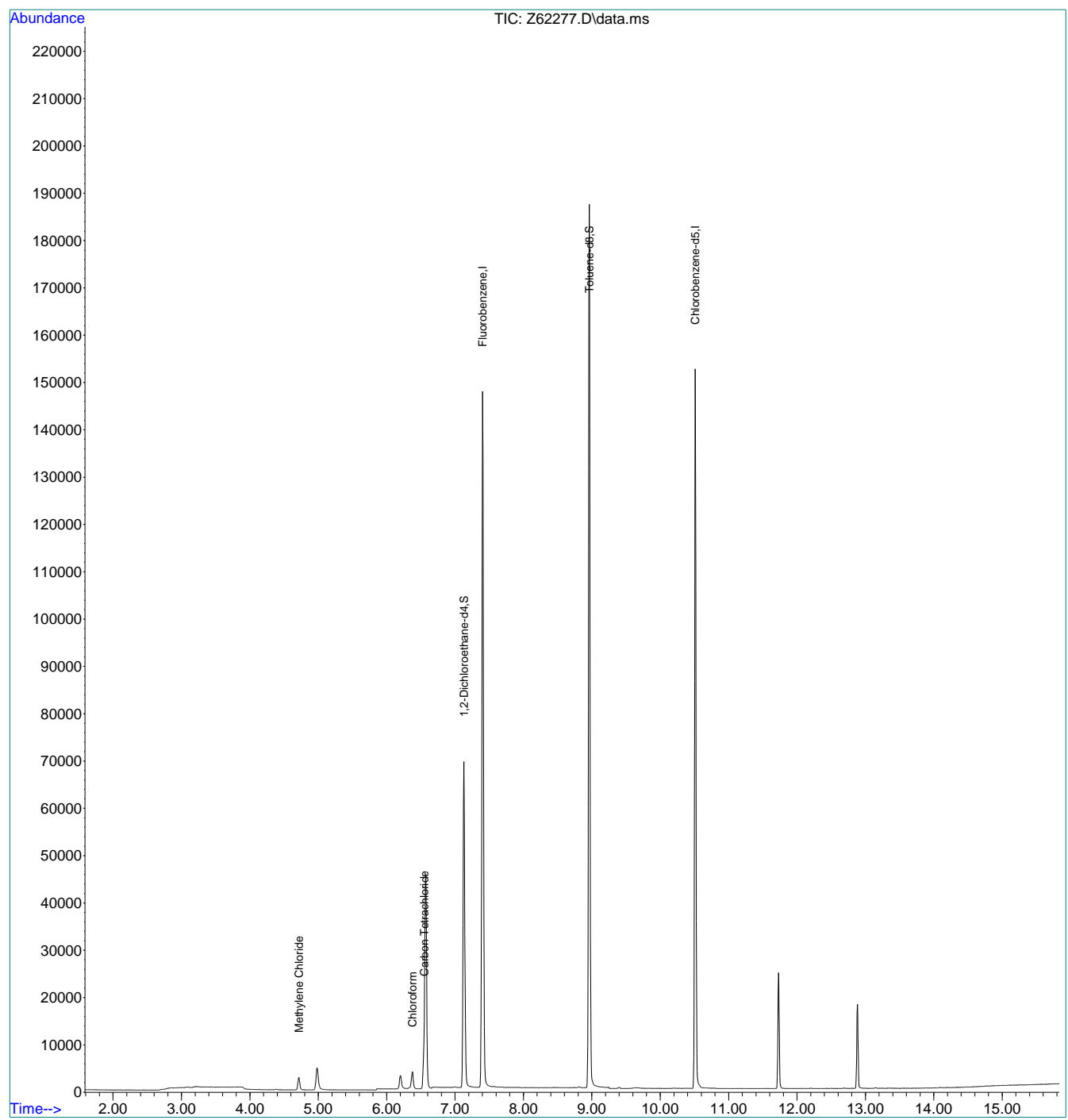
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.15  
7

Quantitation Report (QT Reviewed)

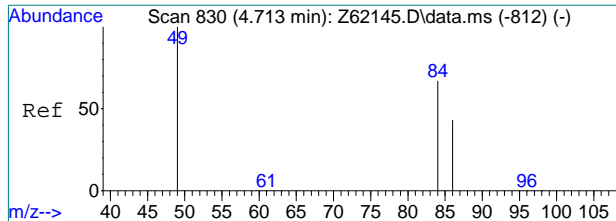
Data Path : C:\msdchem\1\data\091220\  
Data File : Z62277.D  
Acq On : 12 Sep 2020 11:33 pm  
Operator : stutip  
Sample : fa78565-15  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 14:12:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



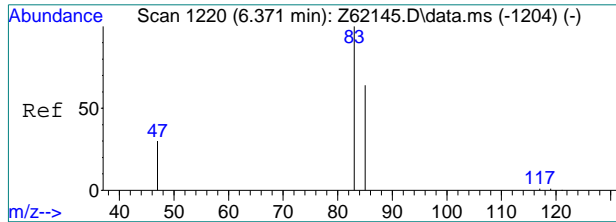
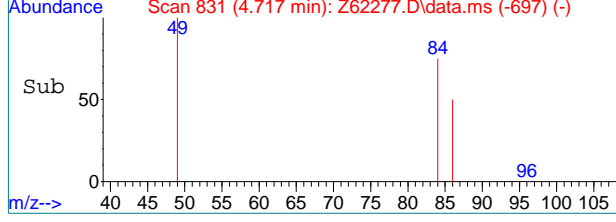
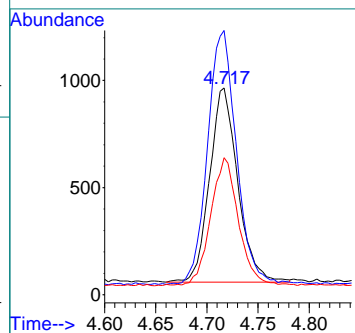
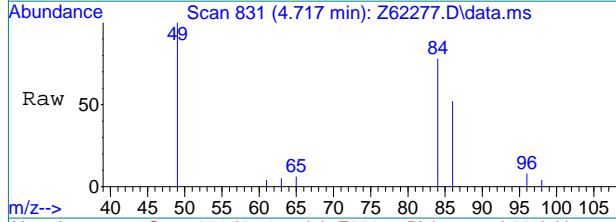
7.1.15  
7





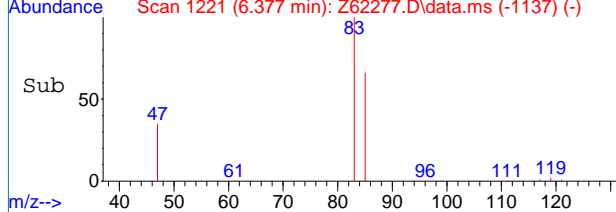
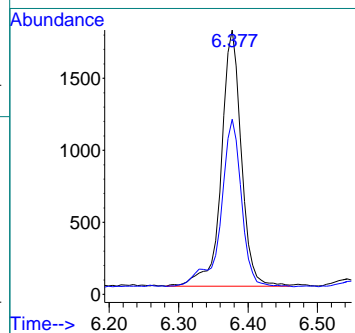
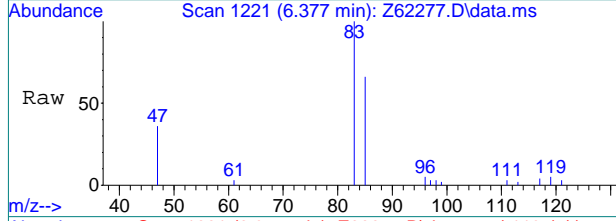
#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62277.D  
 Acq: 12 Sep 2020 11:33 pm

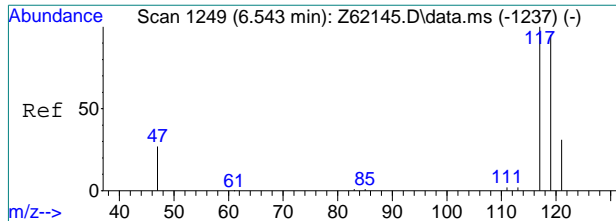
Tgt Ion	Resp	Lower	Upper
84	17376		
49	130.8	128.7	168.7
86	65.2	43.9	83.9



#9  
 Chloroform  
 Concen: 0.14 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62277.D  
 Acq: 12 Sep 2020 11:33 pm

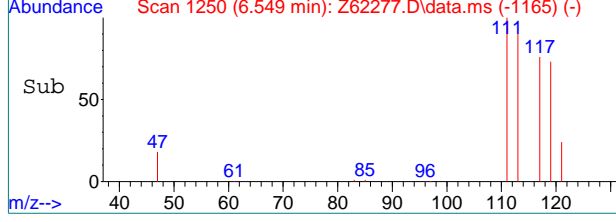
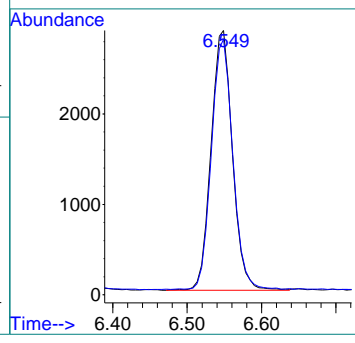
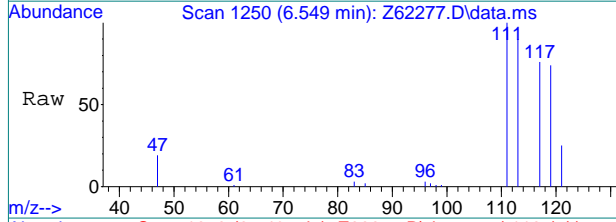
Tgt Ion	Resp	Lower	Upper
83	35756		
83	100		
85	67.5	46.1	86.1





#10  
 Carbon Tetrachloride  
 Concen: 0.33 ppb  
 RT: 6.549 min Scan# 1250  
 Delta R.T. 0.006 min  
 Lab File: Z62277.D  
 Acq: 12 Sep 2020 11:33 pm

Tgt Ion	Resp	Lower	Upper
117	57578		
119	95.9	75.5	115.5



7.1.15  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62278.d  
Acq On : 12 Sep 2020 11:52 pm  
Operator : stutip  
Sample : fa78565-16  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 14 06:50:00 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Fluorobenzene	7.401	96	1683313	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1336248	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	574749	5.52	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	110.40%	
19) Toluene-d8	8.961	98	1633251	5.03	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%	
Target Compounds							
5) Methylene Chloride	4.717	84	17724	0.11	ppb		88
9) Chloroform	6.377	83	40646	0.16	ppb		99
10) Carbon Tetrachloride	6.549	117	54593	0.32	ppb		99

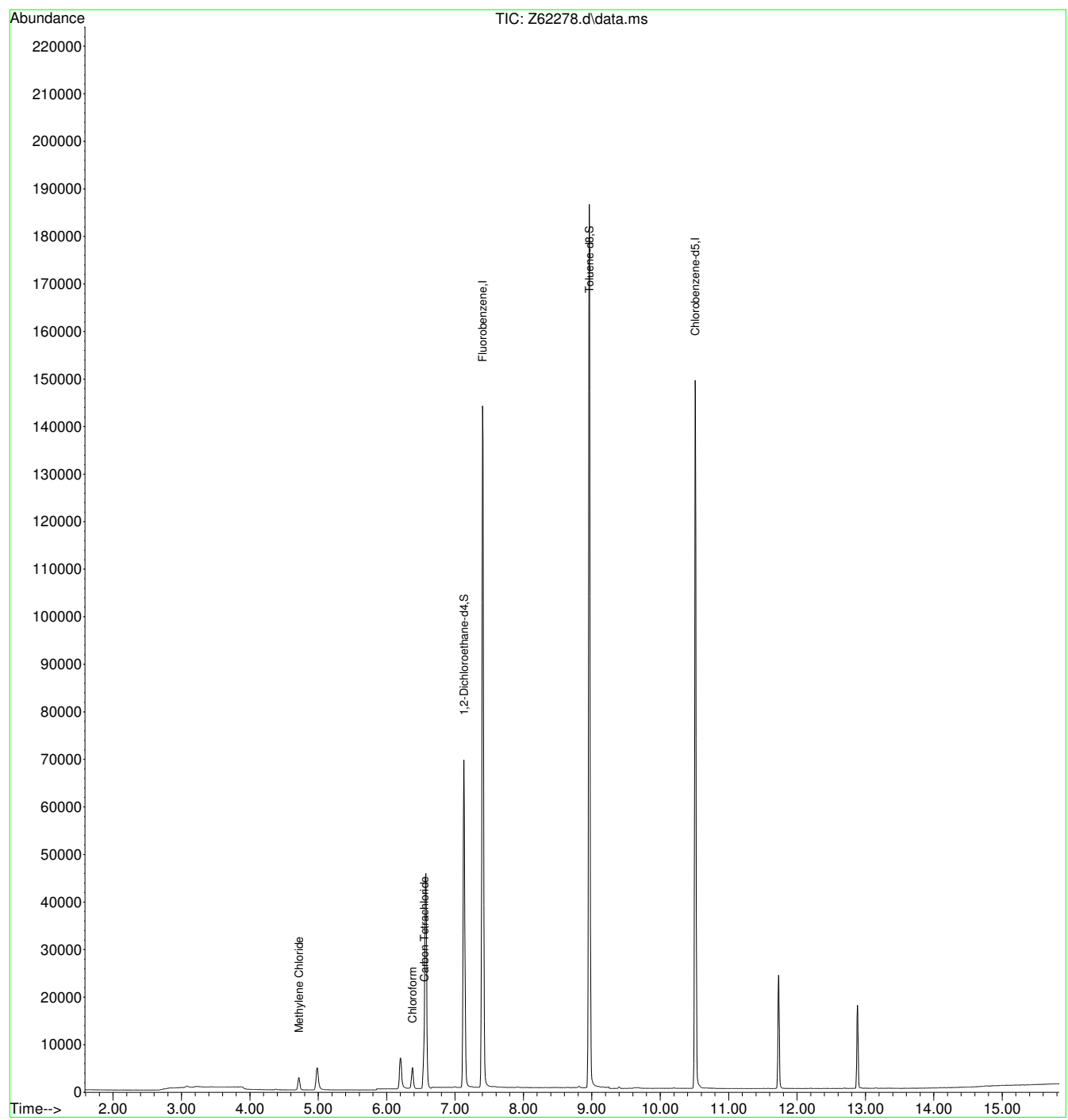
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.16  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62278.d  
Acq On : 12 Sep 2020 11:52 pm  
Operator : stutip  
Sample : fa78565-16  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 19 Sample Multiplier: 1

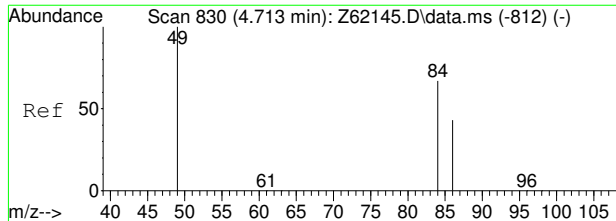
Quant Time: Sep 14 06:50:00 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.16  
7



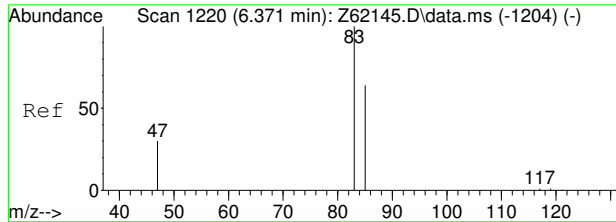
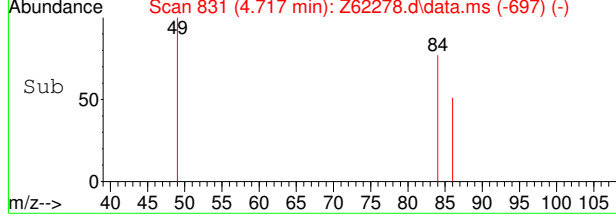
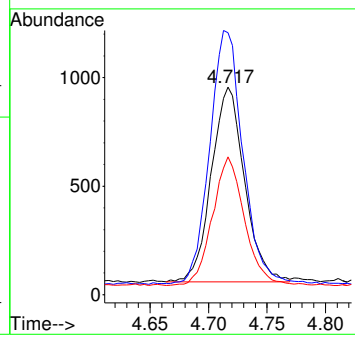
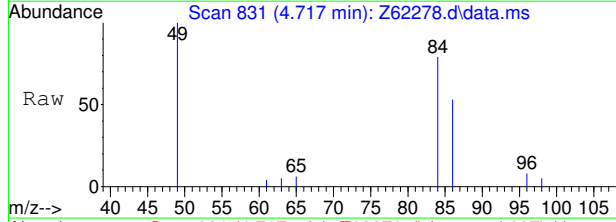




#5  
 Methylene Chloride  
 Concen: 0.11 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62278.d  
 Acq: 12 Sep 2020 11:52 pm

Tgt Ion: 84 Resp: 17724

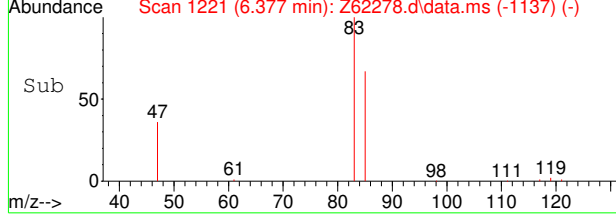
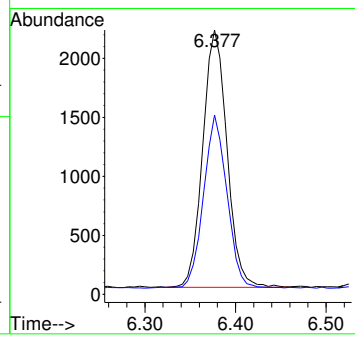
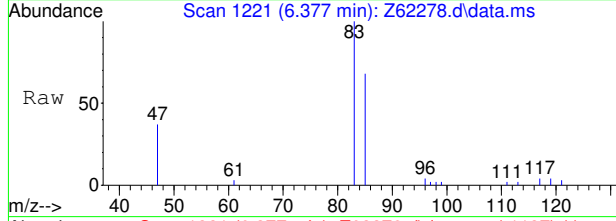
Ion	Ratio	Lower	Upper
84	100		
49	128.8	128.7	168.7
86	66.0	43.9	83.9



#9  
 Chloroform  
 Concen: 0.16 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62278.d  
 Acq: 12 Sep 2020 11:52 pm

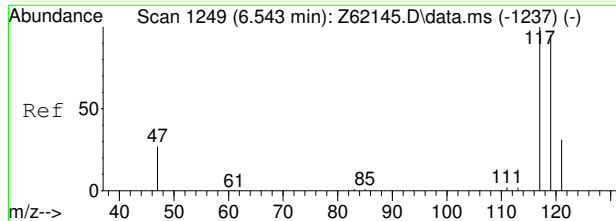
Tgt Ion: 83 Resp: 40646

Ion	Ratio	Lower	Upper
83	100		
85	64.9	46.1	86.1



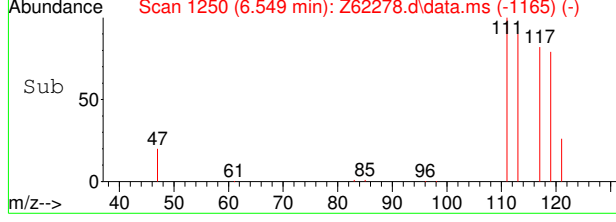
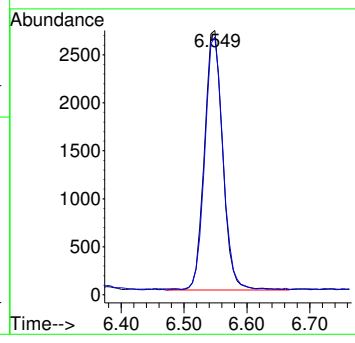
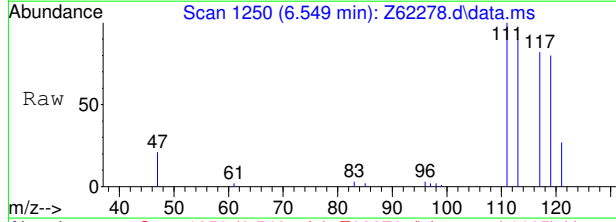
7.1.16  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.32 ppb  
 RT: 6.549 min Scan# 1250  
 Delta R.T. 0.006 min  
 Lab File: Z62278.d  
 Acq: 12 Sep 2020 11:52 pm

Tgt Ion	Resp	Lower	Upper
117	54593		
117	100		
119	96.4	75.5	115.5



7.1.16  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2416\  
Data File : Z62279.d  
Acq On : 13 Sep 2020 12:11 am  
Operator : stutip  
Sample : fa78565-17  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 06:50:02 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1666046	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1329426	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	569750	5.53	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	110.60%
19) Toluene-d8	8.961	98	1616421	5.01	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
Target Compounds						
5) Methylene Chloride	4.717	84	18632	0.11	ppb	Qvalue # 85
9) Chloroform	6.377	83	39776	0.16	ppb	98
10) Carbon Tetrachloride	6.543	117	53187	0.31	ppb	99
-----						

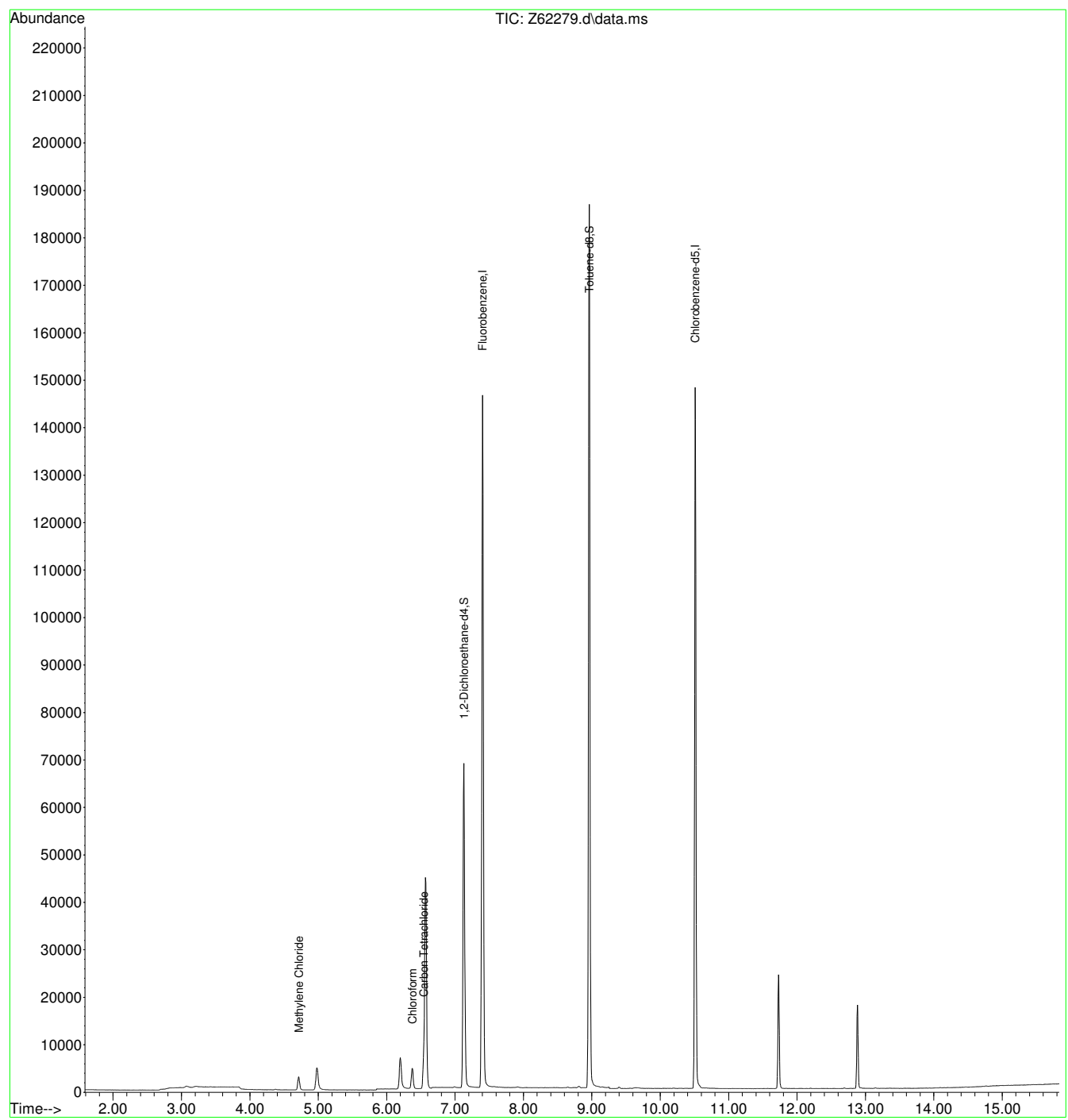
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.17  
7

Quantitation Report (QT Reviewed)

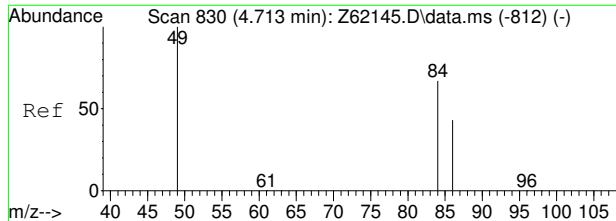
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62279.d  
Acq On : 13 Sep 2020 12:11 am  
Operator : stutip  
Sample : fa78565-17  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 06:50:02 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



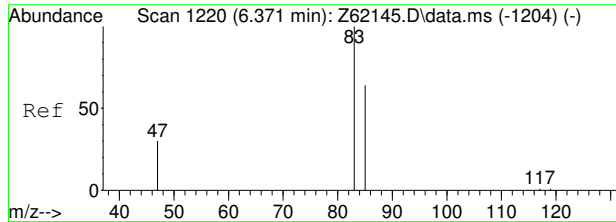
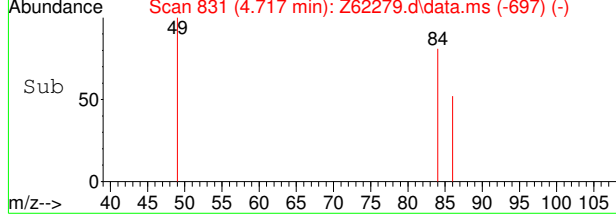
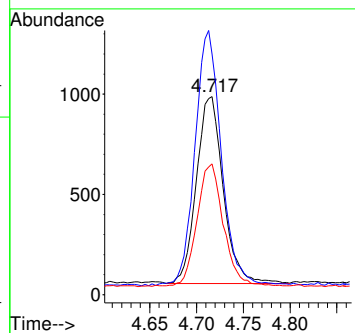
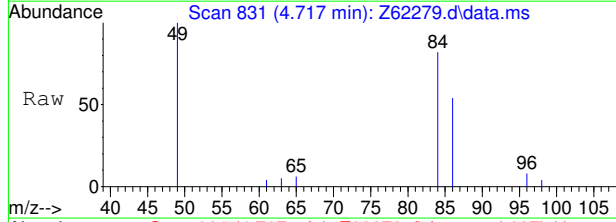
7.1.17  
7





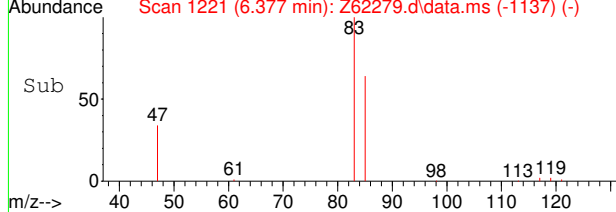
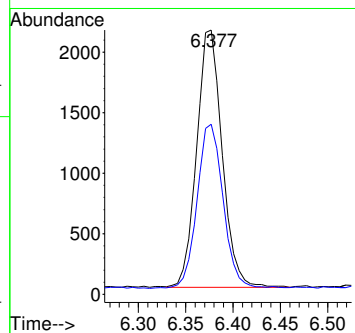
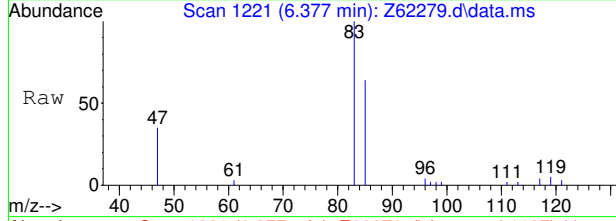
#5  
 Methylene Chloride  
 Concen: 0.11 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62279.d  
 Acq: 13 Sep 2020 12:11 am

Tgt Ion	Resp	Lower	Upper
84	18632		
49	123.3	128.7	168.7#
86	65.1	43.9	83.9

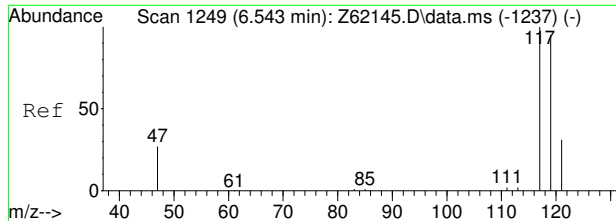


#9  
 Chloroform  
 Concen: 0.16 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62279.d  
 Acq: 13 Sep 2020 12:11 am

Tgt Ion	Resp	Lower	Upper
83	39776		
83	100		
85	64.9	46.1	86.1

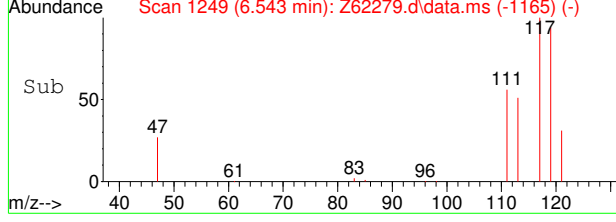
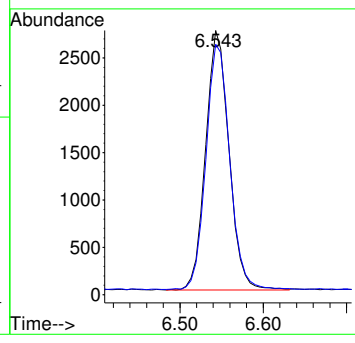
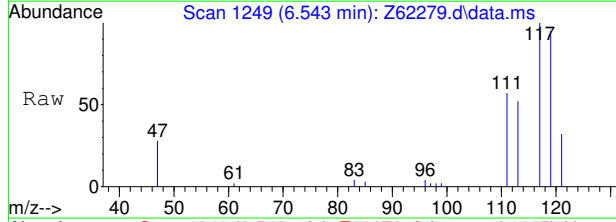


7.1.17



#10  
 Carbon Tetrachloride  
 Concen: 0.31 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62279.d  
 Acq: 13 Sep 2020 12:11 am

Tgt Ion	Resp	Lower	Upper
117	53187		
117	100		
119	96.3	75.5	115.5



7.1.17  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2416\  
Data File : Z62280.d  
Acq On : 13 Sep 2020 12:30 am  
Operator : stutip  
Sample : fa78565-18  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 06:50:05 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Fluorobenzene	7.401	96	1517226	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1208165	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	522292	5.57	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	111.40%	
19) Toluene-d8	8.961	98	1465855	5.00	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%	
Target Compounds							
5) Methylene Chloride	4.713	84	45113	0.30	ppb	93	
9) Chloroform	6.377	83	74810	0.33	ppb	98	
10) Carbon Tetrachloride	6.543	117	465691	3.01	ppb	100	

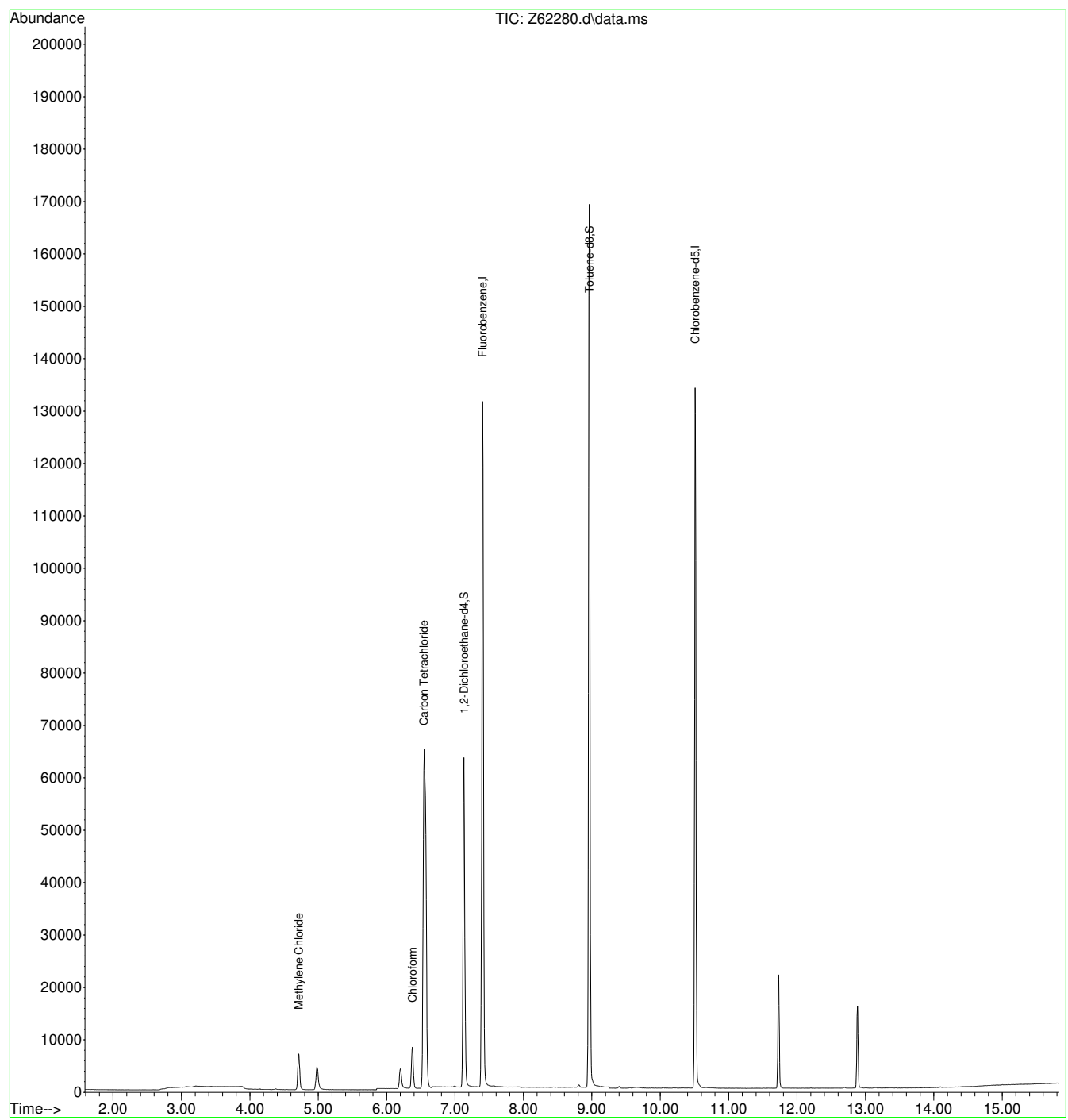
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.18  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62280.d  
Acq On : 13 Sep 2020 12:30 am  
Operator : stutip  
Sample : fa78565-18  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 21 Sample Multiplier: 1

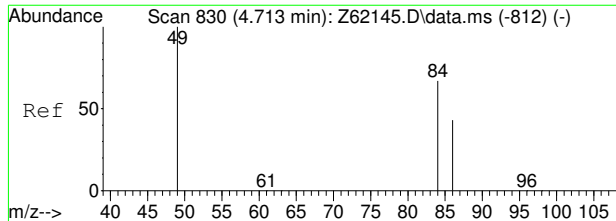
Quant Time: Sep 14 06:50:05 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.18  
7



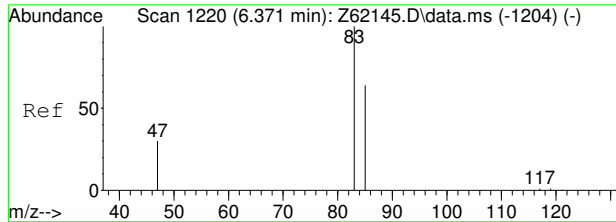
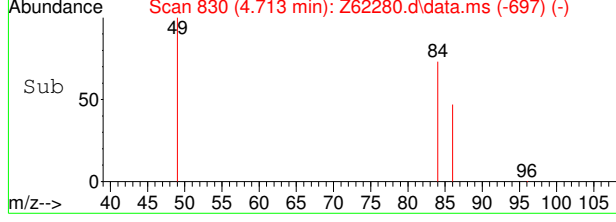
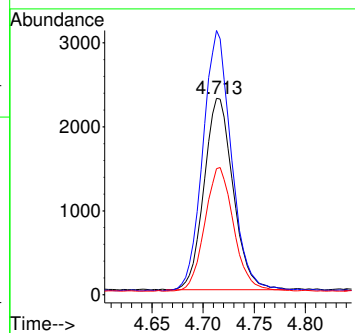
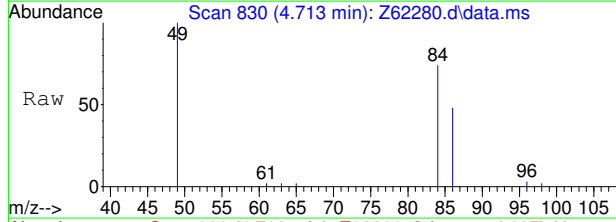




#5  
 Methylene Chloride  
 Concen: 0.30 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62280.d  
 Acq: 13 Sep 2020 12:30 am

Tgt Ion: 84 Resp: 45113

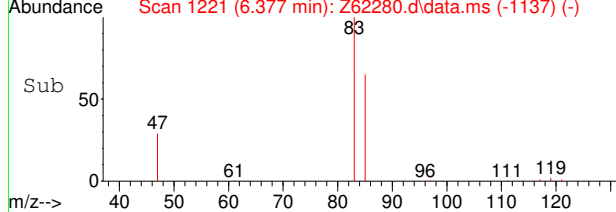
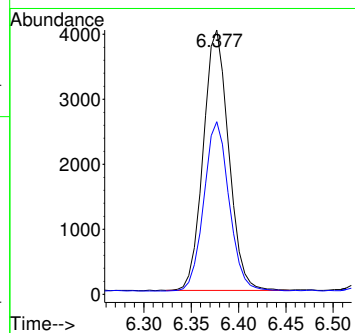
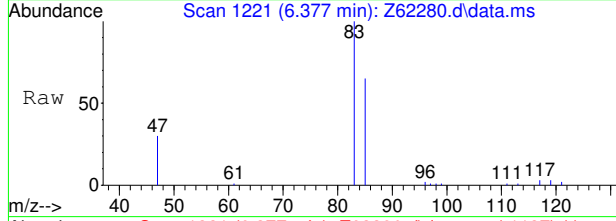
Ion	Ratio	Lower	Upper
84	100		
49	135.7	128.7	168.7
86	64.0	43.9	83.9



#9  
 Chloroform  
 Concen: 0.33 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62280.d  
 Acq: 13 Sep 2020 12:30 am

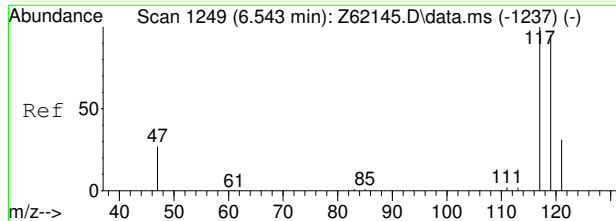
Tgt Ion: 83 Resp: 74810

Ion	Ratio	Lower	Upper
83	100		
85	64.7	46.1	86.1



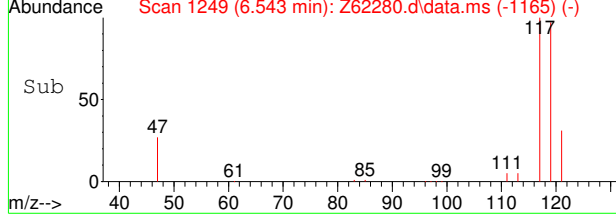
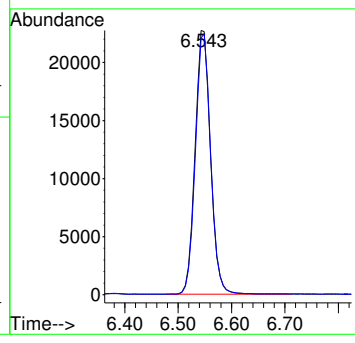
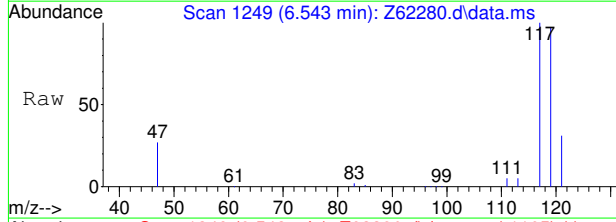
7.1.18  
7





#10  
 Carbon Tetrachloride  
 Concen: 3.01 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62280.d  
 Acq: 13 Sep 2020 12:30 am

Tgt Ion	Resp	Lower	Upper
117	465691		
119	95.6	75.5	115.5



7.1.18  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62281.d  
 Acq On : 13 Sep 2020 12:49 am  
 Operator : stutip  
 Sample : fa78565-19  
 Misc : MS47199,VZ2416,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 14 06:50:07 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1506107	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1197455	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	517219	5.55	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	111.00%	
19) Toluene-d8	8.961	98	1453650	5.00	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%	
Target Compounds							
5) Methylene Chloride	4.713	84	45568	0.30	ppb	92	
9) Chloroform	6.377	83	74500	0.33	ppb	100	
10) Carbon Tetrachloride	6.543	117	460362	3.00	ppb	99	
-----							

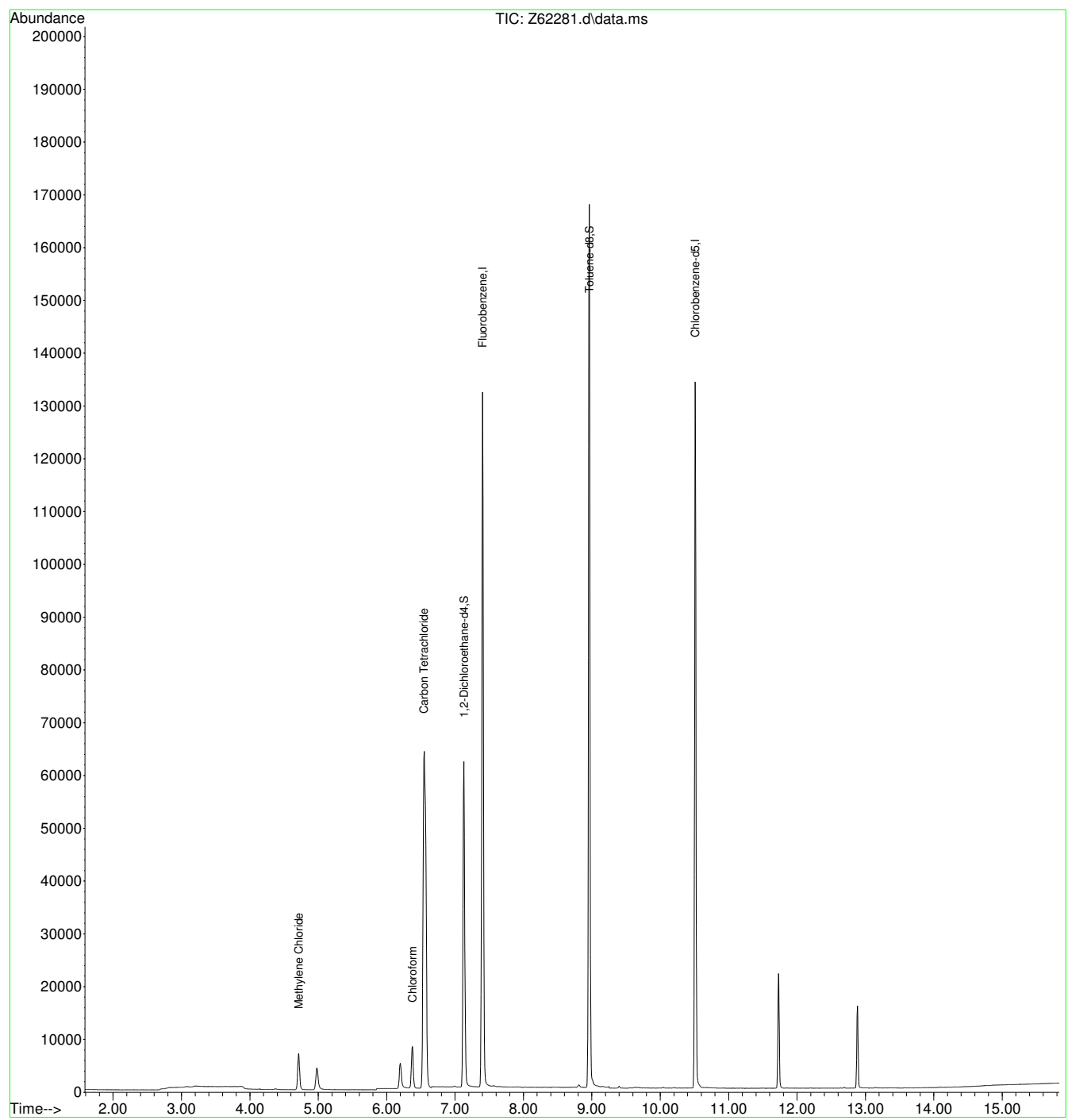
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.19  
7

Quantitation Report (QT Reviewed)

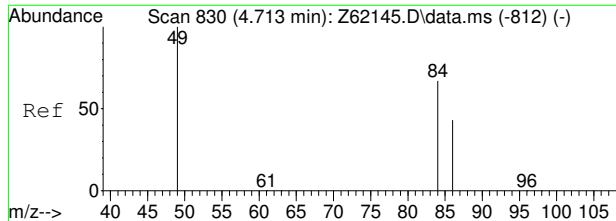
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62281.d  
Acq On : 13 Sep 2020 12:49 am  
Operator : stutip  
Sample : fa78565-19  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 14 06:50:07 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.19  
7

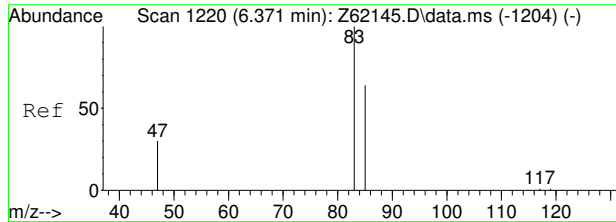
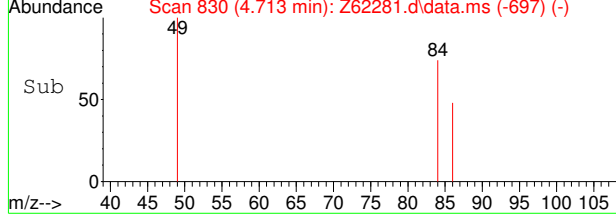
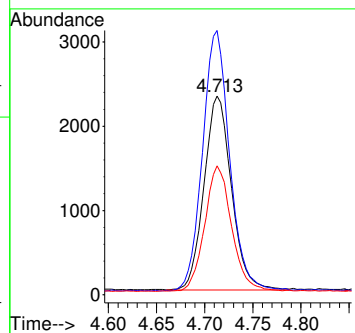
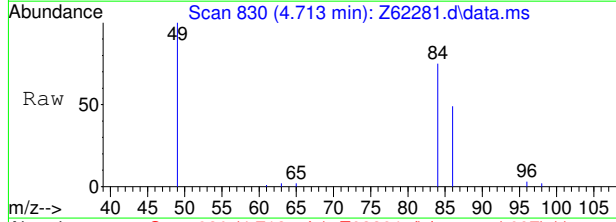




#5  
 Methylene Chloride  
 Concen: 0.30 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62281.d  
 Acq: 13 Sep 2020 12:49 am

Tgt Ion: 84 Resp: 45568

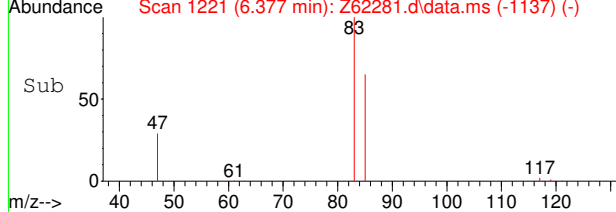
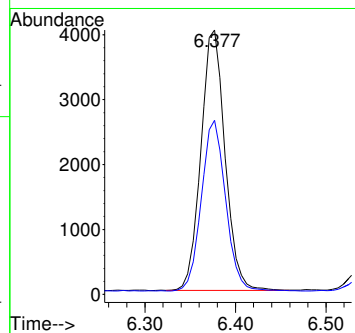
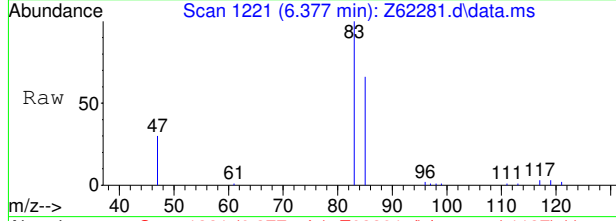
Ion	Ratio	Lower	Upper
84	100		
49	134.1	128.7	168.7
86	64.7	43.9	83.9



#9  
 Chloroform  
 Concen: 0.33 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62281.d  
 Acq: 13 Sep 2020 12:49 am

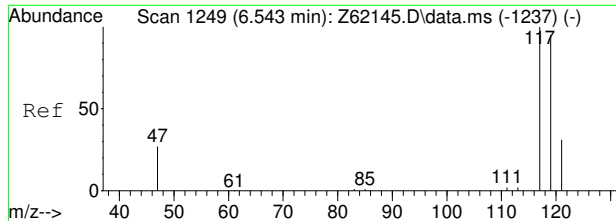
Tgt Ion: 83 Resp: 74500

Ion	Ratio	Lower	Upper
83	100		
85	65.8	46.1	86.1



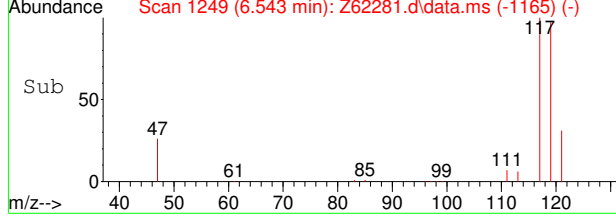
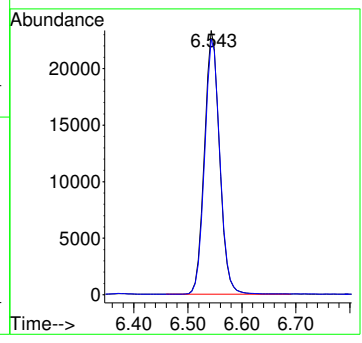
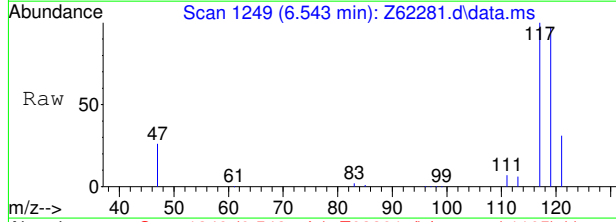
7.1.19  
7





#10  
Carbon Tetrachloride  
Concen: 3.00 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62281.d  
Acq: 13 Sep 2020 12:49 am

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.5	115.5



7.1.19  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2416\  
Data File : Z62282.d  
Acq On : 13 Sep 2020 1:09 am  
Operator : stutip  
Sample : fa78565-20  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 14 06:50:09 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1403862	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1118209	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	484915	5.58	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	111.60%
19) Toluene-d8	8.961	98	1356124	4.99	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
Target Compounds						
5) Methylene Chloride	4.713	84	13926	0.10	ppb	Qvalue 89
-----						

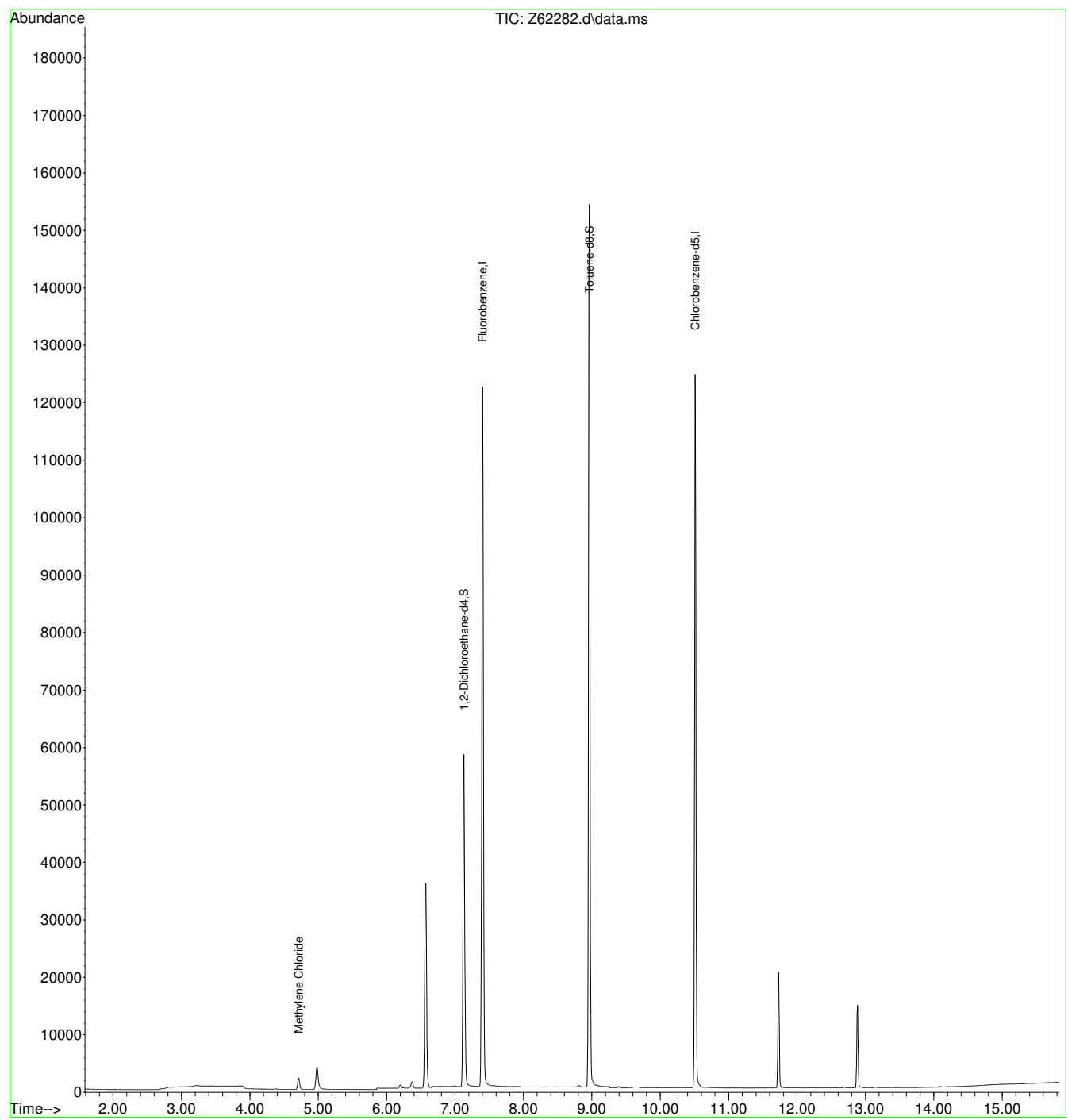
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.20  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
Data File : Z62282.d  
Acq On : 13 Sep 2020 1:09 am  
Operator : stutip  
Sample : fa78565-20  
Misc : MS47199,VZ2416,,,,,  
ALS Vial : 23 Sample Multiplier: 1

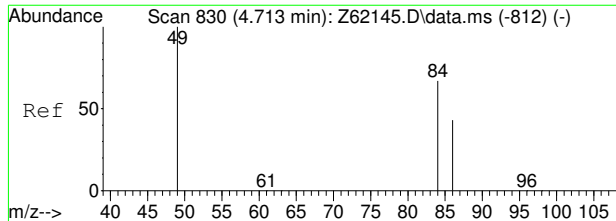
Quant Time: Sep 14 06:50:09 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.20  
7



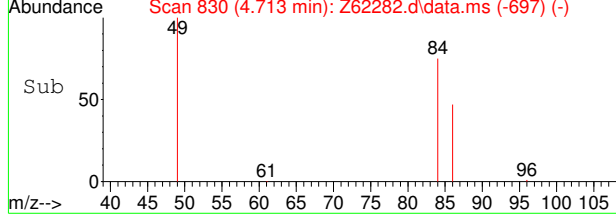
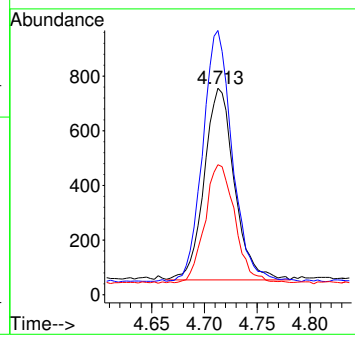
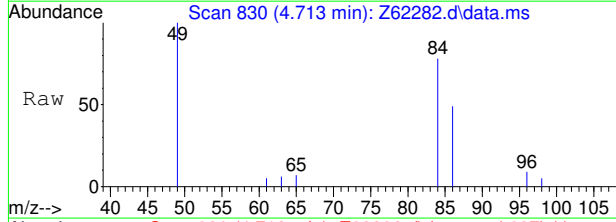




#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62282.d  
 Acq: 13 Sep 2020 1:09 am

Tgt Ion: 84 Resp: 13926

Ion	Ratio	Lower	Upper
84	100		
49	131.0	128.7	168.7
86	61.6	43.9	83.9



7.1.20  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
Data File : O61314.d  
Acq On : 13 Sep 2020 1:11 am  
Operator : stutip  
Sample : fa78565-21  
Misc : MS47199,VO2359,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 08:04:14 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	183028	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	148402	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	84454	5.71	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	114.20%	
19) Toluene-d8	8.896	98	154444	4.62	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.40%	

Target Compounds Qvalue  
-----

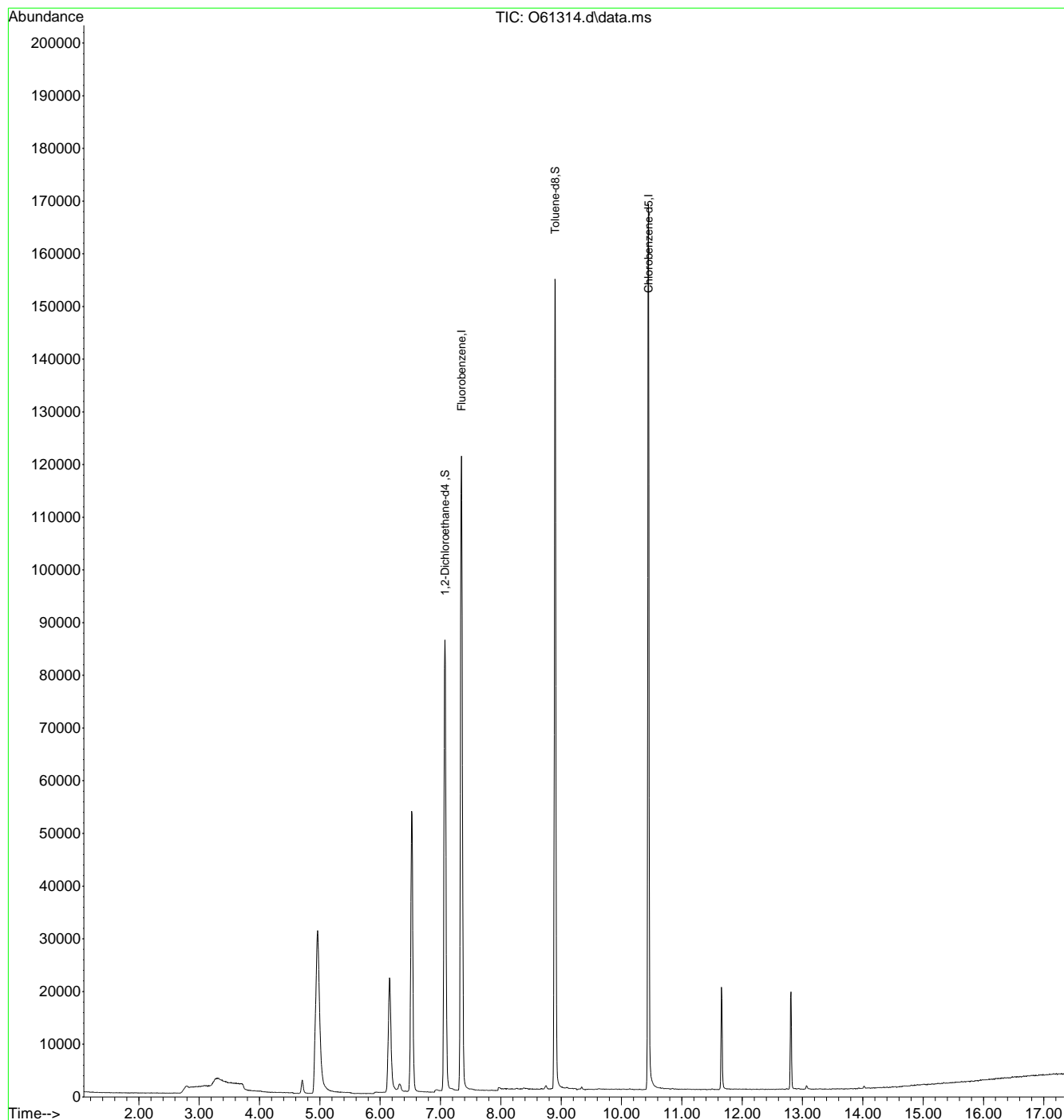
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.21  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61314.d  
 Acq On : 13 Sep 2020 1:11 am  
 Operator : stutip  
 Sample : fa78565-21  
 Misc : MS47199,VO2359,,,,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 08:04:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.21  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62345.D  
 Acq On : 14 Sep 2020 9:09 pm  
 Operator : JuanG  
 Sample : FA78565-21  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 15 18:51:04 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

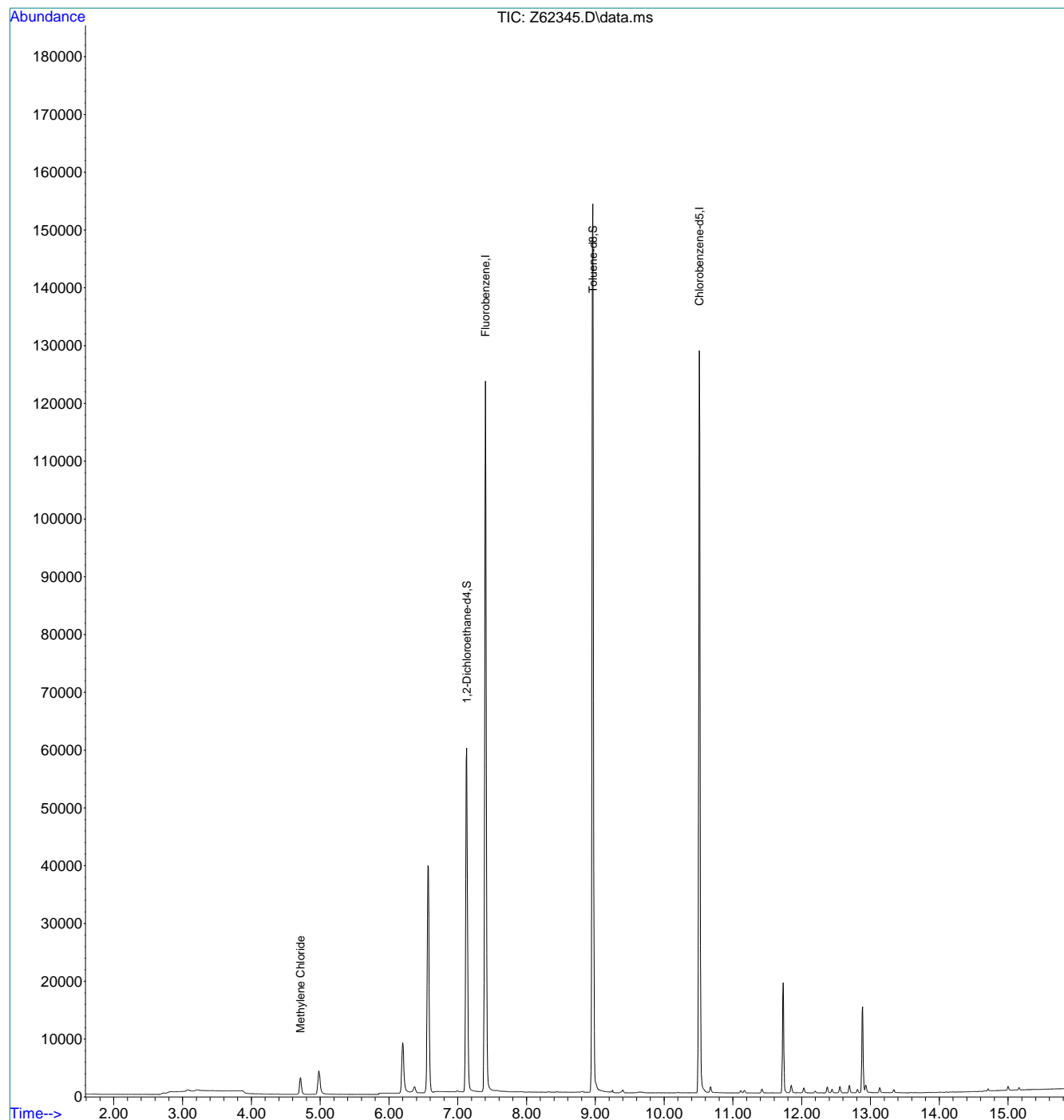
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.402	96	1414299	5.00	ppb	0.00
18) Chlorobenzene-d5	10.512	117	1136056	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.131	65	506786	5.79	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	115.80%
19) Toluene-d8	8.962	98	1353430	4.91	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
Target Compounds						
5) Methylene Chloride	4.713	84	19762	0.14	ppb	Qvalue 91
-----						

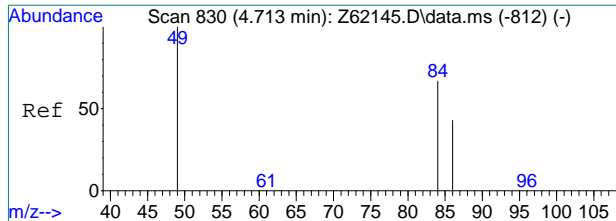
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
Data File : Z62345.D  
Acq On : 14 Sep 2020 9:09 pm  
Operator : JuanG  
Sample : FA78565-21  
Misc : MS47199,VZ2418,,,,,  
ALS Vial : 23 Sample Multiplier: 1

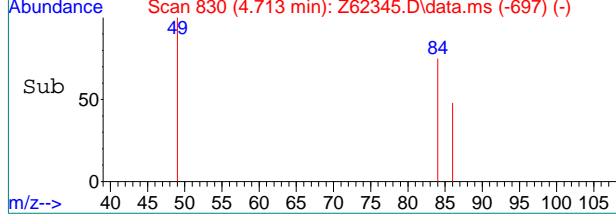
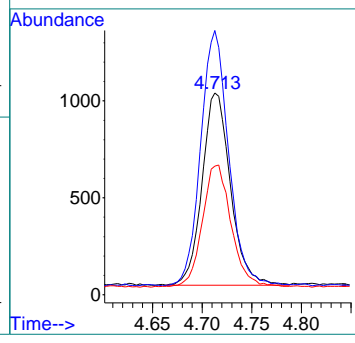
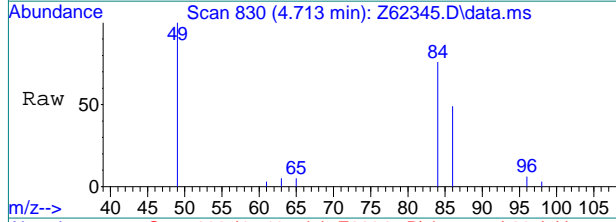
Quant Time: Sep 15 18:51:04 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration





#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62345.D  
 Acq: 14 Sep 2020 9:09 pm

Tgt Ion	Resp		
84	19762		
Ion	Ratio	Lower	Upper
84	100		
49	132.6	128.7	168.7
86	62.7	43.9	83.9



7.1.22  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61315.d  
 Acq On : 13 Sep 2020 1:32 am  
 Operator : stutip  
 Sample : fa78565-22  
 Misc : MS47199,VO2359,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 08:04:27 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	180985	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	149504	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	83003	5.68	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	113.60%		
19) Toluene-d8	8.896	98	153912	4.57	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.40%		
Target Compounds							
9) Chloroform	6.333	83	6038	0.21	ug/L	87	
10) Carbon Tetrachloride	6.511	117	23787	1.21	ug/L	90	
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

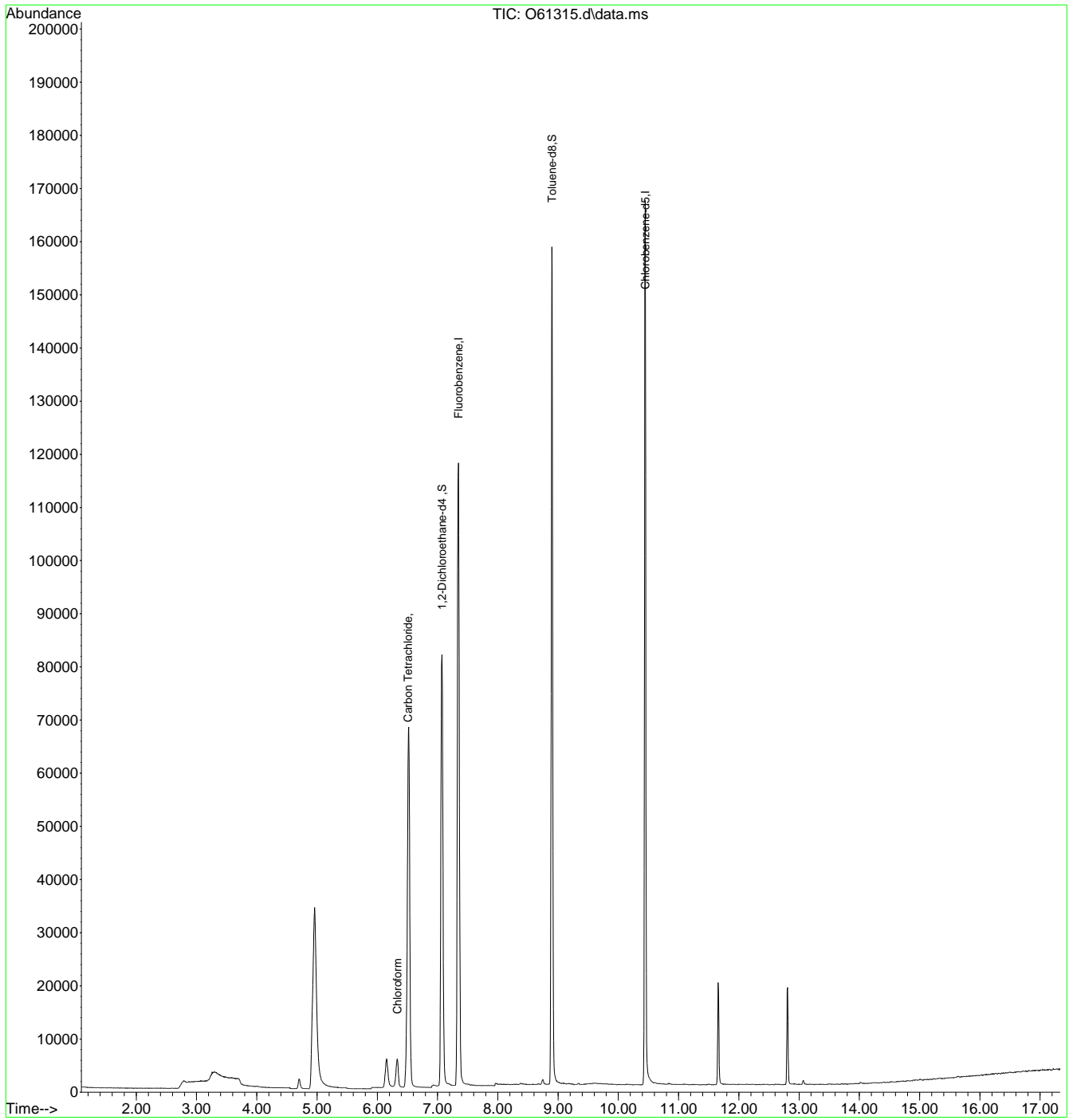
7.1.23  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
Data File : O61315.d  
Acq On : 13 Sep 2020 1:32 am  
Operator : stutip  
Sample : fa78565-22  
Misc : MS47199,VO2359,,,,,  
ALS Vial : 21 Sample Multiplier: 1

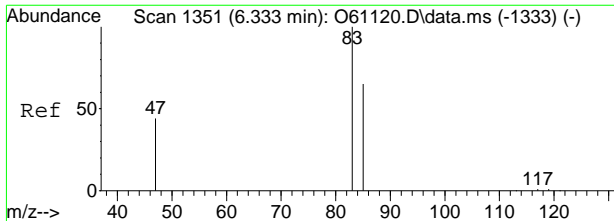
Quant Time: Sep 14 08:04:27 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



7.1.23  
7

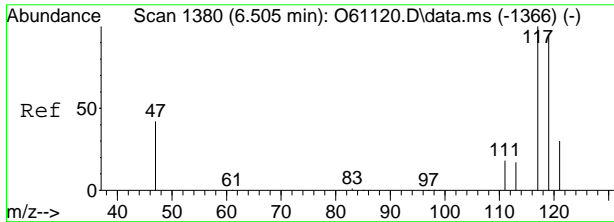
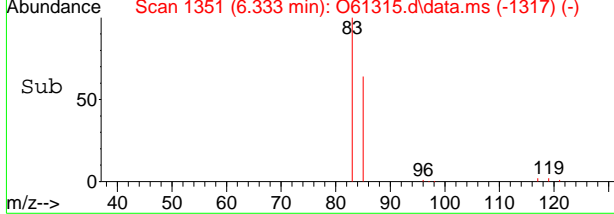
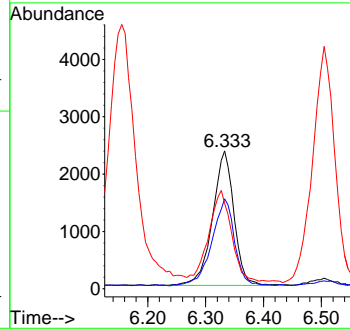
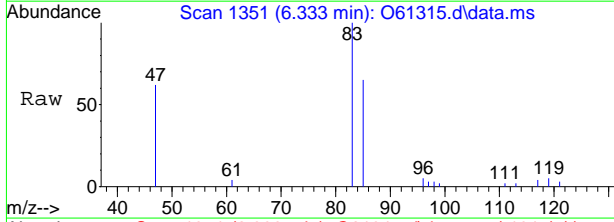






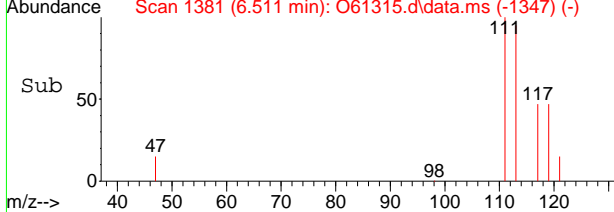
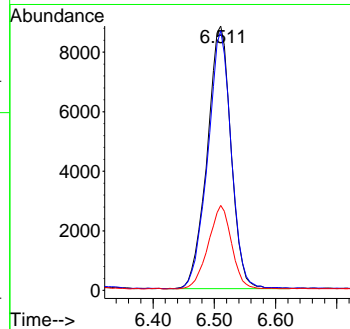
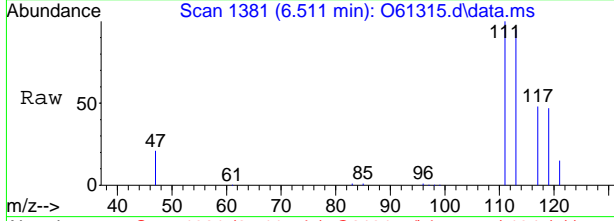
#9  
 Chloroform  
 Concen: 0.21 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61315.d  
 Acq: 13 Sep 2020 1:32 am

Tgt Ion	Resp	Lower	Upper
83	6038		
85	64.3	33.0	93.0
47	56.6	8.1	68.1



#10  
 Carbon Tetrachloride  
 Concen: 1.21 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. -0.000 min  
 Lab File: O61315.d  
 Acq: 13 Sep 2020 1:32 am

Tgt Ion	Resp	Lower	Upper
117	23787		
119	98.2	80.9	140.9
121	31.8	4.1	64.1



7.1.23  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62346.D  
 Acq On : 14 Sep 2020 9:28 pm  
 Operator : JuanG  
 Sample : FA78565-22  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 15 18:51:06 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

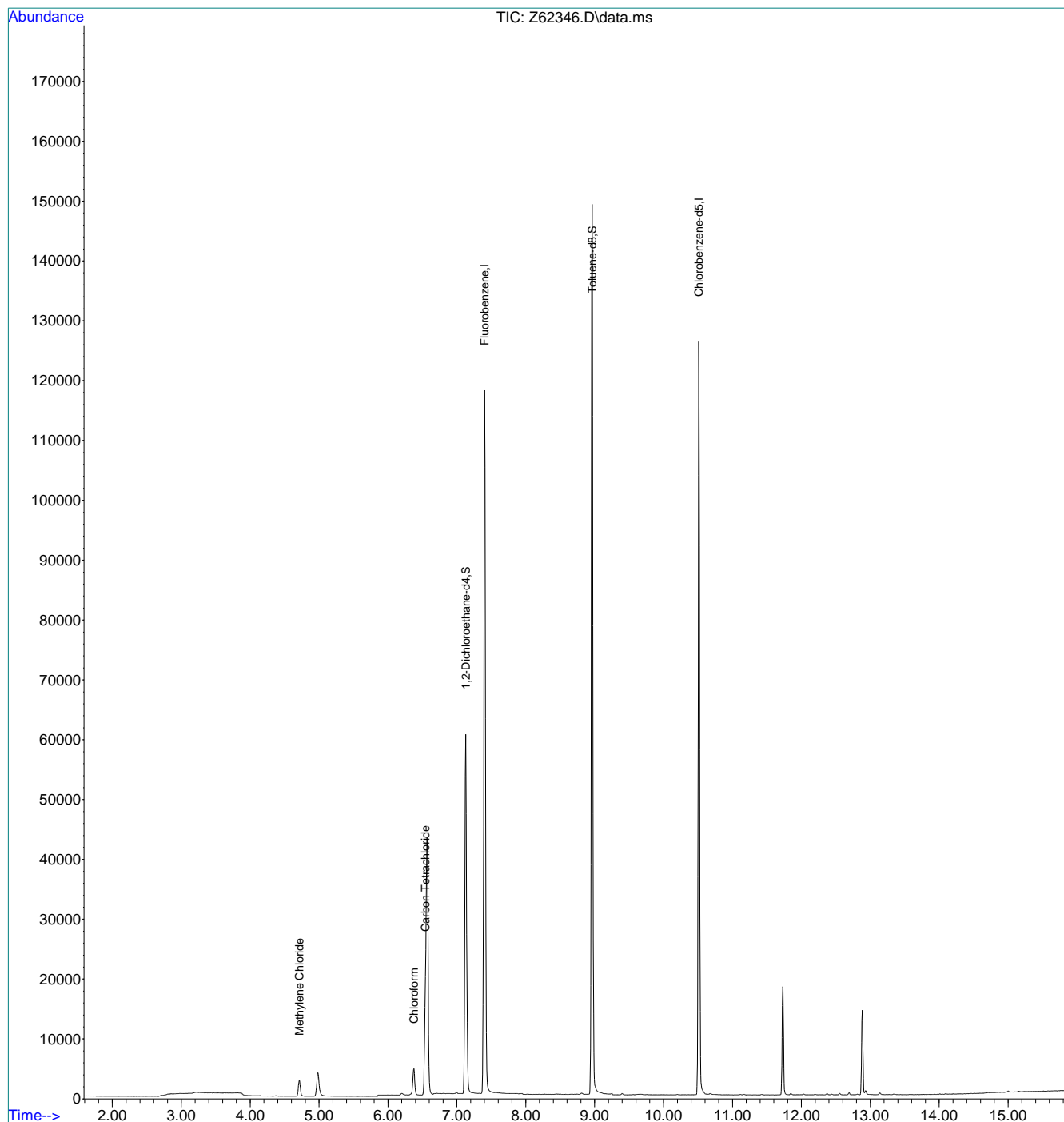
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1371655	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1116479	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	500783	5.90	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	118.00%	
19) Toluene-d8	8.961	98	1320668	4.87	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%	
Target Compounds							
5) Methylene Chloride	4.713	84	18658	0.14	ppb		Qvalue # 87
9) Chloroform	6.377	83	42944	0.21	ppb		99
10) Carbon Tetrachloride	6.543	117	134082	0.96	ppb		98
-----							

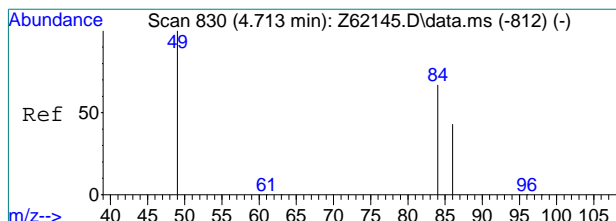
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
Data File : Z62346.D  
Acq On : 14 Sep 2020 9:28 pm  
Operator : JuanG  
Sample : FA78565-22  
Misc : MS47199,VZ2418,,,,,  
ALS Vial : 24 Sample Multiplier: 1

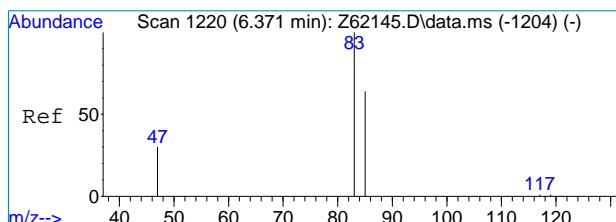
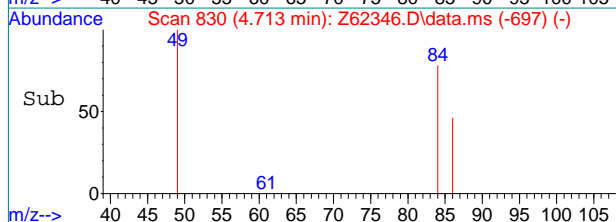
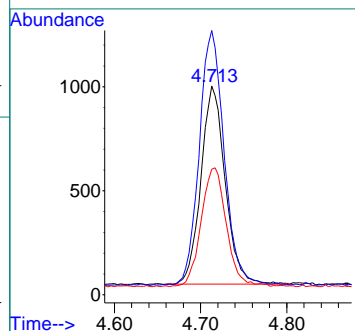
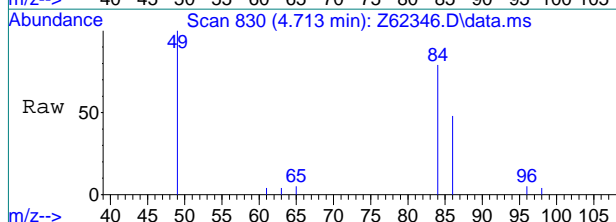
Quant Time: Sep 15 18:51:06 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration





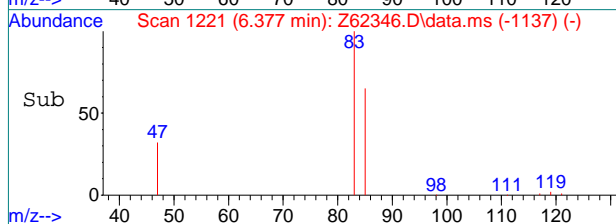
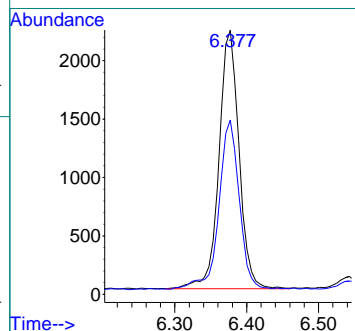
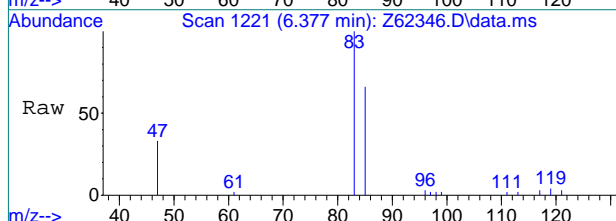
#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62346.D  
 Acq: 14 Sep 2020 9:28 pm

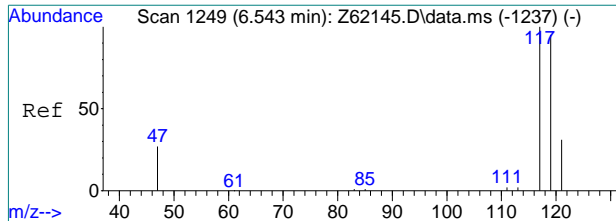
Tgt Ion	Ratio	Lower	Upper
84	100		
49	128.4	128.7	168.7#
86	58.9	43.9	83.9



#9  
 Chloroform  
 Concen: 0.21 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62346.D  
 Acq: 14 Sep 2020 9:28 pm

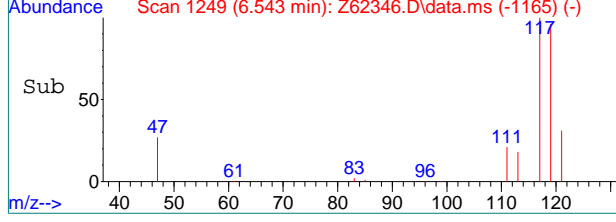
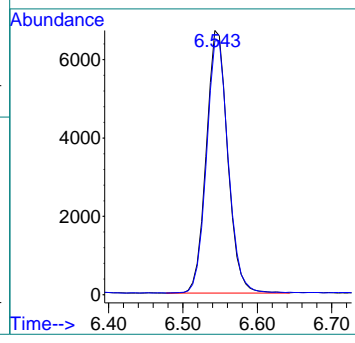
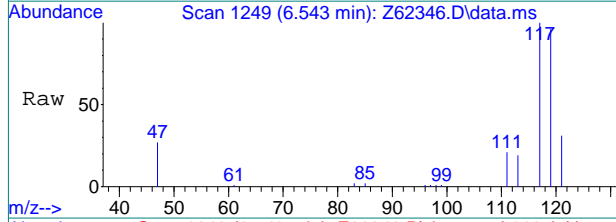
Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	46.1	86.1





#10  
 Carbon Tetrachloride  
 Concen: 0.96 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62346.D  
 Acq: 14 Sep 2020 9:28 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.6	75.5	115.5



7.1.24  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61316.d  
 Acq On : 13 Sep 2020 1:52 am  
 Operator : stutip  
 Sample : fa78565-23  
 Misc : MS47199,VO2359,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 14 08:04:50 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.340	96	176073	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	140821	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.068	65	81402	5.72	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	114.40%	
19) Toluene-d8	8.896	98	149902	4.72	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.40%	
Target Compounds						
9) Chloroform	6.333	83	6591	0.23	ug/L	85
10) Carbon Tetrachloride	6.511	117	41713	2.18	ug/L	88
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

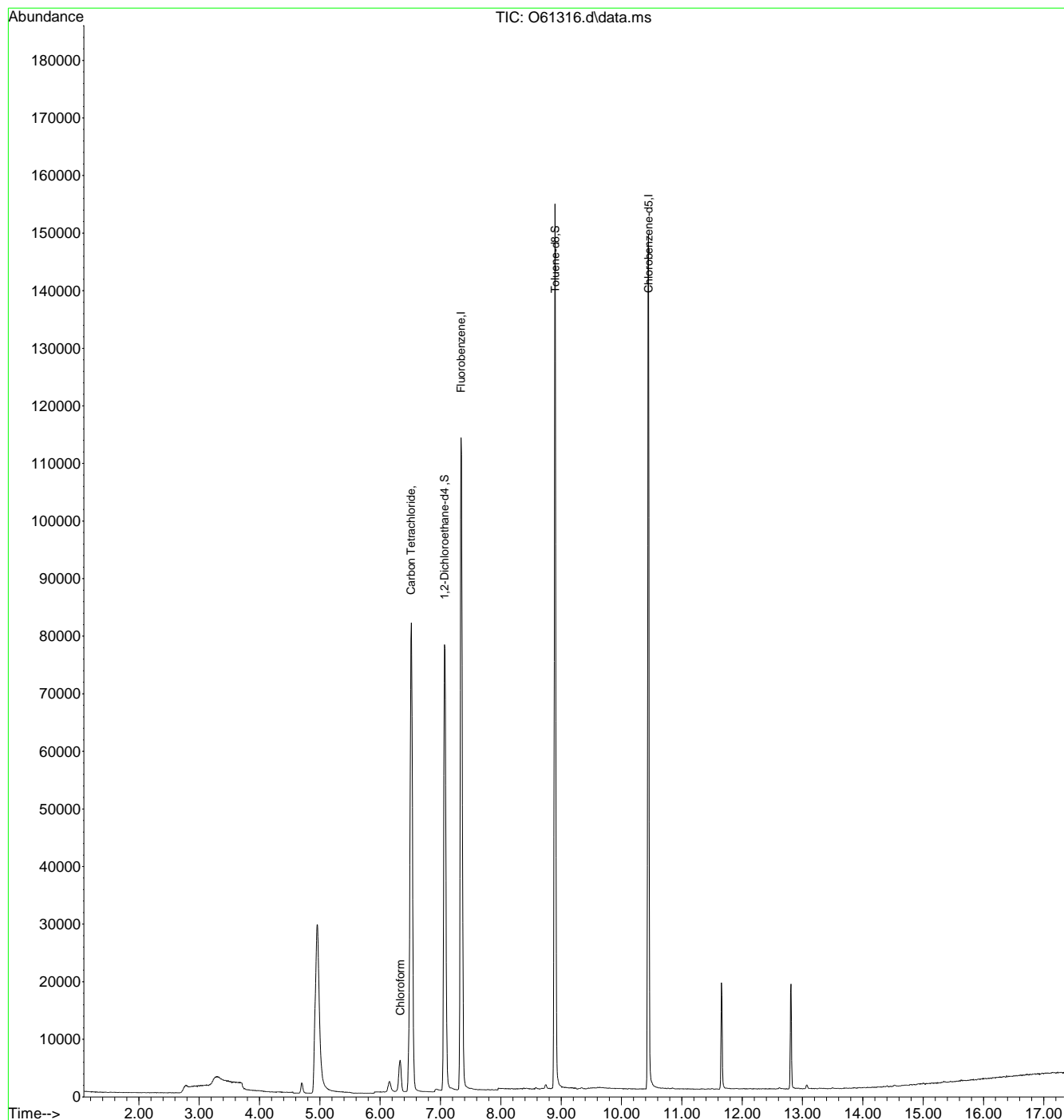
7.1.25

7

Quantitation Report (QT Reviewed)

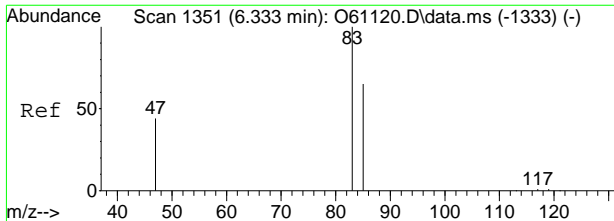
Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61316.d  
 Acq On : 13 Sep 2020 1:52 am  
 Operator : stutip  
 Sample : fa78565-23  
 Misc : MS47199,VO2359,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 14 08:04:50 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



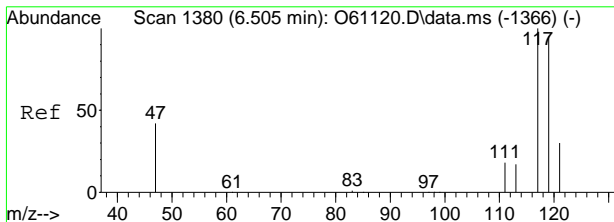
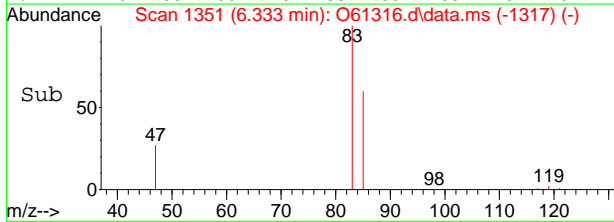
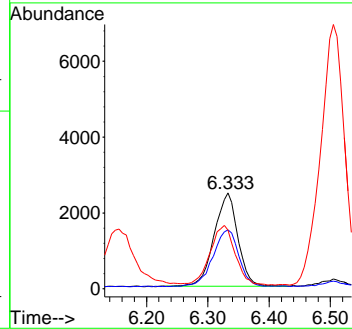
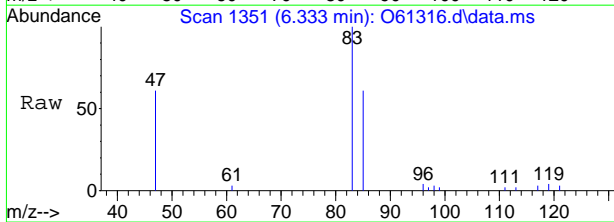
7.1.25  
7





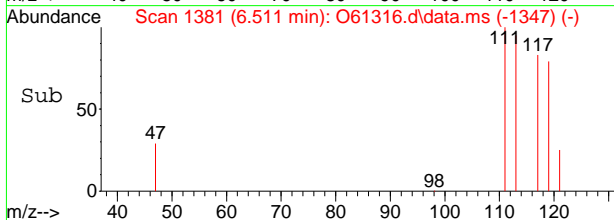
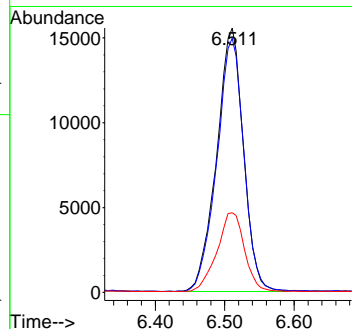
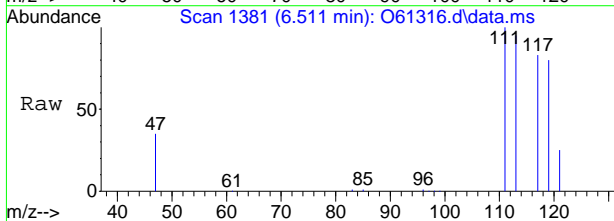
#9  
 Chloroform  
 Concen: 0.23 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61316.d  
 Acq: 13 Sep 2020 1:52 am

Tgt Ion	Resp	Lower	Upper
83	6591		
85	60.5	33.0	93.0
47	58.6	8.1	68.1



#10  
 Carbon Tetrachloride  
 Concen: 2.18 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. -0.000 min  
 Lab File: O61316.d  
 Acq: 13 Sep 2020 1:52 am

Tgt Ion	Resp	Lower	Upper
117	41713		
119	96.0	80.9	140.9
121	29.9	4.1	64.1



7.1.25  
 7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62347.D  
 Acq On : 14 Sep 2020 9:48 pm  
 Operator : JuanG  
 Sample : FA78565-23  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 15 18:51:08 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

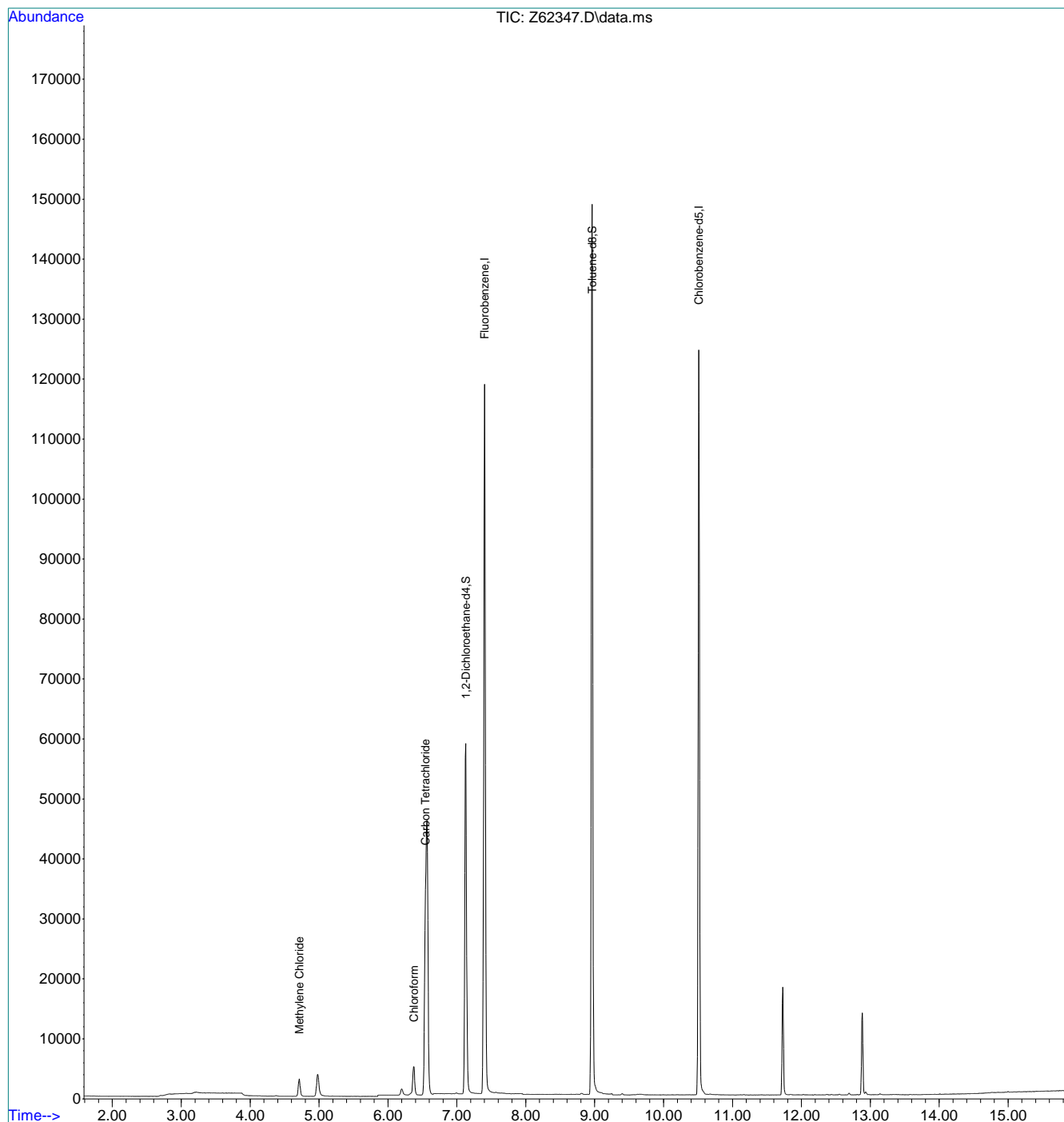
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1364805	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1111660	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	500762	5.93	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	118.60%	
19) Toluene-d8	8.961	98	1311125	4.86	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%	
Target Compounds							
5) Methylene Chloride	4.713	84	19797	0.15	ppb		90
9) Chloroform	6.377	83	48500	0.24	ppb		98
10) Carbon Tetrachloride	6.543	117	235231	1.69	ppb		97
-----							

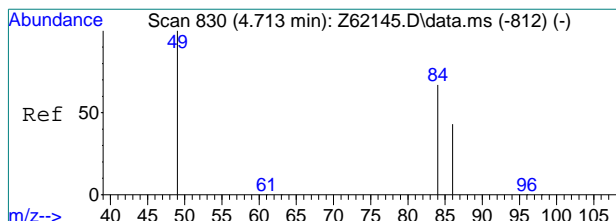
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
Data File : Z62347.D  
Acq On : 14 Sep 2020 9:48 pm  
Operator : JuanG  
Sample : FA78565-23  
Misc : MS47199,VZ2418,,,,,  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 15 18:51:08 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

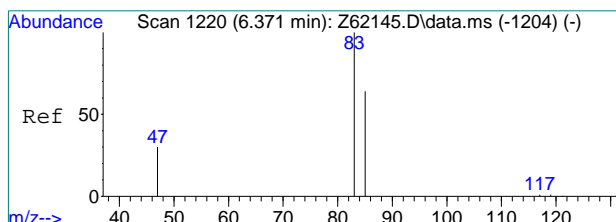
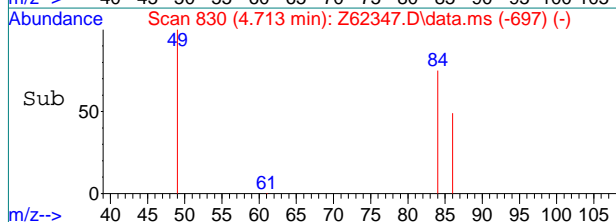
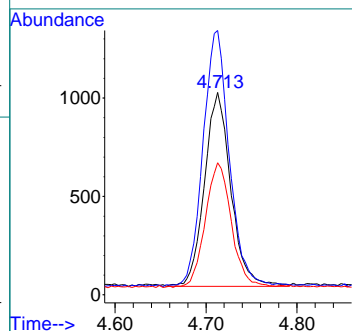
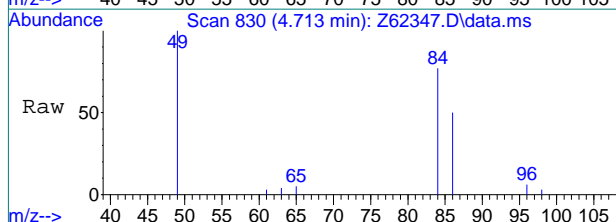




#5  
 Methylene Chloride  
 Concen: 0.15 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62347.D  
 Acq: 14 Sep 2020 9:48 pm

Tgt Ion: 84 Resp: 19797

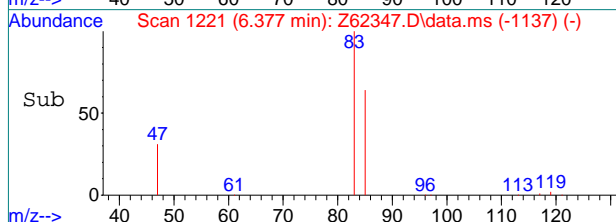
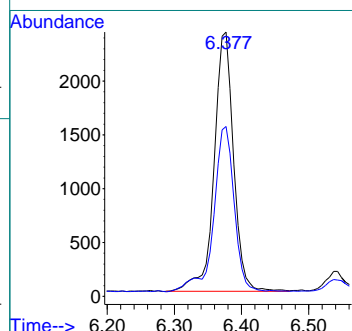
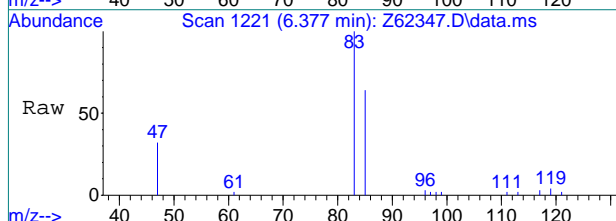
Ion	Ratio	Lower	Upper
84	100		
49	131.4	128.7	168.7
86	64.1	43.9	83.9

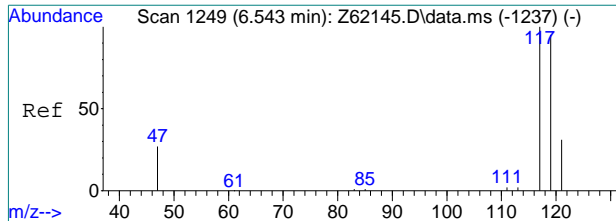


#9  
 Chloroform  
 Concen: 0.24 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62347.D  
 Acq: 14 Sep 2020 9:48 pm

Tgt Ion: 83 Resp: 48500

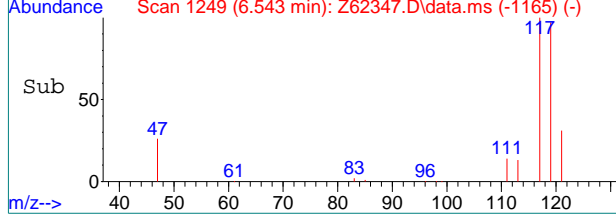
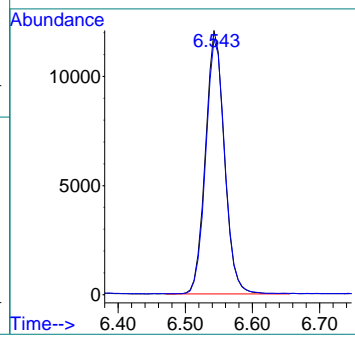
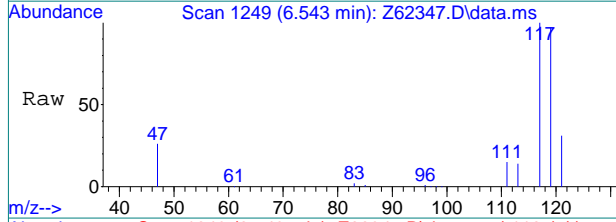
Ion	Ratio	Lower	Upper
83	100		
85	67.8	46.1	86.1





#10  
 Carbon Tetrachloride  
 Concen: 1.69 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62347.D  
 Acq: 14 Sep 2020 9:48 pm

Tgt Ion	Resp
117	235231
119	98.5



7.1.26  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
Data File : O61317.d  
Acq On : 13 Sep 2020 2:12 am  
Operator : stutip  
Sample : fa78565-24  
Misc : MS47199,VO2359,,,,,  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 14 08:05:13 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	180953	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	141150	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	83335	5.70	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	114.00%	
19) Toluene-d8	8.900	98	152410	4.79	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.80%	
Target Compounds						
					Qvalue	
-----						

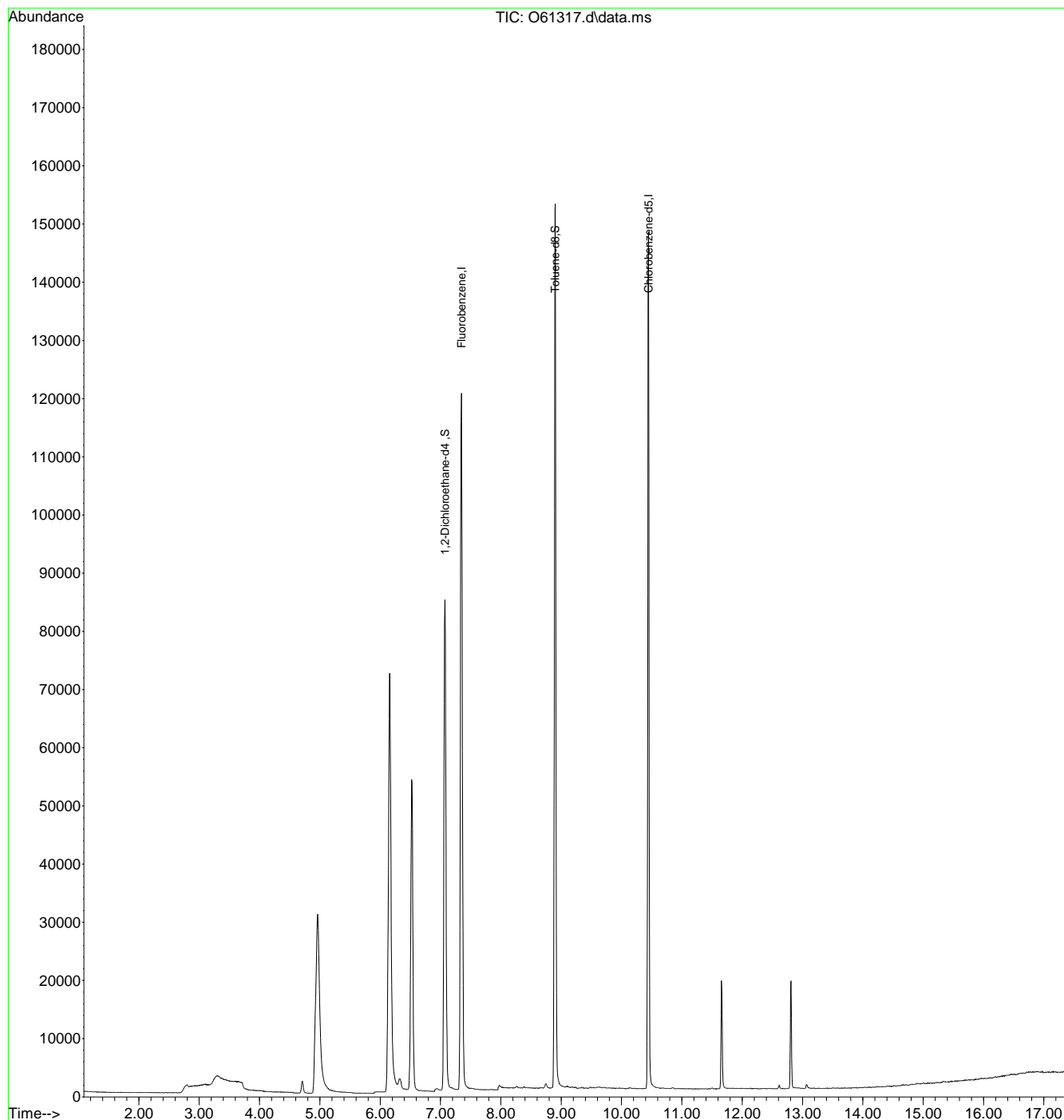
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.27  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61317.d  
 Acq On : 13 Sep 2020 2:12 am  
 Operator : stutip  
 Sample : fa78565-24  
 Misc : MS47199,VO2359,,,,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 14 08:05:13 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.27  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62348.D  
 Acq On : 14 Sep 2020 10:07 pm  
 Operator : JuanG  
 Sample : FA78565-24  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 15 18:51:10 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

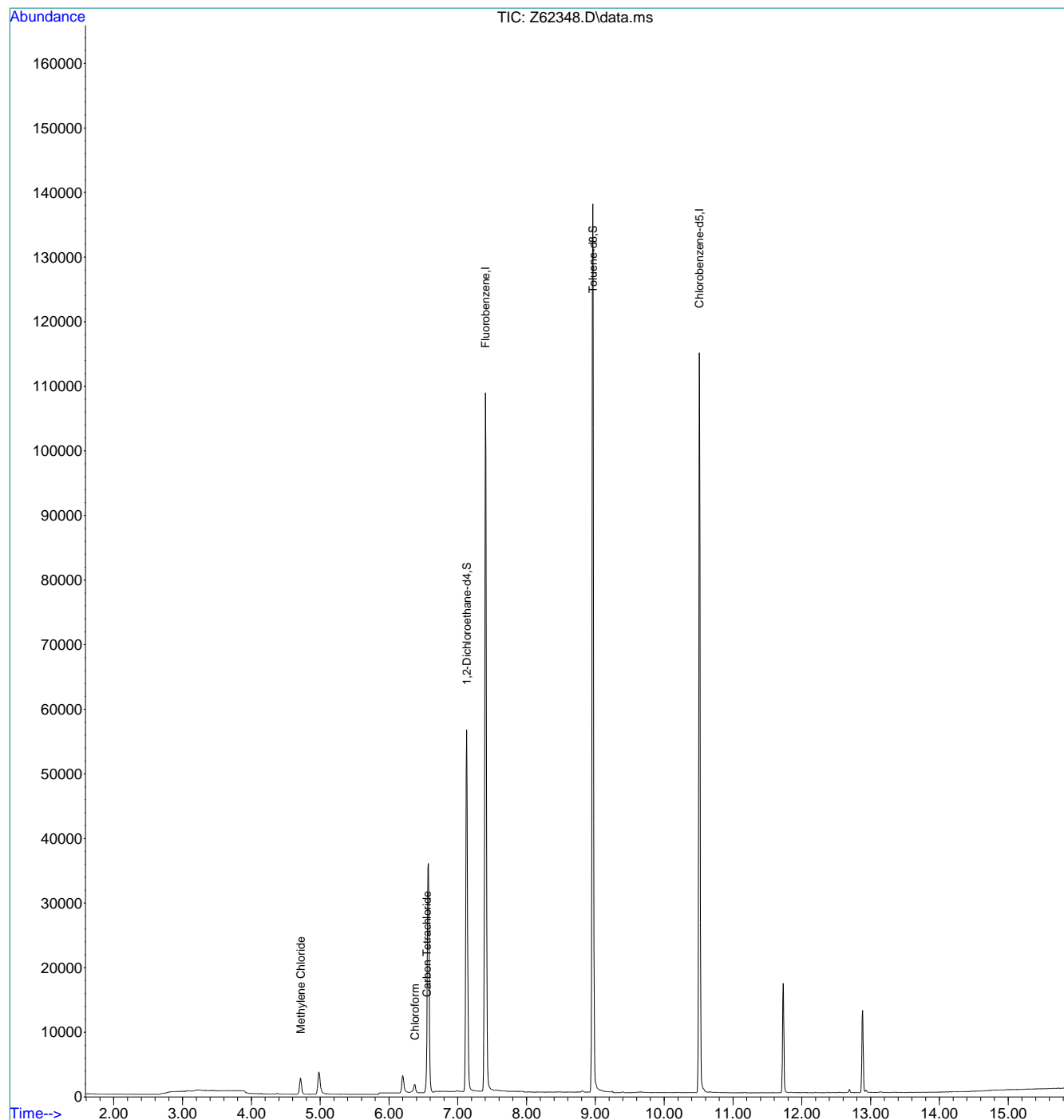
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1271893	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1030410	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	470123	5.98	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	119.60%	
19) Toluene-d8	8.961	98	1214392	4.85	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%	
Target Compounds							
5) Methylene Chloride	4.717	84	17251	0.14	ppb		Qvalue # 85
9) Chloroform	6.377	83	12903	0.07	ppb		90
10) Carbon Tetrachloride	6.549	117	9171	0.07	ppb		97
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

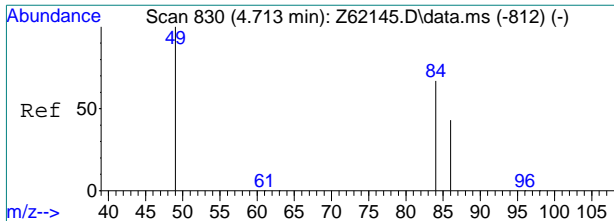
## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
Data File : Z62348.D  
Acq On : 14 Sep 2020 10:07 pm  
Operator : JuanG  
Sample : FA78565-24  
Misc : MS47199,VZ2418,,,,,  
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 15 18:51:10 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



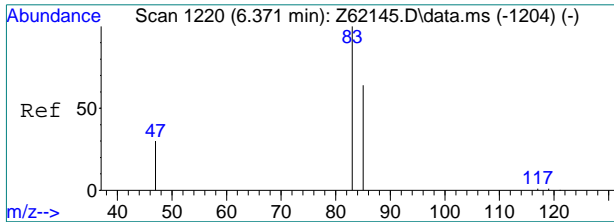
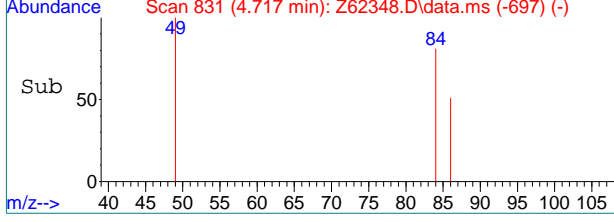
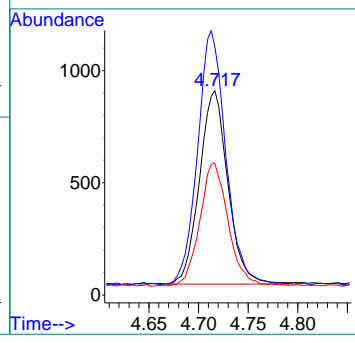
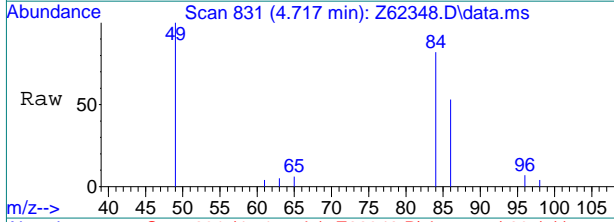




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62348.D  
 Acq: 14 Sep 2020 10:07 pm

Tgt Ion: 84 Resp: 17251

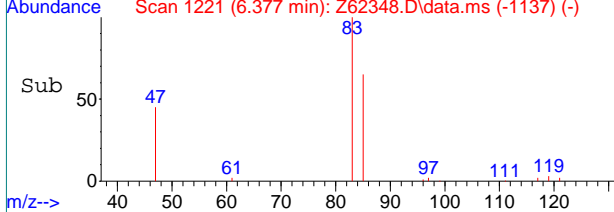
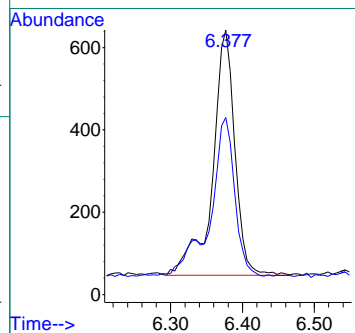
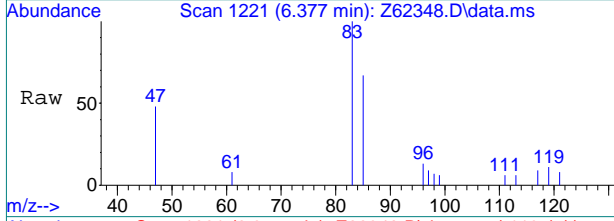
Ion	Ratio	Lower	Upper
84	100		
49	122.4	128.7	168.7#
86	63.4	43.9	83.9



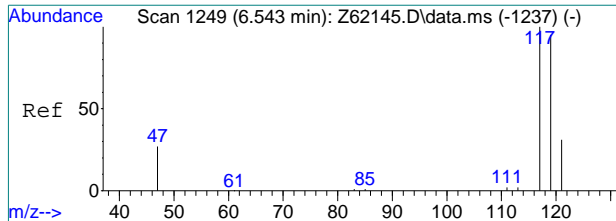
#9  
 Chloroform  
 Concen: 0.07 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62348.D  
 Acq: 14 Sep 2020 10:07 pm

Tgt Ion: 83 Resp: 12903

Ion	Ratio	Lower	Upper
83	100		
85	58.3	46.1	86.1

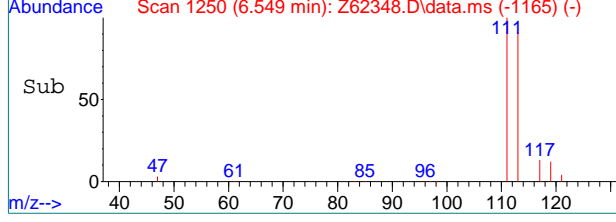
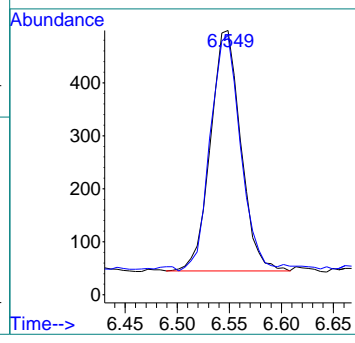
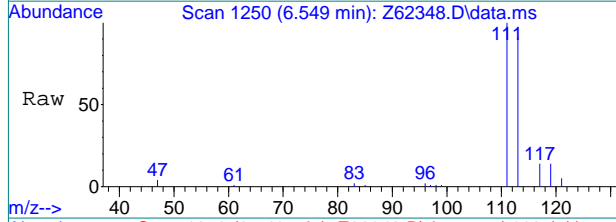


7.1.28  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.07 ppb  
 RT: 6.549 min Scan# 1250  
 Delta R.T. 0.006 min  
 Lab File: Z62348.D  
 Acq: 14 Sep 2020 10:07 pm

Tgt Ion:	117	Resp:	9171
Ion	Ratio	Lower	Upper
117	100		
119	98.0	75.5	115.5



7.1.28  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
Data File : O61329.d  
Acq On : 13 Sep 2020 1:07 pm  
Operator : stutip  
Sample : fa78565-25  
Misc : MS47201,VO2360,,,,,  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 08:33:05 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	211288	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	169710	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	92470	5.42	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	108.40%	
19) Toluene-d8	8.896	98	179584	4.69	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	93.80%	
Target Compounds						Qvalue
-----						

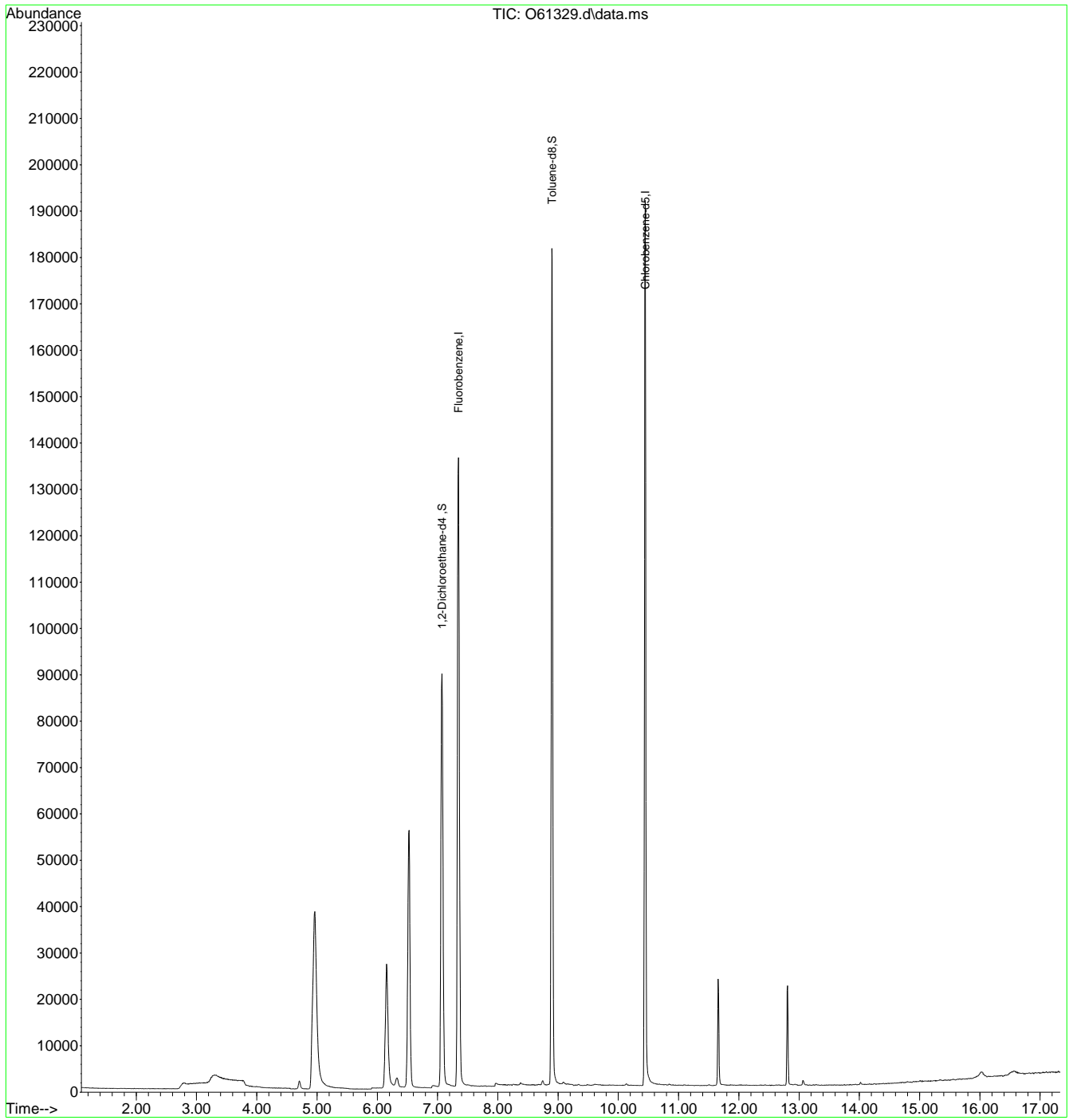
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.29  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
Data File : O61329.d  
Acq On : 13 Sep 2020 1:07 pm  
Operator : stutip  
Sample : fa78565-25  
Misc : MS47201,VO2360,,,,,  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 08:33:05 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



7.1.29  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62349.D  
 Acq On : 14 Sep 2020 10:26 pm  
 Operator : JuanG  
 Sample : FA78565-25  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 15 18:51:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

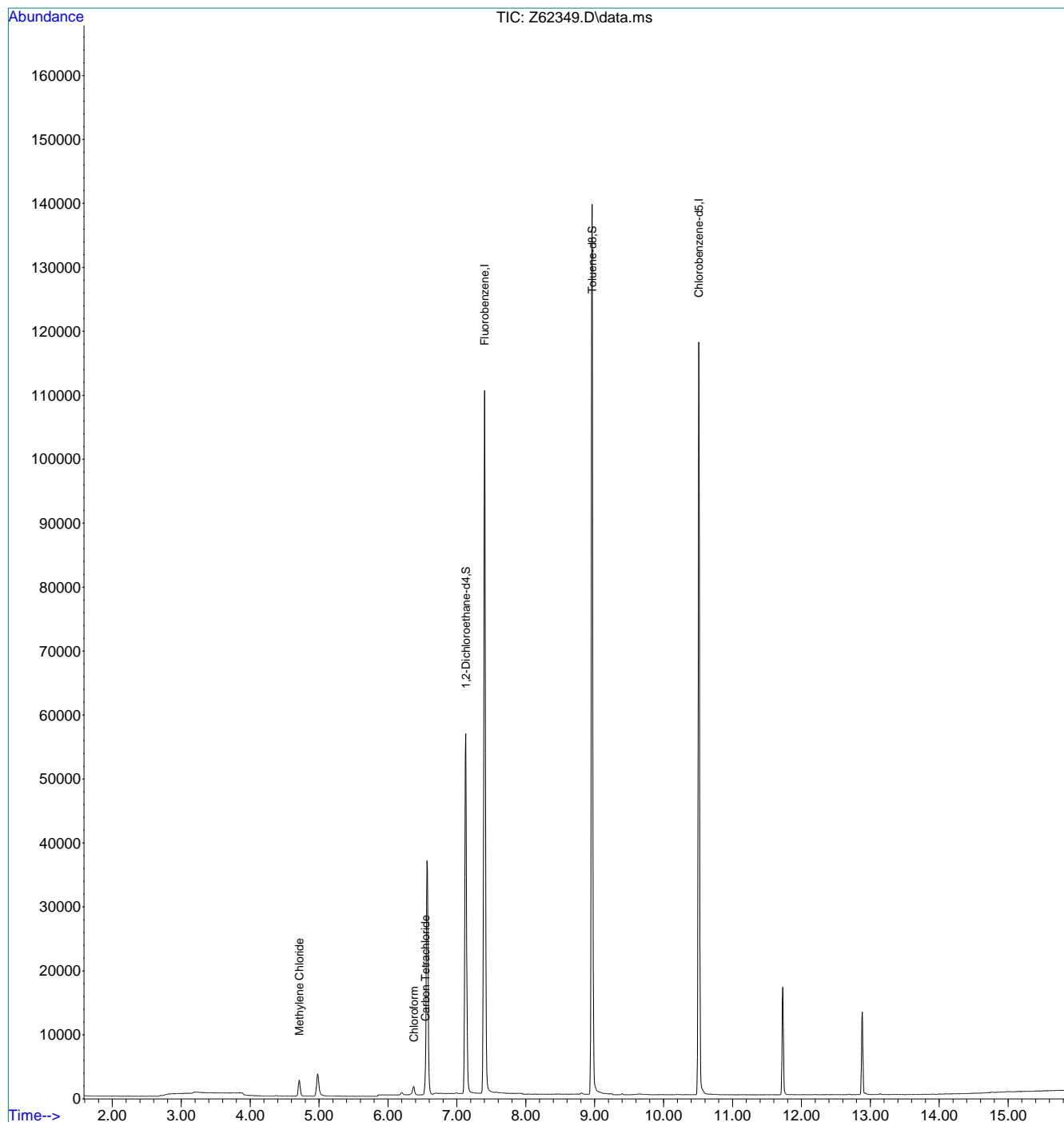
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1273604	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1045493	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	476202	6.04	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	120.80%	
19) Toluene-d8	8.961	98	1222358	4.81	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%	
Target Compounds							
5) Methylene Chloride	4.713	84	17070	0.13	ppb	90	
9) Chloroform	6.377	83	12174	0.06	ppb	95	
10) Carbon Tetrachloride	6.543	117	10965	0.08	ppb	96	
-----							

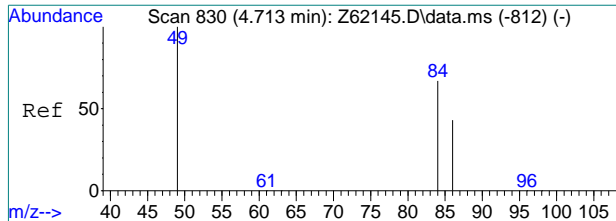
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
Data File : Z62349.D  
Acq On : 14 Sep 2020 10:26 pm  
Operator : JuanG  
Sample : FA78565-25  
Misc : MS47199,VZ2418,,,,,  
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 15 18:51:12 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

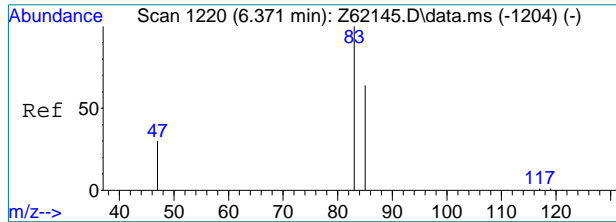
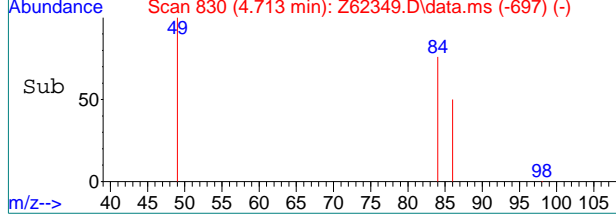
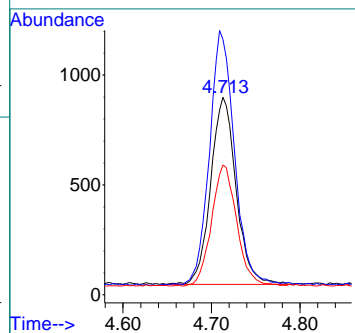
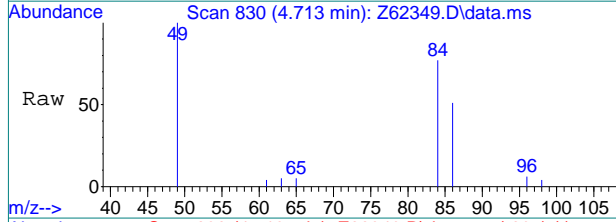




#5  
 Methylene Chloride  
 Concen: 0.13 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62349.D  
 Acq: 14 Sep 2020 10:26 pm

Tgt Ion: 84 Resp: 17070

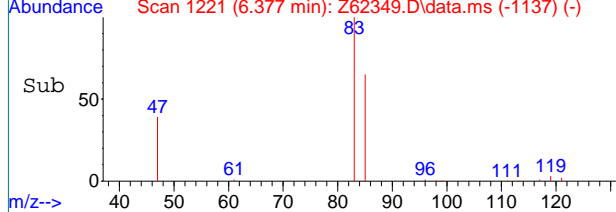
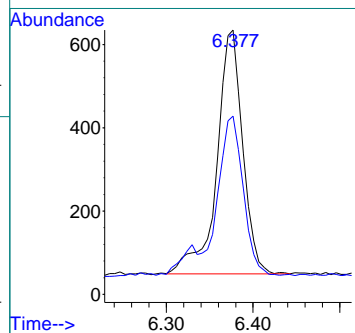
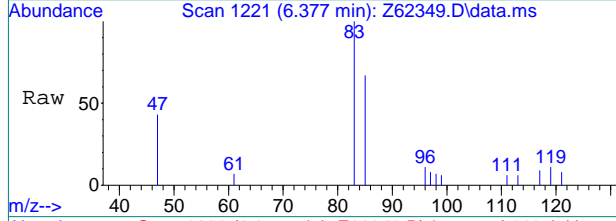
Ion	Ratio	Lower	Upper
84	100		
49	130.9	128.7	168.7
86	64.4	43.9	83.9



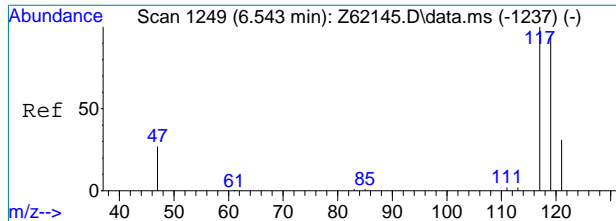
#9  
 Chloroform  
 Concen: 0.06 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62349.D  
 Acq: 14 Sep 2020 10:26 pm

Tgt Ion: 83 Resp: 12174

Ion	Ratio	Lower	Upper
83	100		
85	61.9	46.1	86.1

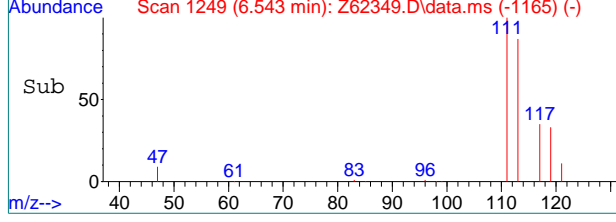
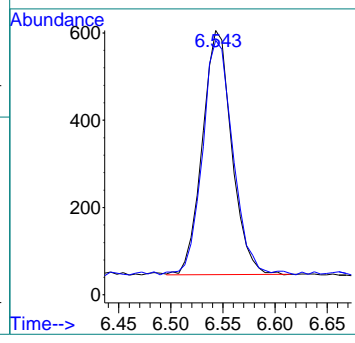
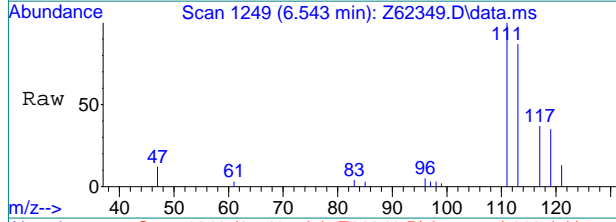


7.1.30  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.08 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62349.D  
 Acq: 14 Sep 2020 10:26 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.6	75.5	115.5



7.1.30  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61330.d  
 Acq On : 13 Sep 2020 1:27 pm  
 Operator : stutip  
 Sample : fa78565-26  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 07:52:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	201101	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	156034	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.068	65	89385	5.50	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	110.00%	
19) Toluene-d8	8.896	98	170669	4.85	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	97.00%	
Target Compounds						
						Qvalue
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

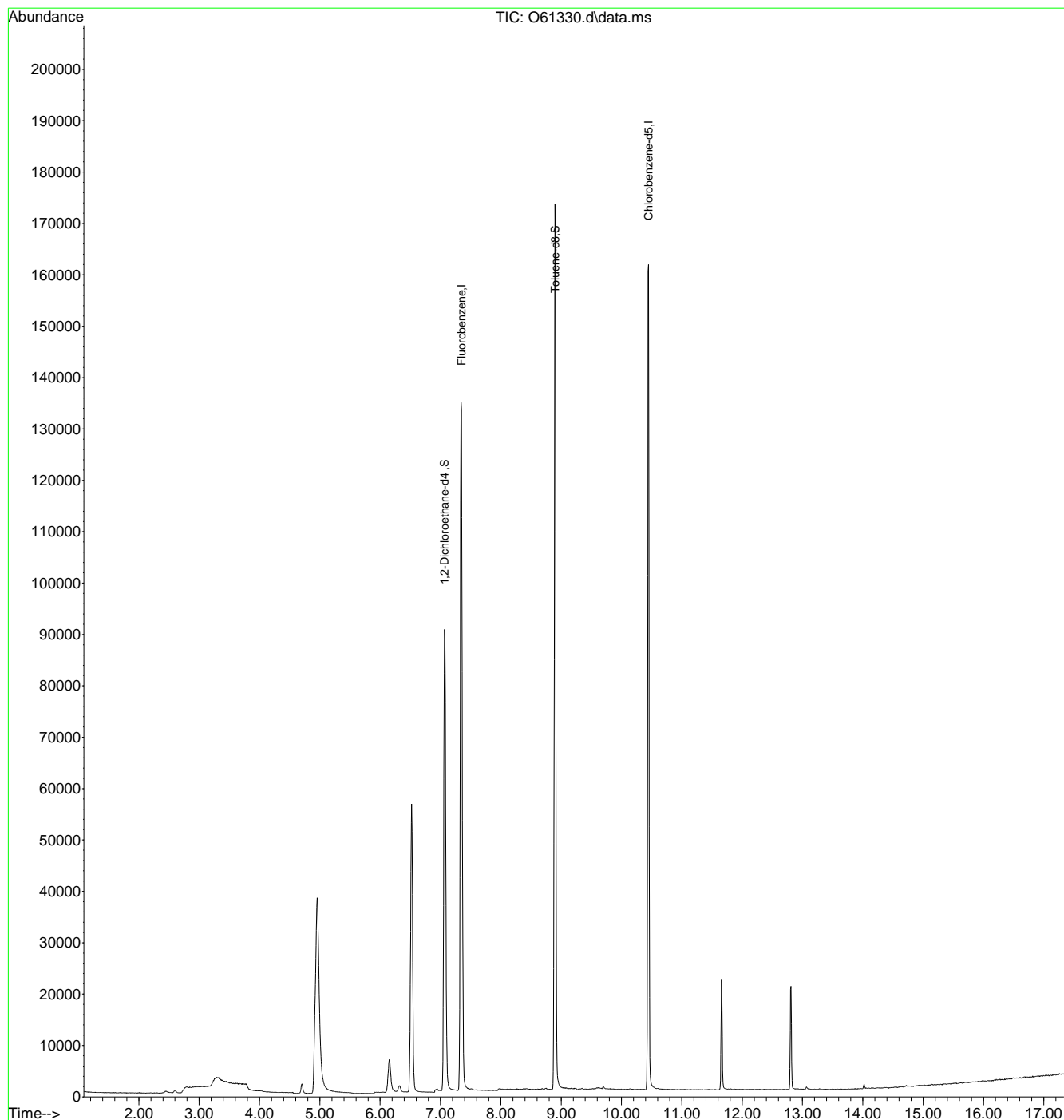
7.1.31  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61330.d  
 Acq On : 13 Sep 2020 1:27 pm  
 Operator : stutip  
 Sample : fa78565-26  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 07:52:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.31  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62359.D  
 Acq On : 15 Sep 2020 3:39 pm  
 Operator : JuanG  
 Sample : FA78565-26  
 Misc : MS47201,VZ2419,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 10:46:51 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

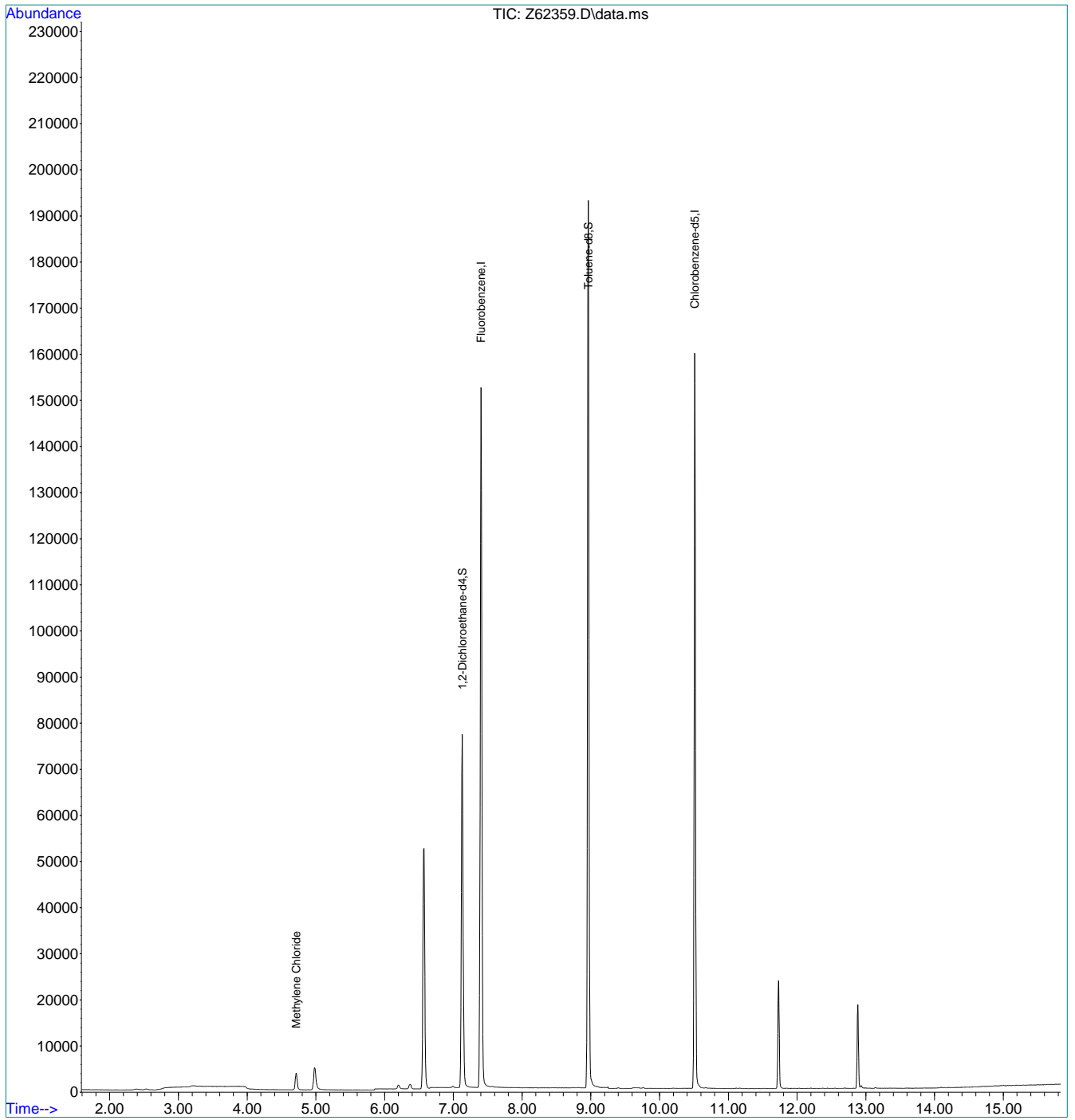
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1745743	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1426071	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	636247	5.89	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	117.80%
19) Toluene-d8	8.961	98	1689508	4.88	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
Target Compounds						
5) Methylene Chloride	4.713	84	25111	0.14	ppb	Qvalue 89
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

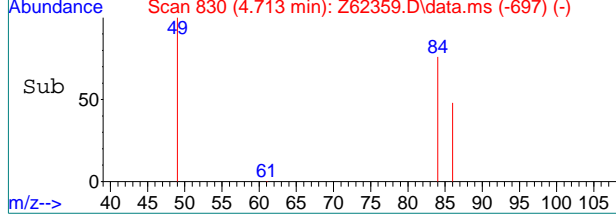
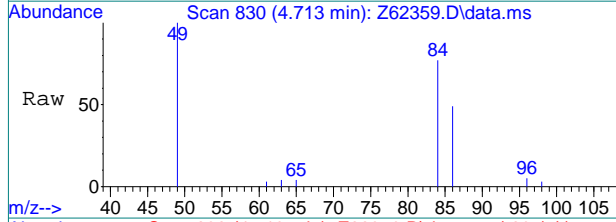
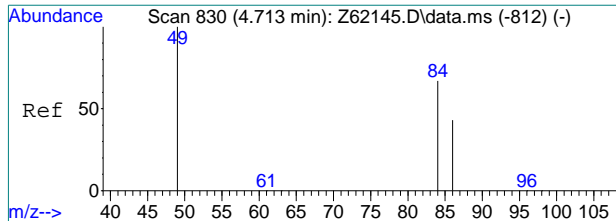
Data Path : C:\msdchem\1\data\091520\  
Data File : Z62359.D  
Acq On : 15 Sep 2020 3:39 pm  
Operator : JuanG  
Sample : FA78565-26  
Misc : MS47201,VZ2419,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 10:46:51 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.32  
7

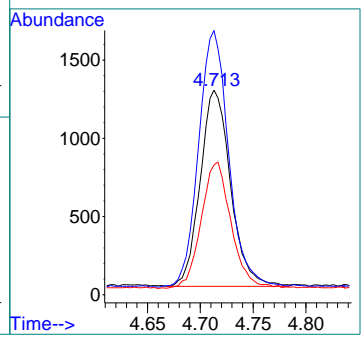




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62359.D  
 Acq: 15 Sep 2020 3:39 pm

Tgt Ion: 84 Resp: 25111

Ion	Ratio	Lower	Upper
84	100		
49	130.2	128.7	168.7
86	62.8	43.9	83.9



7.1.32  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61331.d  
 Acq On : 13 Sep 2020 1:48 pm  
 Operator : stutip  
 Sample : fa78565-27  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 08:33:20 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	201795	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	189821	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	88780	5.45	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	109.00%	
19) Toluene-d8	8.896	98	170247	3.98	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	79.60%#	

Target Compounds Qvalue

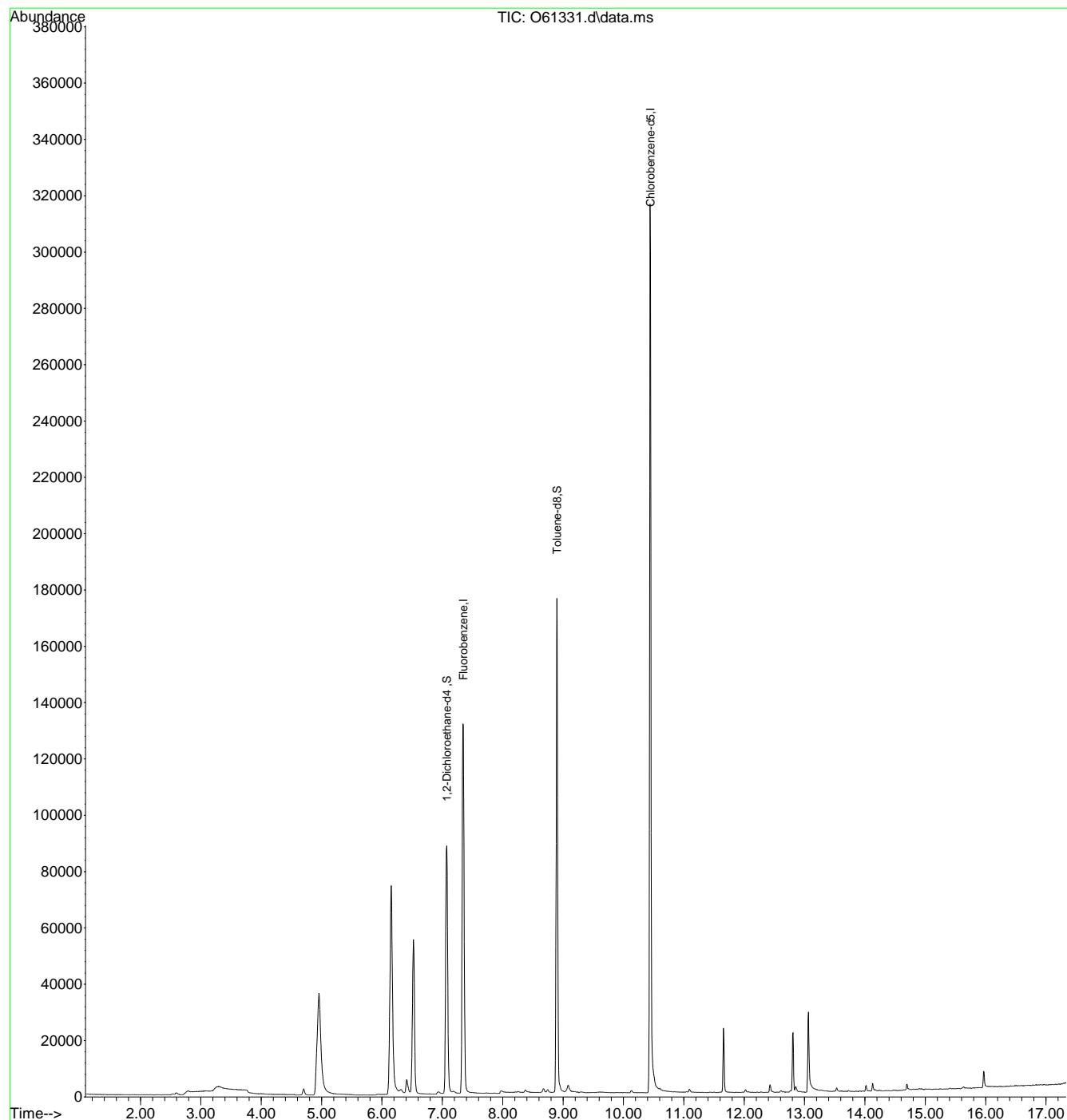
-----

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
Data File : O61331.d  
Acq On : 13 Sep 2020 1:48 pm  
Operator : stutip  
Sample : fa78565-27  
Misc : MS47201,VO2360,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 08:33:20 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
Data File : Z62360.D  
Acq On : 15 Sep 2020 3:58 pm  
Operator : JuanG  
Sample : FA78565-27  
Misc : MS47201,VZ2419,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 10:46:53 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1702720	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1418169	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	623630	5.92	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	118.40%
19) Toluene-d8	8.961	98	1647945	4.79	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
Target Compounds						
5) Methylene Chloride	4.717	84	24501	0.14	ppb	Qvalue 91
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

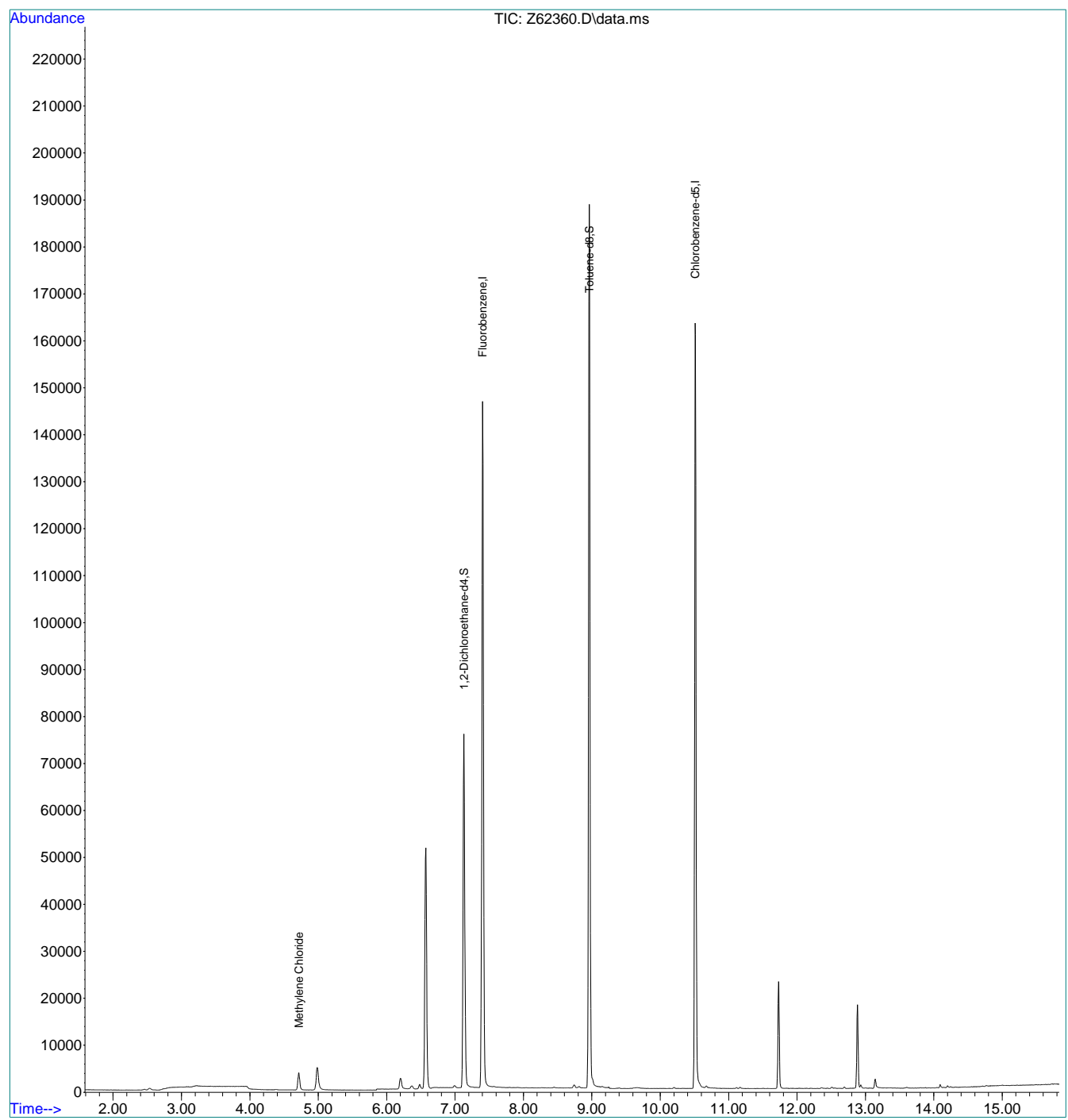
7.1.34  
7



Quantitation Report (QT Reviewed)

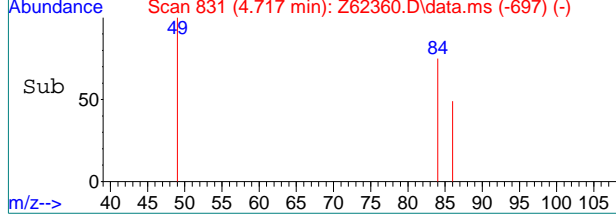
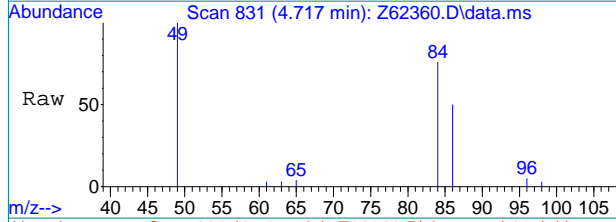
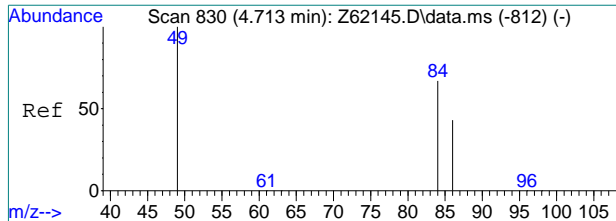
Data Path : C:\msdchem\1\data\091520\  
Data File : Z62360.D  
Acq On : 15 Sep 2020 3:58 pm  
Operator : JuanG  
Sample : FA78565-27  
Misc : MS47201,VZ2419,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 10:46:53 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.34  
7

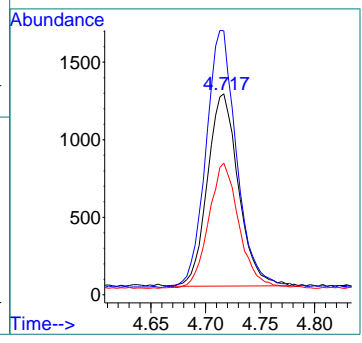




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62360.D  
 Acq: 15 Sep 2020 3:58 pm

Tgt Ion: 84 Resp: 24501

Ion	Ratio	Lower	Upper
84	100		
49	133.2	128.7	168.7
86	65.0	43.9	83.9



7.1.34  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2416\  
 Data File : Z62262.d  
 Acq On : 12 Sep 2020 6:44 pm  
 Operator : stutip  
 Sample : MB  
 Misc : MS47183,VZ2416,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 06:49:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1968793	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1562073	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	636992	5.23	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	104.60%
19) Toluene-d8	8.961	98	1933967	5.10	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
5) Methylene Chloride	4.717	84	37904	0.19	ppb	Qvalue # 86
-----						

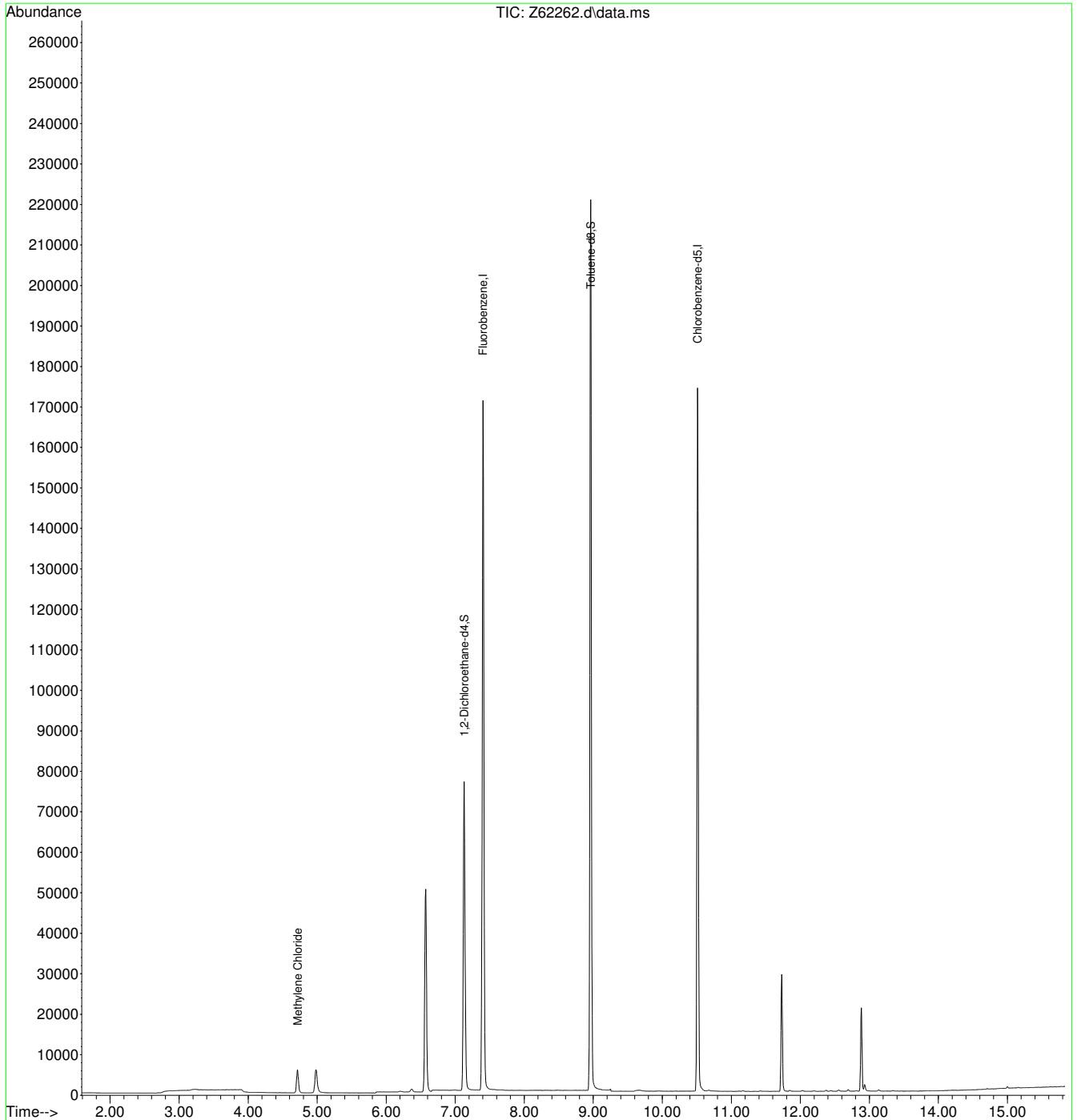
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.2.1  
7

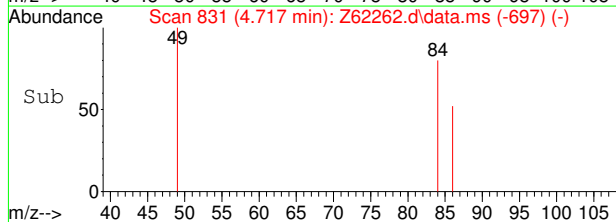
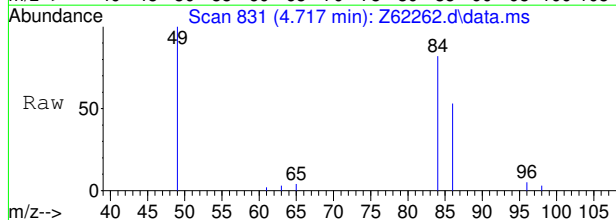
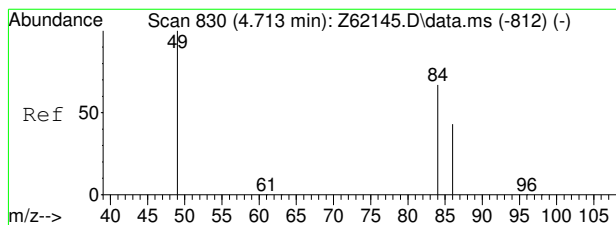
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62262.d  
 Acq On : 12 Sep 2020 6:44 pm  
 Operator : stutip  
 Sample : MB  
 Misc : MS47183,VZ2416,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 06:49:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

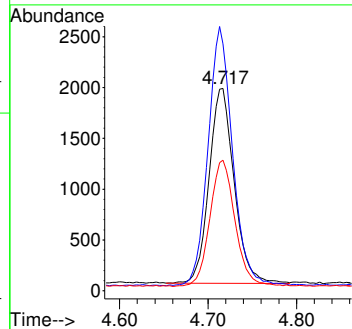


7.2.1  
7



#5  
 Methylene Chloride  
 Concen: 0.19 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62262.d  
 Acq: 12 Sep 2020 6:44 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	124.0	128.7	168.7#
86	64.5	43.9	83.9



7.2.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61296.d  
 Acq On : 12 Sep 2020 7:03 pm  
 Operator : stutip  
 Sample : mb  
 Misc : MS47192,VO2359,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 07:19:48 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

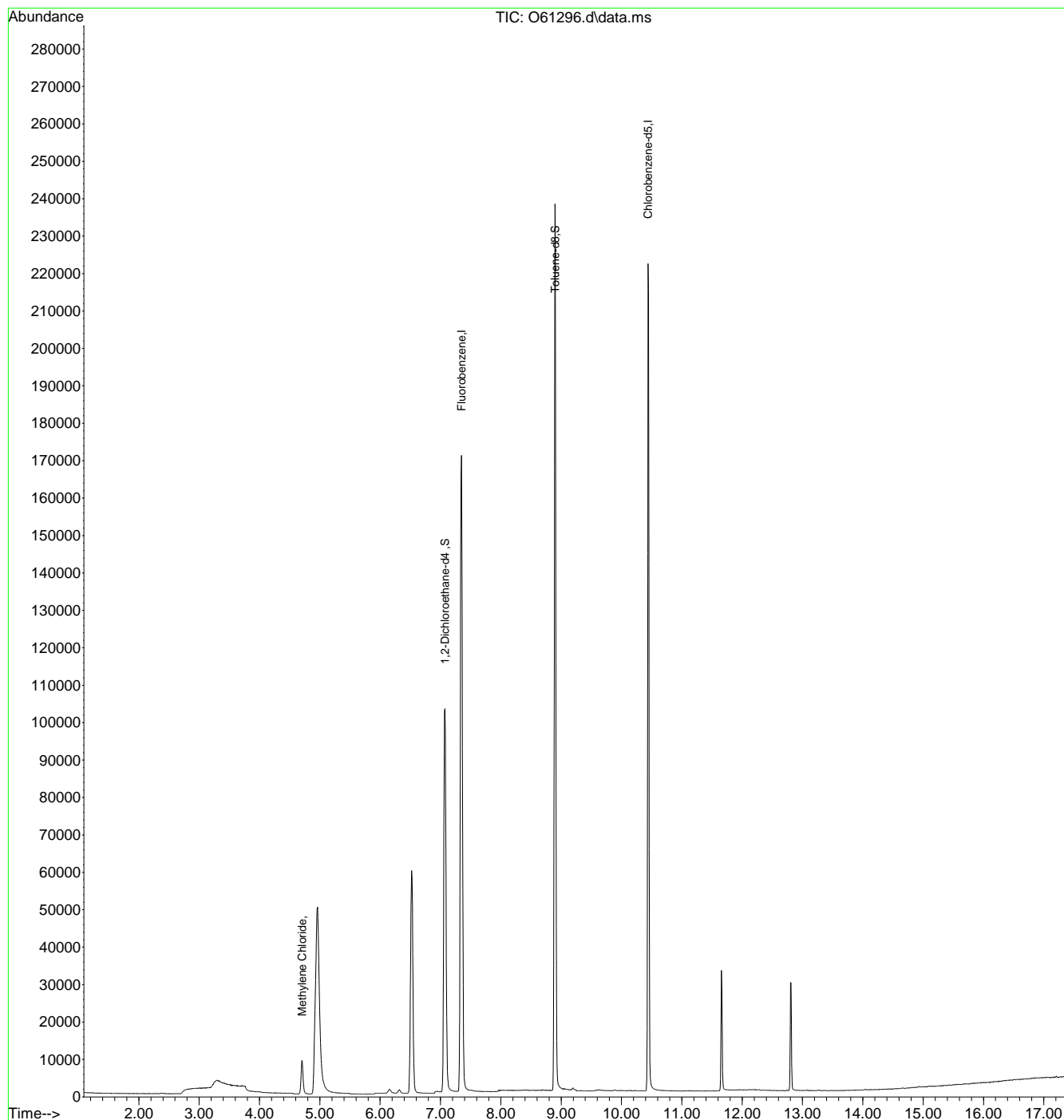
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	277430	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.441	117	211417	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	115062	5.13	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	102.60%	
19) Toluene-d8	8.896	98	240488	5.04	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	100.80%	
Target Compounds						
5) Methylene Chloride	4.703	49	12248	0.20	ug/L	Qvalue 97
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

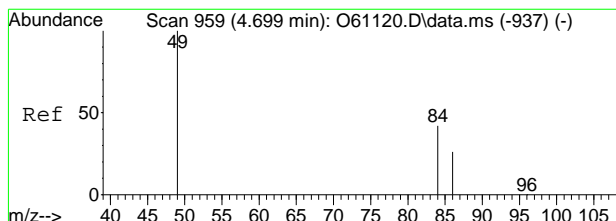
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
Data File : O61296.d  
Acq On : 12 Sep 2020 7:03 pm  
Operator : stutip  
Sample : mb  
Misc : MS47192,VO2359,,,,,  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 07:19:48 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

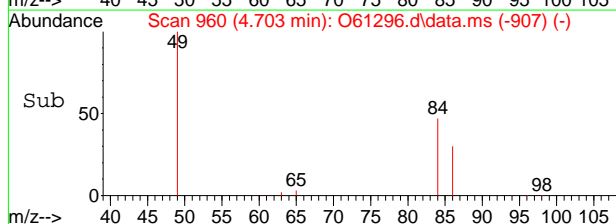
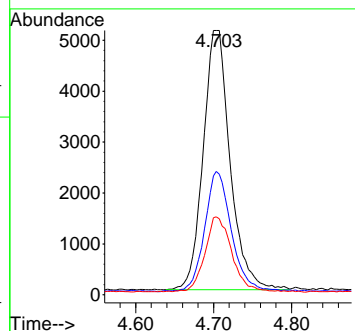
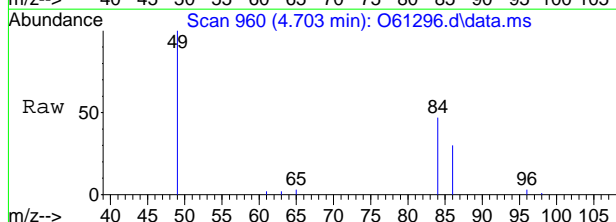


7.2.2  
7



#5  
 Methylene Chloride  
 Concen: 0.20 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.000 min  
 Lab File: O61296.d  
 Acq: 12 Sep 2020 7:03 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	45.8	17.9	77.9
86	28.8	0.0	59.8



7.22  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61328.d  
 Acq On : 13 Sep 2020 12:47 pm  
 Operator : stutip  
 Sample : mb  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 08:32:51 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	219622	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	169409	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	95368	5.38	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	107.60%	
19) Toluene-d8	8.896	98	187861	4.92	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.40%	

Target Compounds Qvalue

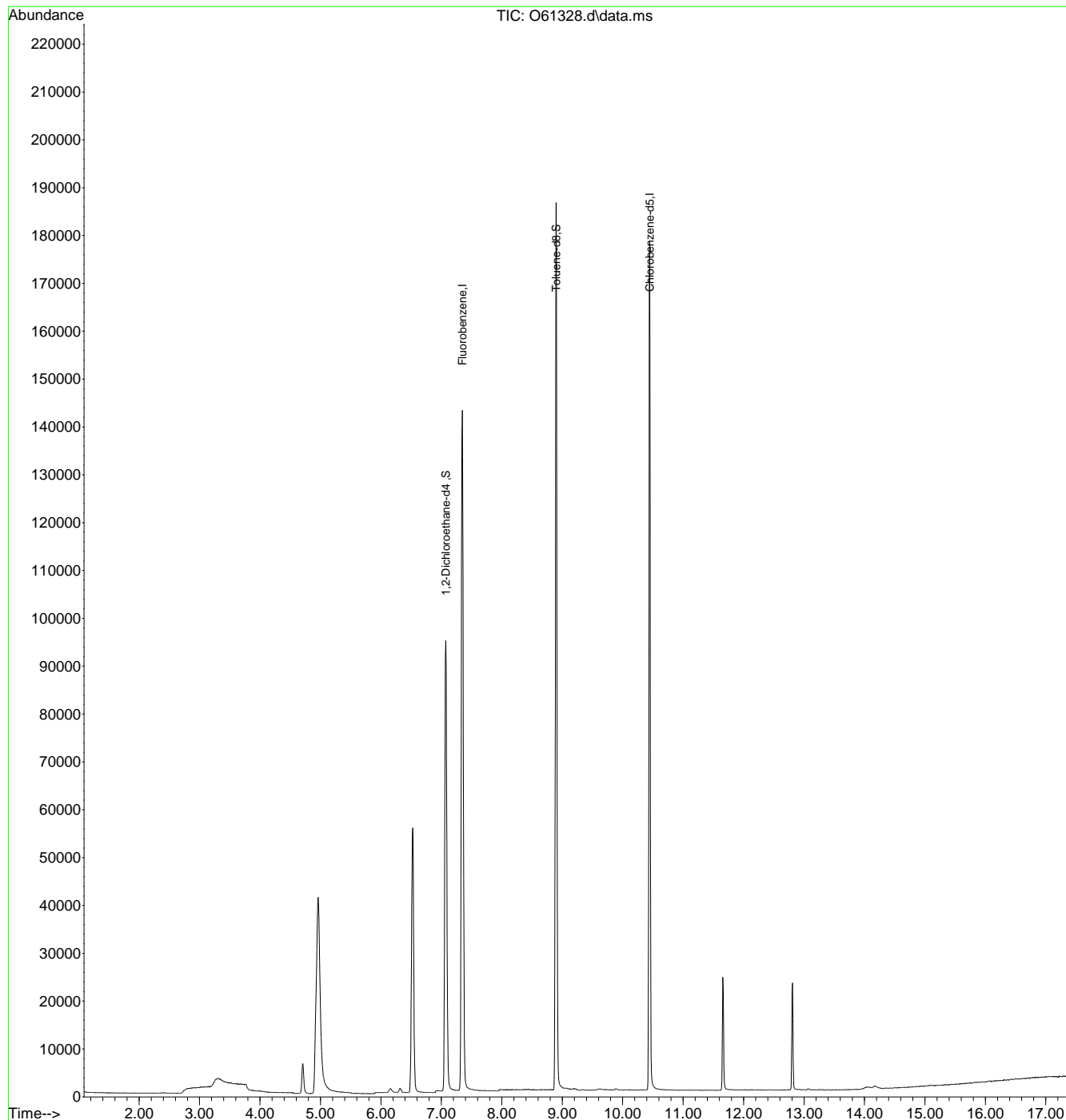
-----

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61328.d  
 Acq On : 13 Sep 2020 12:47 pm  
 Operator : stutip  
 Sample : mb  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 08:32:51 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.2.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62325.D  
 Acq On : 14 Sep 2020 1:57 pm  
 Operator : JuanG  
 Sample : MB  
 Misc : MS47199,VZ2417,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 15 18:50:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1691138	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1358393	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	586969	5.61	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	112.20%
19) Toluene-d8	8.961	98	1652313	5.01	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
Target Compounds						
5) Methylene Chloride	4.713	84	82977	0.50	ppb	Qvalue 91
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

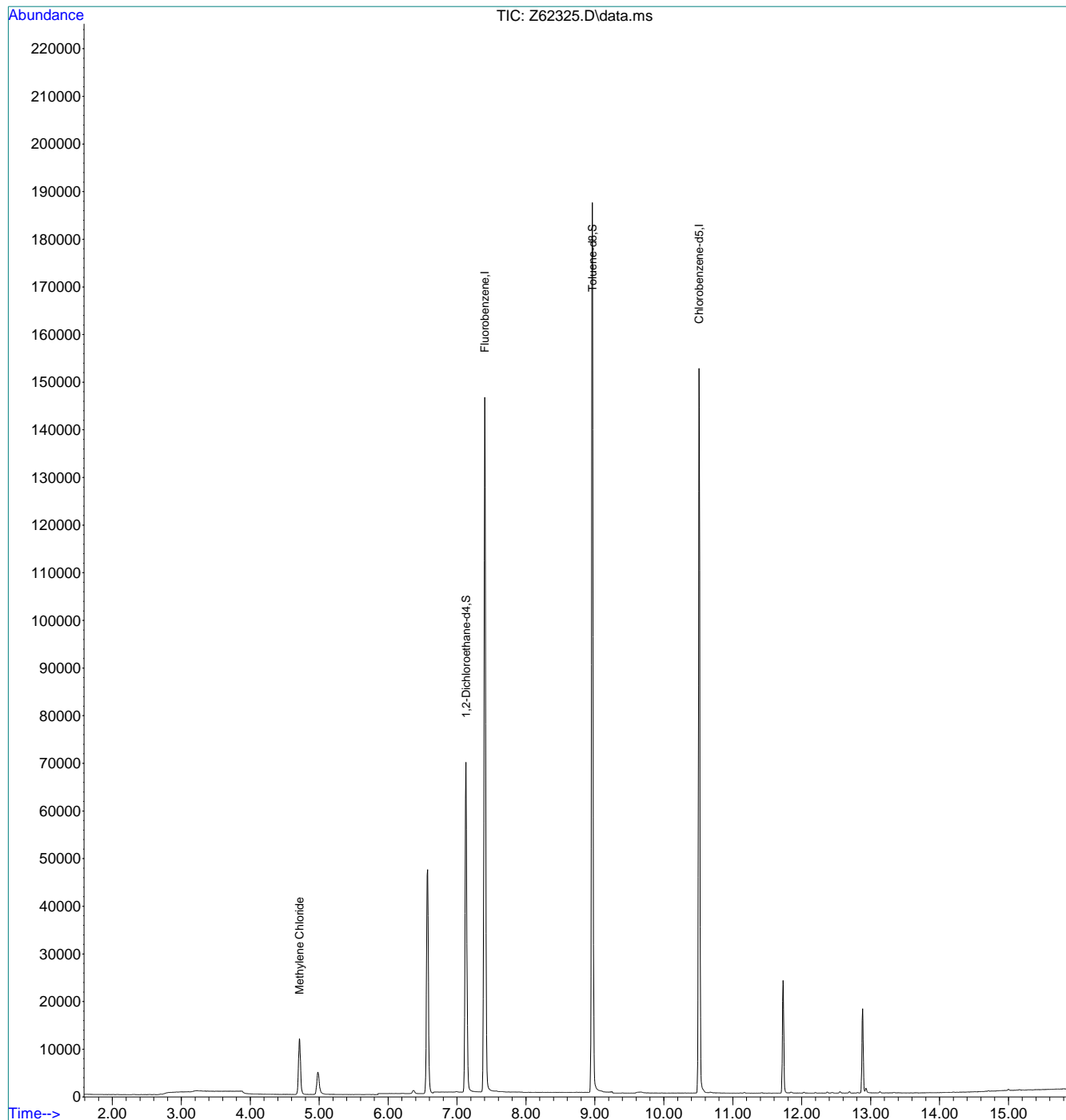
7.24

7

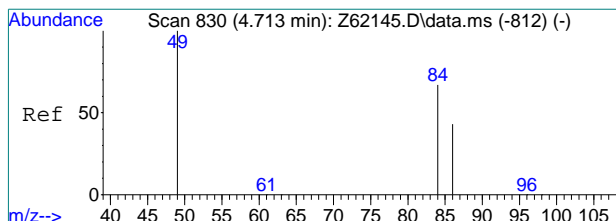
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
Data File : Z62325.D  
Acq On : 14 Sep 2020 1:57 pm  
Operator : JuanG  
Sample : MB  
Misc : MS47199,VZ2417,,,,,  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 15 18:50:24 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

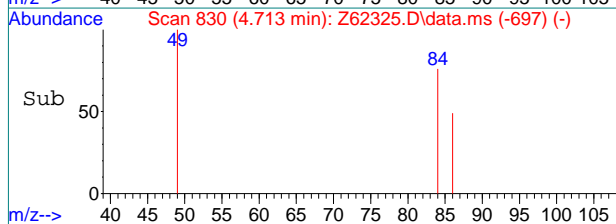
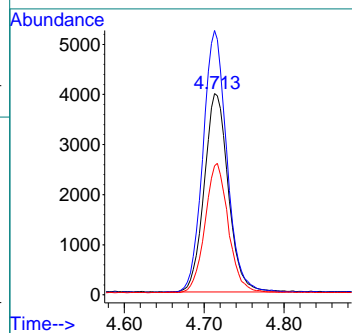
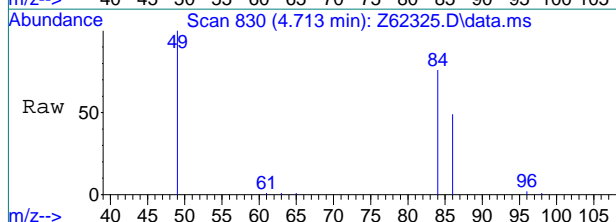


7.2.4  
7



#5  
 Methylene Chloride  
 Concen: 0.50 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62325.D  
 Acq: 14 Sep 2020 1:57 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	131.9	128.7	168.7
86	63.9	43.9	83.9



7.2.4  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62357.D  
 Acq On : 15 Sep 2020 2:55 pm  
 Operator : JuanG  
 Sample : MB  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 10:46:47 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1858608	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1502088	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	669468	5.82	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	116.40%
19) Toluene-d8	8.961	98	1803530	4.94	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
Target Compounds						
5) Methylene Chloride	4.713	84	192088	1.05	ppb	Qvalue 90
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

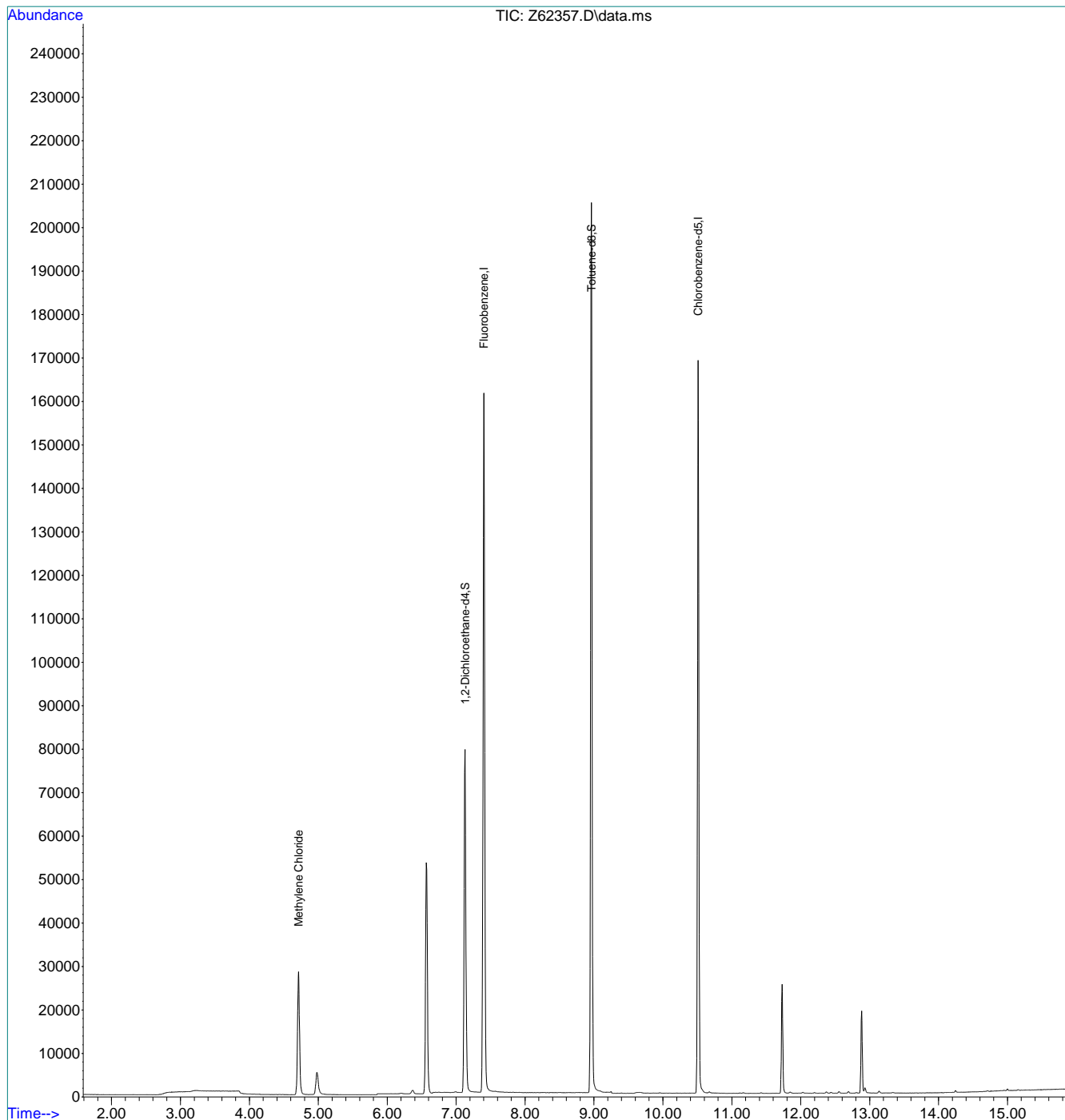
7.2.5  
7



Quantitation Report (QT Reviewed)

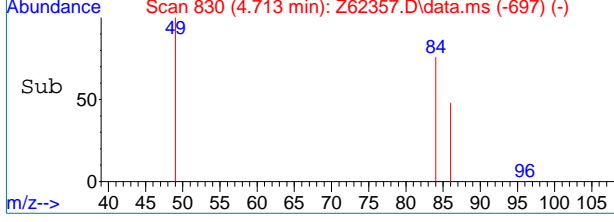
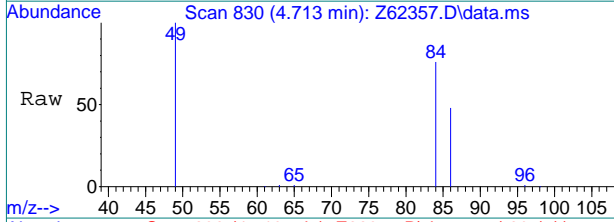
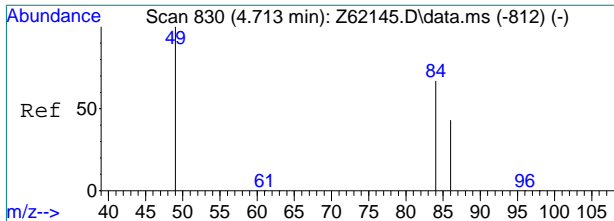
Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62357.D  
 Acq On : 15 Sep 2020 2:55 pm  
 Operator : JuanG  
 Sample : MB  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 10:46:47 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



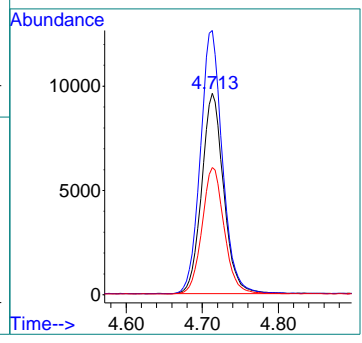
7.2.5  
7





#5  
 Methylene Chloride  
 Concen: 1.05 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62357.D  
 Acq: 15 Sep 2020 2:55 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	131.4	128.7	168.7
86	63.1	43.9	83.9



7.2.5  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62260.d  
 Acq On : 12 Sep 2020 6:05 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47183,VZ2416,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 06:49:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2046480	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1638604	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	654920	5.17	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.40%	
19) Toluene-d8	8.961	98	2008125	5.05	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%	
Target Compounds							
2) Vinyl Chloride	2.839	62	978392	5.75	ppb	100	Qvalue
3) Chloromethane	2.729	50	820684	5.78	ppb	100	
4) 1,1-Dichloroethene	4.087	96	642686	5.18	ppb	#	87
5) Methylene Chloride	4.713	84	842597	4.35	ppb	#	89
6) trans-1,2-Dichloroethene	4.886	96	785624	5.20	ppb		92
7) 1,1-Dichloroethane	5.546	63	1337288	5.22	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	825063	4.91	ppb		91
9) Chloroform	6.377	83	1510176	4.91	ppb		99
10) Carbon Tetrachloride	6.543	117	1025888	4.91	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1369847	5.08	ppb		99
12) Benzene	6.994	78	2981495	5.23	ppb		95
14) 1,2-Dichloroethane	7.198	62	1058214	4.93	ppb		100
15) Trichloroethene	7.564	95	904229	5.17	ppb		94
16) 1,2-Dichloropropane	8.105	63	723425	4.99	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	706088	4.48	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	584878	4.25	ppb		99
21) Tetrachloroethene	9.399	166	904342	4.85	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

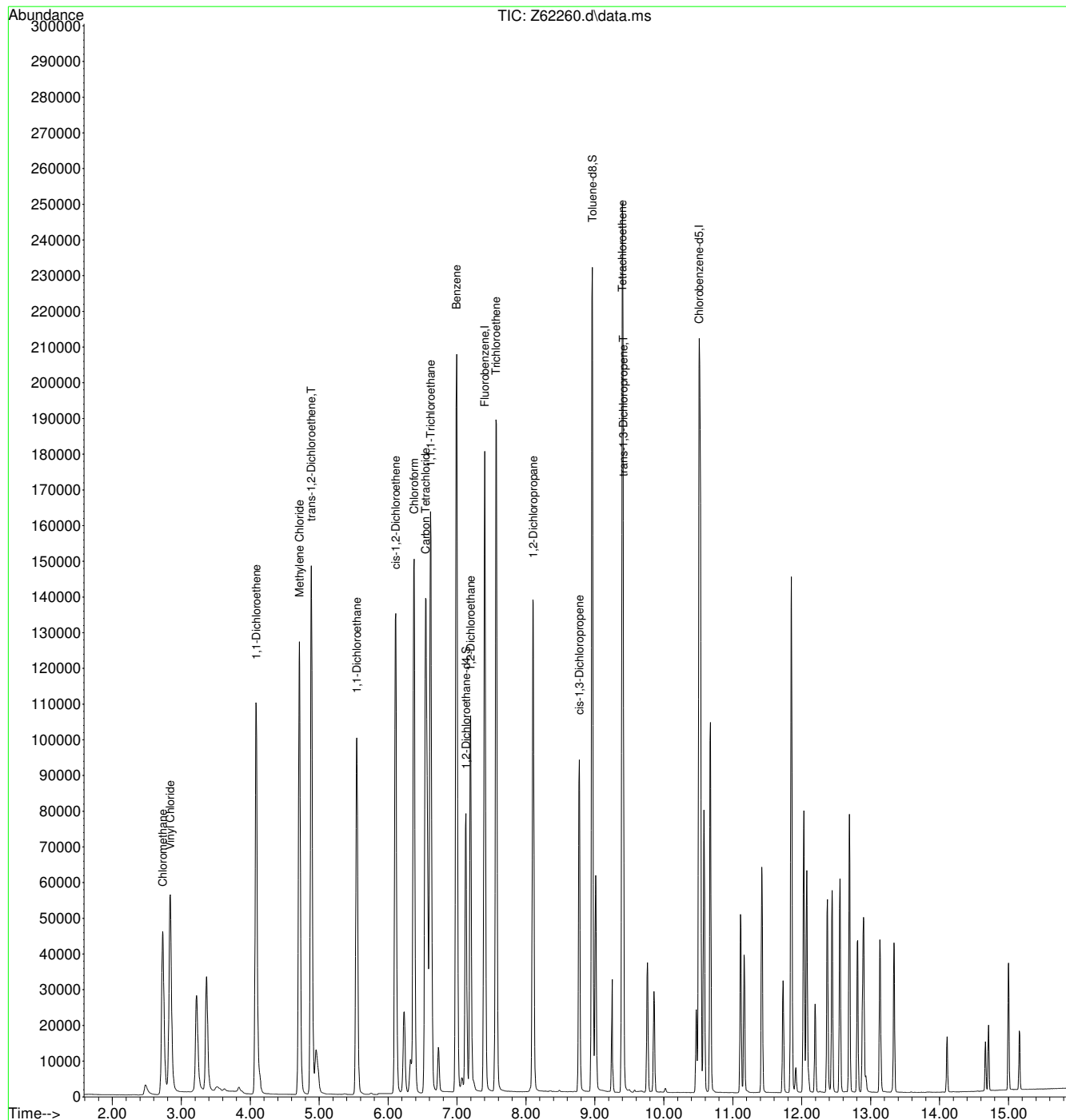
7.3.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62260.d  
 Acq On : 12 Sep 2020 6:05 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47183,VZ2416,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 06:49:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61295.d  
 Acq On : 12 Sep 2020 6:43 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47192,VO2359,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 07:55:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	312701	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	245098	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	123087	4.87	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	97.40%		
19) Toluene-d8	8.892	98	263721	4.77	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	177855	5.08	ug/L		98
3) Chloromethane	2.795	50	244219	4.73	ug/L		94
4) 1,1-Dichloroethene	4.085	61	233679	5.41	ug/L		92
5) Methylene Chloride	4.692	49	334956	4.95	ug/L		96
6) trans-1,2-Dichloroethene	4.862	61	259090	5.20	ug/L		85
7) 1,1-Dichloroethane	5.503	63	293586	5.06	ug/L		100
8) cis-1,2-Dichloroethene	6.060	96	137790	4.81	ug/L		83
9) Chloroform	6.321	83	239244	4.80	ug/L		97
10) Carbon Tetrachloride	6.505	117	170875	5.02	ug/L		88
11) 1,1,1-Trichloroethane	6.570	97	186211	4.84	ug/L		92
12) Benzene	6.931	78	484068m	5.02	ug/L		
14) 1,2-Dichloroethane	7.133	62	224578	4.76	ug/L		92
15) Trichloroethene	7.512	95	144819	4.93	ug/L		85
16) 1,2-Dichloropropane	8.036	63	161802	5.02	ug/L		94
17) cis-1,3-Dichloropropene	8.707	75	156203	4.67	ug/L		97
20) trans-1,3-Dichloropropene	9.337	75	152362	4.73	ug/L		100
21) Tetrachloroethene	9.337	166	136480	5.09	ug/L		97
22) 1,4-Dichlorobenzene	12.821	146	276341	4.87	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	48832	4.83	ug/L		90

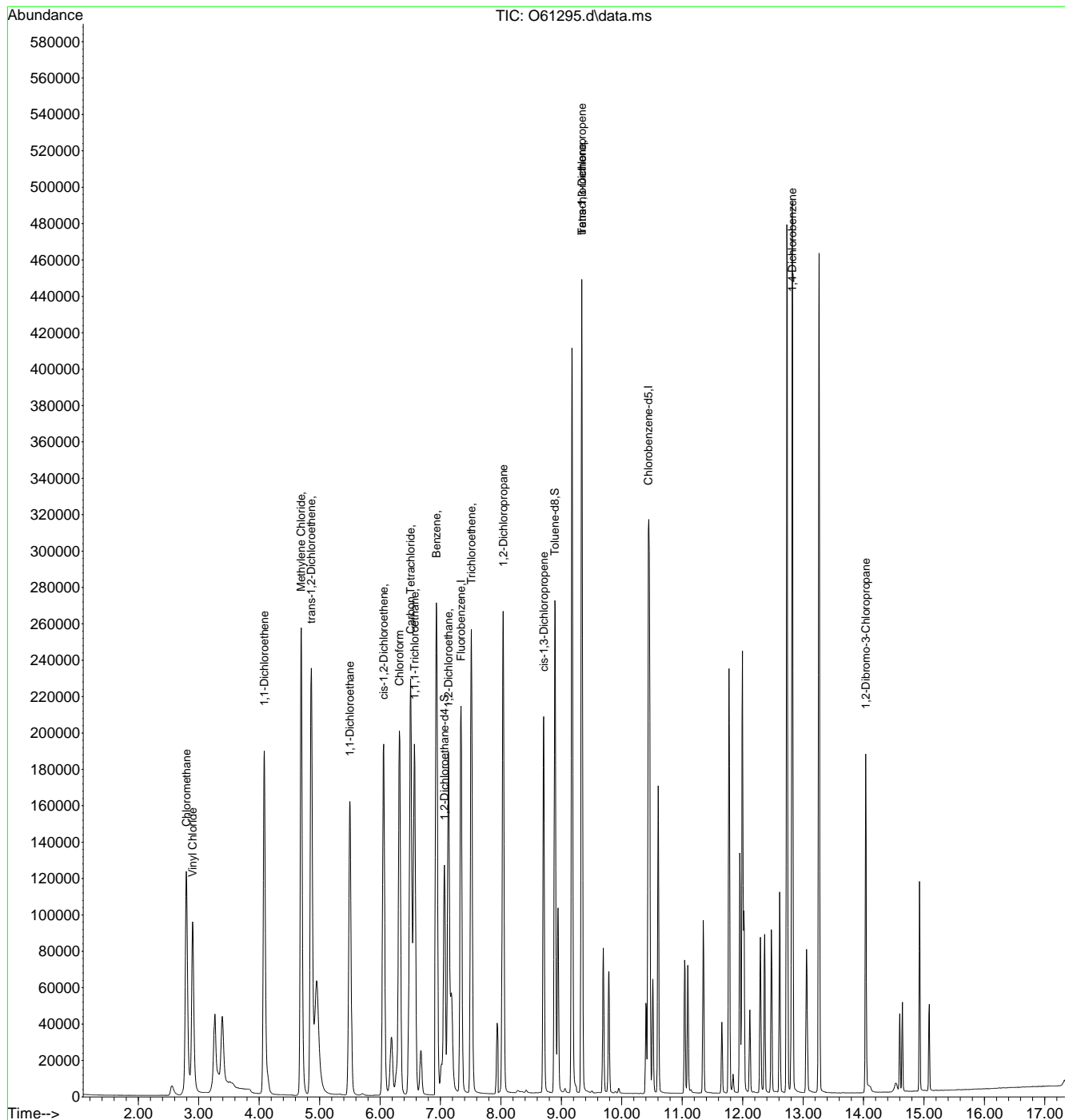
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.32  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61295.d  
 Acq On : 12 Sep 2020 6:43 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47192,VO2359,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 07:55:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.3.2  
7

# Manual Integration Approval Summary

**Sample Number:** VO2359-BS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61295.D      **Analyst approved:** 09/14/20 08:16 Jennifer Ferreira  
**Injection Time:** 09/12/20 18:43      **Supervisor approved:** 09/14/20 13:42 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.93	Poor instrument integration

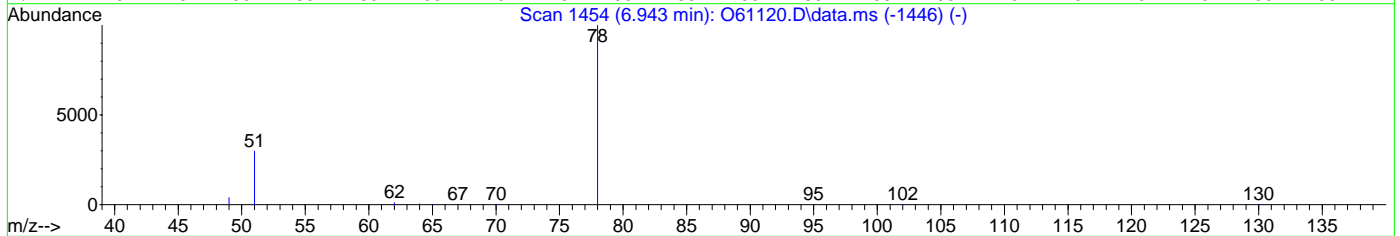
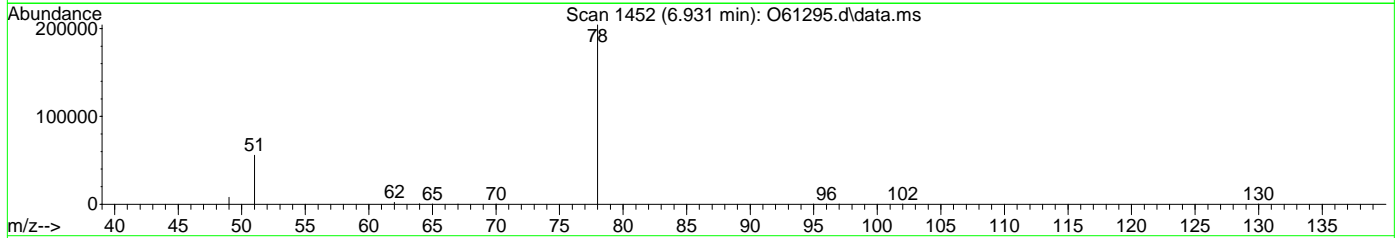
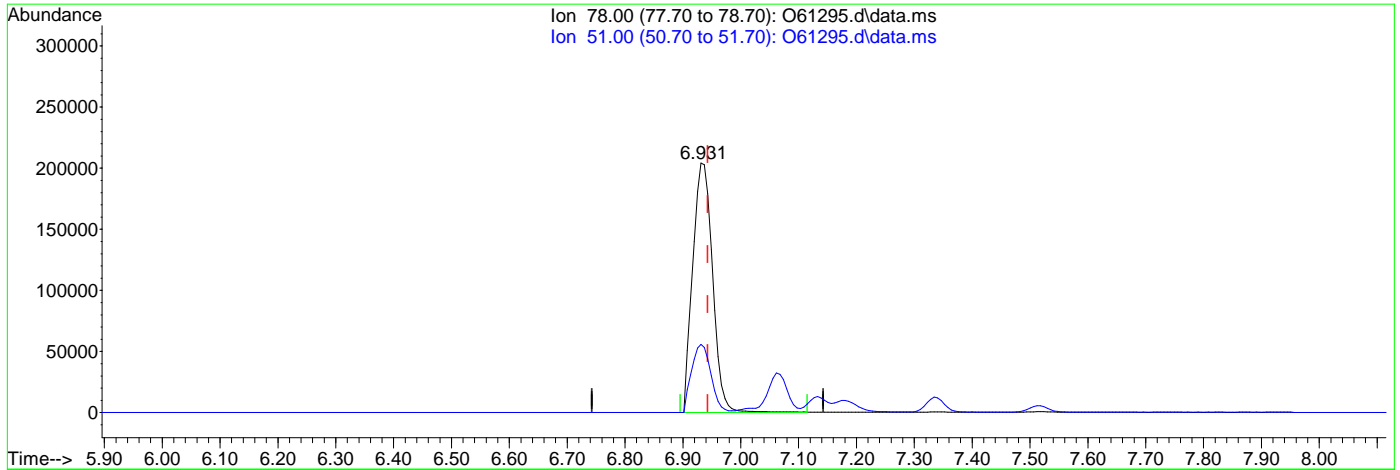
7.3.2.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61295.d  
 Acq On : 12 Sep 2020 6:43 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47192,VO2359,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 07:19:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61295.d\data.ms

(12) Benzene ( )

6.931min (-0.012) 5.07ug/L

response 488935

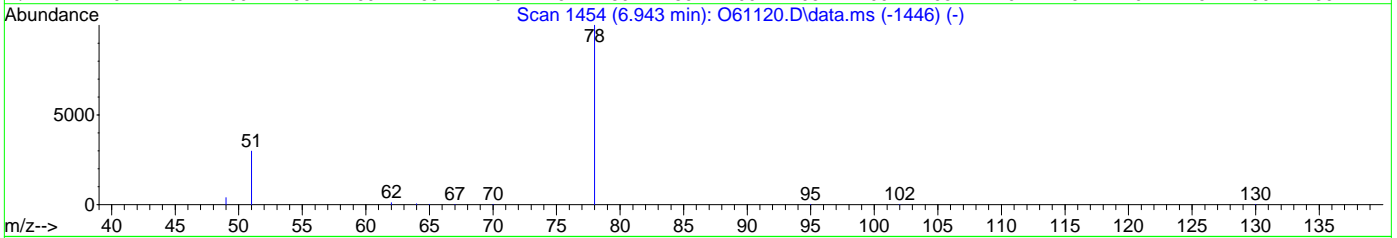
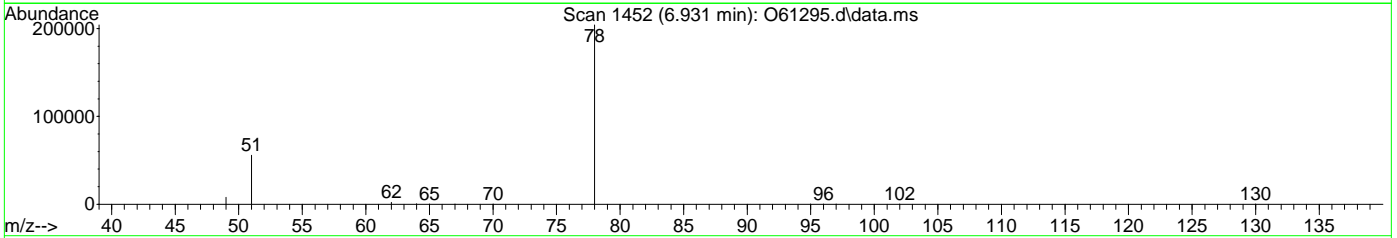
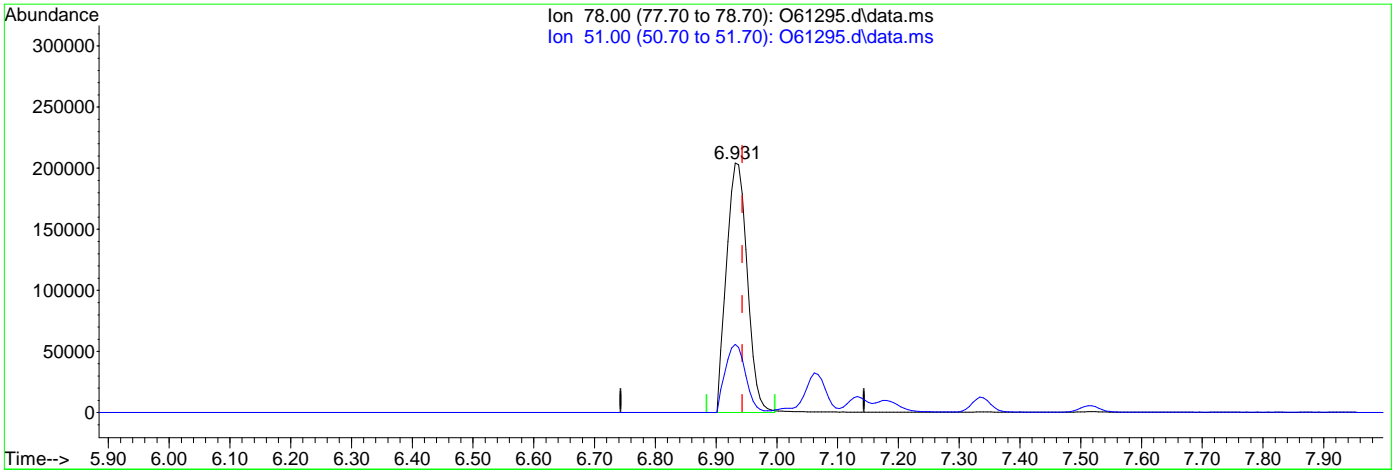
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.34
0.00	0.00	0.00
0.00	0.00	0.00

7.3.2.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61295.d  
 Acq On : 12 Sep 2020 6:43 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47192,VO2359,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 07:19:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.931min (-0.012) 5.02ug/L m

response 484068

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.34
0.00	0.00	0.00
0.00	0.00	0.00

7.3.2.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61326.d  
 Acq On : 13 Sep 2020 12:06 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 08:32:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	283212	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	224536	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	111453	4.87	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	97.40%		
19) Toluene-d8	8.896	98	232872	4.60	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	158277	4.99	ug/L		98
3) Chloromethane	2.799	50	216910	4.63	ug/L		94
4) 1,1-Dichloroethene	4.085	61	232185	5.93	ug/L		91
5) Methylene Chloride	4.696	49	326524	5.32	ug/L		95
6) trans-1,2-Dichloroethene	4.865	61	252580	5.59	ug/L		86
7) 1,1-Dichloroethane	5.506	63	286435	5.46	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	132538	5.11	ug/L		84
9) Chloroform	6.327	83	232001	5.14	ug/L		95
10) Carbon Tetrachloride	6.505	117	165675	5.38	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	180403	5.18	ug/L		92
12) Benzene	6.937	78	472163m	5.40	ug/L		
14) 1,2-Dichloroethane	7.139	62	216124	5.06	ug/L		93
15) Trichloroethene	7.512	95	140453	5.27	ug/L		86
16) 1,2-Dichloropropane	8.040	63	155545	5.33	ug/L		94
17) cis-1,3-Dichloropropene	8.707	75	147095	4.86	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	143008	4.85	ug/L		98
21) Tetrachloroethene	9.337	166	132501	5.39	ug/L		96
22) 1,4-Dichlorobenzene	12.821	146	268960	5.17	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	42314	4.58	ug/L		86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

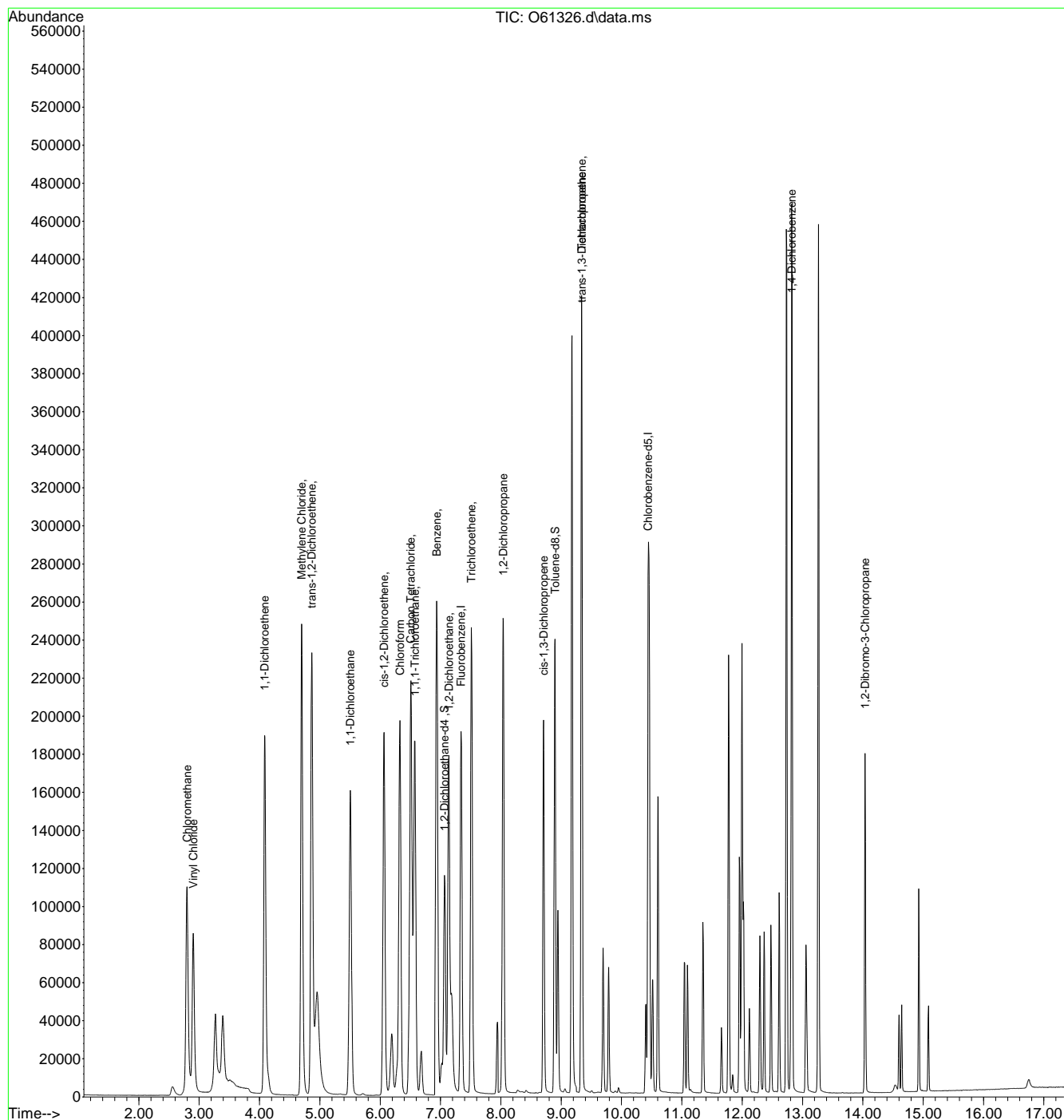
7.3.3  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61326.d  
 Acq On : 13 Sep 2020 12:06 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 08:32:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.3.3  
7



# Manual Integration Approval Summary

**Sample Number:** VO2360-BS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61326.D      **Analyst approved:** 09/14/20 08:47 Jennifer Ferreira  
**Injection Time:** 09/13/20 12:06      **Supervisor approved:** 09/14/20 13:35 Melissa Mangual

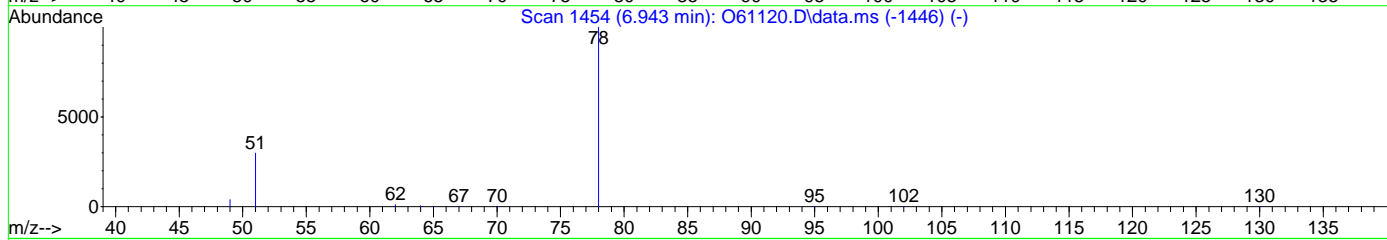
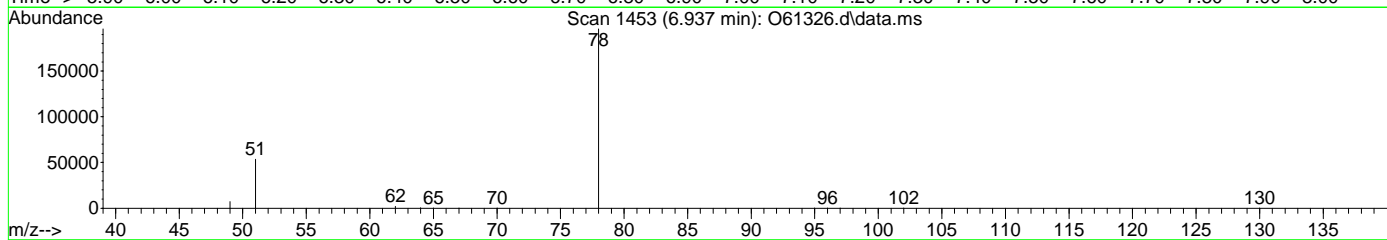
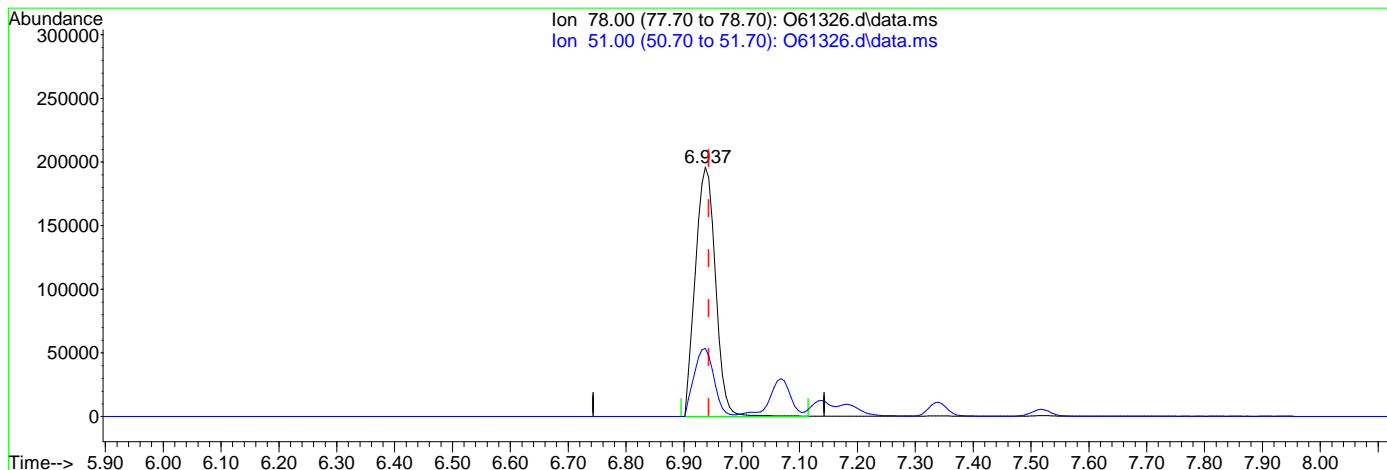
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.3.3.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61326.d  
 Acq On : 13 Sep 2020 12:06 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:52:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.44ug/L

response 475520

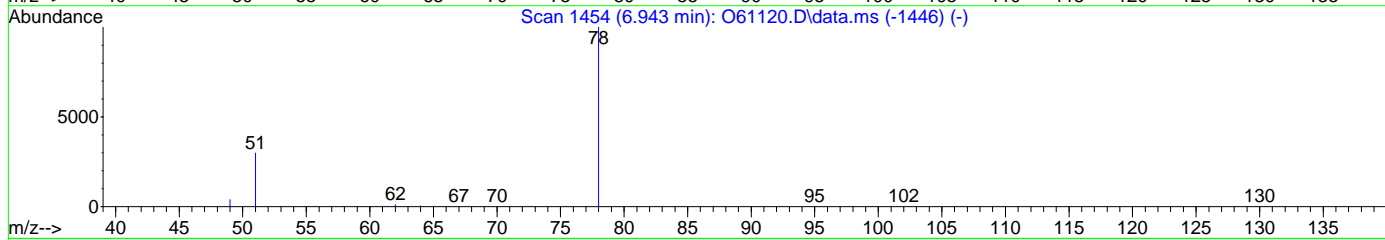
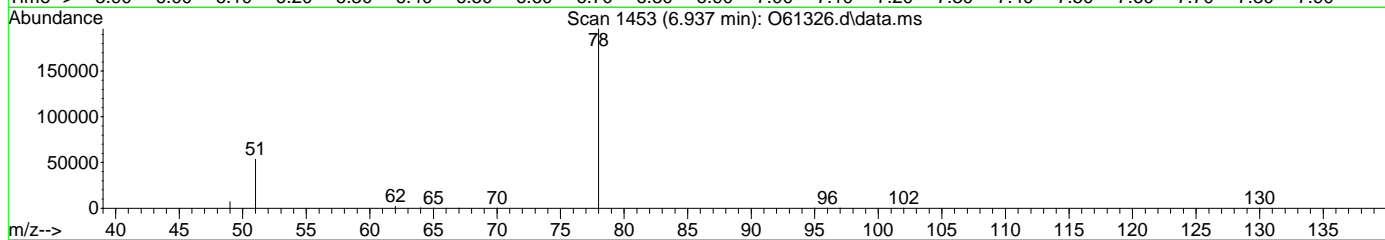
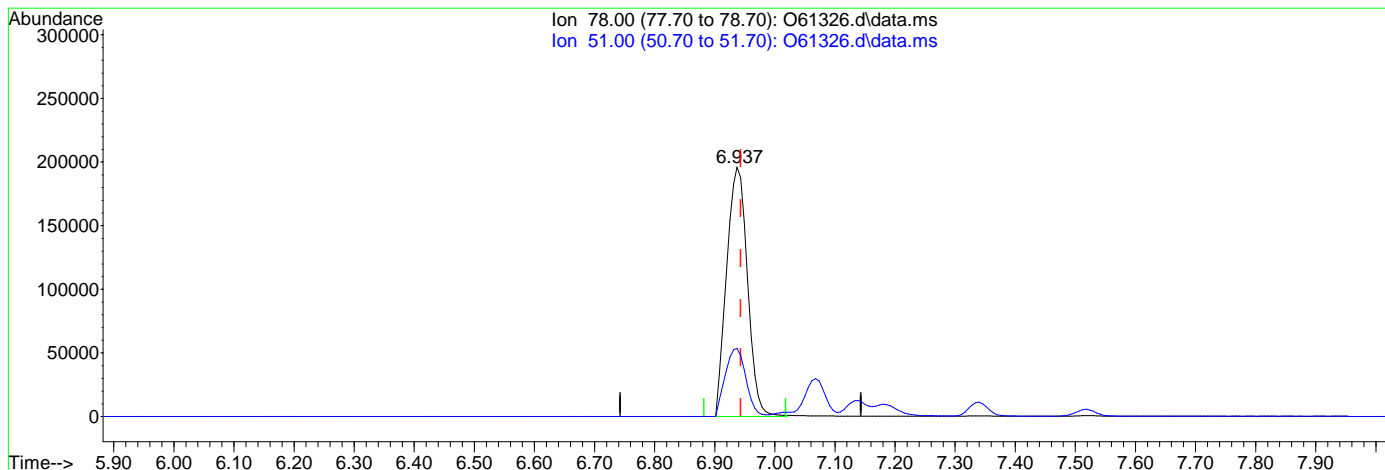
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.28
0.00	0.00	0.00
0.00	0.00	0.00

7.3.3.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61326.d  
 Acq On : 13 Sep 2020 12:06 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:52:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.40ug/L m

response 472163

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.28
0.00	0.00	0.00
0.00	0.00	0.00

7.3.3.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62323.D  
 Acq On : 14 Sep 2020 1:18 pm  
 Operator : JuanG  
 Sample : BS  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 18:50:20 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1802196	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1471249	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	612575	5.49	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	109.80%		
19) Toluene-d8	8.958	98	1750191	4.90	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	98.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	935650	6.24	ppb		99
3) Chloromethane	2.737	50	848544	6.70	ppb		100
4) 1,1-Dichloroethene	4.083	96	633900	5.80	ppb	#	89
5) Methylene Chloride	4.709	84	874936	5.18	ppb		91
6) trans-1,2-Dichloroethene	4.883	96	786014	5.91	ppb		93
7) 1,1-Dichloroethane	5.543	63	1365965	6.05	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	807368	5.46	ppb		95
9) Chloroform	6.371	83	1541467	5.69	ppb		100
10) Carbon Tetrachloride	6.543	117	1052012	5.72	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1359082	5.73	ppb		99
12) Benzene	6.987	78	2983015	5.95	ppb		99
14) 1,2-Dichloroethane	7.191	62	1083005	5.73	ppb		100
15) Trichloroethene	7.564	95	881940	5.73	ppb		90
16) 1,2-Dichloropropane	8.101	63	719723	5.64	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	831618	5.87	ppb		99
20) trans-1,3-Dichloropropene	9.407	75	696612	5.61	ppb		100
21) Tetrachloroethene	9.399	166	888303	5.33	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

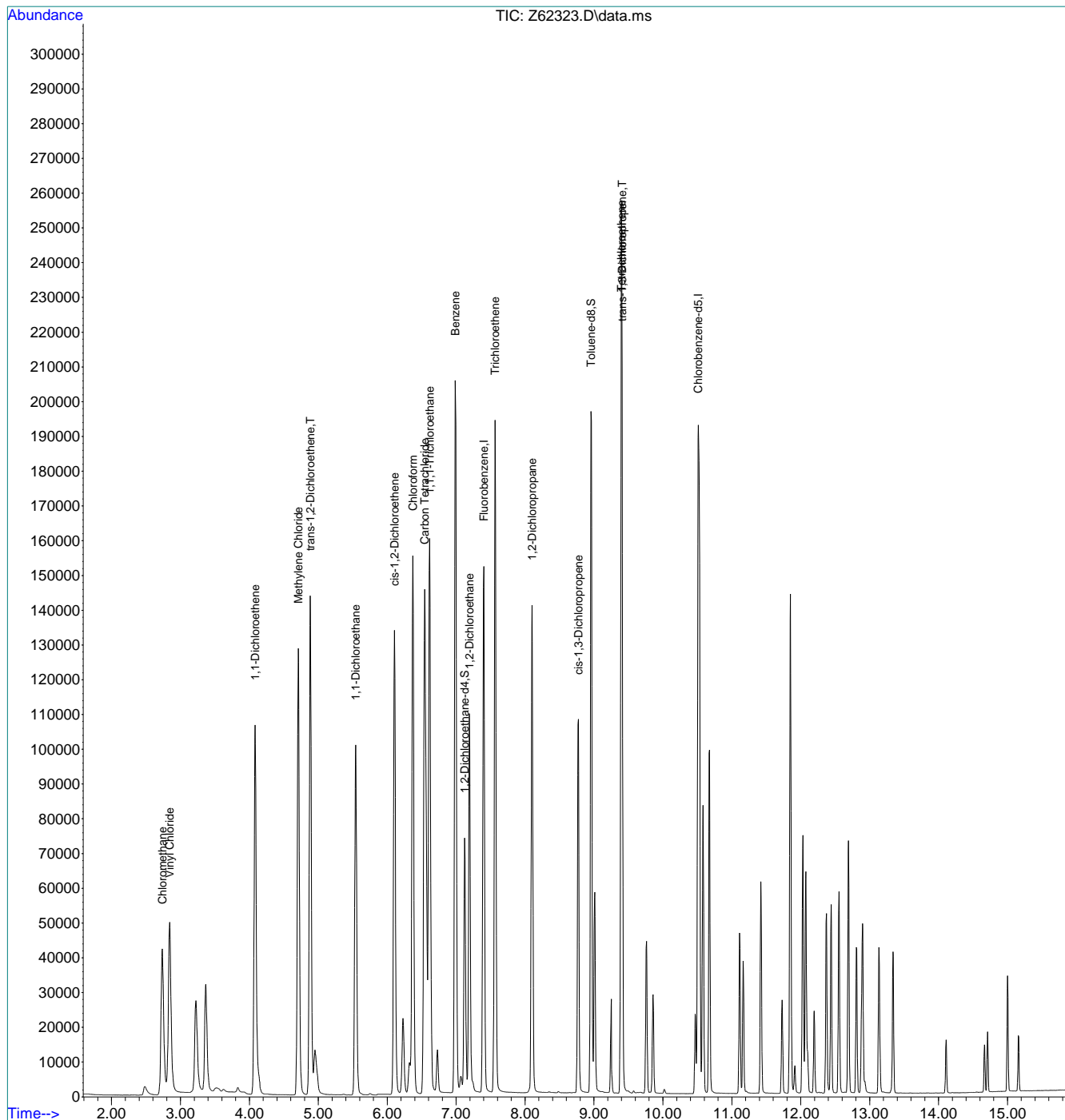
7.3.4  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62323.D  
 Acq On : 14 Sep 2020 1:18 pm  
 Operator : JuanG  
 Sample : BS  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 18:50:20 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.3.4  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62355.D  
 Acq On : 15 Sep 2020 2:17 pm  
 Operator : JuanG  
 Sample : BS  
 Misc : MS47199,VZ2419,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 10:46:43 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2106664	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1769955	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	730794	5.61	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	112.20%	
19) Toluene-d8	8.961	98	2045274	4.76	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1131645	6.45	ppb		100
3) Chloromethane	2.733	50	944173	6.40	ppb		99
4) 1,1-Dichloroethene	4.087	96	746051	5.84	ppb	#	88
5) Methylene Chloride	4.713	84	1004467	5.08	ppb		90
6) trans-1,2-Dichloroethene	4.886	96	885823	5.70	ppb		94
7) 1,1-Dichloroethane	5.546	63	1567250	5.94	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	910831	5.27	ppb		92
9) Chloroform	6.377	83	1777971	5.61	ppb		100
10) Carbon Tetrachloride	6.543	117	1141821	5.31	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1552196	5.60	ppb		99
12) Benzene	6.994	78	3434227	5.86	ppb		96
14) 1,2-Dichloroethane	7.198	62	1246624	5.64	ppb		100
15) Trichloroethene	7.571	95	1019225	5.66	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	832362	5.58	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	724596	4.47	ppb		98
20) trans-1,3-Dichloropropene	9.412	75	595469	4.01	ppb		98
21) Tetrachloroethene	9.399	166	1021546	5.08	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

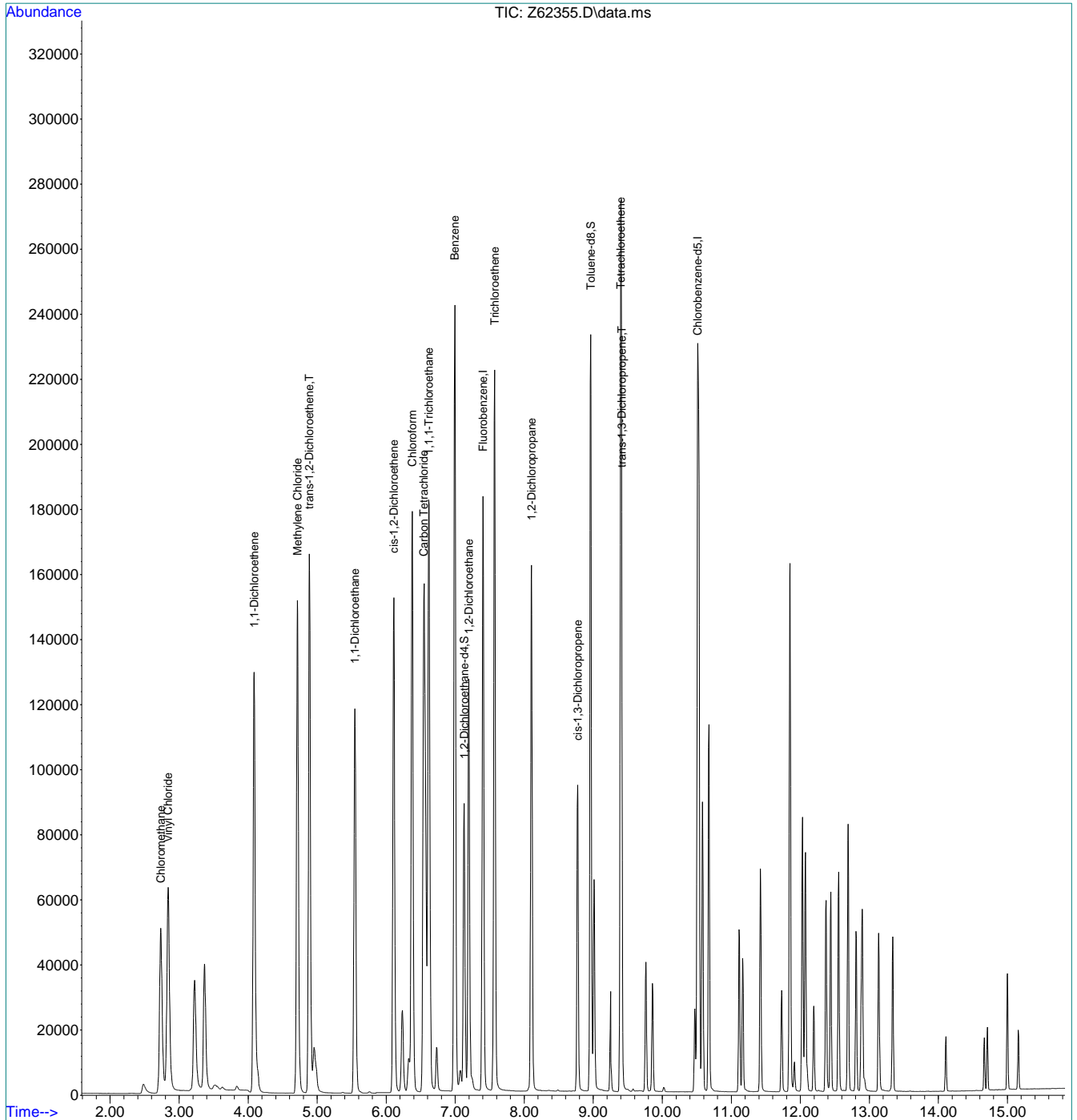
7.3.5  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62355.D  
 Acq On : 15 Sep 2020 2:17 pm  
 Operator : JuanG  
 Sample : BS  
 Misc : MS47199,VZ2419,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 10:46:43 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.3.5  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62283.d  
 Acq On : 13 Sep 2020 1:28 am  
 Operator : stutip  
 Sample : fa78565-1ms,10  
 Misc : MS47199,VZ2416,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 06:50:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1590891	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1317037	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	541773	5.51	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	110.20%	
19) Toluene-d8	8.961	98	1537378	4.81	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.831	62	795342	6.01	ppb		100
3) Chloromethane	2.726	50	646759	5.85	ppb		99
4) 1,1-Dichloroethene	4.083	96	539140	5.59	ppb		90
5) Methylene Chloride	4.713	84	754001	5.05	ppb		89
6) trans-1,2-Dichloroethene	4.886	96	652605	5.56	ppb		93
7) 1,1-Dichloroethane	5.546	63	1151858	5.78	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	681161	5.22	ppb		93
9) Chloroform	6.377	83	1310645	5.48	ppb		100
10) Carbon Tetrachloride	6.543	117	824989	5.08	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1156832	5.52	ppb		99
12) Benzene	6.994	78	2523681	5.70	ppb		96
14) 1,2-Dichloroethane	7.198	62	925310	5.54	ppb		100
15) Trichloroethene	7.571	95	788400	5.80	ppb	#	83
16) 1,2-Dichloropropane	8.105	63	617776	5.48	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	409942	3.40	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	338576	3.08	ppb		98
21) Tetrachloroethene	9.399	166	765016	5.12	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

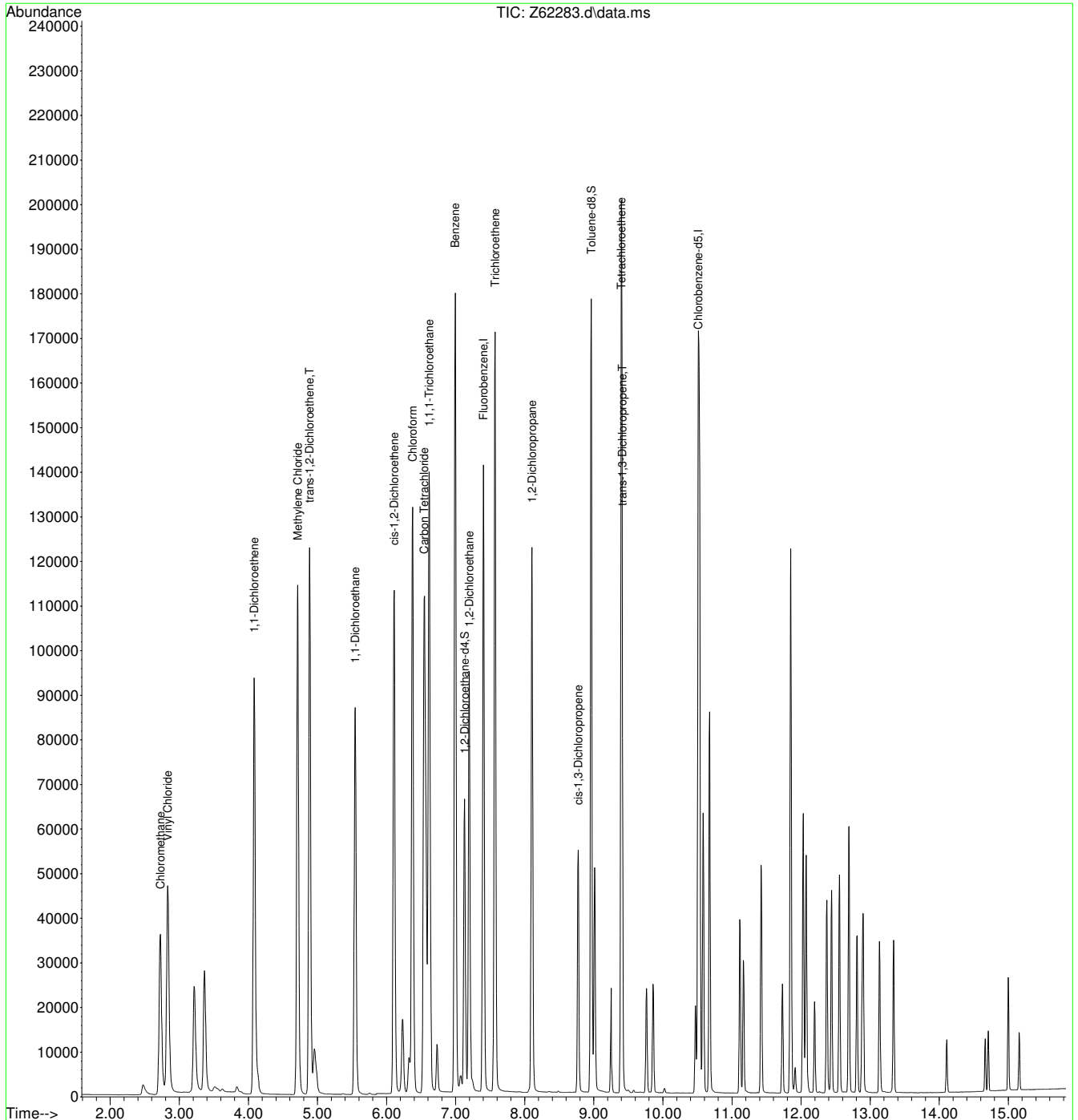
7.4.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62283.d  
 Acq On : 13 Sep 2020 1:28 am  
 Operator : stutip  
 Sample : fa78565-1ms,10  
 Misc : MS47199,VZ2416,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 06:50:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.4.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62284.d  
 Acq On : 13 Sep 2020 1:47 am  
 Operator : stutip  
 Sample : fa78565-1msd,10  
 Misc : MS47199,VZ2416,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 06:50:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

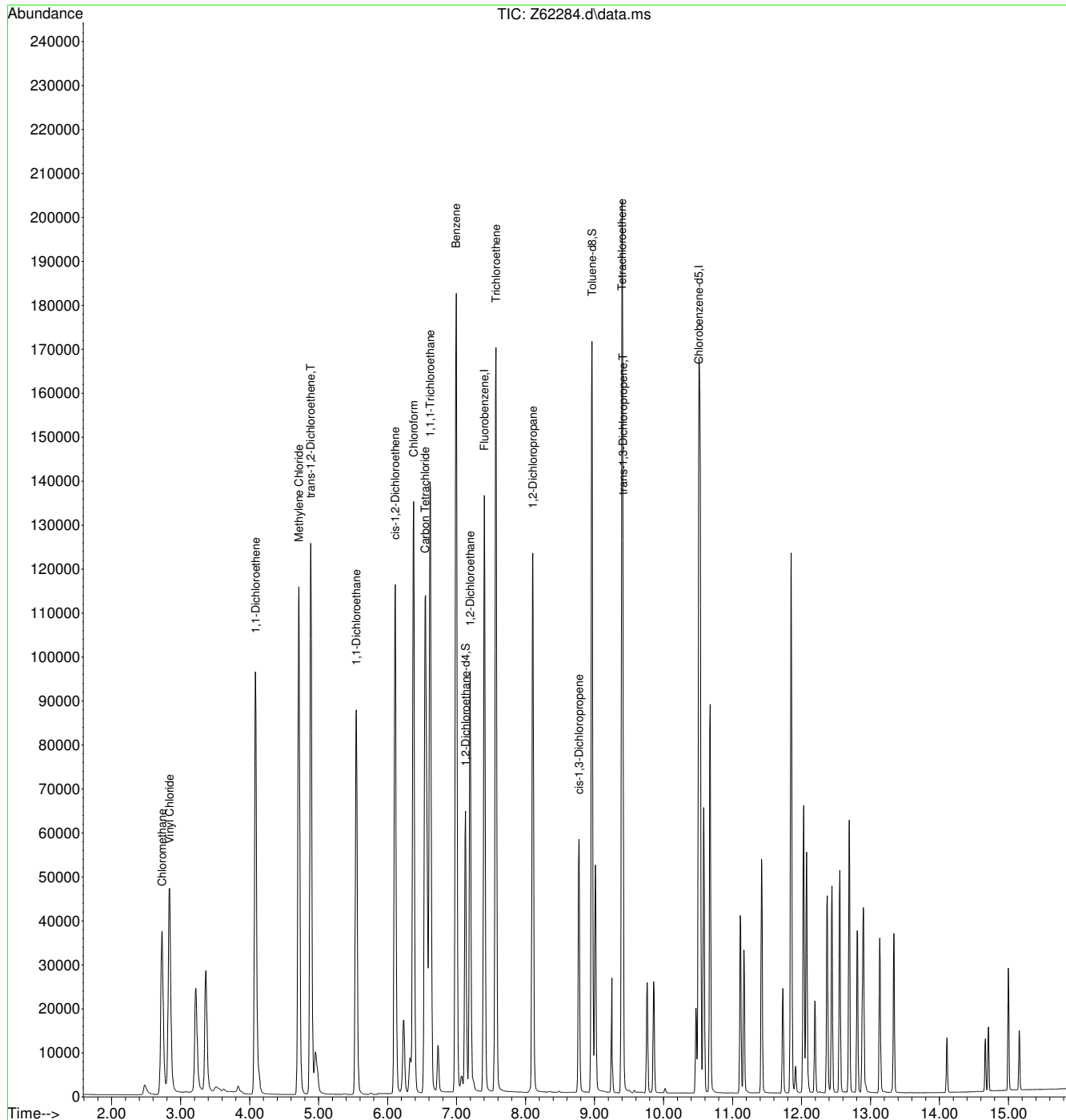
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Fluorobenzene	7.401	96	1551912	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1274043	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	526333	5.48	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	109.60%	
19) Toluene-d8	8.961	98	1495599	4.83	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%	
Target Compounds							
2) Vinyl Chloride	2.839	62	820402	6.35	ppb	99	Qvalue
3) Chloromethane	2.729	50	678743	6.26	ppb	99	
4) 1,1-Dichloroethene	4.087	96	557826	5.93	ppb	#	88
5) Methylene Chloride	4.713	84	765653	5.27	ppb		90
6) trans-1,2-Dichloroethene	4.886	96	670141	5.85	ppb		93
7) 1,1-Dichloroethane	5.546	63	1170358	6.02	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	698603	5.49	ppb		94
9) Chloroform	6.377	83	1331273	5.71	ppb		99
10) Carbon Tetrachloride	6.543	117	831889	5.25	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1177770	5.76	ppb		99
12) Benzene	6.994	78	2575963	5.96	ppb		96
14) 1,2-Dichloroethane	7.198	62	942901	5.79	ppb		100
15) Trichloroethene	7.571	95	793658	5.99	ppb	#	83
16) 1,2-Dichloropropane	8.105	63	628624	5.72	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	432480	3.67	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	367632	3.45	ppb		98
21) Tetrachloroethene	9.399	166	772914	5.36	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62284.d  
 Acq On : 13 Sep 2020 1:47 am  
 Operator : stutip  
 Sample : fa78565-1msd,10  
 Misc : MS47199,VZ2416,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 06:50:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.4.2  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61318.d  
 Acq On : 13 Sep 2020 2:33 am  
 Operator : stutip  
 Sample : fa78551-12ms,10  
 Misc : MS47193,VO2359,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 08:05:40 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	224584	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	184530	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	90998	5.02	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	100.40%		
19) Toluene-d8	8.896	98	180563	4.34	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	86.80%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.905	62	134860	5.38	ug/L		96
3) Chloromethane	2.799	50	195041	5.30	ug/L		95
4) 1,1-Dichloroethene	4.092	61	177782	5.73	ug/L		91
5) Methylene Chloride	4.703	49	276789	5.69	ug/L		94
6) trans-1,2-Dichloroethene	4.873	61	191275	5.34	ug/L		86
7) 1,1-Dichloroethane	5.514	63	261805	6.29	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	99765	4.85	ug/L		86
9) Chloroform	6.333	83	201224	5.62	ug/L		95
10) Carbon Tetrachloride	6.511	117	128546	5.26	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	141972	5.14	ug/L		91
12) Benzene	6.943	78	369236m	5.33	ug/L		
14) 1,2-Dichloroethane	7.139	62	172888	5.10	ug/L		94
15) Trichloroethene	7.512	95	114362	5.42	ug/L		88
16) 1,2-Dichloropropane	8.040	63	125585	5.42	ug/L		95
17) cis-1,3-Dichloropropene	8.711	75	102580	4.27	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	102614	4.23	ug/L		99
21) Tetrachloroethene	9.343	166	120424	5.95	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	218966	5.12	ug/L		96
23) 1,2-Dibromo-3-Chloropr...	14.038	75	29872	3.95	ug/L		85

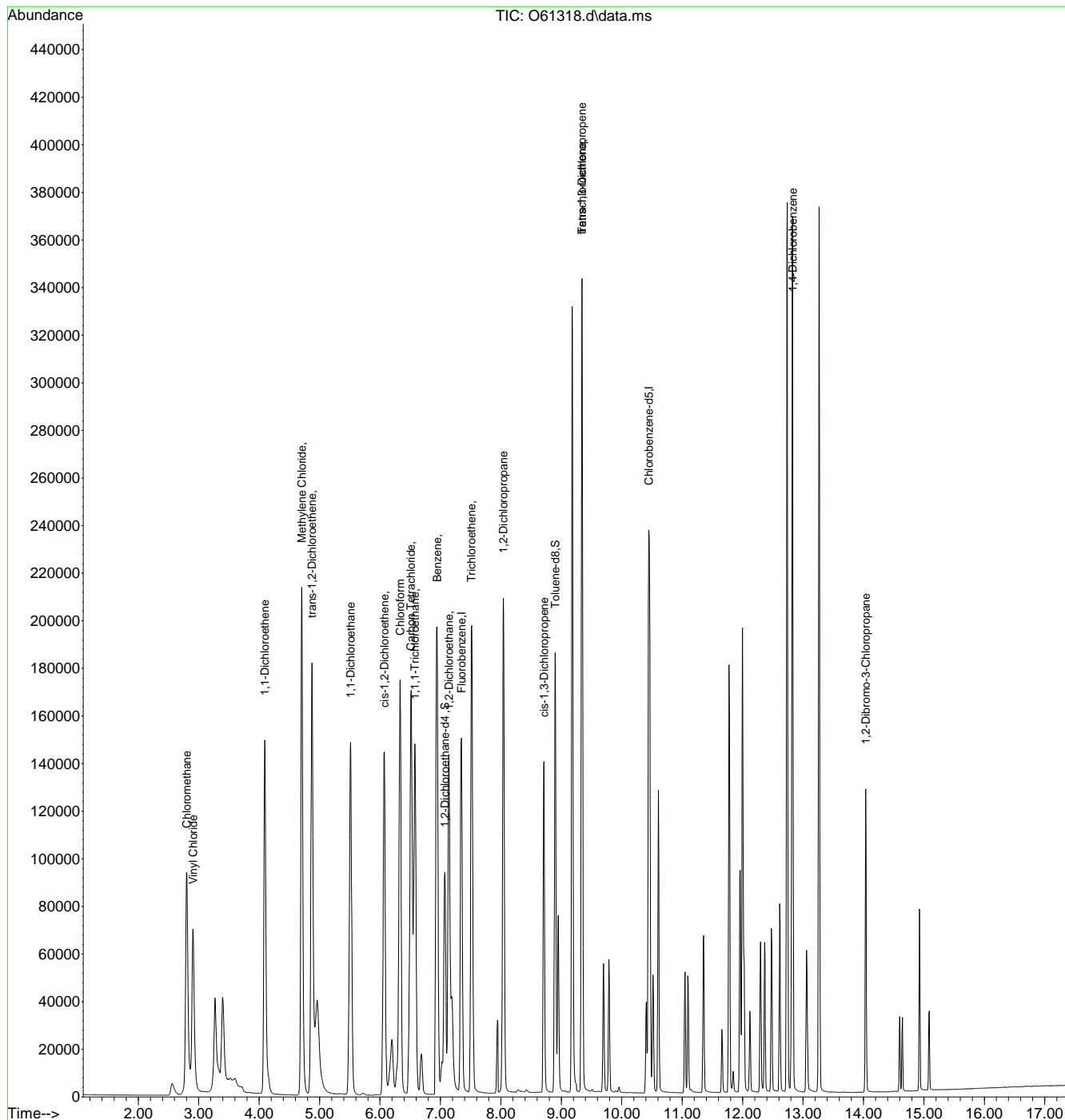
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61318.d  
 Acq On : 13 Sep 2020 2:33 am  
 Operator : stutip  
 Sample : fa78551-12ms,10  
 Misc : MS47193,VO2359,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 08:05:40 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.4.3  
7

# Manual Integration Approval Summary

**Sample Number:** FA78551-12MS  
**Lab FileID:** O61318.D  
**Injection Time:** 09/13/20 02:33

**Method:** SW846 8260B BY SIM  
**Analyst approved:** 09/14/20 08:16 Jennifer Ferreira  
**Supervisor approved:** 09/16/20 15:24 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

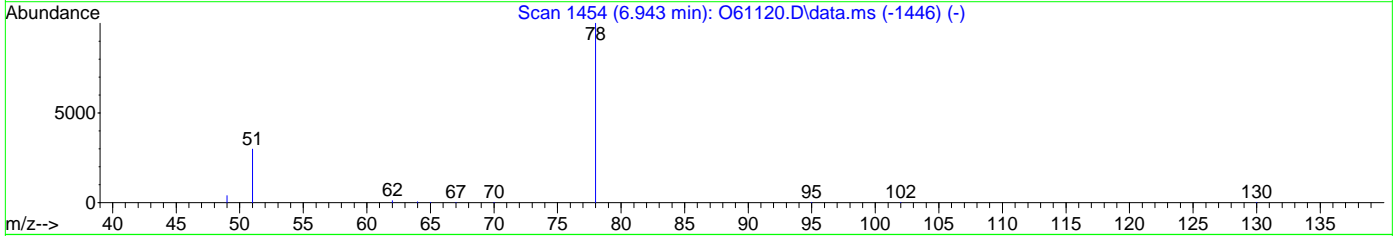
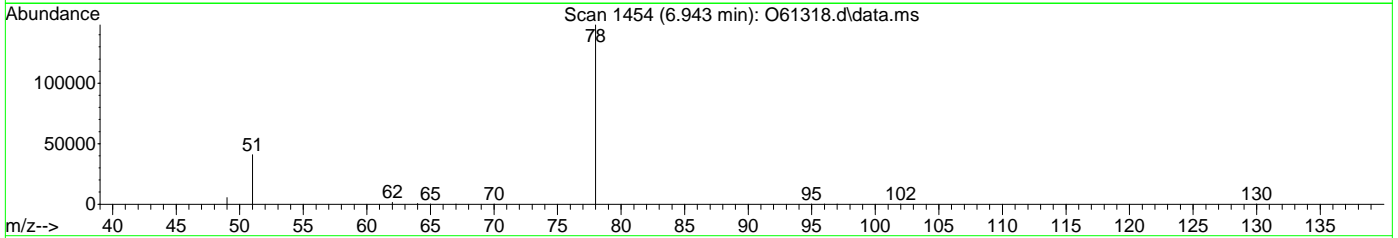
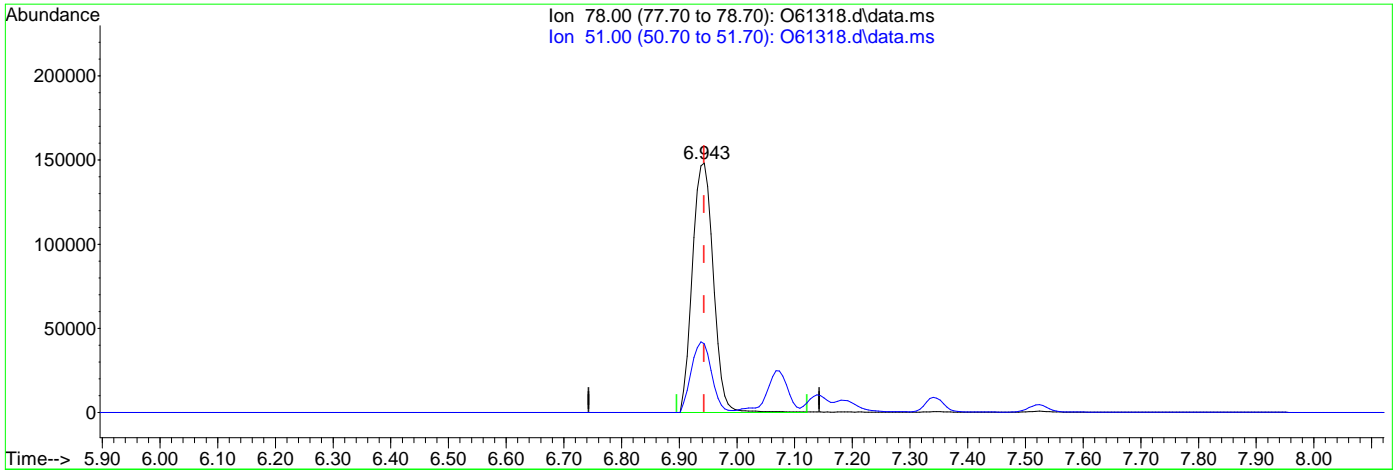
7.4.3.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
Data File : O61318.d  
Acq On : 13 Sep 2020 2:33 am  
Operator : stutip  
Sample : fa78551-12ms,10  
Misc : MS47193,VO2359,,,,,10  
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 07:20:33 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



TIC: O61318.d\data.ms

(12) Benzene ( )

6.943min (+0.000) 5.39ug/L

response 373631

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.55
0.00	0.00	0.00
0.00	0.00	0.00

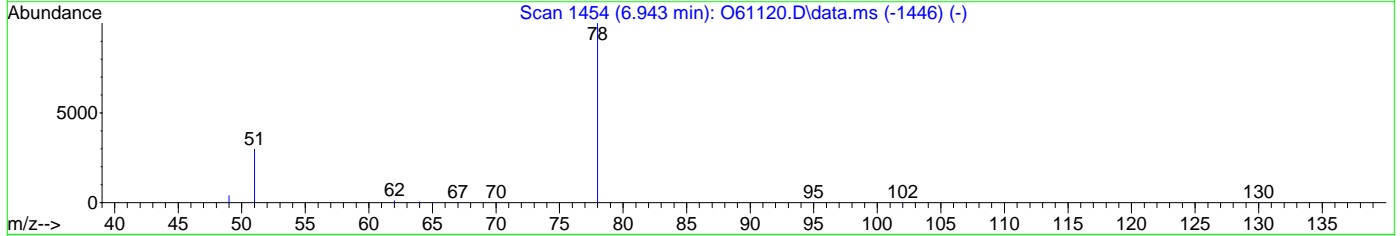
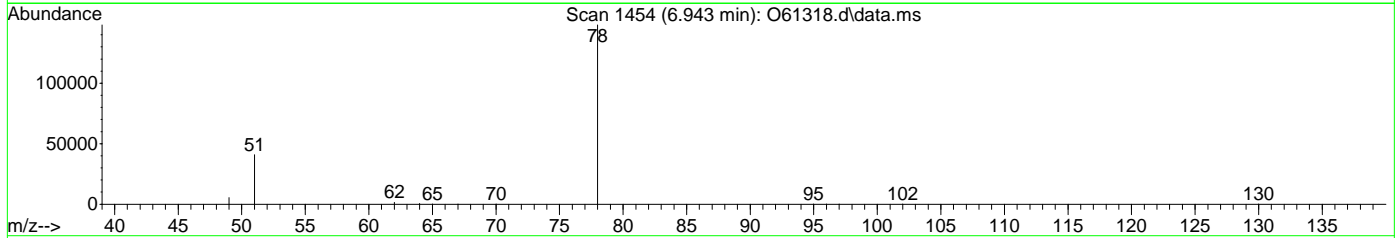
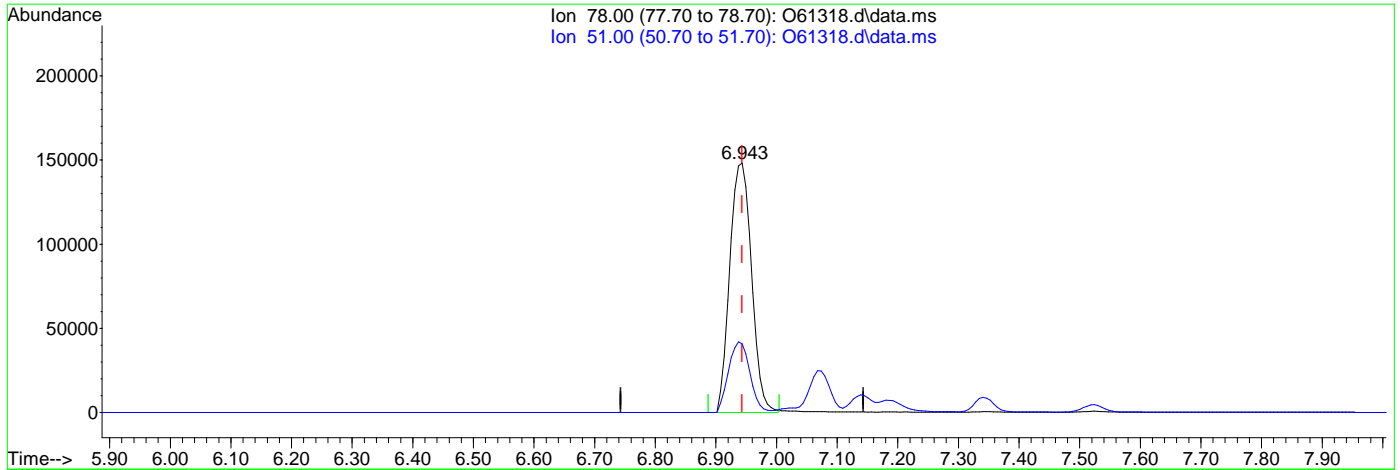
74.32  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61318.d  
 Acq On : 13 Sep 2020 2:33 am  
 Operator : stutip  
 Sample : fa78551-12ms,10  
 Misc : MS47193,VO2359,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 07:20:33 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61318.d\data.ms

(12) Benzene ( )

6.943min (+0.000) 5.33ug/L m

response 369236

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.55
0.00	0.00	0.00
0.00	0.00	0.00

74.3.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61319.d  
 Acq On : 13 Sep 2020 2:53 am  
 Operator : stutip  
 Sample : fa78551-12msd,10  
 Misc : MS47193,VO2359,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 08:06:25 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

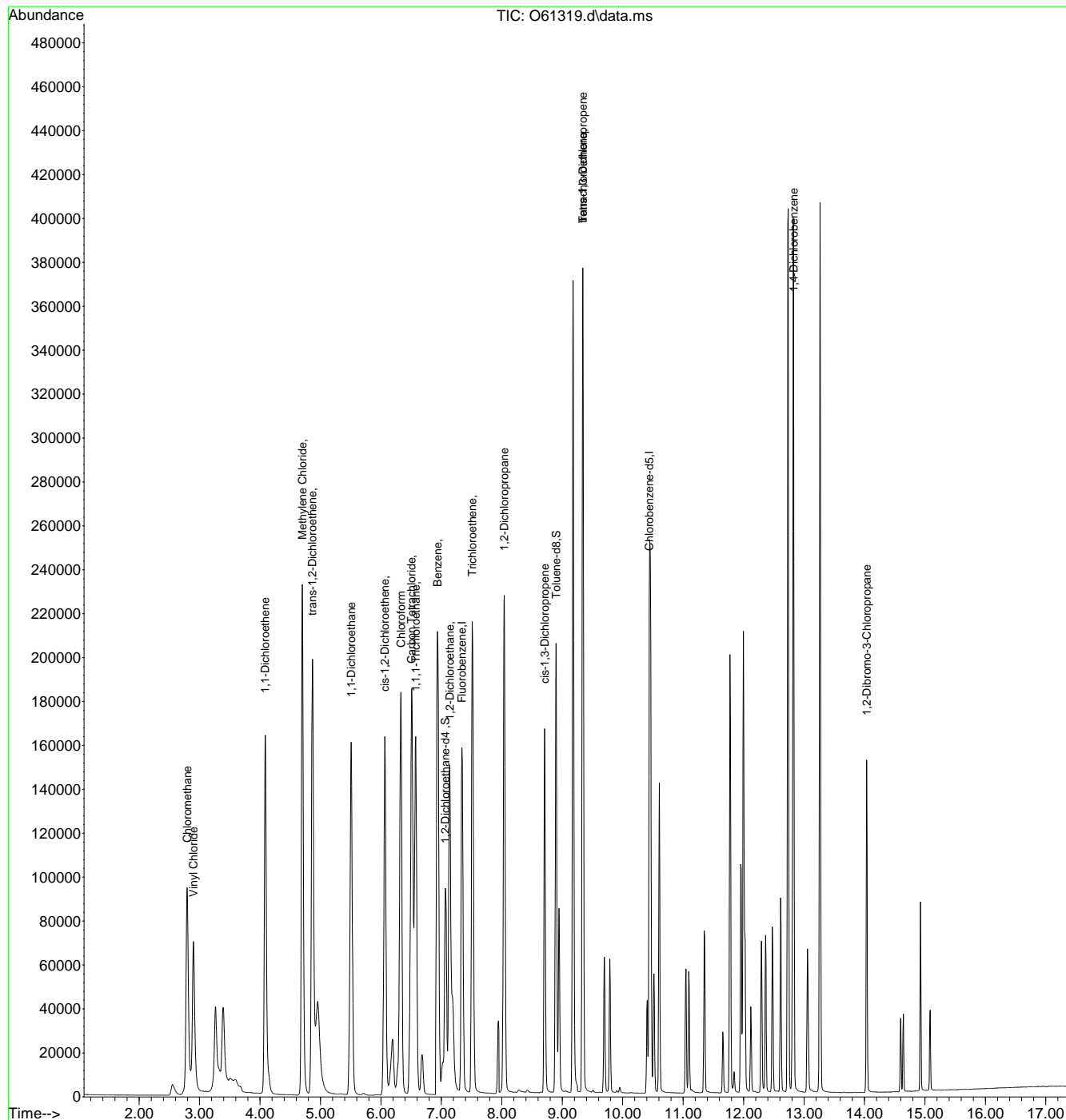
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	240247	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	194673	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	96426	4.97	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.40%		
19) Toluene-d8	8.896	98	195690	4.46	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	89.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	136759	5.09	ug/L		98
3) Chloromethane	2.795	50	196544	4.97	ug/L		94
4) 1,1-Dichloroethene	4.085	61	198133	5.97	ug/L		91
5) Methylene Chloride	4.699	49	304522	5.85	ug/L		96
6) trans-1,2-Dichloroethene	4.865	61	214149	5.59	ug/L		84
7) 1,1-Dichloroethane	5.510	63	284444	6.39	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	112539	5.11	ug/L #		82
9) Chloroform	6.333	83	218318	5.70	ug/L		96
10) Carbon Tetrachloride	6.505	117	142219	5.44	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	157020	5.31	ug/L		91
12) Benzene	6.937	78	409509m	5.52	ug/L		
14) 1,2-Dichloroethane	7.139	62	190496	5.26	ug/L		93
15) Trichloroethene	7.512	95	125532	5.56	ug/L		86
16) 1,2-Dichloropropane	8.040	63	138898	5.61	ug/L		95
17) cis-1,3-Dichloropropene	8.707	75	120328	4.68	ug/L		99
20) trans-1,3-Dichloropropene	9.343	75	119127	4.66	ug/L		99
21) Tetrachloroethene	9.337	166	130192	6.10	ug/L		96
22) 1,4-Dichlorobenzene	12.827	146	238523	5.29	ug/L		96
23) 1,2-Dibromo-3-Chloropr...	14.038	75	34843	4.35	ug/L		86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
Data File : O61319.d  
Acq On : 13 Sep 2020 2:53 am  
Operator : stutip  
Sample : fa78551-12msd,10  
Misc : MS47193,VO2359,,,,,10  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 08:06:25 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



7.4.4  
7

# Manual Integration Approval Summary

**Sample Number:** FA78551-12MSD      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61319.D      **Analyst approved:** 09/14/20 08:16 Jennifer Ferreira  
**Injection Time:** 09/13/20 02:53      **Supervisor approved:** 09/16/20 15:24 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

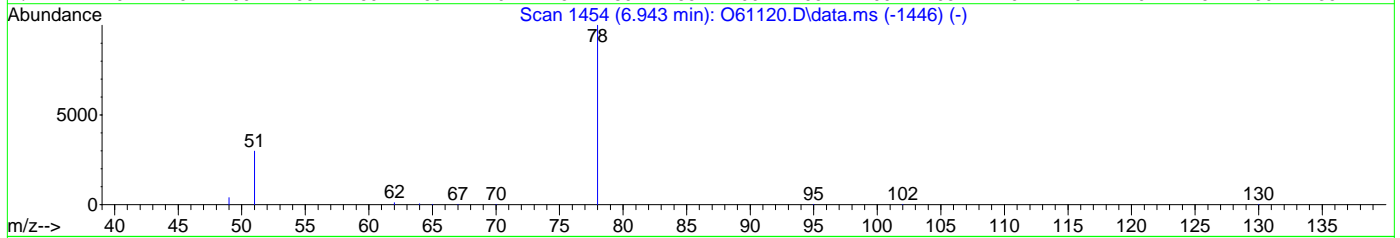
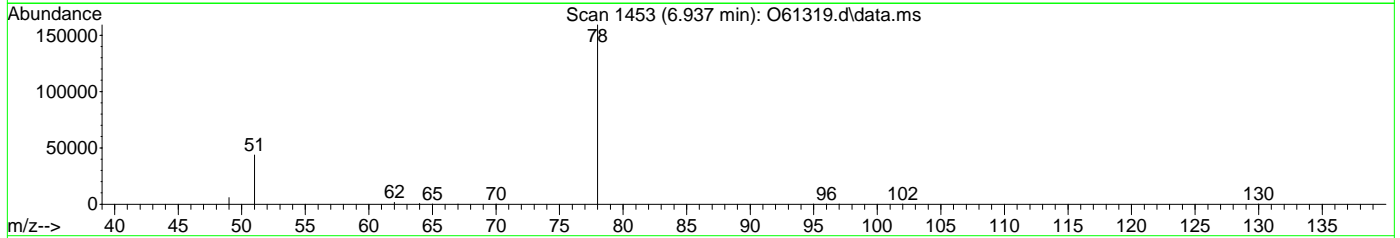
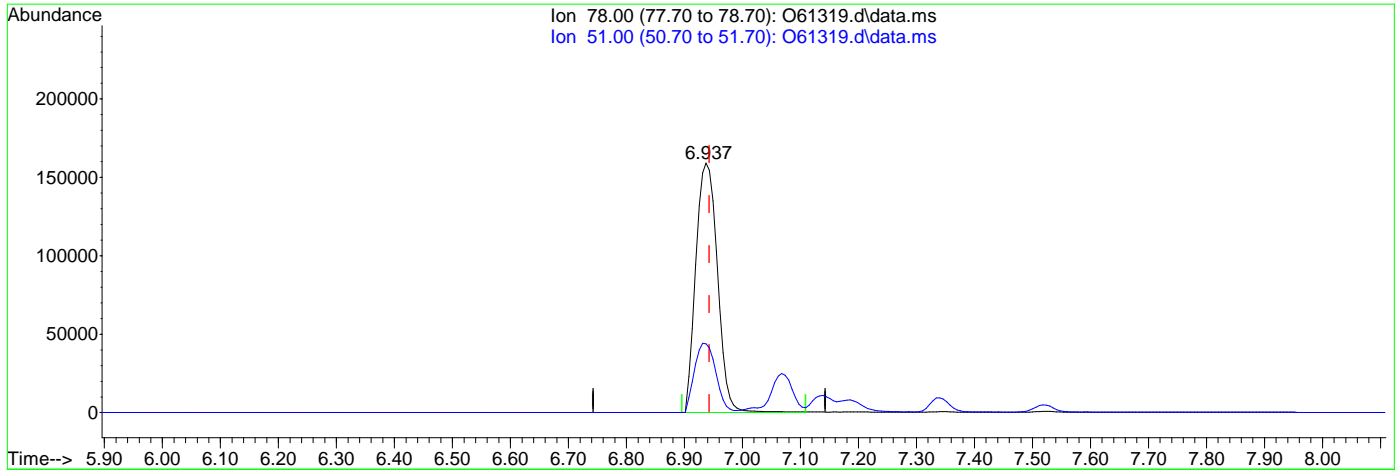
7.4.4.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61319.d  
 Acq On : 13 Sep 2020 2:53 am  
 Operator : stutip  
 Sample : fa78551-12msd,10  
 Misc : MS47193,VO2359,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 07:20:35 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61319.d\data.ms

(12) Benzene ( )

6.937min (-0.006) 5.59ug/L

response 414158

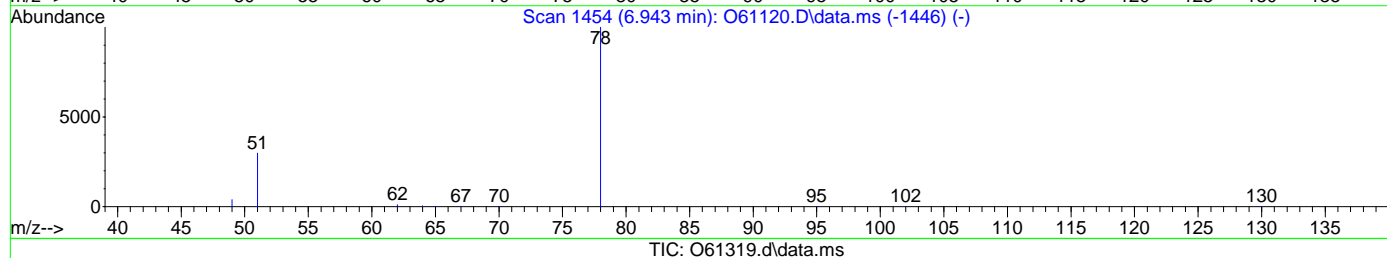
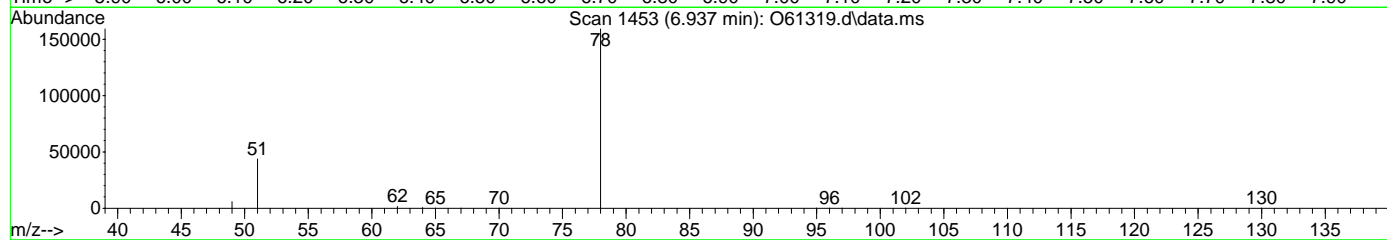
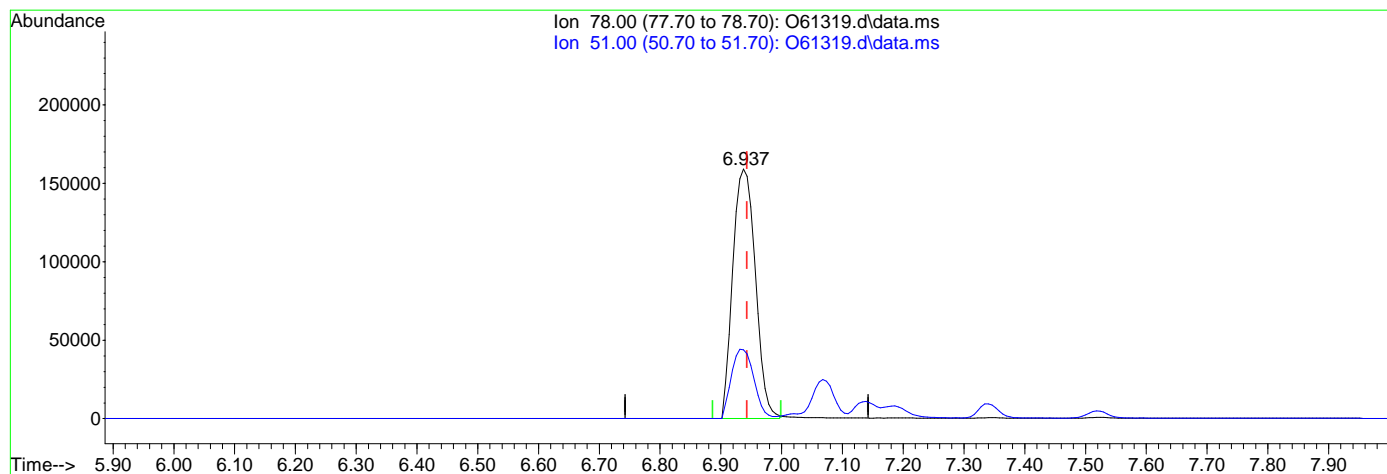
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.50
0.00	0.00	0.00
0.00	0.00	0.00

7.4.4.2  
7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61319.d  
 Acq On : 13 Sep 2020 2:53 am  
 Operator : stutip  
 Sample : fa78551-12msd,10  
 Misc : MS47193,VO2359,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 07:20:35 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.52ug/L m

response 409509

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61349.D  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 13:50:27 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.340	96	215252	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	177426	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	87985	5.06	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	101.20%		
19) Toluene-d8	8.896	98	169720	4.24	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	84.80%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	137221	5.74	ug/L		99
3) Chloromethane	2.795	50	197845	5.64	ug/L		94
4) 1,1-Dichloroethene	4.085	61	162214	5.45	ug/L		92
5) Methylene Chloride	4.699	49	241689	5.19	ug/L		95
6) trans-1,2-Dichloroethene	4.865	61	170603	4.97	ug/L		86
7) 1,1-Dichloroethane	5.510	63	200782	5.03	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	86621	4.39	ug/L		84
9) Chloroform	6.327	83	165916	4.83	ug/L		94
10) Carbon Tetrachloride	6.505	117	116287	4.97	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	127312	4.81	ug/L		91
12) Benzene	6.937	78	324310m	4.88	ug/L		
14) 1,2-Dichloroethane	7.139	62	153619	4.73	ug/L		94
15) Trichloroethene	7.512	95	97749	4.83	ug/L		83
16) 1,2-Dichloropropane	8.040	63	108668	4.89	ug/L		95
17) cis-1,3-Dichloropropene	8.707	75	87909	3.82	ug/L		99
20) trans-1,3-Dichloropropene	9.343	75	87936	3.77	ug/L		100
21) Tetrachloroethene	9.337	166	97943	5.04	ug/L		94
22) 1,4-Dichlorobenzene	12.821	146	197478	4.81	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.037	75	22696	3.13	ug/L #		81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

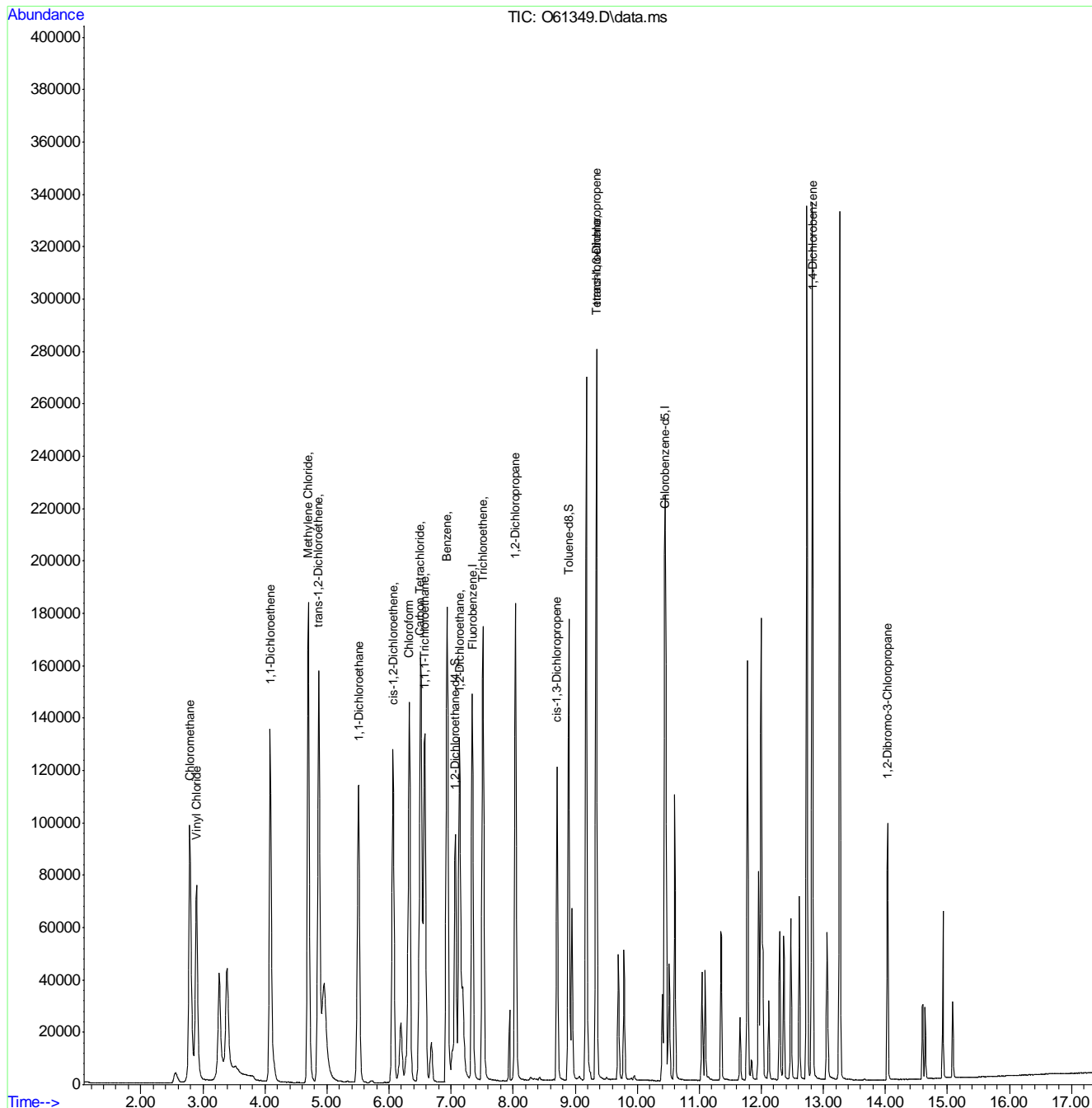
7.4.5  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61349.D  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:50:27 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.4.5  
7



# Manual Integration Approval Summary

**Sample Number:** FA78564-1MS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61349.D      **Analyst approved:** 09/14/20 13:52 Akari Giraldo  
**Injection Time:** 09/13/20 19:52      **Supervisor approved:** 09/14/20 14:22 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

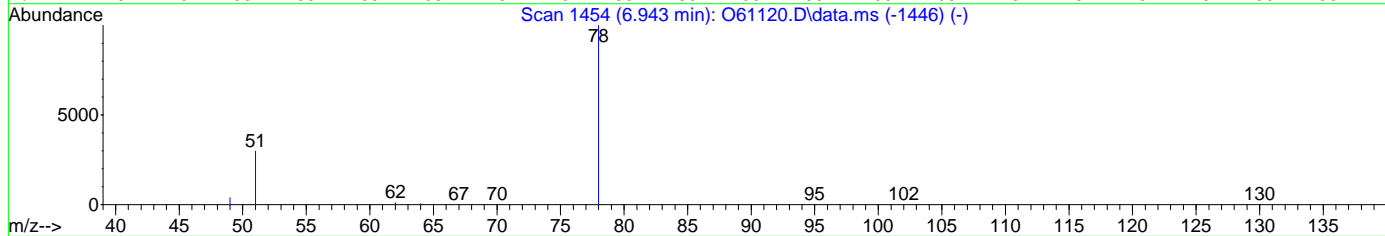
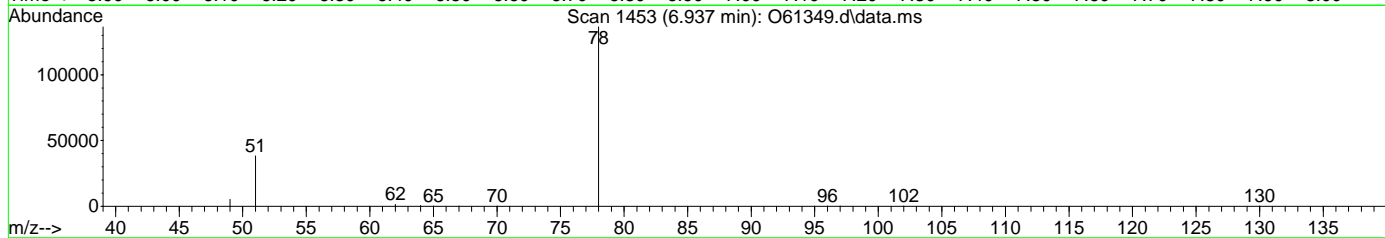
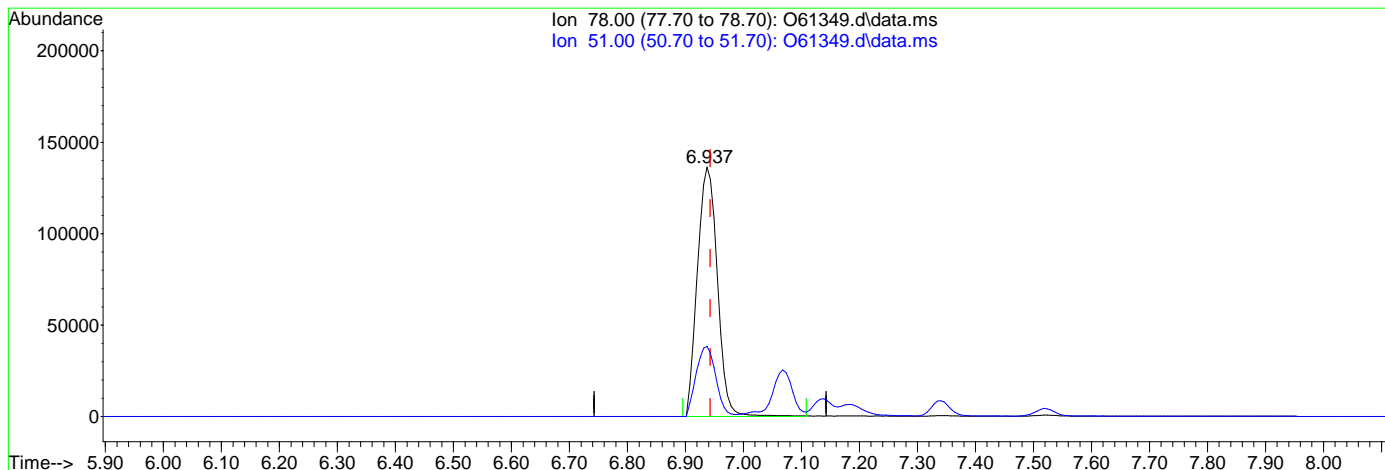
7.4.5.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61349.d  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 07:53:27 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 4.93ug/L

response 327395

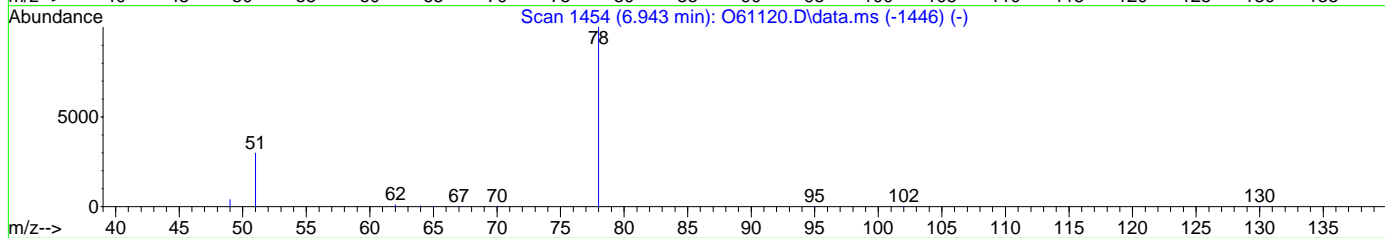
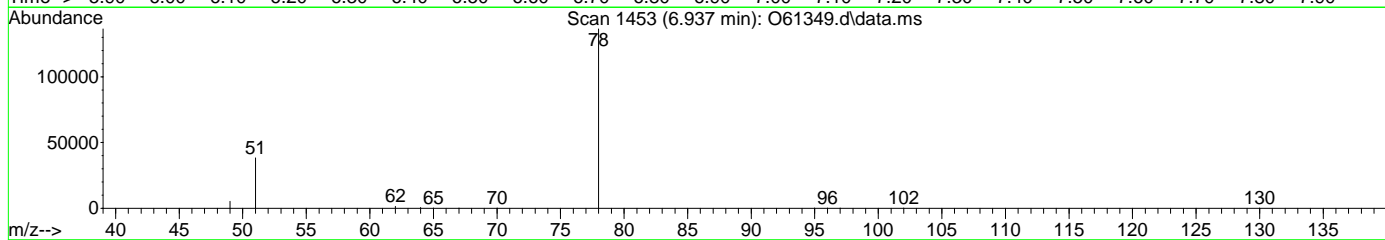
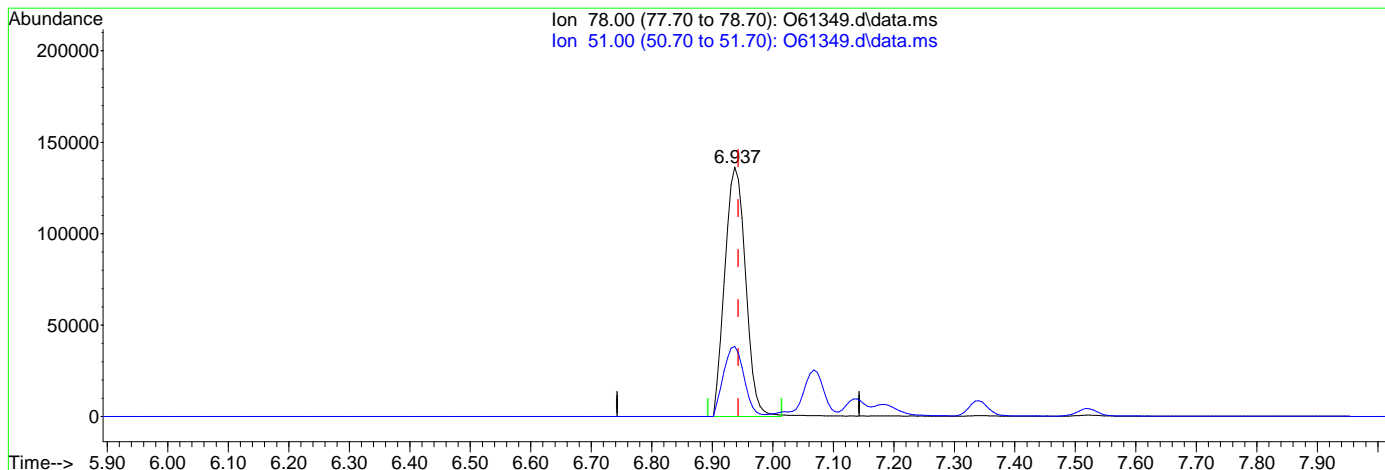
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.09
0.00	0.00	0.00
0.00	0.00	0.00

7.4.5.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61349.d  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 07:53:27 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 4.88ug/L m

response 324310

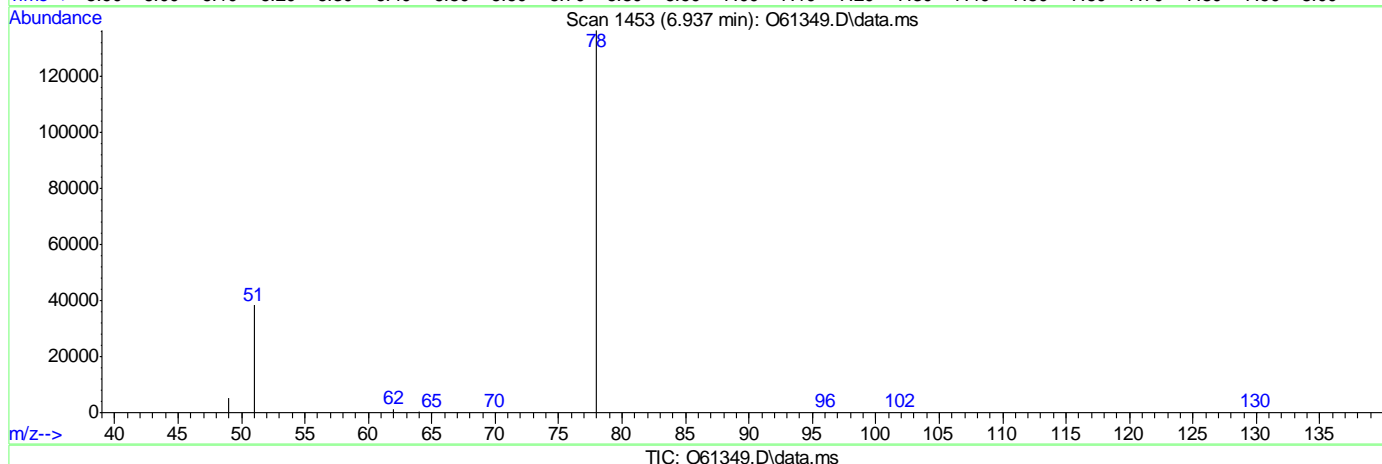
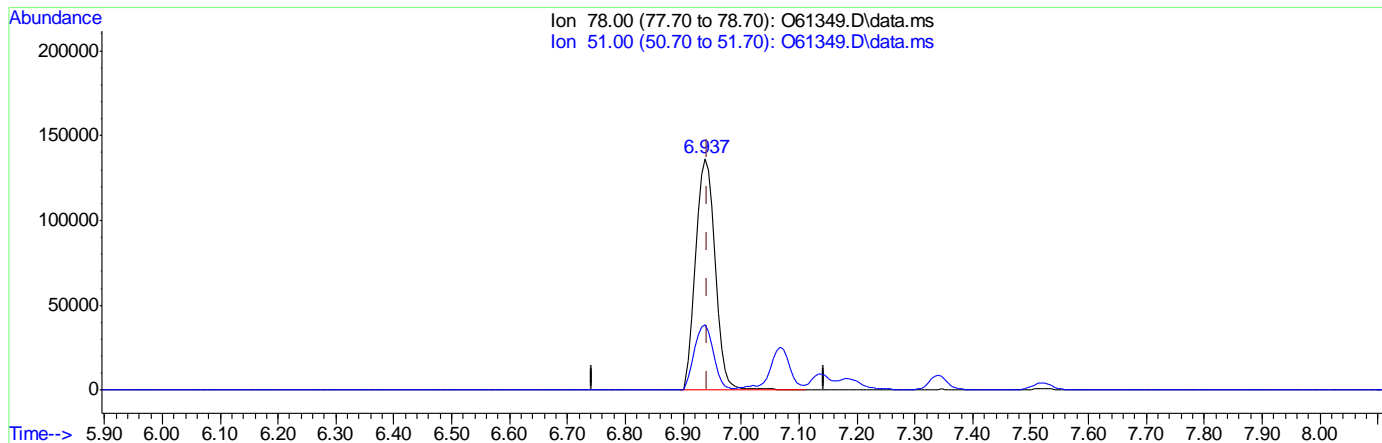
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.09
0.00	0.00	0.00
0.00	0.00	0.00

7.4.5.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61349.D  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 13:48:58 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 4.93ug/L

response 327395

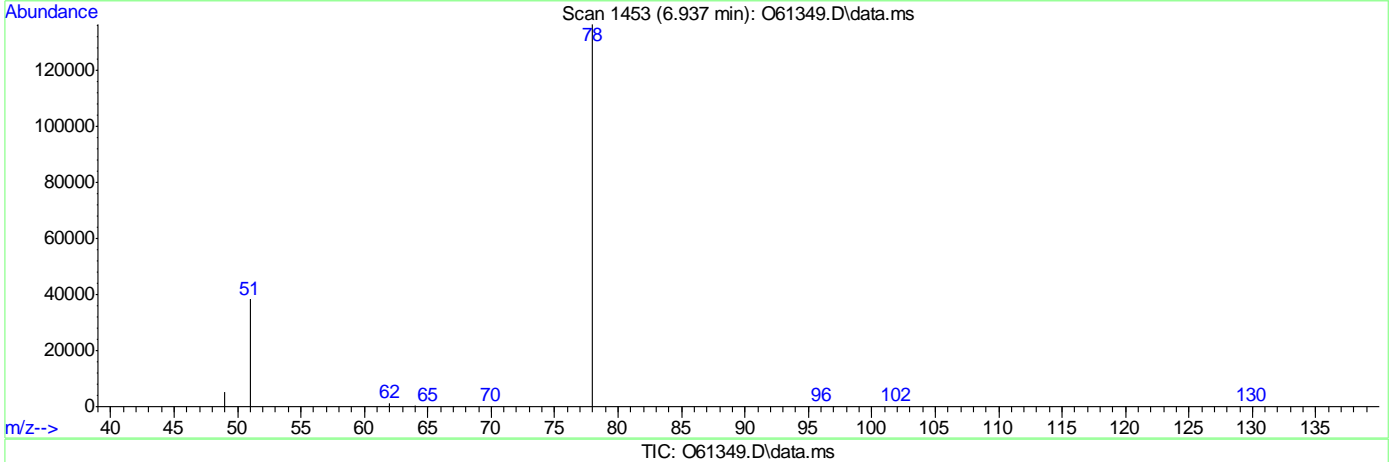
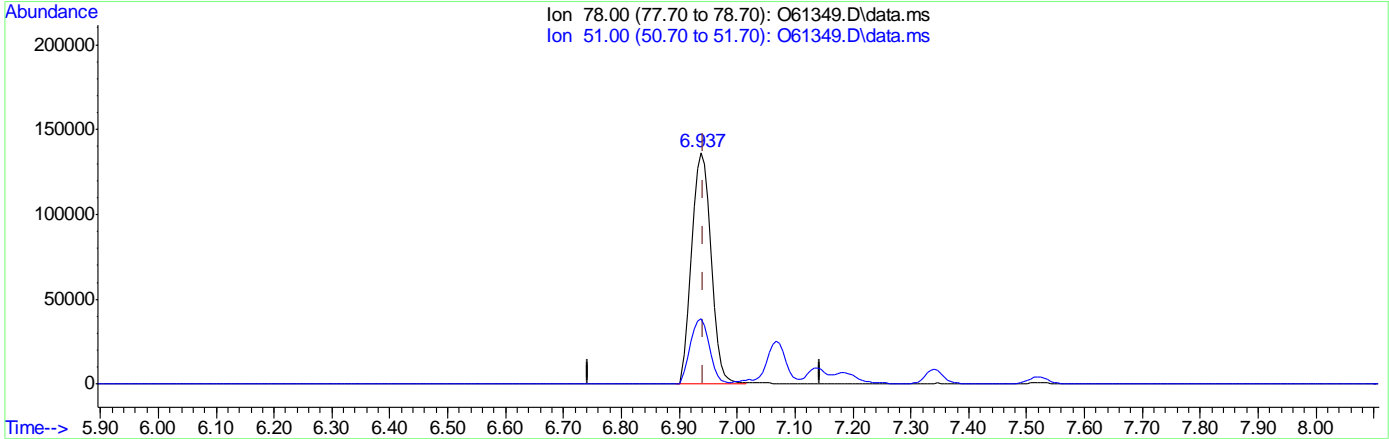
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.09
0.00	0.00	0.00
0.00	0.00	0.00

7.4.5.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61349.D  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 13:48:58 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.937min (-0.006) 4.88ug/L m  
 response 324310

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.09
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61350.D  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 13:50:50 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.340	96	233995	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	190479	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	93890	4.97	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.40%		
19) Toluene-d8	8.896	98	187373	4.36	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	87.20%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	140892	5.40	ug/L		97
3) Chloromethane	2.795	50	197709	5.15	ug/L		94
4) 1,1-Dichloroethene	4.085	61	182933	5.66	ug/L		91
5) Methylene Chloride	4.700	49	270684	5.34	ug/L		94
6) trans-1,2-Dichloroethene	4.865	61	195834	5.25	ug/L		85
7) 1,1-Dichloroethane	5.510	63	228880	5.28	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	100960	4.71	ug/L		83
9) Chloroform	6.333	83	187129	5.01	ug/L		95
10) Carbon Tetrachloride	6.511	117	133372	5.24	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	144075	5.01	ug/L		91
12) Benzene	6.937	78	372379m	5.16	ug/L		
14) 1,2-Dichloroethane	7.139	62	174541	4.94	ug/L		93
15) Trichloroethene	7.512	95	113365	5.15	ug/L		84
16) 1,2-Dichloropropane	8.040	63	124954	5.18	ug/L		95
17) cis-1,3-Dichloropropene	8.707	75	110587	4.42	ug/L		99
20) trans-1,3-Dichloropropene	9.343	75	111001	4.43	ug/L		99
21) Tetrachloroethene	9.338	166	111276	5.34	ug/L		95
22) 1,4-Dichlorobenzene	12.827	146	222405	5.04	ug/L		96
23) 1,2-Dibromo-3-Chloropr...	14.038	75	33648	4.30	ug/L #		76

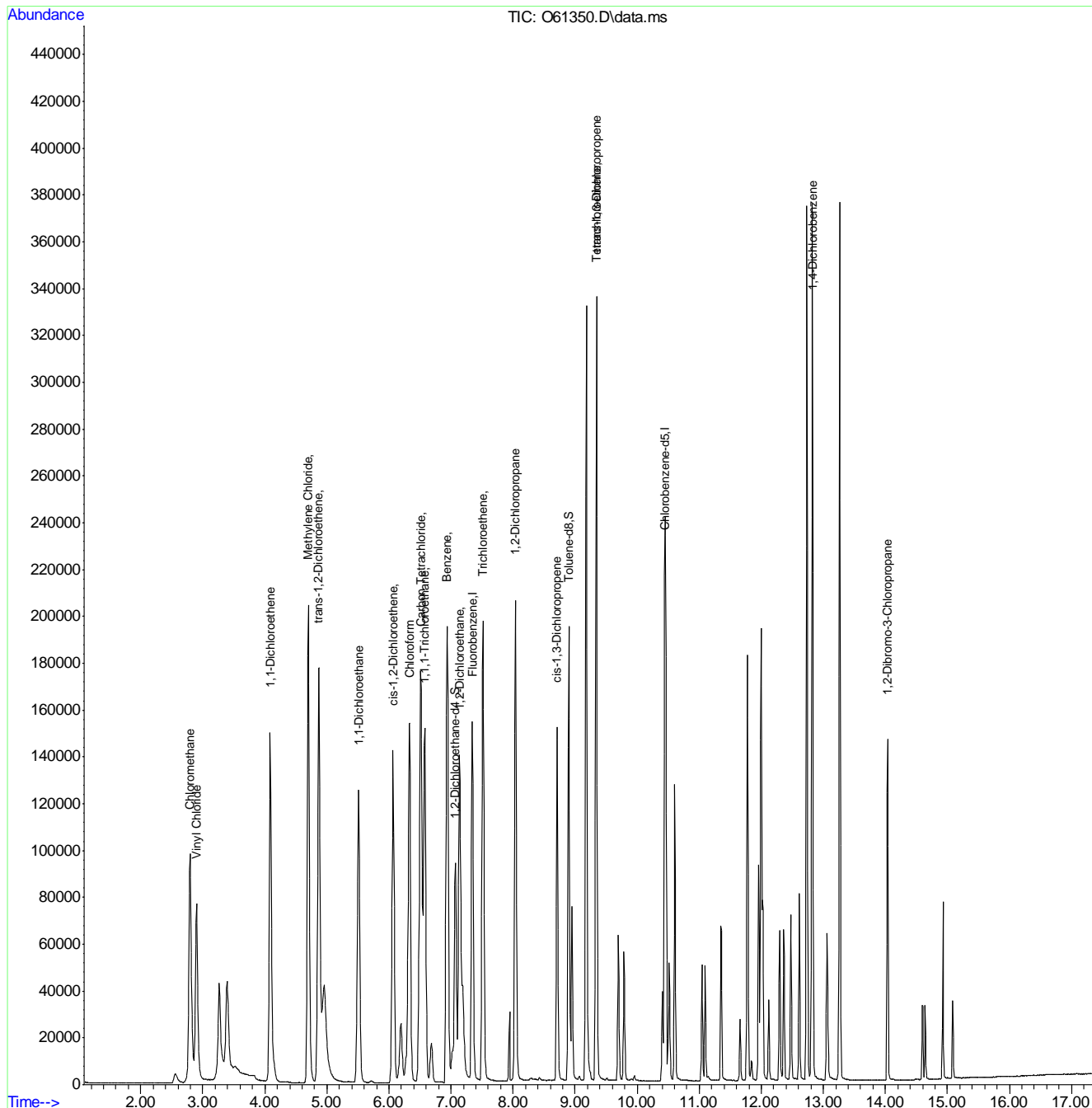
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61350.D  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:50:50 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.4.6  
7

# Manual Integration Approval Summary

**Sample Number:** FA78564-1MSD      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61350.D      **Analyst approved:** 09/14/20 13:52 Akari Giraldo  
**Injection Time:** 09/13/20 20:12      **Supervisor approved:** 09/14/20 14:22 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.4.6.1

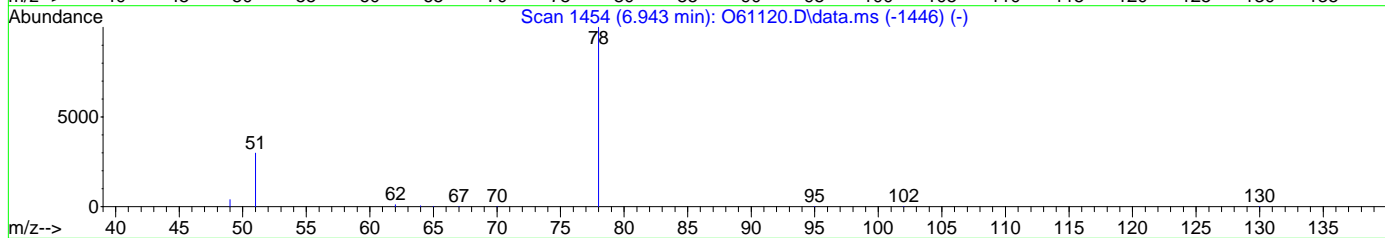
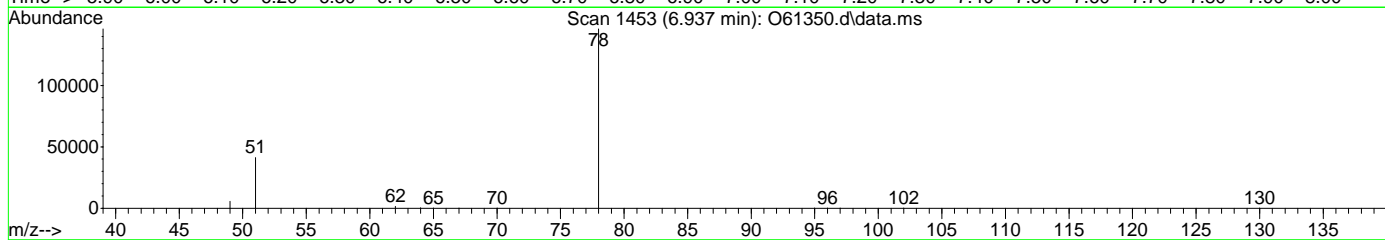
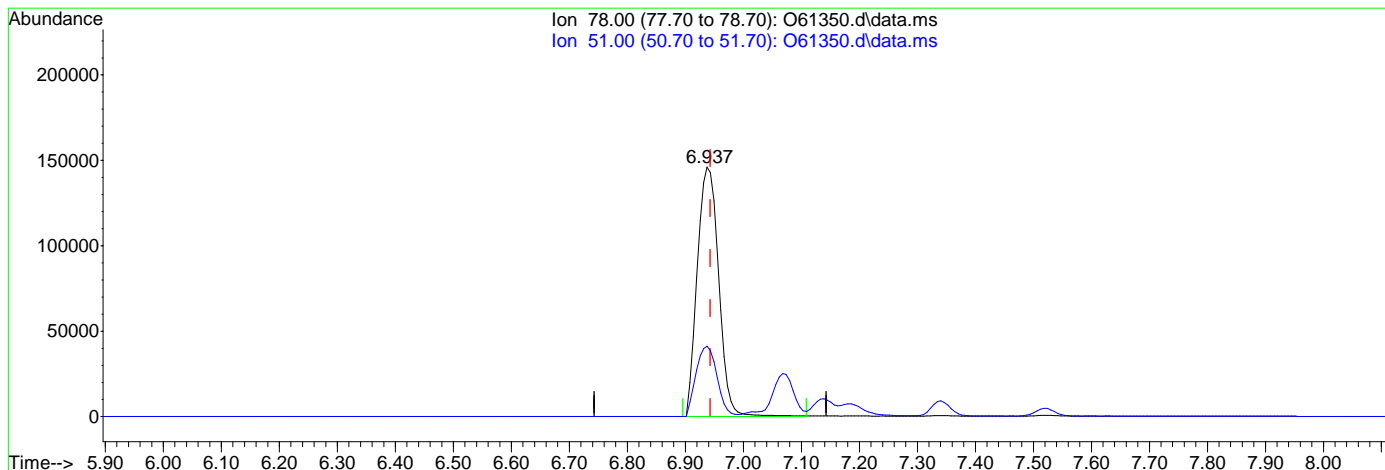
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61350.d  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 07:53:29 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.20ug/L

response 375819

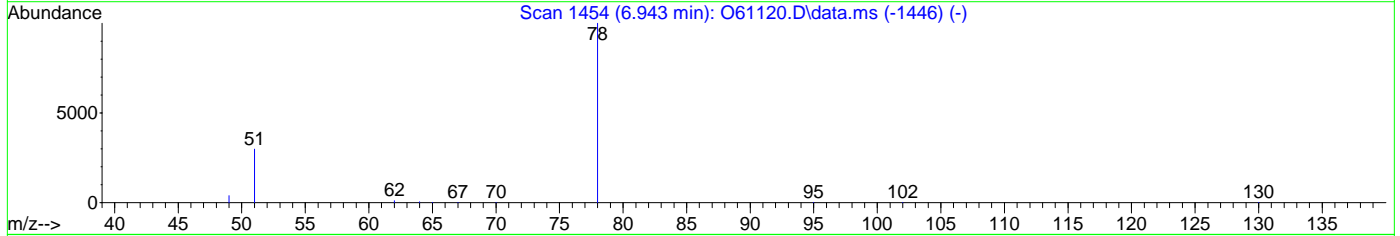
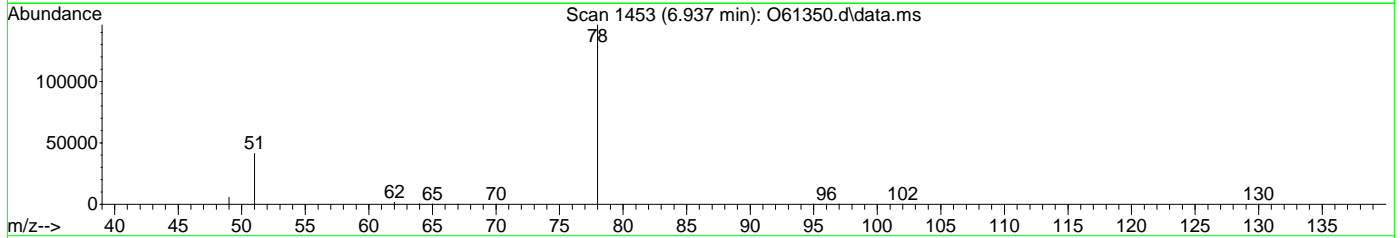
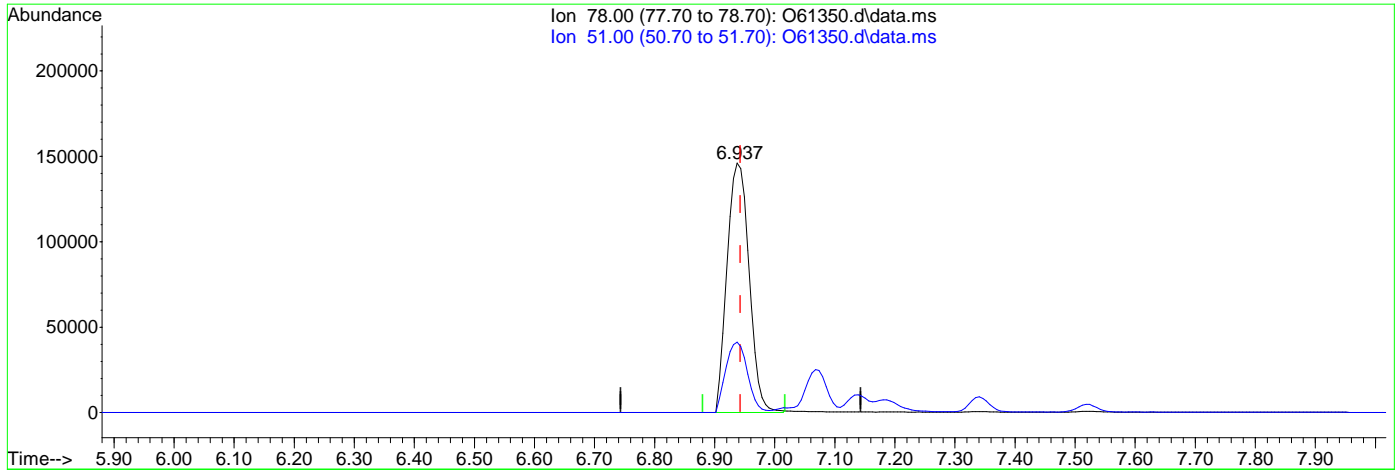
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

7.4.6.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61350.d  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 07:53:29 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.16ug/L m

response 372418

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

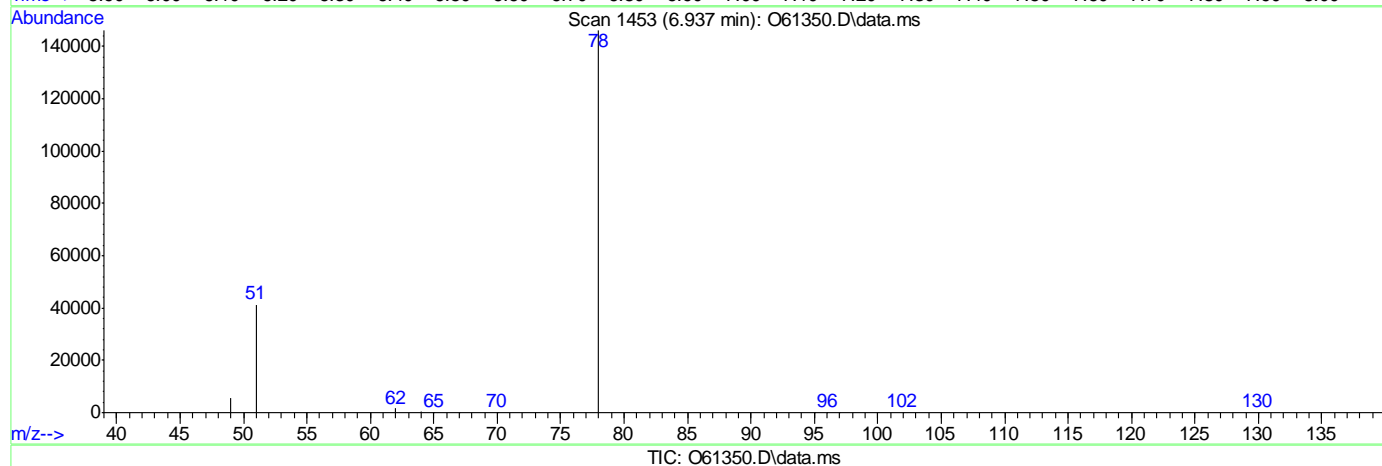
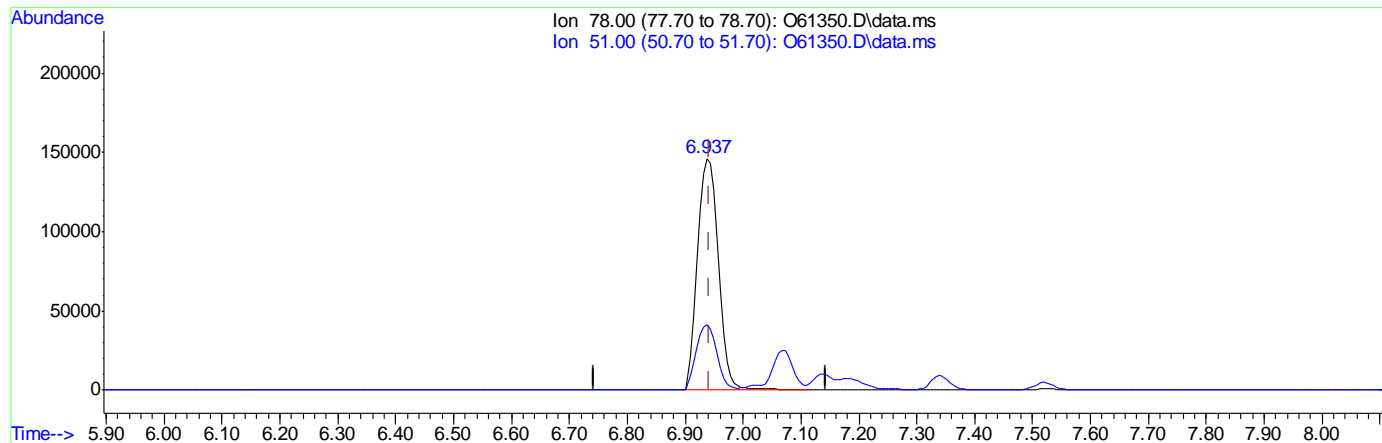
74.6.3  
7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61350.D  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:49:00 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.20ug/L

response 375819

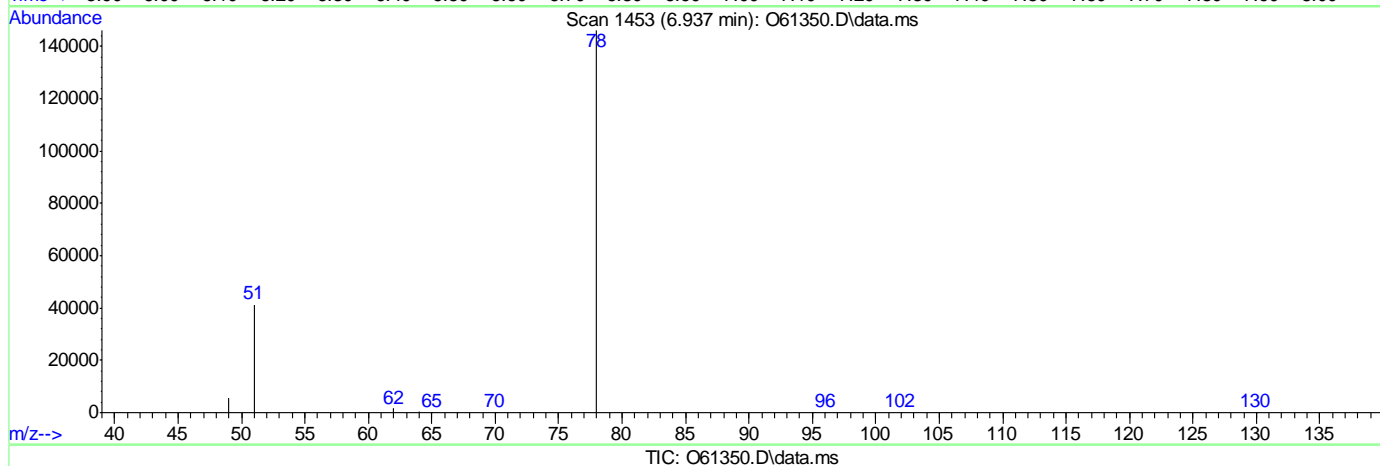
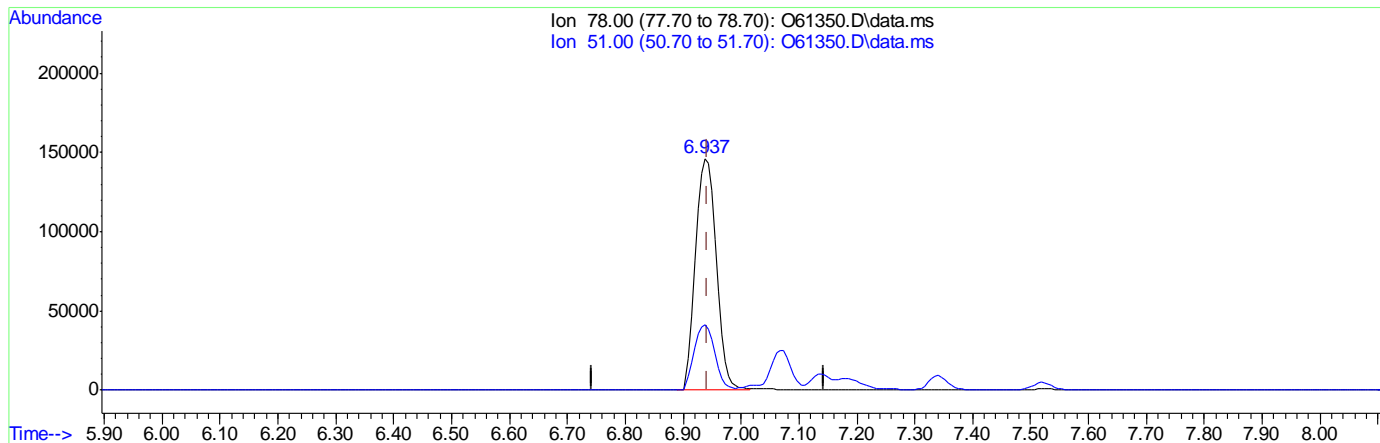
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61350.D  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:49:00 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.16ug/L m

response 372379

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62335.D  
 Acq On : 14 Sep 2020 5:57 pm  
 Operator : JuanG  
 Sample : FA78551-15MS,10X  
 Misc : MS47193,VZ2418,,,,,10  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 15 18:50:44 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1535956	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1308662	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	540890	5.69	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	113.80%	
19) Toluene-d8	8.961	98	1477825	4.65	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	827363	6.47	ppb		100
3) Chloromethane	2.729	50	656815	6.13	ppb		100
4) 1,1-Dichloroethene	4.087	96	555274	5.97	ppb	#	88
5) Methylene Chloride	4.713	84	755384	5.25	ppb		91
6) trans-1,2-Dichloroethene	4.890	96	640859	5.65	ppb		89
7) 1,1-Dichloroethane	5.546	63	1514538	7.87	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	715668	5.68	ppb		93
9) Chloroform	6.377	83	1357020	5.88	ppb		100
10) Carbon Tetrachloride	6.543	117	799644	5.10	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	1120501	5.54	ppb		99
12) Benzene	6.994	78	2480344	5.80	ppb		96
14) 1,2-Dichloroethane	7.198	62	928890	5.76	ppb		100
15) Trichloroethene	7.571	95	839093	6.40	ppb		85
16) 1,2-Dichloropropane	8.105	63	608966	5.60	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	419212	3.59	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	341621	3.13	ppb		100
21) Tetrachloroethene	9.399	166	815385	5.51	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

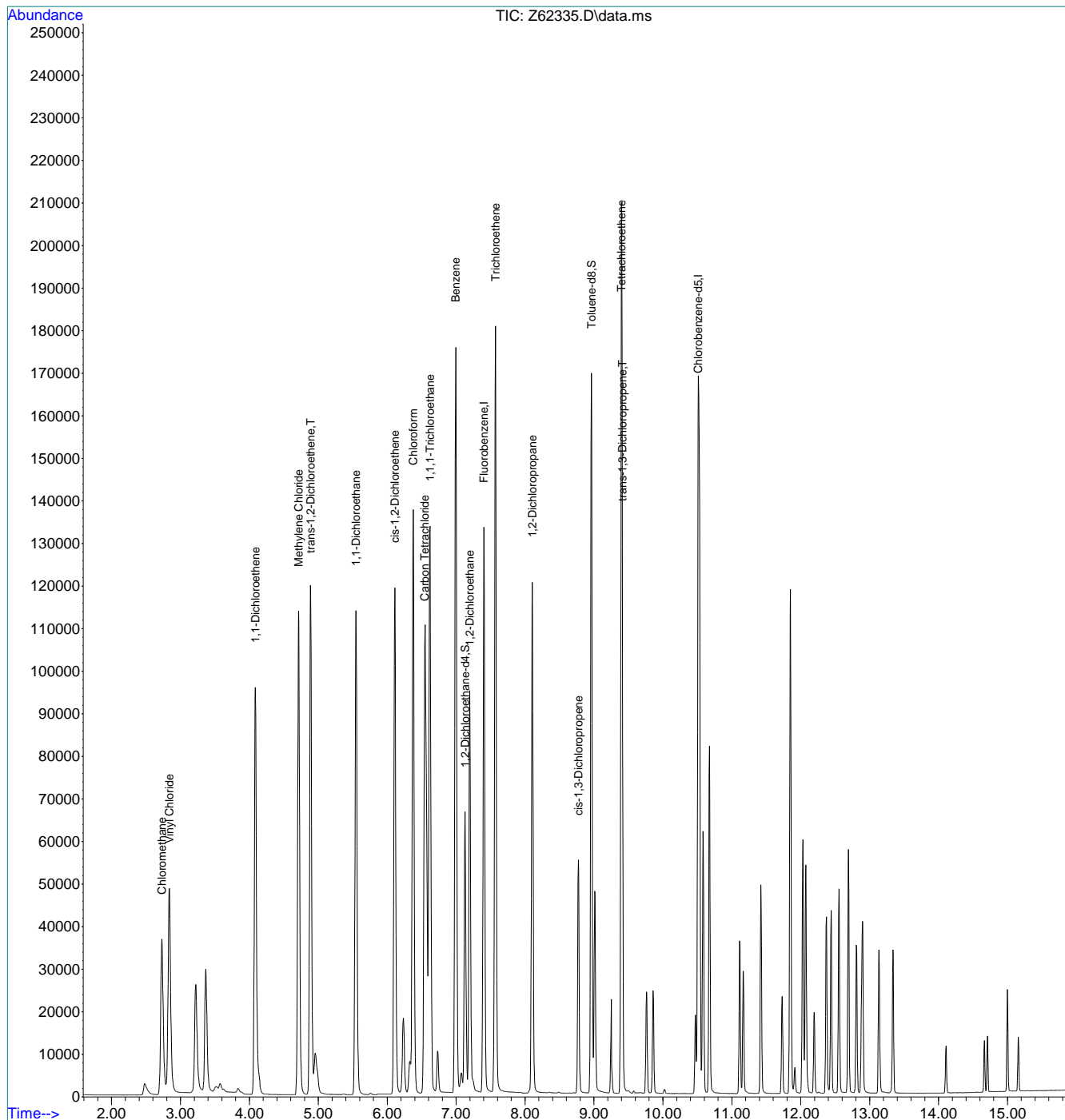
7.4.7  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62335.D  
 Acq On : 14 Sep 2020 5:57 pm  
 Operator : JuanG  
 Sample : FA78551-15MS,10X  
 Misc : MS47193,VZ2418,,,,,10  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 15 18:50:44 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.4.7  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62336.D  
 Acq On : 14 Sep 2020 6:16 pm  
 Operator : JuanG  
 Sample : FA78551-15MSD,10X  
 Misc : MS47193,VZ2418,,,,,10  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 15 18:50:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

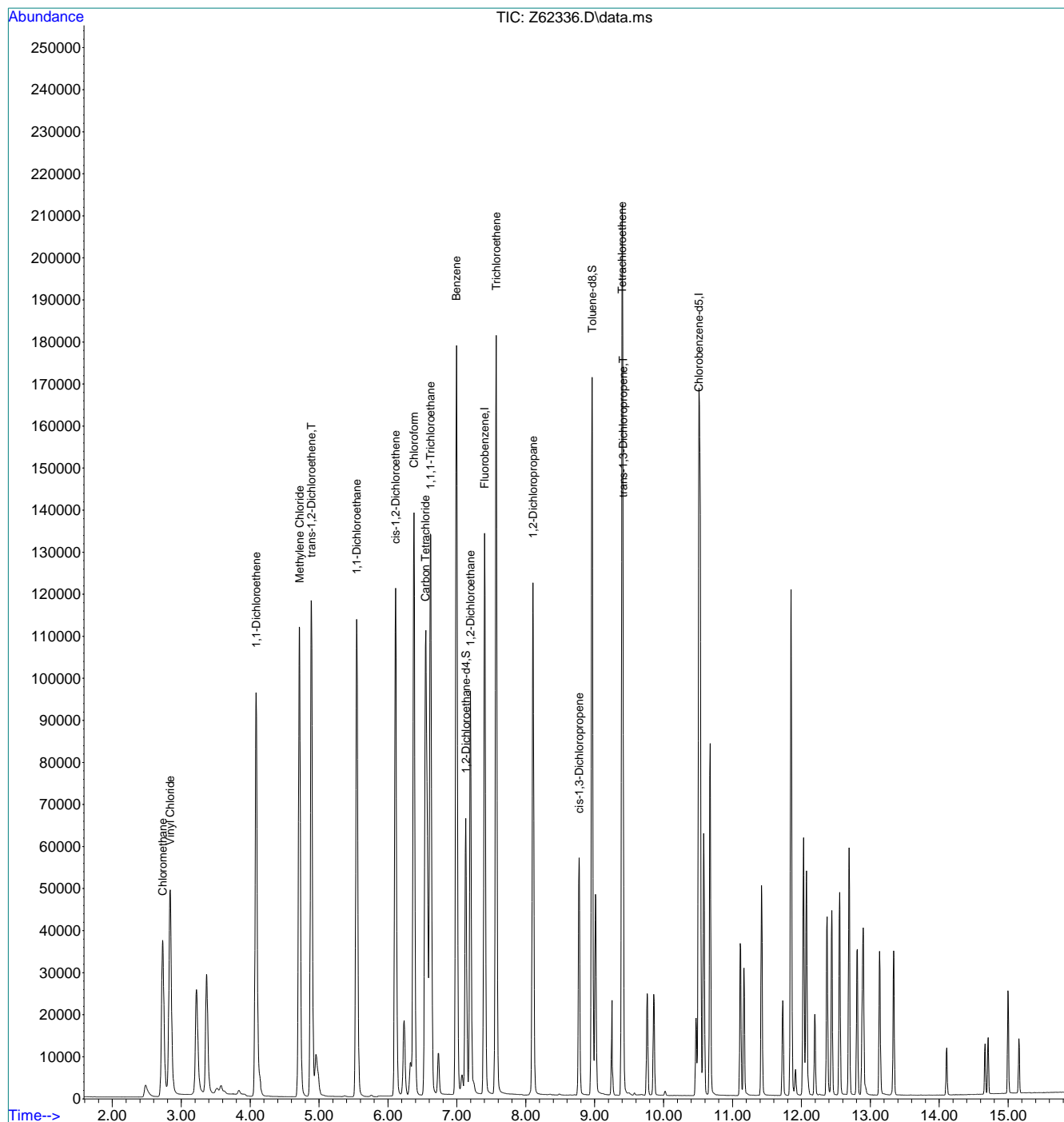
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1533862	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1295594	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	534924	5.64	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	112.80%	
19) Toluene-d8	8.961	98	1472511	4.68	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	843325	6.61	ppb		99
3) Chloromethane	2.729	50	672023	6.27	ppb		100
4) 1,1-Dichloroethene	4.087	96	560127	6.03	ppb	#	89
5) Methylene Chloride	4.717	84	755426	5.26	ppb	#	88
6) trans-1,2-Dichloroethene	4.890	96	642850	5.68	ppb		90
7) 1,1-Dichloroethane	5.546	63	1516870	7.90	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	723747	5.75	ppb		93
9) Chloroform	6.377	83	1363274	5.91	ppb		100
10) Carbon Tetrachloride	6.543	117	803786	5.14	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1130968	5.60	ppb		99
12) Benzene	6.994	78	2500290	5.86	ppb		96
14) 1,2-Dichloroethane	7.197	62	932587	5.79	ppb		99
15) Trichloroethene	7.571	95	835348	6.38	ppb		85
16) 1,2-Dichloropropane	8.105	63	611948	5.63	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	428263	3.67	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	355484	3.28	ppb		99
21) Tetrachloroethene	9.399	166	817380	5.59	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62336.D  
 Acq On : 14 Sep 2020 6:16 pm  
 Operator : JuanG  
 Sample : FA78551-15MSD,10X  
 Misc : MS47193,VZ2418,,,,,10  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 15 18:50:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62370.D  
 Acq On : 15 Sep 2020 6:53 pm  
 Operator : JuanG  
 Sample : FA78551-7ms  
 Misc : MS47193,VZ2419,,,,,5  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 16 10:47:11 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1645715	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1440453	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	607842	5.97	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	119.40%		
19) Toluene-d8	8.961	98	1548937	4.43	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	88.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.842	62	994719	7.26	ppb		100
3) Chloromethane	2.737	50	820914	7.06	ppb		100
4) 1,1-Dichloroethene	4.087	96	620959	6.23	ppb	#	89
5) Methylene Chloride	4.717	84	880980	5.75	ppb	#	88
6) trans-1,2-Dichloroethene	4.890	96	728521	6.00	ppb		89
7) 1,1-Dichloroethane	5.546	63	1342600	6.52	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	744732	5.52	ppb		94
9) Chloroform	6.377	83	1542687	6.24	ppb		100
10) Carbon Tetrachloride	6.549	117	908375	5.41	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	1283871	5.92	ppb		99
12) Benzene	6.994	78	2851177	6.22	ppb		97
14) 1,2-Dichloroethane	7.198	62	1063721	6.16	ppb		100
15) Trichloroethene	7.571	95	909170	6.47	ppb		86
16) 1,2-Dichloropropane	8.105	63	696695	5.98	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	483874	3.86	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	405837	3.37	ppb		100
21) Tetrachloroethene	9.399	166	853215	5.22	ppb		99

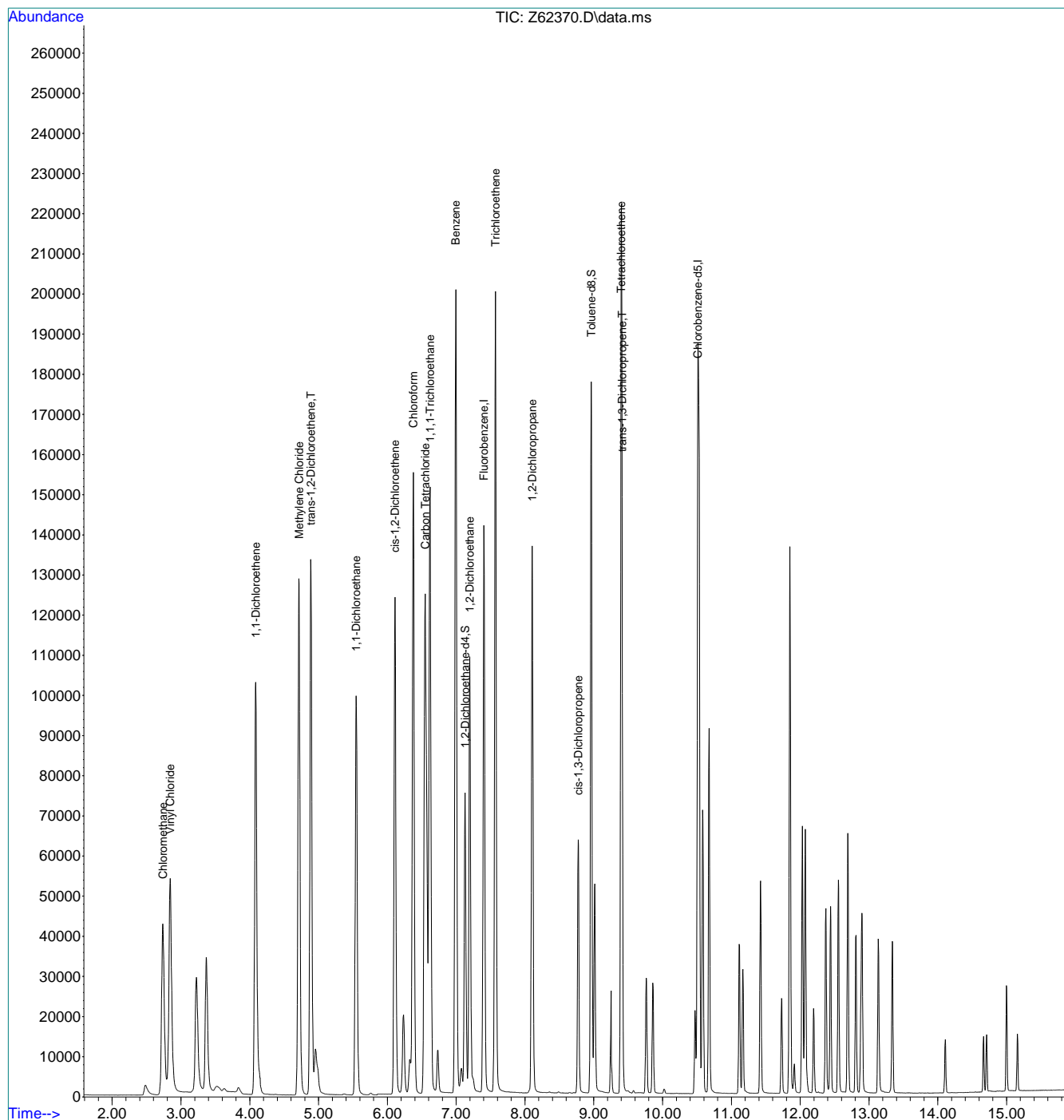
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62370.D  
 Acq On : 15 Sep 2020 6:53 pm  
 Operator : JuanG  
 Sample : FA78551-7ms  
 Misc : MS47193,VZ2419,,,,,5  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 16 10:47:11 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.4.9  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62371.D  
 Acq On : 15 Sep 2020 7:12 pm  
 Operator : JuanG  
 Sample : FA78551-7msd  
 Misc : MS47193,VZ2419,,,,,5  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 16 10:47:13 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

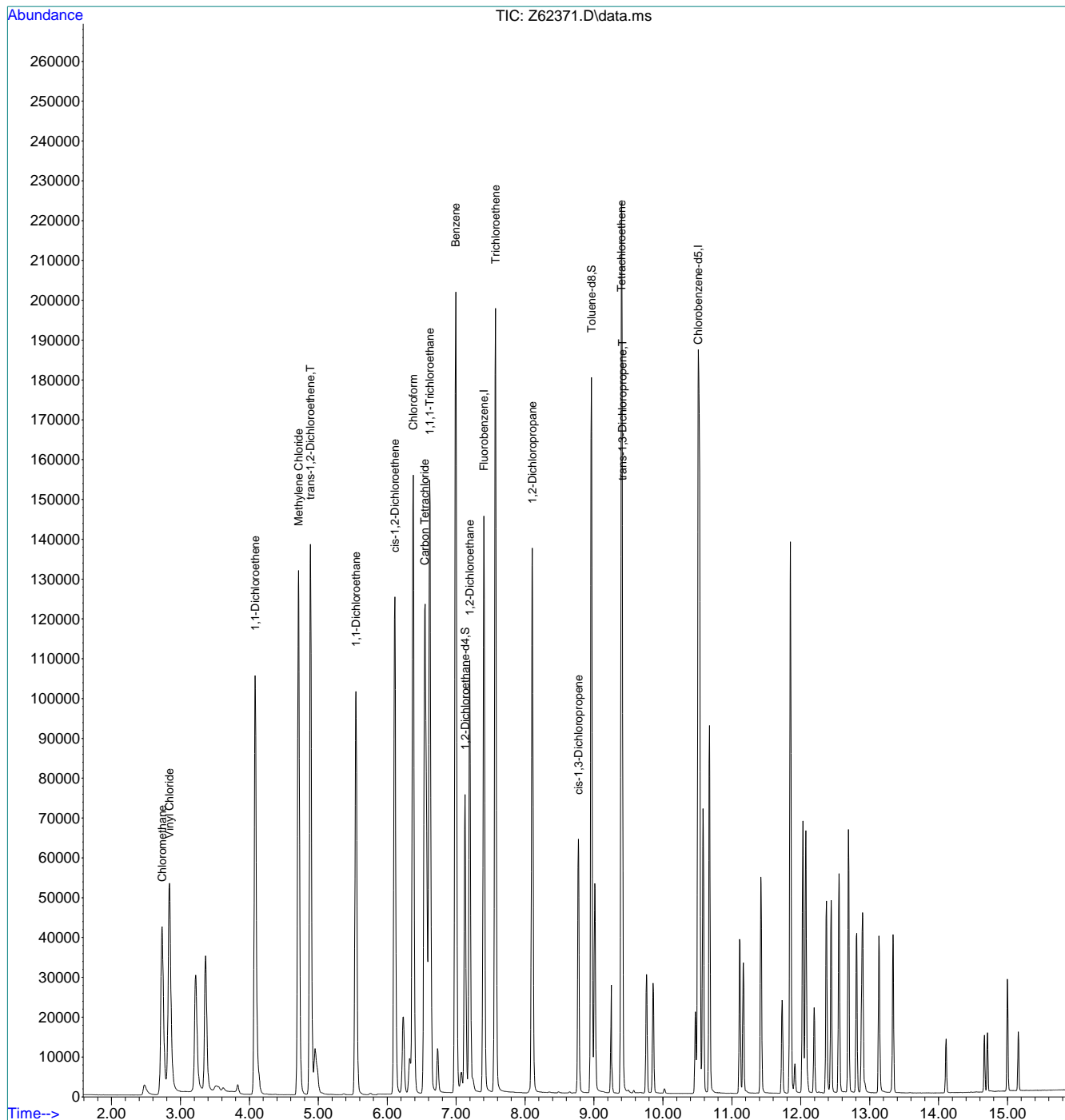
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1649663	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1429931	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	601391	5.89	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	117.80%	
19) Toluene-d8	8.961	98	1564697	4.51	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1001338	7.29	ppb		100
3) Chloromethane	2.733	50	823939	7.07	ppb		100
4) 1,1-Dichloroethene	4.083	96	617040	6.17	ppb		90
5) Methylene Chloride	4.713	84	874108	5.69	ppb		89
6) trans-1,2-Dichloroethene	4.886	96	737641	6.06	ppb		91
7) 1,1-Dichloroethane	5.546	63	1345262	6.51	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	757098	5.59	ppb		93
9) Chloroform	6.377	83	1537310	6.20	ppb		100
10) Carbon Tetrachloride	6.543	117	903271	5.37	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1283320	5.91	ppb		99
12) Benzene	6.994	78	2854011	6.22	ppb		96
14) 1,2-Dichloroethane	7.198	62	1056463	6.10	ppb		100
15) Trichloroethene	7.571	95	910257	6.46	ppb		85
16) 1,2-Dichloropropane	8.105	63	698282	5.98	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	482764	3.84	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	415391	3.47	ppb		98
21) Tetrachloroethene	9.399	166	850924	5.25	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
Data File : Z62371.D  
Acq On : 15 Sep 2020 7:12 pm  
Operator : JuanG  
Sample : FA78551-7msd  
Misc : MS47193,VZ2419,,,,,5  
ALS Vial : 17 Sample Multiplier: 1

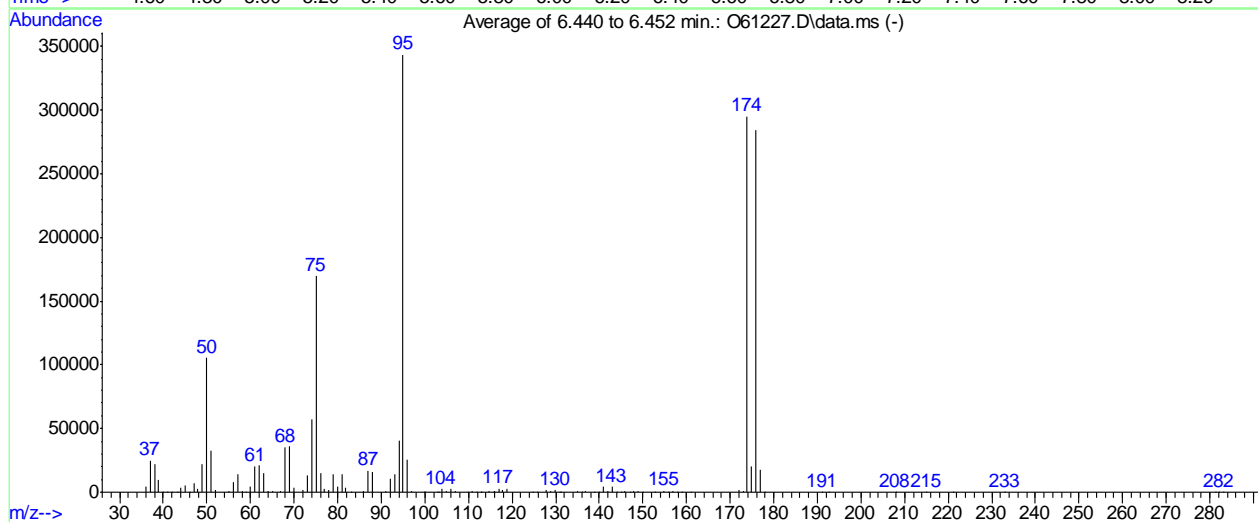
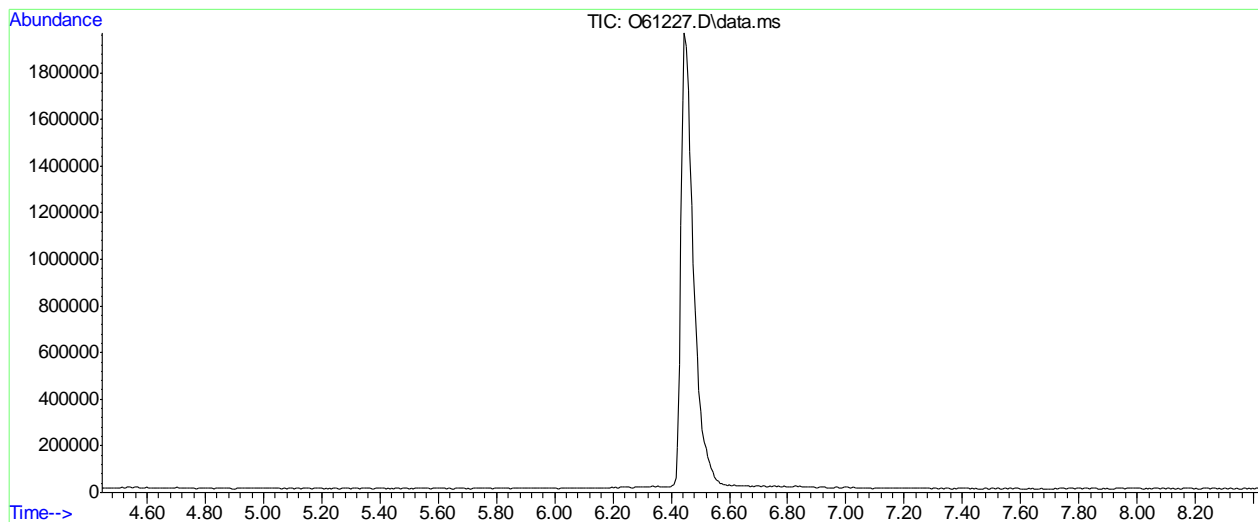
Quant Time: Sep 16 10:47:13 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.4.10  
7

Methods: SW-846 8260B  
 Data File : C:\msdchem\2\data\091120\O61227.D Vial: 100  
 Acq On : 11 Sep 2020 2:01 pm Operator: stutip  
 Sample : BFB Inst : MSVOA12  
 Misc : MS47183,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 460

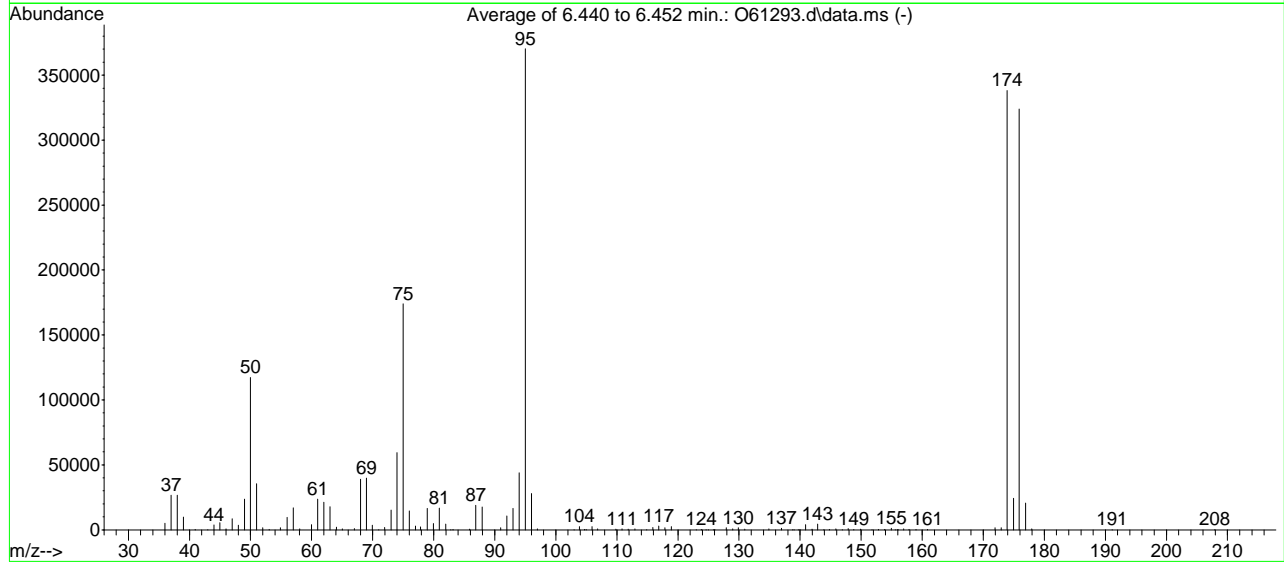
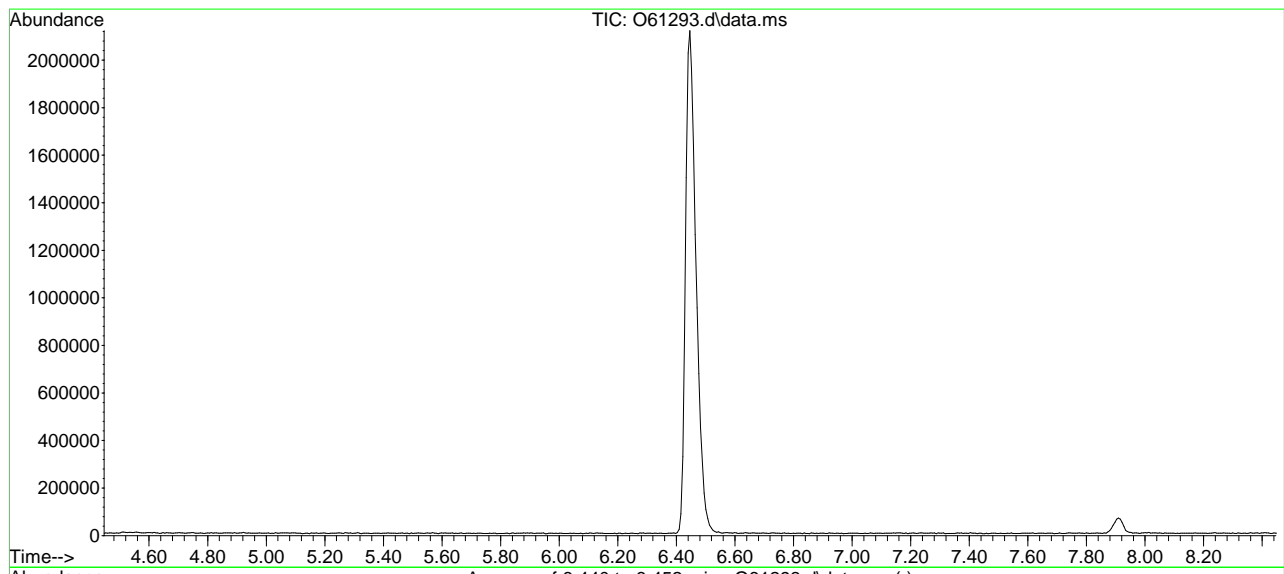
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.7	105346	PASS
75	95	30	60	49.4	169774	PASS
95	95	100	100	100.0	343616	PASS
96	95	5	9	7.4	25531	PASS
173	174	0.00	2	0.5	1340	PASS
174	95	50	100	85.8	294848	PASS
175	174	5	9	7.0	20565	PASS
176	174	95	101	96.4	284096	PASS
177	176	5	9	6.2	17677	PASS

O61227.D SIMCL091120.M Sun Sep 13 19:46:55 2020

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\je...-2020\VO2359\O61293.d Vial: 20  
 Acq On : 12 Sep 2020 5:31 pm Operator: stutip  
 Sample : bfb Inst : MSVOA12  
 Misc : MS47192,VO2359,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 459

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	31.7	117360	PASS
75	95	30	60	47.0	174059	PASS
95	95	100	100	100.0	370240	PASS
96	95	5	9	7.6	28037	PASS
173	174	0.00	2	0.5	1589	PASS
174	95	50	100	91.3	338069	PASS
175	174	5	9	7.2	24341	PASS
176	174	95	101	95.8	323925	PASS
177	176	5	9	6.4	20637	PASS

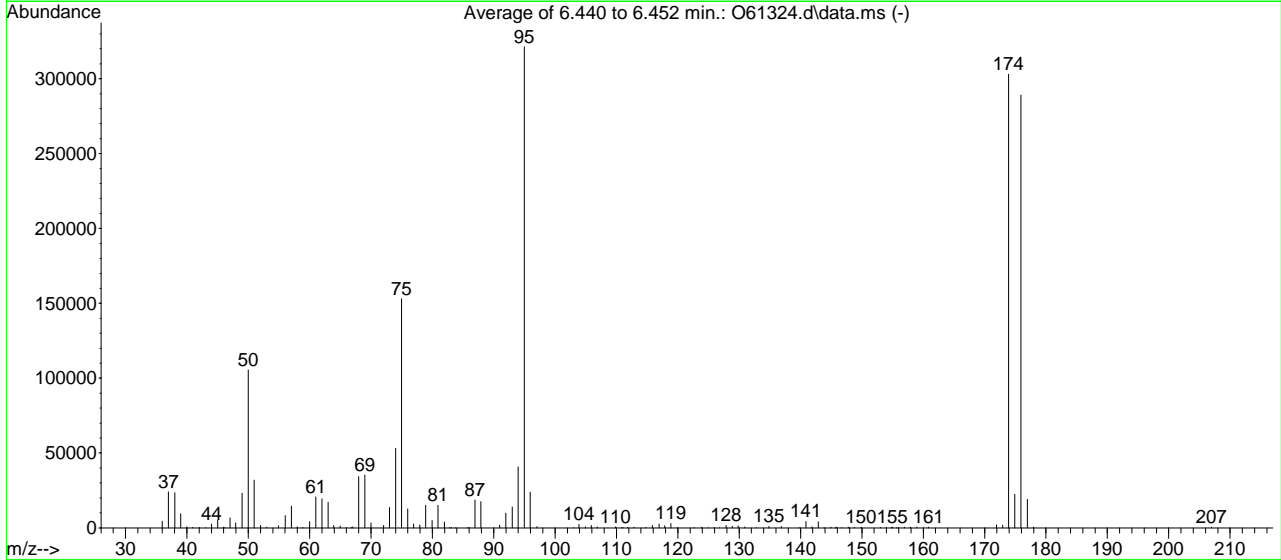
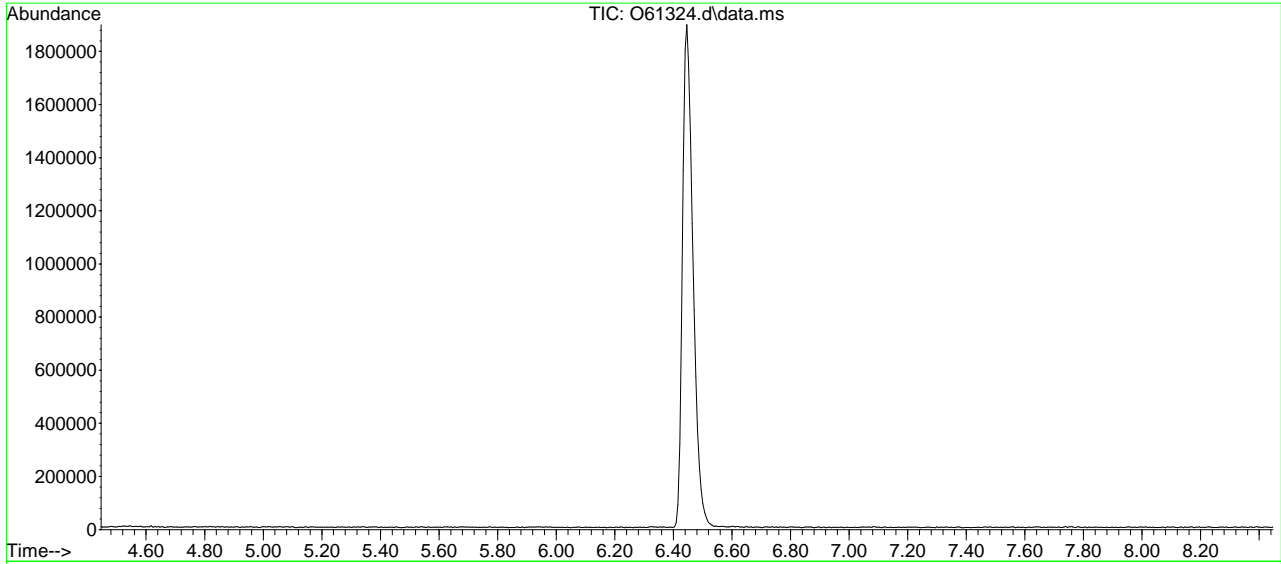


7.5.2  
7

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\je...-2020\VO2360\O61324.d Vial: 3  
 Acq On : 13 Sep 2020 11:21 am Operator: stutip  
 Sample : bfb Inst : MSVOA12  
 Misc : MS47193,VO2360,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 459

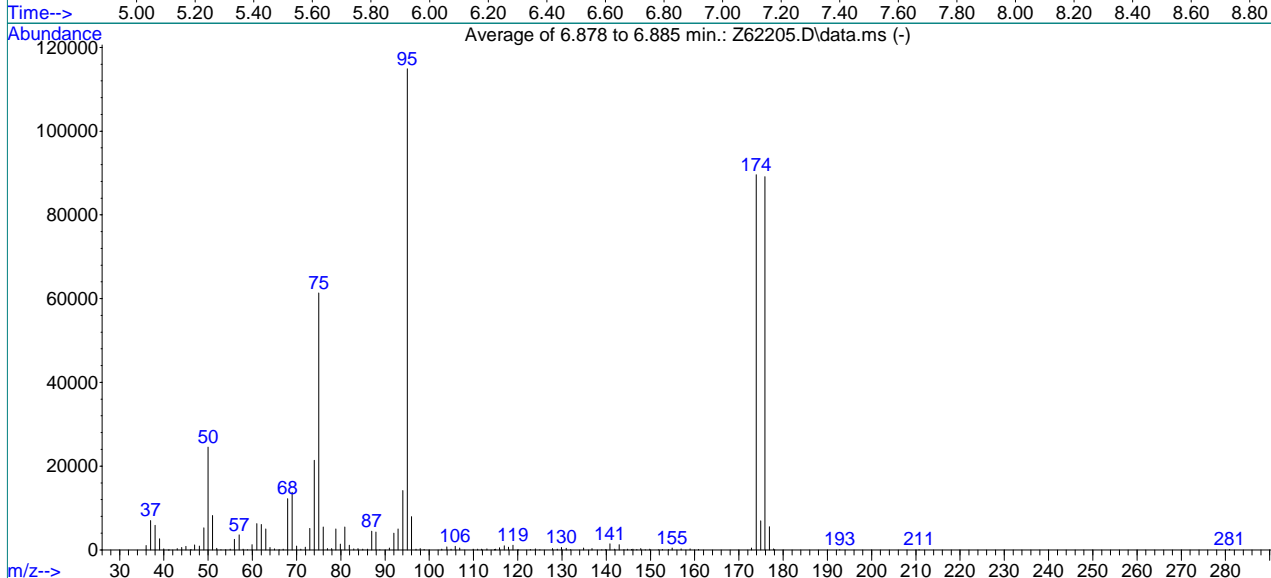
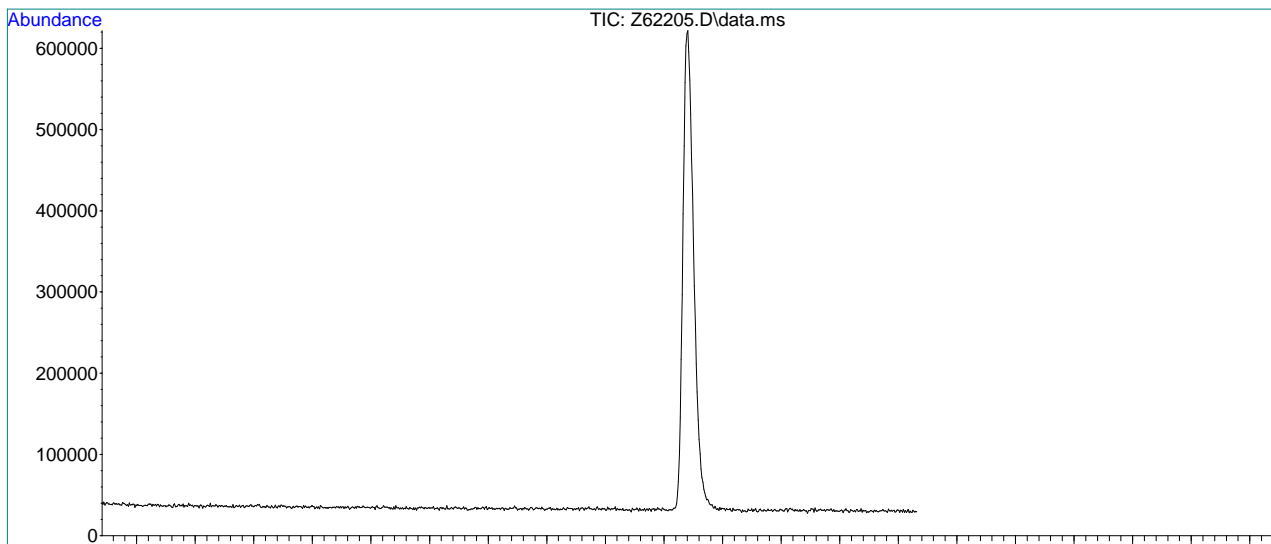
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.9	105581	PASS
75	95	30	60	47.6	153003	PASS
95	95	100	100	100.0	321323	PASS
96	95	5	9	7.4	23851	PASS
173	174	0.00	2	0.6	1727	PASS
174	95	50	100	94.3	302997	PASS
175	174	5	9	7.4	22299	PASS
176	174	95	101	95.5	289216	PASS
177	176	5	9	6.5	18941	PASS

BFB

Data File : C:\msdchem\1\data\091120\Z62205.D  
 Acq On : 11 Sep 2020 5:20 pm  
 Sample : BFB  
 Misc : MS47171,VZ2414,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: SHANICAO  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2112, 2113, 2114; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	24546	PASS
75	95	30	60	53.4	61341	PASS
95	95	100	100	100.0	114880	PASS
96	95	5	9	6.9	7912	PASS
173	174	0.00	2	0.5	429	PASS
174	95	50	100	78.0	89573	PASS
175	174	5	9	7.7	6903	PASS
176	174	95	101	99.5	89128	PASS
177	176	5	9	6.2	5541	PASS

7.5.4  
7



Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1011	48.00	892	58.90	60	70.00	922
37.00	6971	49.00	5241	59.95	1253	70.95	177
38.00	5869	49.95	24546	61.00	6279	71.95	655
39.00	2653	51.00	8188	62.00	6060	72.95	5098
39.95	227	51.95	363	63.00	4973	74.00	21419
41.00	0	52.90	63	64.00	544	75.00	61341
43.00	313	53.95	60	65.00	240	76.00	5430
44.00	548	55.00	143	66.10	58	76.95	281
44.95	816	55.95	2492	66.95	149	77.90	294
46.10	125	57.00	3597	68.00	12248	78.90	5021
46.95	1167	57.90	154	69.00	13760	79.90	1372

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	5453	92.95	4978	106.85	414	120.10	70
81.90	1129	94.00	14133	109.90	170	122.85	126
82.95	219	95.00	114880	110.90	179	123.95	220
83.90	276	96.00	7912	111.80	175	125.00	58
84.95	162	97.00	153	113.00	244	127.85	303
86.05	163	97.95	274	114.70	110	128.90	142
86.95	4427	98.85	130	115.00	187	129.90	541
87.95	4242	102.85	150	115.85	519	130.95	388
88.80	60	103.95	710	116.95	998	131.90	56
90.95	419	104.90	190	117.90	667	134.90	414
92.00	4019	105.85	848	118.90	1119	136.80	272

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

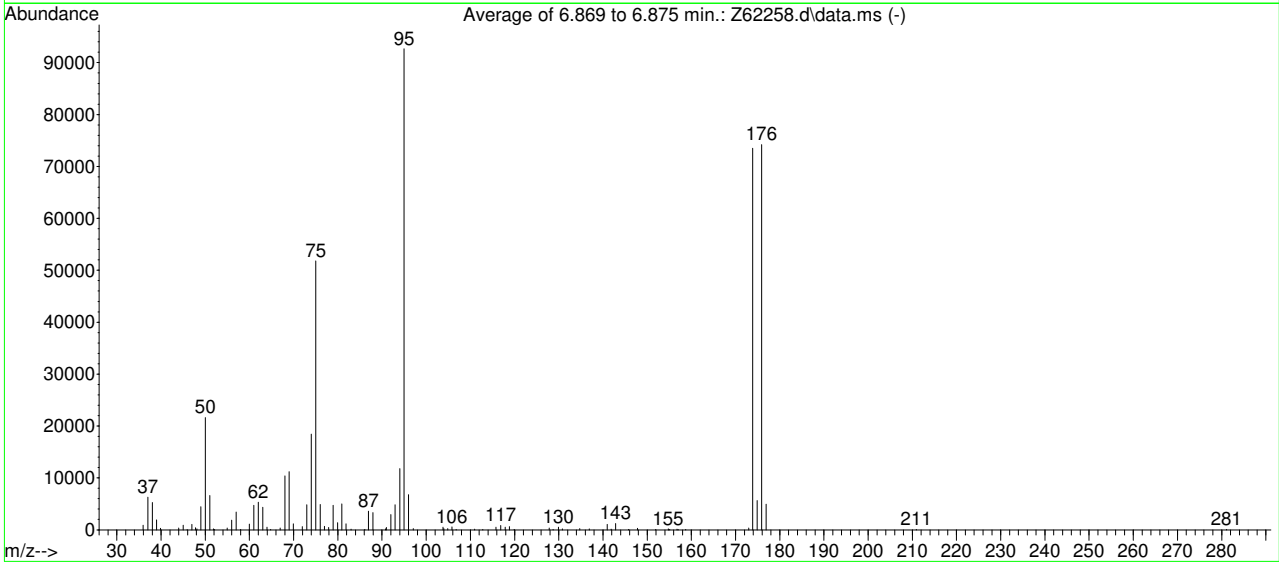
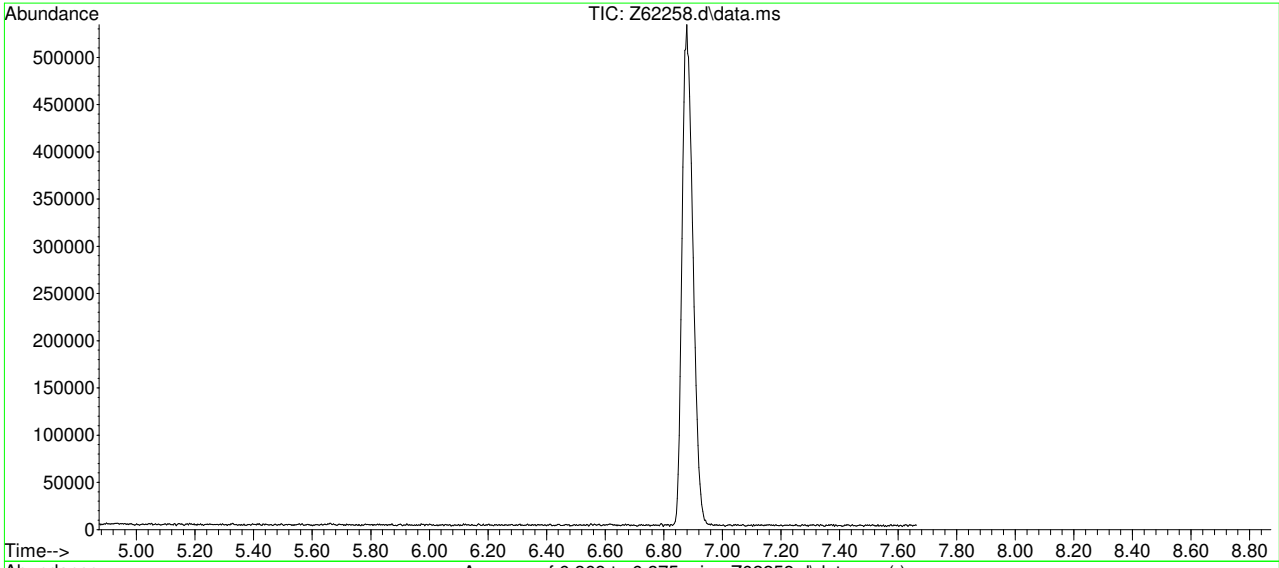
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.00	58	148.80	62	174.90	6903		
139.90	79	149.85	154	175.90	89128		
140.85	1457	151.80	52	176.90	5541		
141.90	160	152.70	111	177.85	205		
142.90	1269	154.10	53	178.10	53		
144.00	56	154.90	432	192.80	68		
144.85	153	156.90	235	210.70	66		
145.70	72	158.95	210	280.90	72		
146.00	182	160.85	116				
146.90	77	172.85	429				
147.80	337	173.90	89573				

BFB

Data File : C:\msdchem\1\data\jo...-2020\ vz2416\Z62258.d Vial: 1  
 Acq On : 12 Sep 2020 5:22 pm Operator: stutip  
 Sample : bfb Inst : MSVOA15  
 Misc : MS47183,VZ2416,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2109, 2110, 2111; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	21613	PASS
75	95	30	60	55.9	51797	PASS
95	95	100	100	100.0	92653	PASS
96	95	5	9	7.3	6785	PASS
173	174	0.00	2	0.5	352	PASS
174	95	50	100	79.4	73528	PASS
175	174	5	9	7.7	5630	PASS
176	174	95	101	100.9	74181	PASS
177	176	5	9	6.7	4951	PASS



7.5.5  
7

Average of 6.869 to 6.875 min.: Z62258.d\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	917	49.00	4457	62.00	5325	75.00	51797
37.00	6285	50.00	21613	63.00	4347	76.00	4869
38.05	5291	51.00	6640	63.95	512	76.95	673
39.00	1897	51.85	209	64.80	69	77.95	467
39.85	301	52.10	68	66.95	376	78.95	4749
44.00	354	54.95	330	68.00	10389	79.95	1387
45.00	887	56.00	1887	69.00	11212	80.90	4988
45.90	52	57.00	3459	69.95	1184	81.85	1151
46.95	1069	58.00	85	71.95	605	83.00	144
47.80	426	59.95	1130	73.00	4835	86.10	75
48.10	210	61.00	4741	74.00	18461	86.90	3584

Average of 6.869 to 6.875 min.: Z62258.d\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	3338	104.85	259	128.70	85	154.75	188
90.80	199	105.85	581	129.90	498	154.90	68
91.00	480	106.80	74	130.80	175	155.10	81
92.00	2927	110.95	121	134.75	224	156.75	140
92.95	4816	112.80	93	136.90	186	157.00	92
94.00	11798	115.80	512	140.95	1049	158.70	69
95.00	92653	116.85	827	141.85	129	173.00	352
96.00	6785	117.85	540	142.85	1201	173.90	73528
97.05	223	118.85	645	145.75	106	174.90	5630
103.80	498	119.90	81	147.80	274	175.90	74181
104.00	270	127.80	330	151.90	57	176.90	4951

Average of 6.869 to 6.875 min.: Z62258.d\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.
210.90	57				
281.10	64				

7.5.5  
7

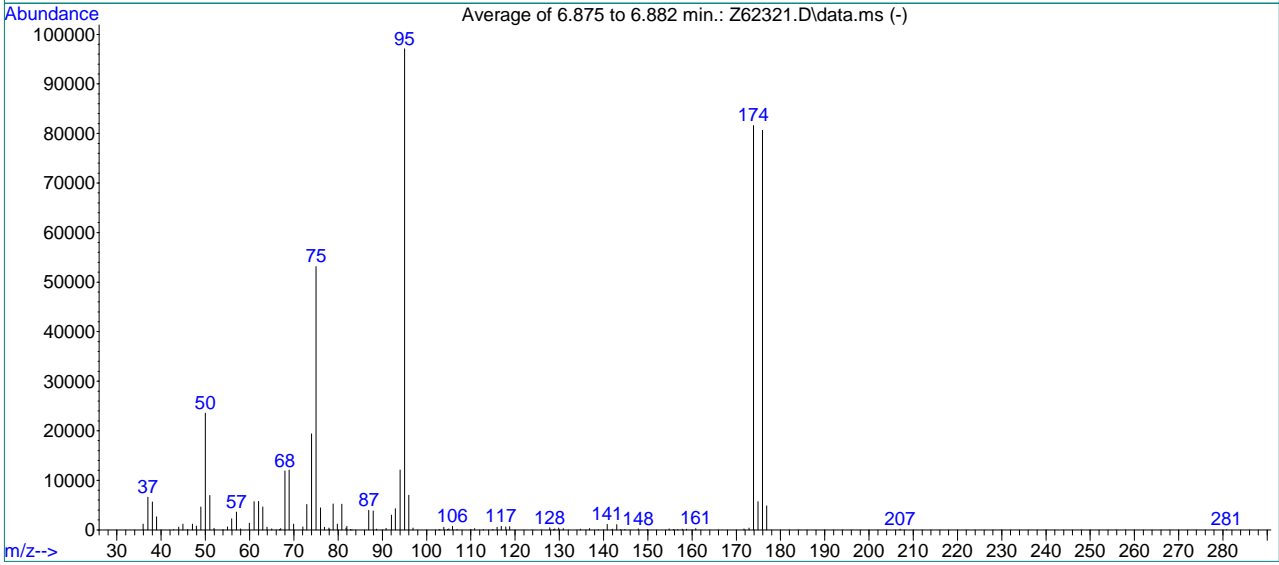
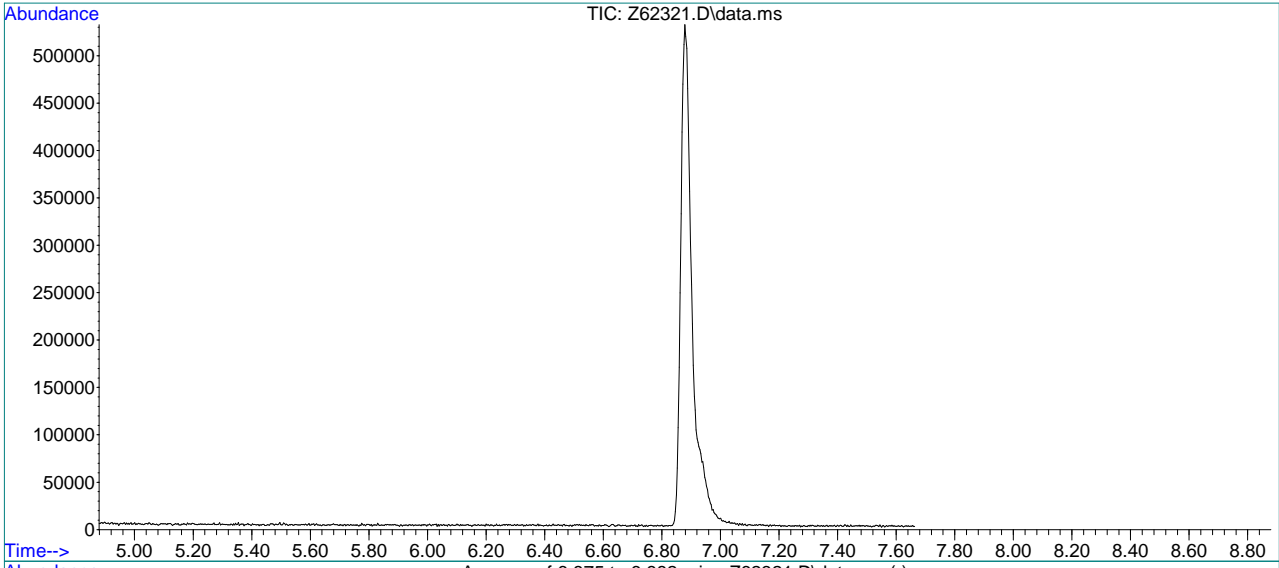


BFB

Data File : C:\msdchem\1\data\091420\Z62321.D  
 Acq On : 14 Sep 2020 11:56 am  
 Sample : BFB  
 Misc : MS47199,VZ2418,,,,,  
 MS Integration Params: RTEINT.P

Vial: 3  
 Operator: JuanG  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2111, 2112, 2113; Background Corrected with Scan 2097

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.3	23573	PASS
75	95	30	60	54.7	53144	PASS
95	95	100	100	100.0	97075	PASS
96	95	5	9	7.2	6990	PASS
173	174	0.00	2	0.5	393	PASS
174	95	50	100	84.0	81579	PASS
175	174	5	9	7.0	5714	PASS
176	174	95	101	98.8	80621	PASS
177	176	5	9	6.0	4844	PASS



7.5.6  
7

Average of 6.875 to 6.882 min.: Z62321.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	1146	50.00	23573	63.00	4618	75.00	53144
37.00	6608	51.00	6937	63.95	564	76.00	4457
38.00	5658	51.95	317	65.00	187	76.90	519
38.95	2607	54.00	53	66.80	109	77.90	372
42.85	35	55.00	621	67.05	254	78.10	155
44.00	565	55.95	2215	68.00	11935	78.85	5246
44.95	1149	57.00	3568	68.95	12098	79.85	1160
46.00	84	57.95	211	69.95	1183	80.85	5188
47.05	1171	59.95	1344	72.05	579	81.80	368
47.95	776	61.00	5664	72.95	5121	81.95	685
49.00	4634	62.00	5771	74.00	19389	82.80	67

Average of 6.875 to 6.882 min.: Z62321.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.10	57	102.80	58	115.90	512	138.80	54
86.95	3934	103.00	57	116.85	730	140.85	1121
87.95	3836	103.90	558	117.90	594	141.95	168
88.70	131	104.70	70	118.80	673	142.95	1077
90.85	296	105.05	185	127.85	419	143.80	51
92.05	2951	105.85	706	128.70	63	144.80	99
92.95	4285	106.90	111	128.95	195	147.85	219
94.00	12087	110.00	80	129.85	373	149.90	110
95.00	97075	110.85	258	130.90	277	154.80	184
96.00	6990	112.80	80	134.75	148	155.80	79
96.95	389	114.95	103	136.85	235	156.80	107

Average of 6.875 to 6.882 min.: Z62321.D\data.ms

BFB

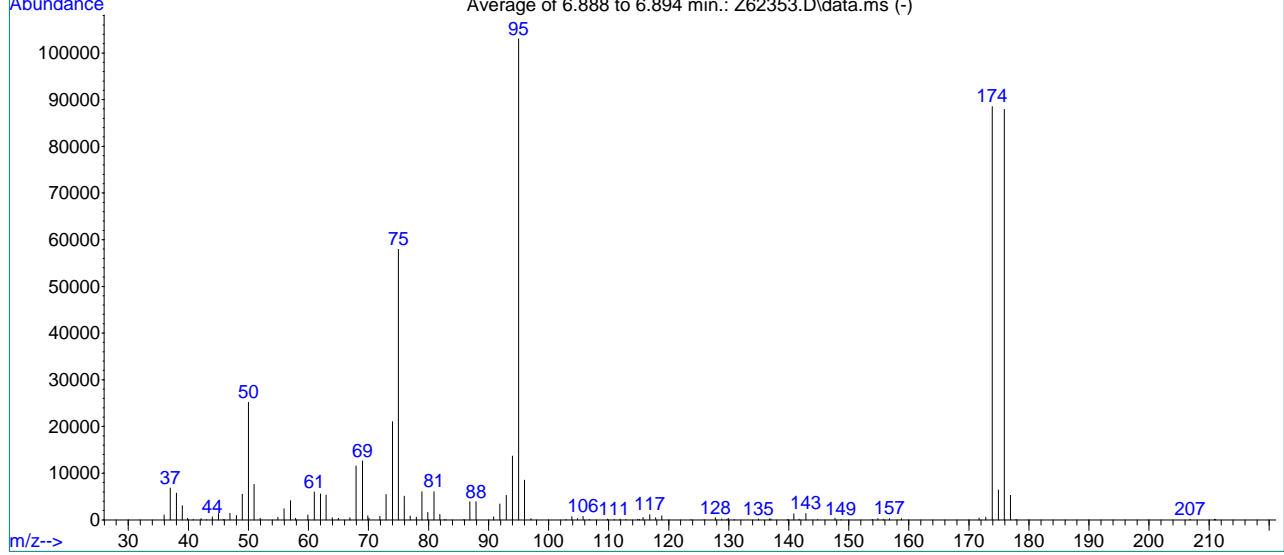
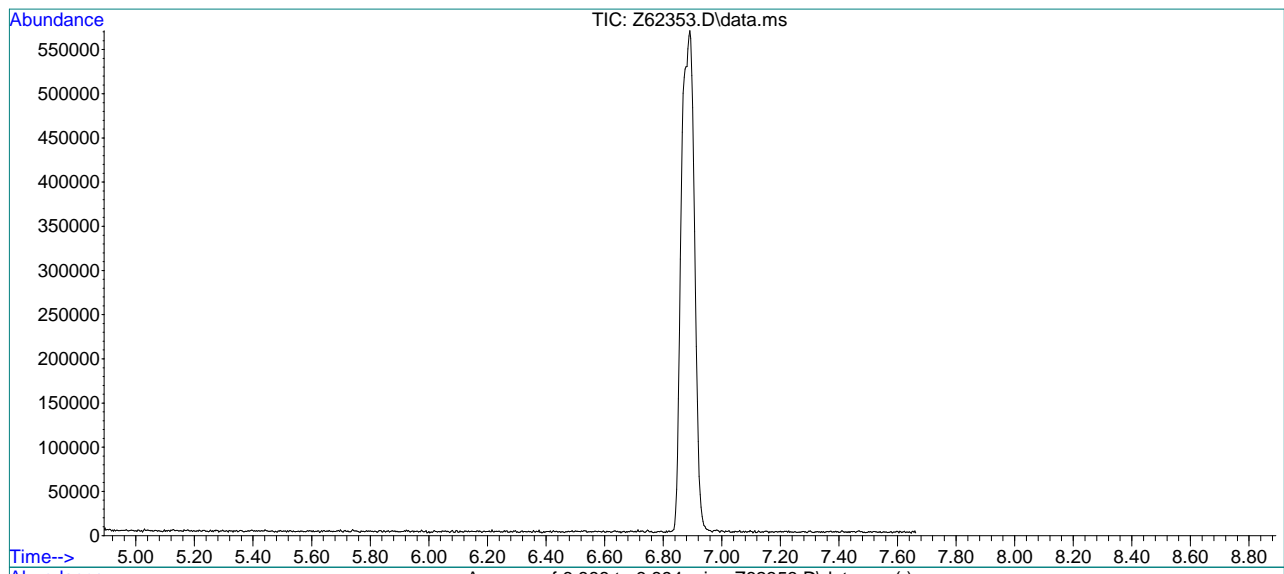
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.80	146						
158.75	169						
160.85	254						
171.75	189						
172.85	393						
173.90	81579						
174.90	5714						
175.90	80621						
176.90	4844						
207.05	155						
280.80	54						

BFB  
 Data File : C:\msdchem\1\data\091520\Z62353.D  
 Acq On : 15 Sep 2020 1:19 pm  
 Sample : BFB  
 Misc : MS47199,VZ2419,,,,,  
 MS Integration Params: RTEINT.P

Vial: 3  
 Operator: JuanG  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2115, 2116, 2117; Background Corrected with Scan 2097

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.4	25171	PASS
75	95	30	60	56.3	57957	PASS
95	95	100	100	100.0	103013	PASS
96	95	5	9	8.2	8476	PASS
173	174	0.00	2	0.6	575	PASS
174	95	50	100	85.9	88536	PASS
175	174	5	9	7.2	6388	PASS
176	174	95	101	99.3	87899	PASS
177	176	5	9	6.0	5269	PASS



7.5.7  
7

Average of 6.888 to 6.894 min.: Z62353.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	1082	46.00	54	59.90	1051	71.90	749
37.00	6827	46.95	1418	61.00	5985	72.95	5421
38.00	5751	48.00	927	62.00	5539	74.00	21035
39.00	3042	49.00	5485	62.95	5330	75.00	57957
39.90	361	50.00	25171	63.95	474	75.95	5059
40.80	65	50.95	7624	65.00	327	76.95	811
42.10	287	51.95	362	66.90	461	77.95	551
43.05	55	54.90	558	67.95	11545	78.90	6052
44.00	646	55.95	2387	69.00	12644	79.90	1614
45.00	1328	57.00	4106	69.90	883	80.90	6051
45.80	103	57.85	311	70.10	312	81.90	1173

Average of 6.888 to 6.894 min.: Z62353.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.70	59	97.05	277	115.10	81	130.90	64
82.90	54	102.90	79	115.75	540	134.95	234
85.90	74	103.85	710	116.85	1108	136.80	194
86.90	3846	104.80	294	117.85	457	137.00	200
87.90	3874	105.75	744	118.85	872	139.80	100
90.85	647	106.75	103	123.70	55	140.85	1299
91.90	3418	109.80	144	125.90	63	141.75	124
92.95	5261	110.90	114	127.75	466	142.85	1358
94.00	13682	111.90	133	128.85	220	144.80	72
95.00	103013	112.90	119	129.70	121	147.70	345
96.00	8476	114.85	130	129.90	325	148.70	60

Average of 6.888 to 6.894 min.: Z62353.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.90	105	177.85	117				
154.85	257	206.85	173				
155.75	128	210.90	149				
156.75	293	211.10	71				
158.75	257						
171.70	382						
172.80	575						
173.90	88536						
174.90	6388						
175.90	87899						
176.90	5269						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	316238	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	240066	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	128832	4.64	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%		
19) Toluene-d8	8.896	98	278677	4.75	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.905	62	3529	0.11	ug/L		100
3) Chloromethane	2.799	50	8825m	0.19	ug/L		
4) 1,1-Dichloroethene	4.089	61	4096	0.10	ug/L		83
5) Methylene Chloride	4.700	49	136057	1.74	ug/L		97
6) trans-1,2-Dichloroethene	4.869	61	5203	0.10	ug/L		83
7) 1,1-Dichloroethane	5.514	63	5816	0.10	ug/L		97
8) cis-1,2-Dichloroethene	6.072	96	2981	0.11	ug/L		88
9) Chloroform	6.333	83	5313	0.11	ug/L		81
10) Carbon Tetrachloride	6.505	117	3177	0.11	ug/L		80
11) 1,1,1-Trichloroethane	6.576	97	3749	0.11	ug/L		92
12) Benzene	6.943	78	10630m	0.11	ug/L		
14) 1,2-Dichloroethane	7.139	62	4857	0.09	ug/L		92
15) Trichloroethene	7.512	95	2945	0.11	ug/L		89
16) 1,2-Dichloropropane	8.040	63	3248m	0.09	ug/L		
17) cis-1,3-Dichloropropene	8.711	75	3070	0.08	ug/L		97
20) trans-1,3-Dichloropropene	9.343	75	2765	0.08	ug/L		91
21) Tetrachloroethene	9.343	166	2702m	0.12	ug/L		
22) 1,4-Dichlorobenzene	12.827	146	5272	0.10	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.038	75	1605m	0.12	ug/L		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.1  
7

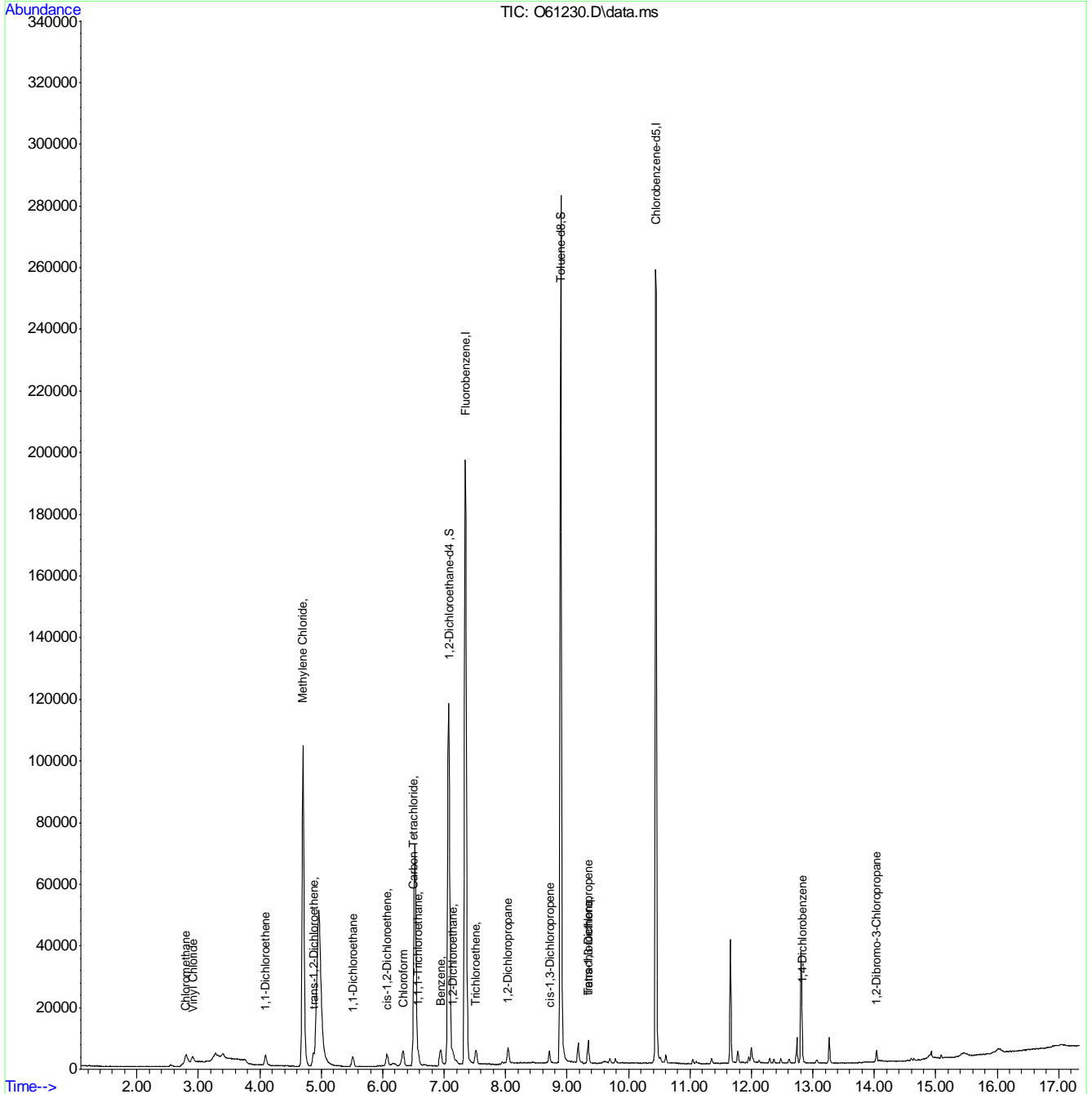


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.9.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61230.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:34      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.80	Poor instrument integration
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloropropane	78-87-5		8.04	Poor instrument integration
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration
1,2-Dibromo-3-chloropropane	96-12-8		14.04	Poor instrument integration

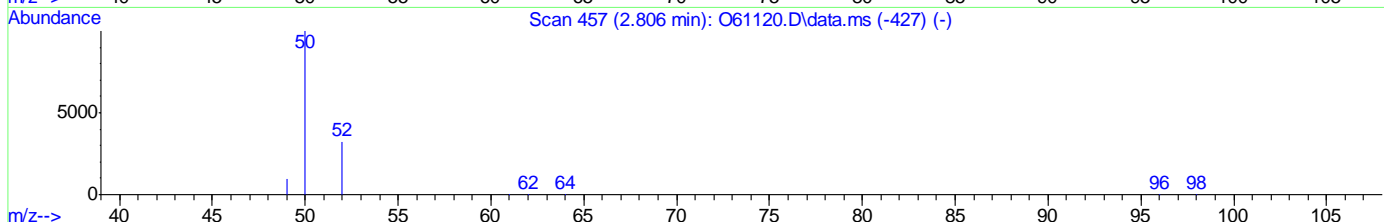
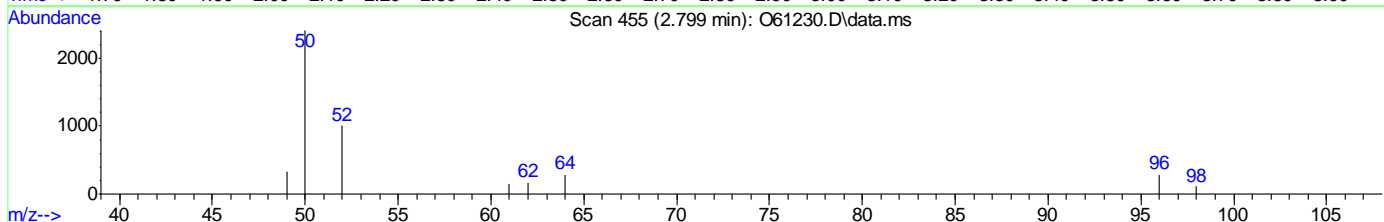
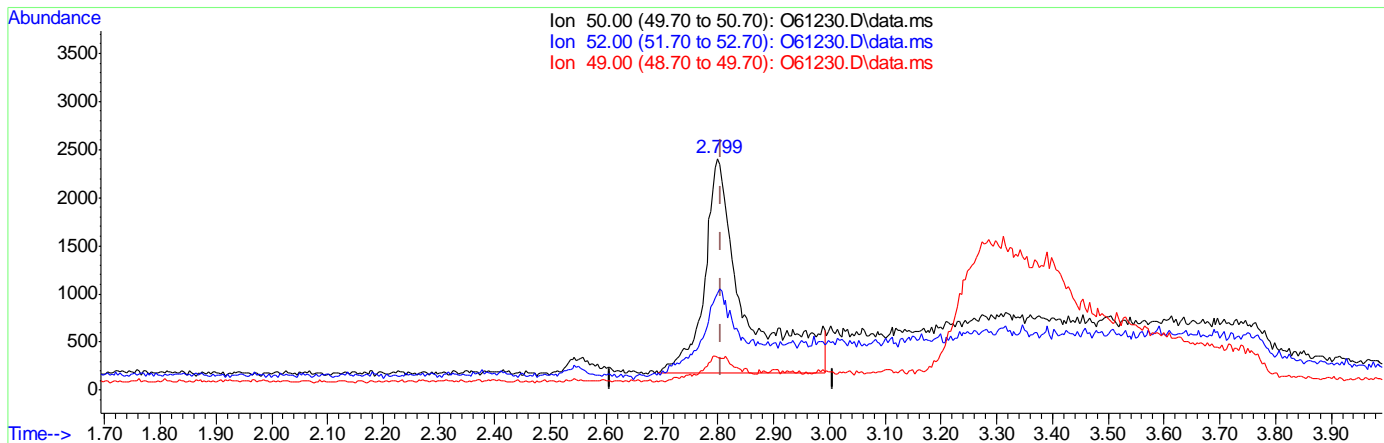
7.6.1.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(3) Chloromethane  
 2.799min (-0.007) 0.24ug/L  
 response 11047

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	37.05
49.00	10.50	11.15
0.00	0.00	0.00

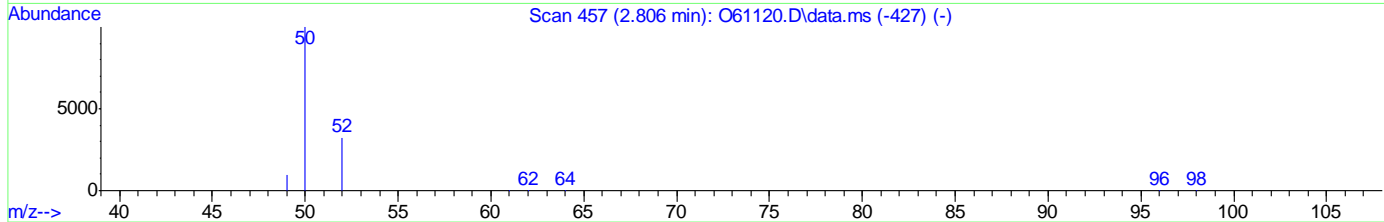
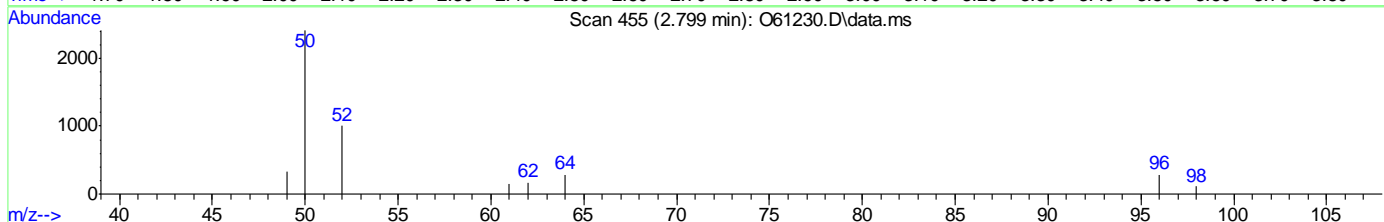
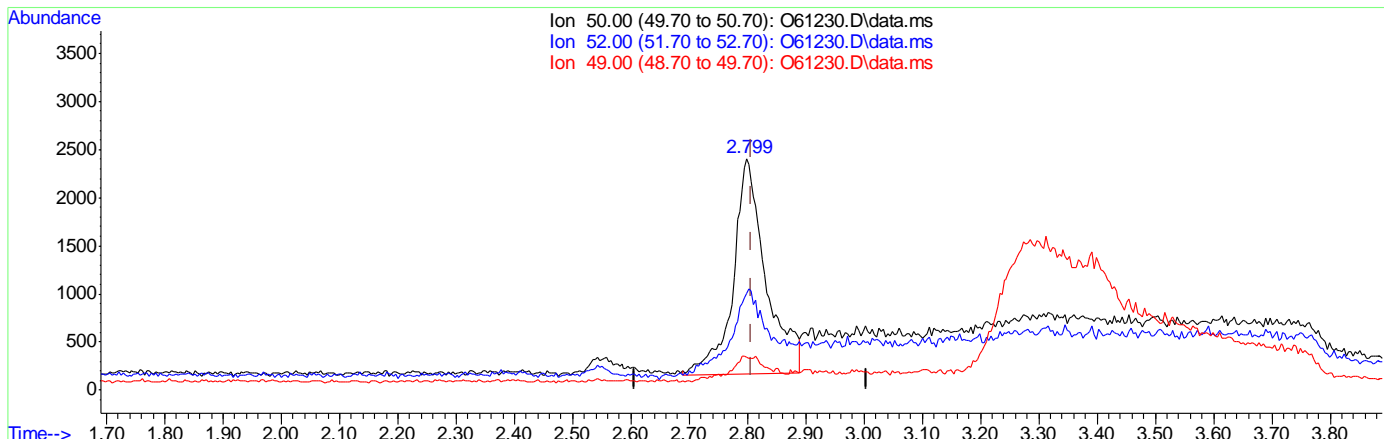
7.6.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(3) Chloromethane  
 2.799min (-0.007) 0.19ug/L m  
 response 8787

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

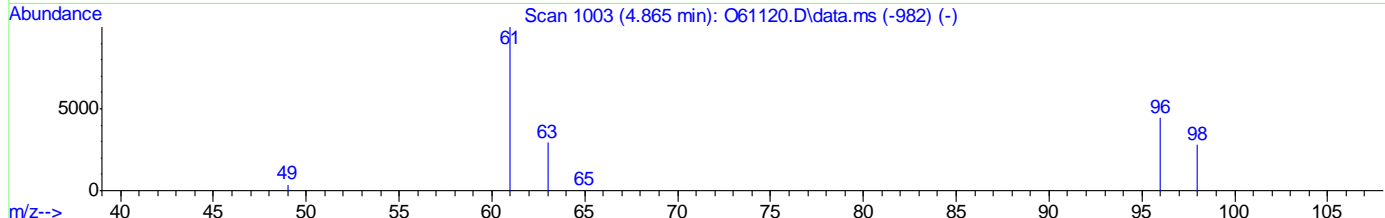
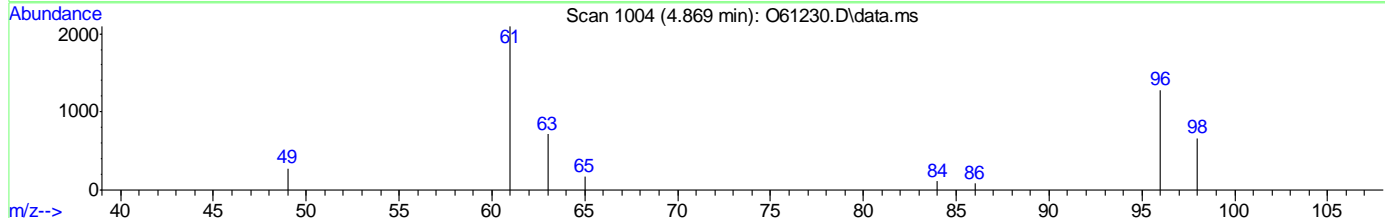
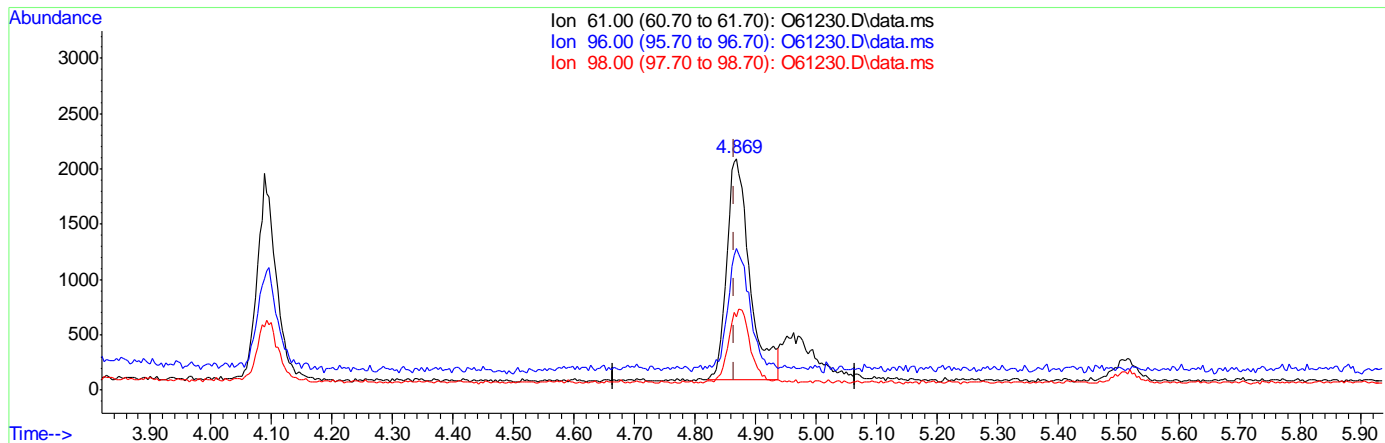
7.6.1.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(6) trans-1,2-Dichloroethene ( )

4.869min (+0.004) 0.10ug/L

response 5203

Ion	Exp%	Act%
61.00	100	100
96.00	66.90	54.30
98.00	41.10	28.92
0.00	0.00	0.00

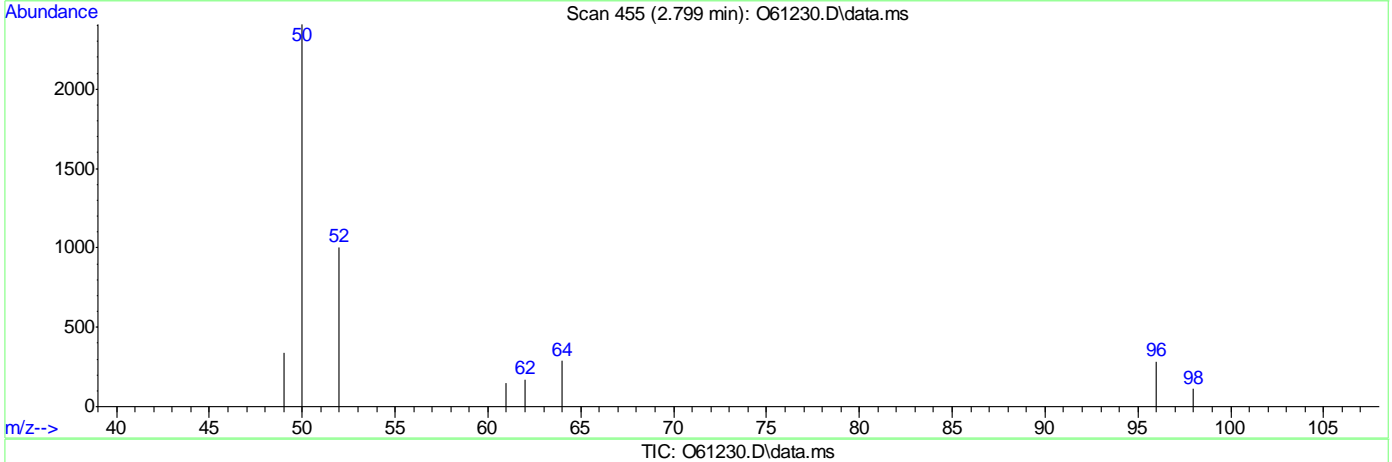
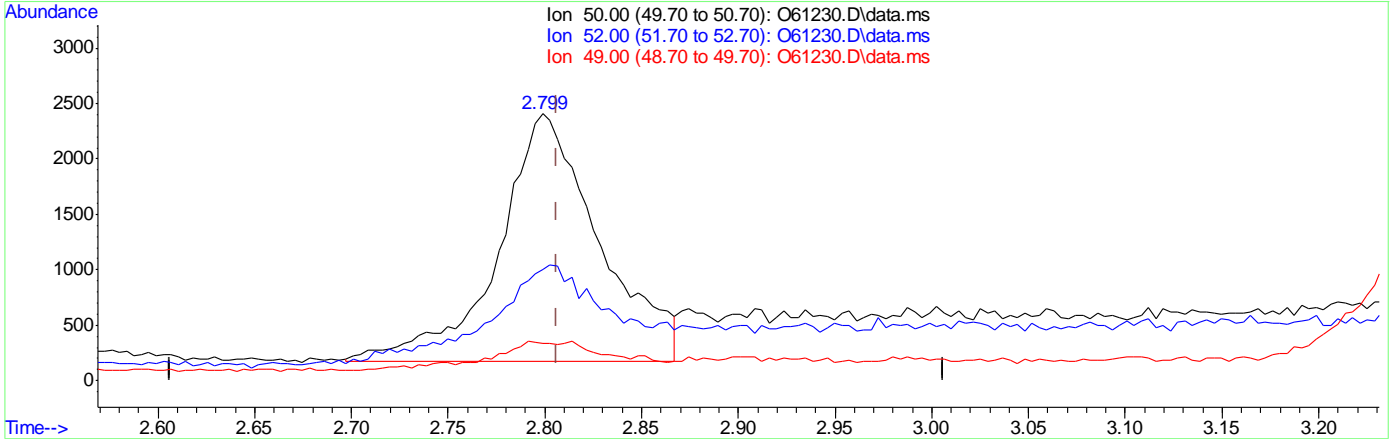
7.6.1.4

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.17ug/L m

response 8061

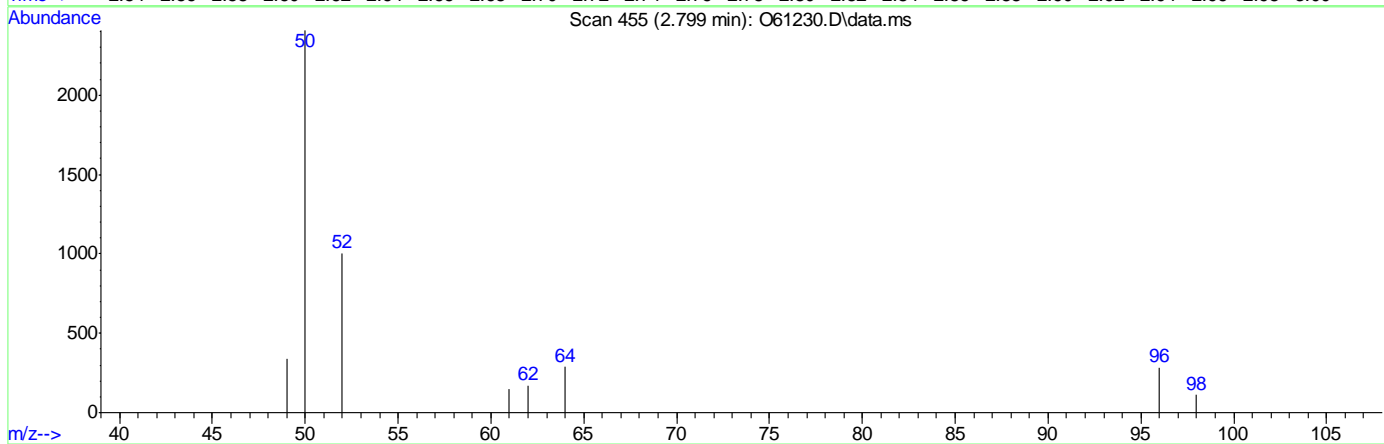
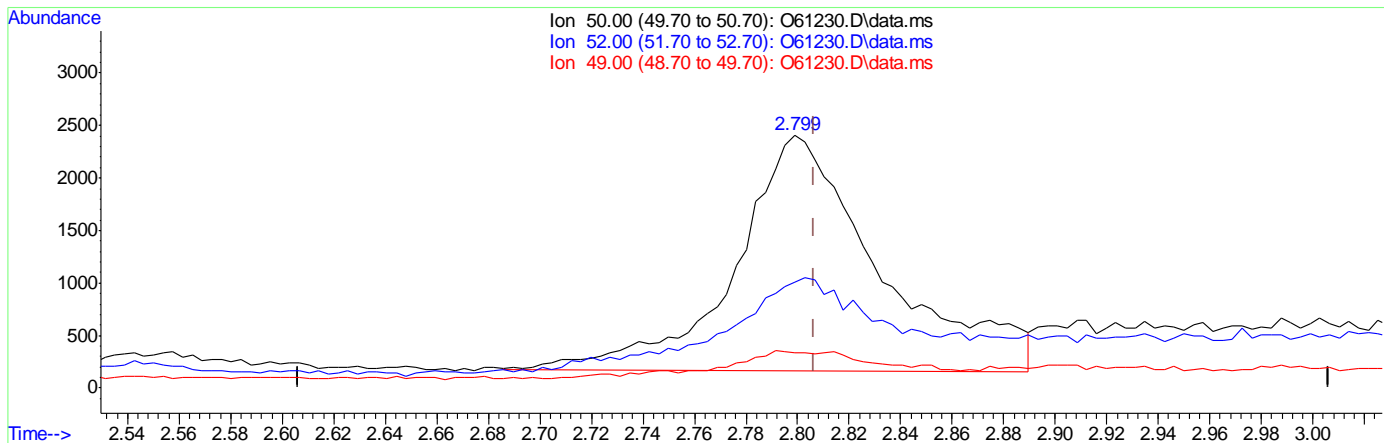
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

7.6.1.5  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.19ug/L m

response 8825

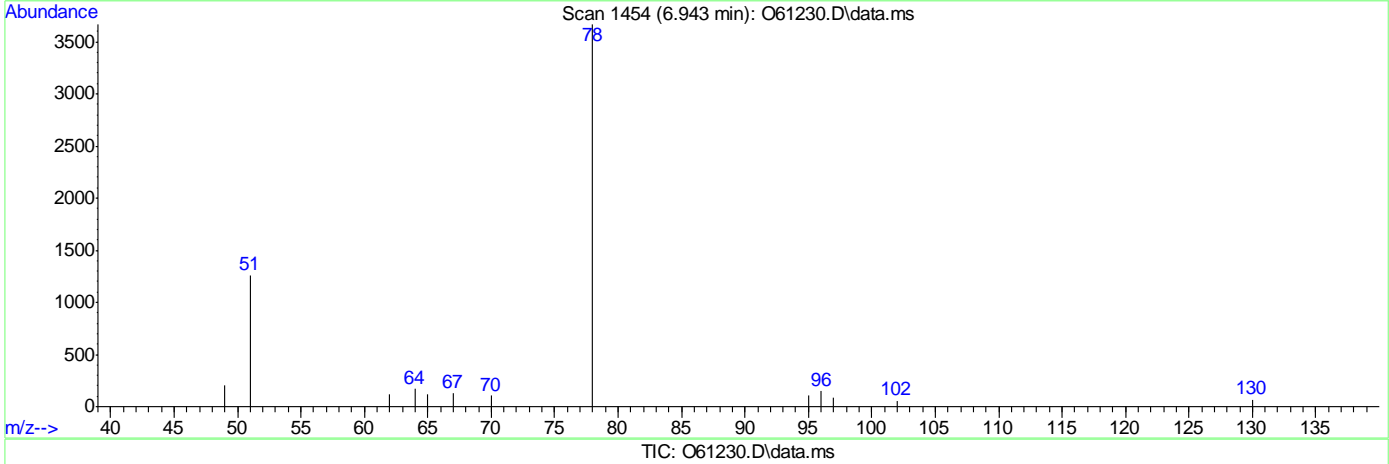
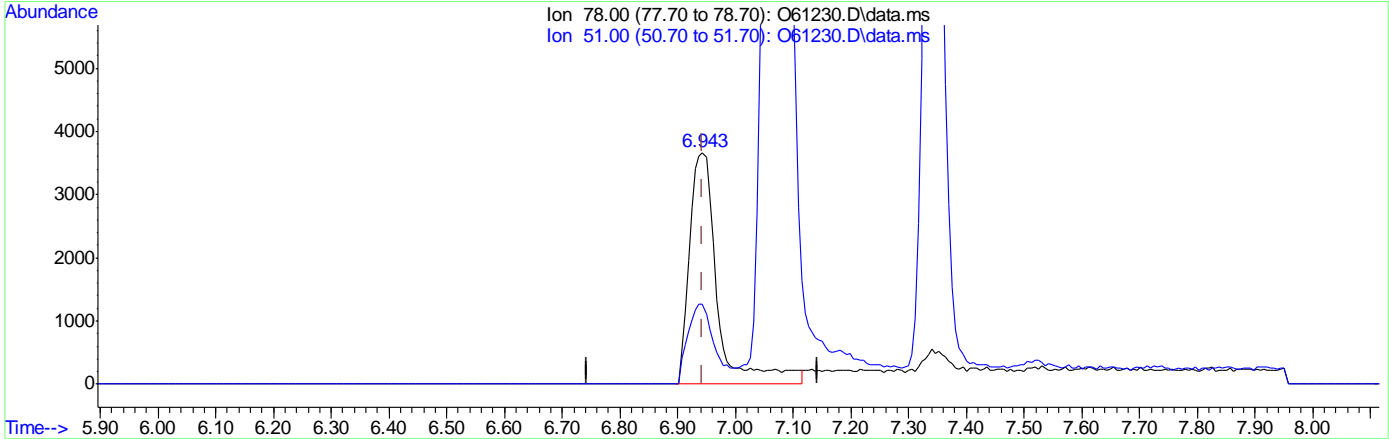
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

7.6.1.6  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.13ug/L  
 response 12135

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

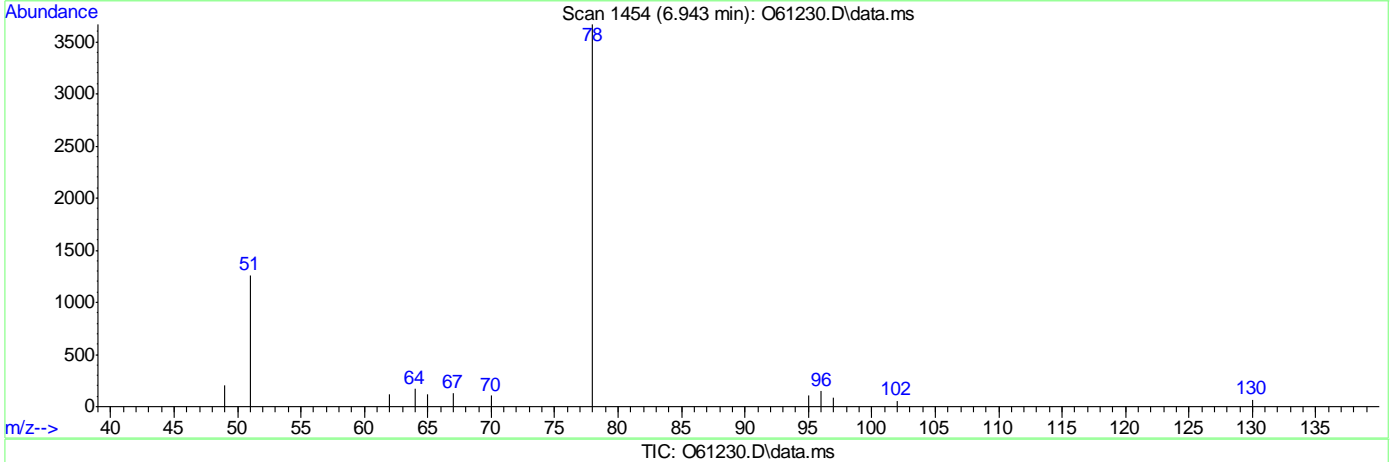
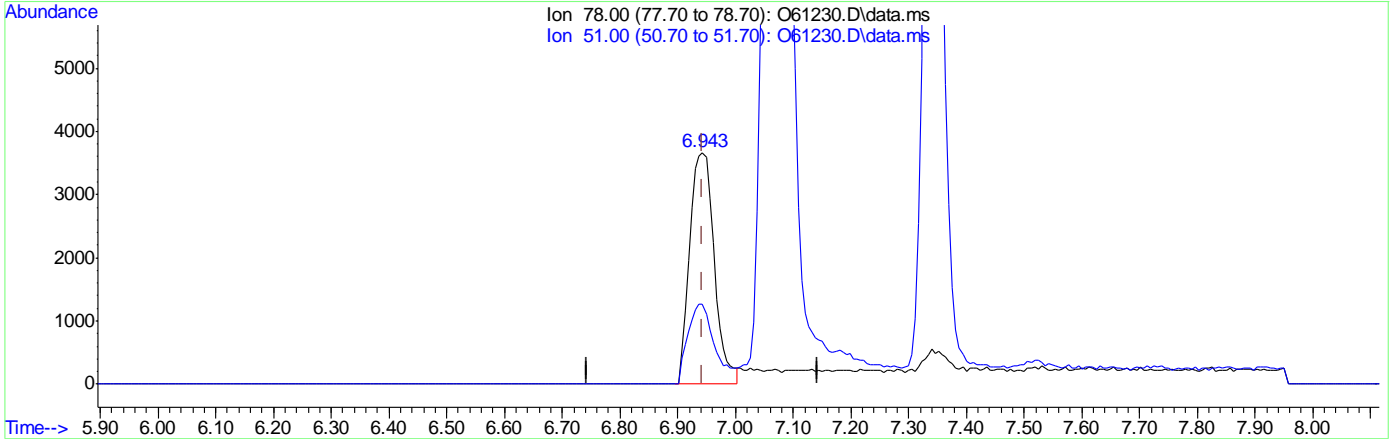
7.6.1.7  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.11ug/L m  
 response 10630

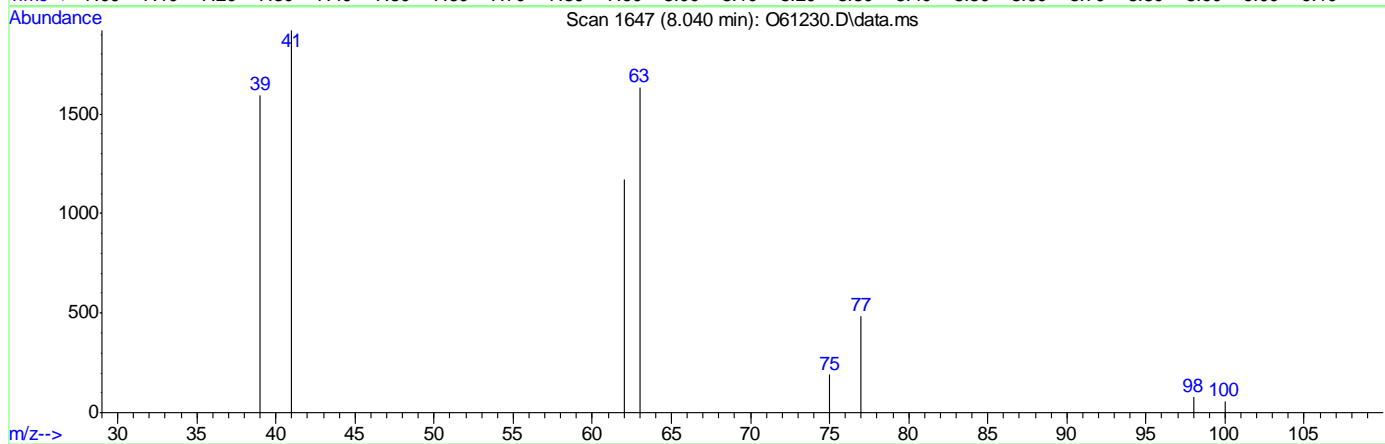
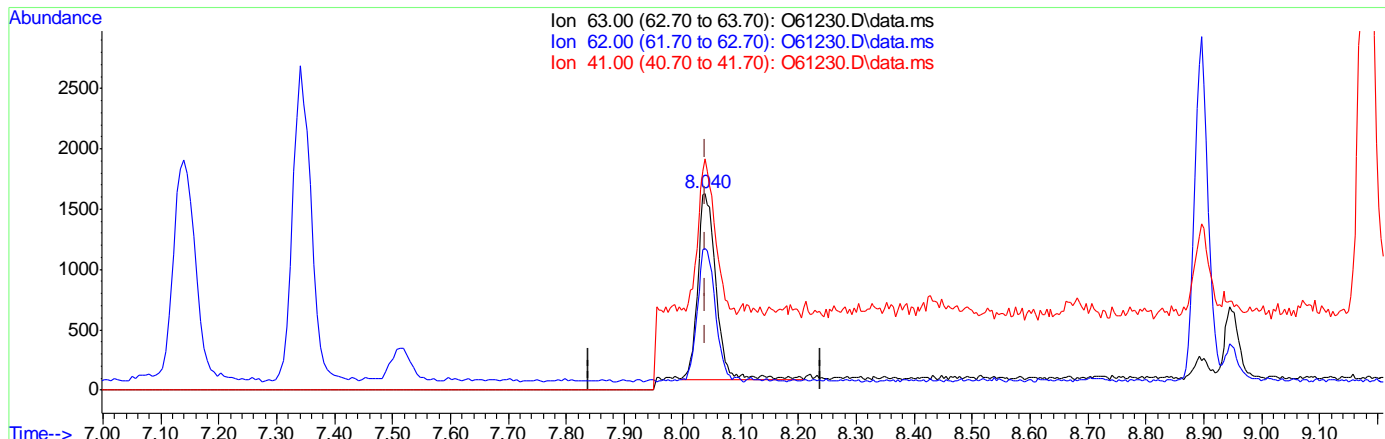
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.10ug/L  
 response 3437

Ion	Exp%	Act%
63.00	100	100
62.00	72.70	70.53
41.00	84.50	81.61
0.00	0.00	0.00

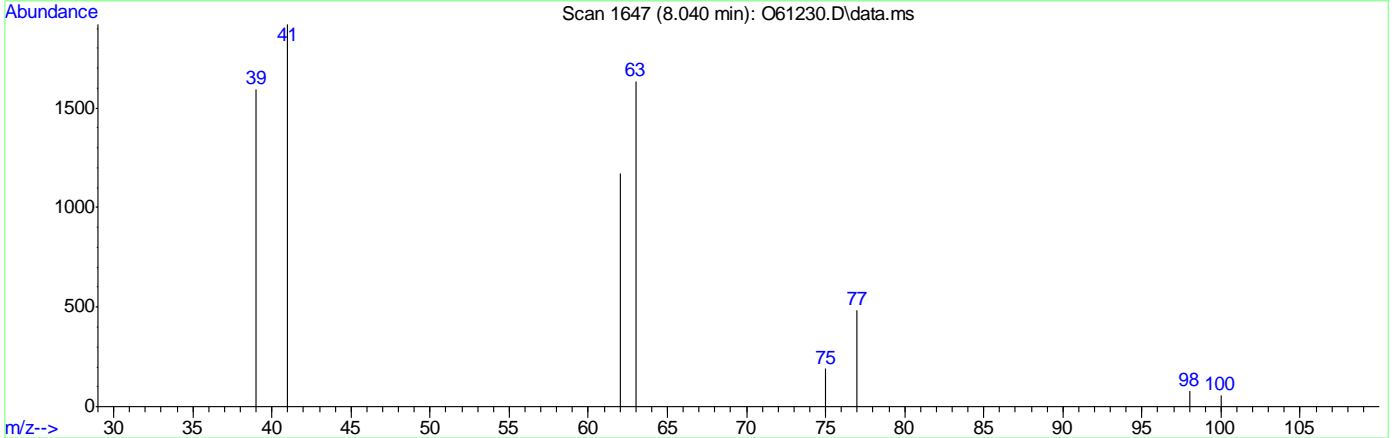
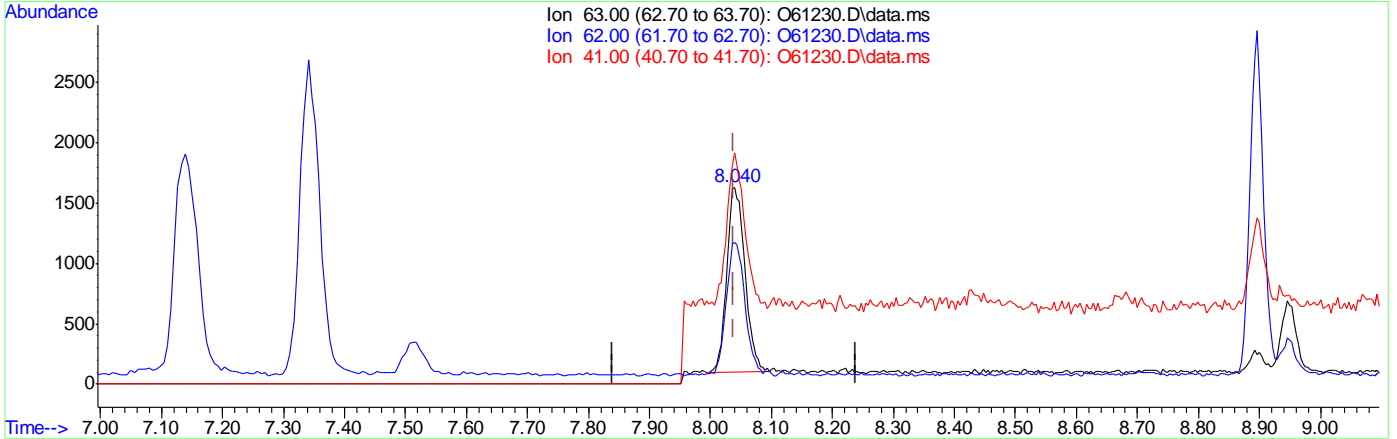
7.6.1.9  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.09ug/L m  
 response 3248

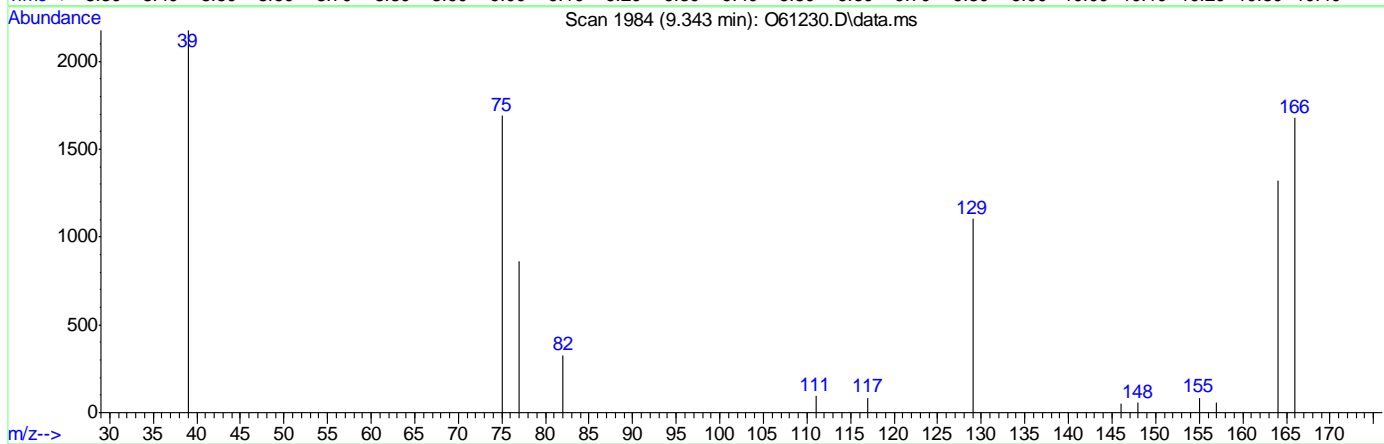
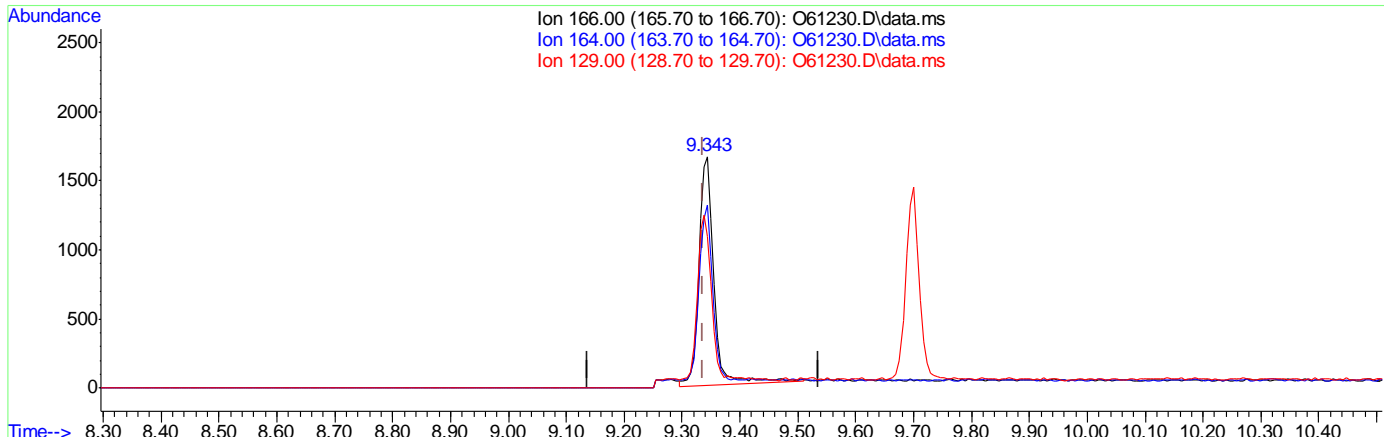
Ion	Exp%	Act%
63.00	100	100
62.00	72.70	71.77
41.00	84.50	117.58#
0.00	0.00	0.00

7.6.1.10  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )  
 9.343min (+0.006) 0.13ug/L  
 response 2993

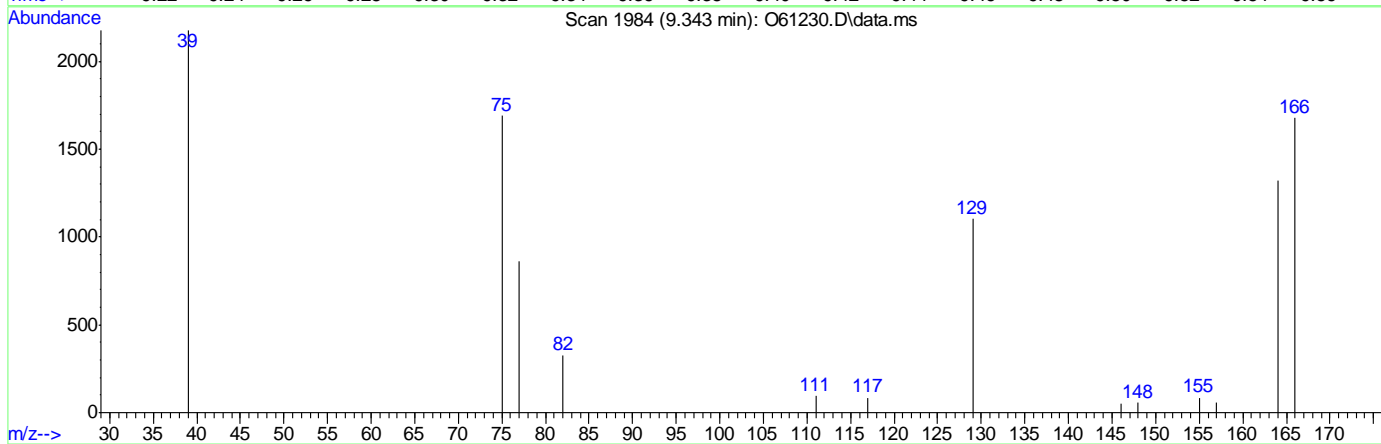
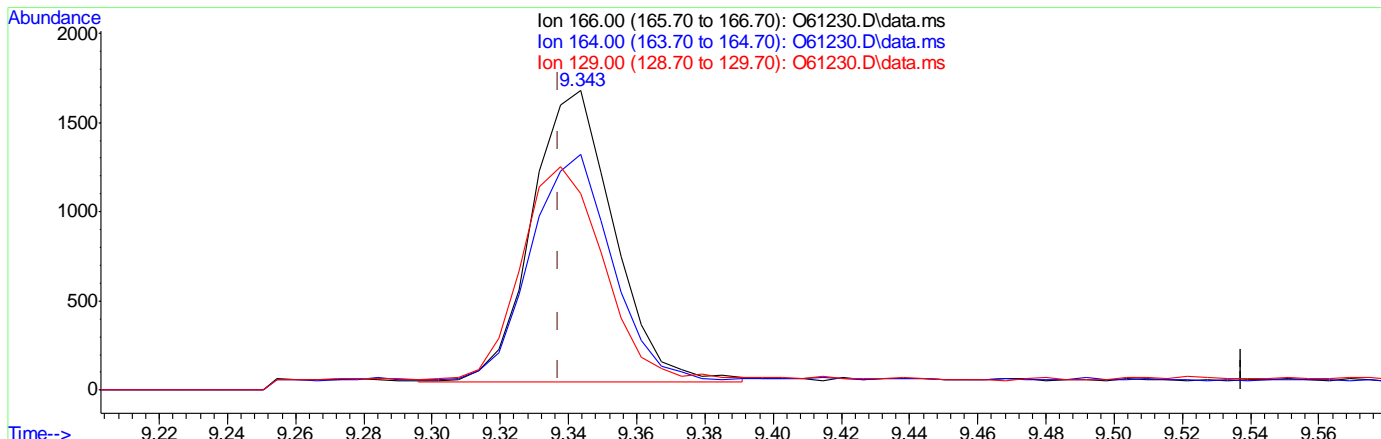
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	77.82
129.00	67.50	64.20
0.00	0.00	0.00

7.6.1.11  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.006) 0.12ug/L m

response 2702

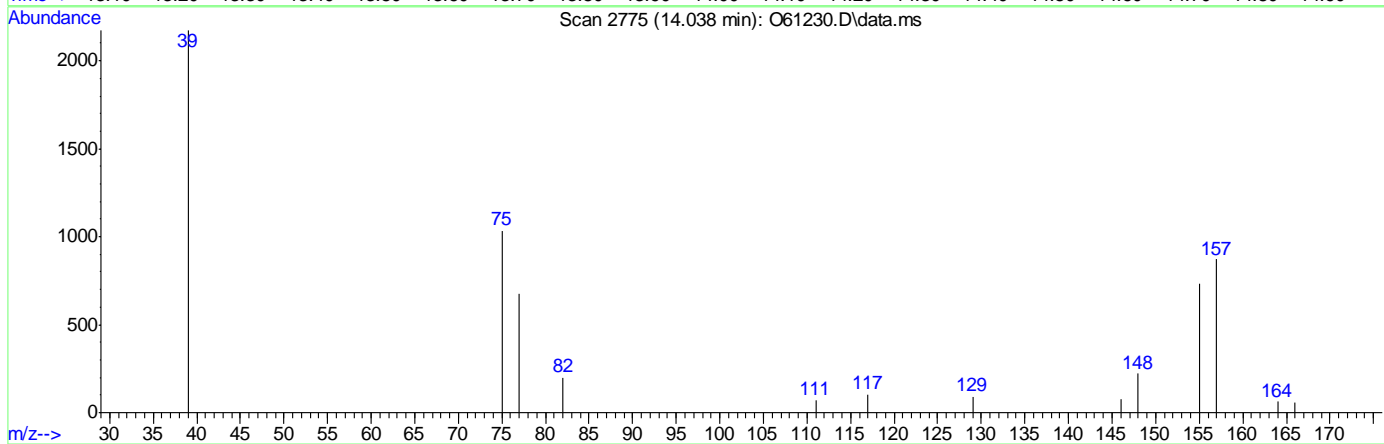
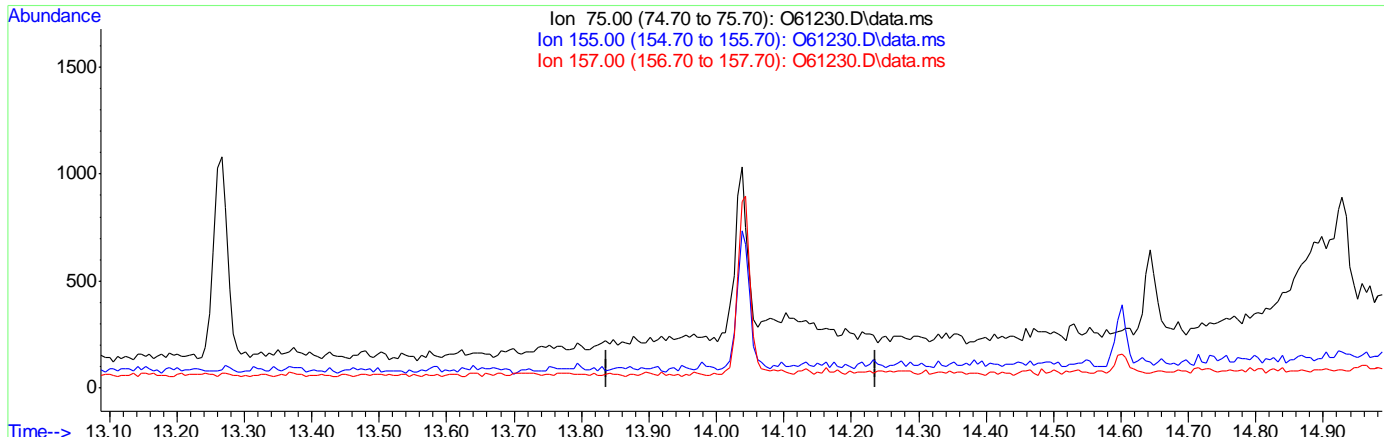
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	78.83
129.00	67.50	65.71
0.00	0.00	0.00

7.6.1.12  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.037min (-14.037) 0.00ug/L

response 0

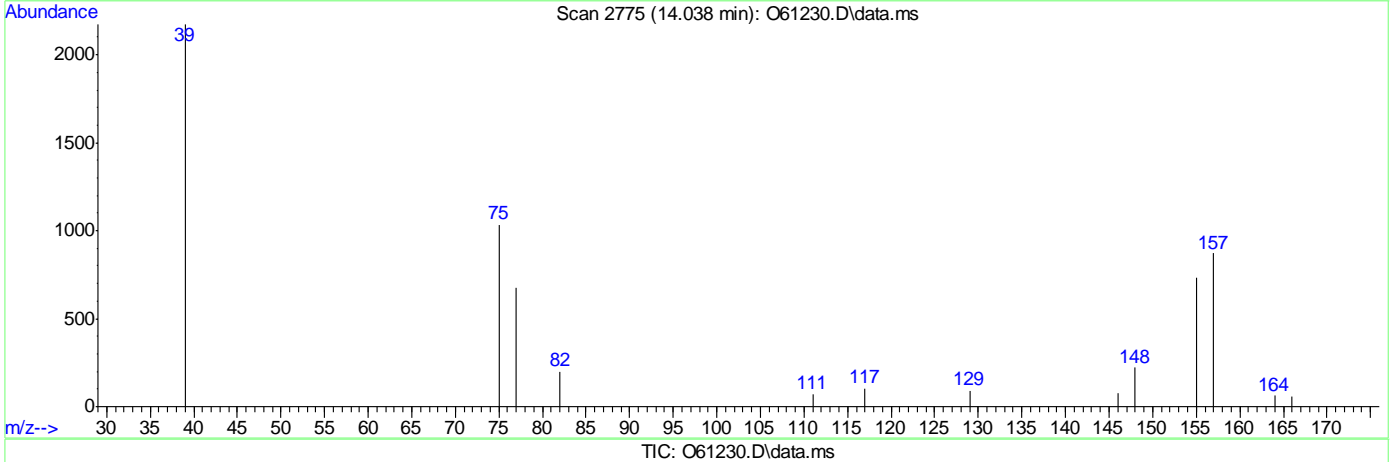
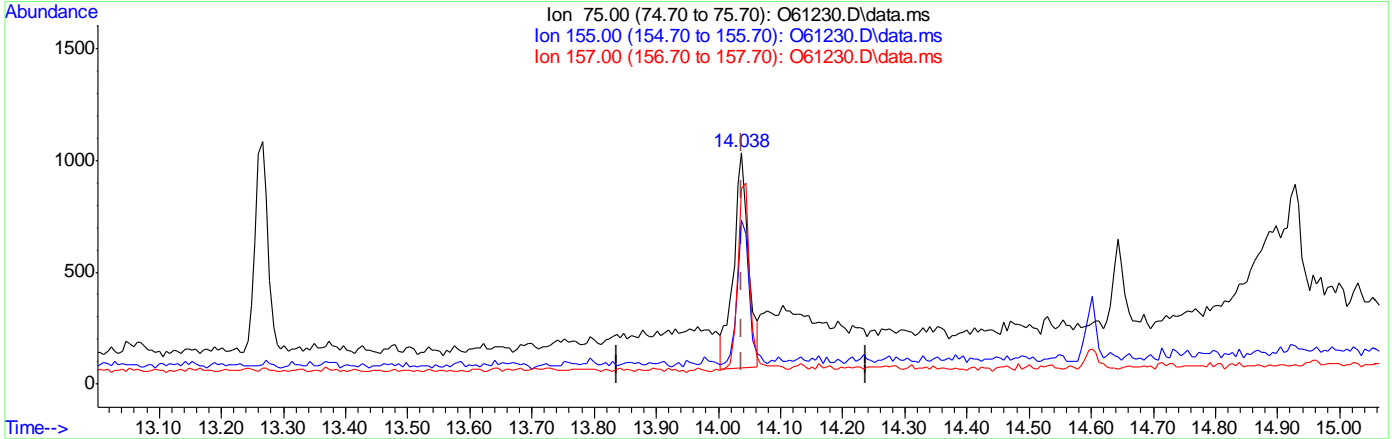
Ion	Exp%	Act%
75.00	100	0.00
155.00	88.00	0.00#
157.00	106.80	0.00#
0.00	0.00	0.00

7.6.1.13  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.038min (+0.000) 0.12ug/L m

response 1605

Ion	Exp%	Act%
75.00	100	100
155.00	88.00	70.99
157.00	106.80	84.43#
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : stutip  
 Sample : IC2356-2 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 18:02:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	308238	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	234700	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	125580	4.64	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%		
19) Toluene-d8	8.896	98	269907	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	19507	0.64	ug/L		96
3) Chloromethane	2.799	50	33695	0.75	ug/L		90
4) 1,1-Dichloroethene	4.092	61	22337	0.54	ug/L		92
5) Methylene Chloride	4.703	49	128834	1.69	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	28030	0.55	ug/L		84
7) 1,1-Dichloroethane	5.514	63	30310	0.52	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	14558	0.56	ug/L #		80
9) Chloroform	6.333	83	26026	0.55	ug/L		94
10) Carbon Tetrachloride	6.510	117	17328	0.59	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	19399	0.57	ug/L		89
12) Benzene	6.943	78	51252m	0.56	ug/L		
14) 1,2-Dichloroethane	7.139	62	24323	0.48	ug/L		91
15) Trichloroethene	7.512	95	15009	0.56	ug/L		93
16) 1,2-Dichloropropane	8.040	63	17486	0.52	ug/L		93
17) cis-1,3-Dichloropropene	8.711	75	15877	0.42	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	14216	0.40	ug/L		98
21) Tetrachloroethene	9.337	166	14813	0.65	ug/L		90
22) 1,4-Dichlorobenzene	12.827	146	27579	0.56	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	6106	0.47	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

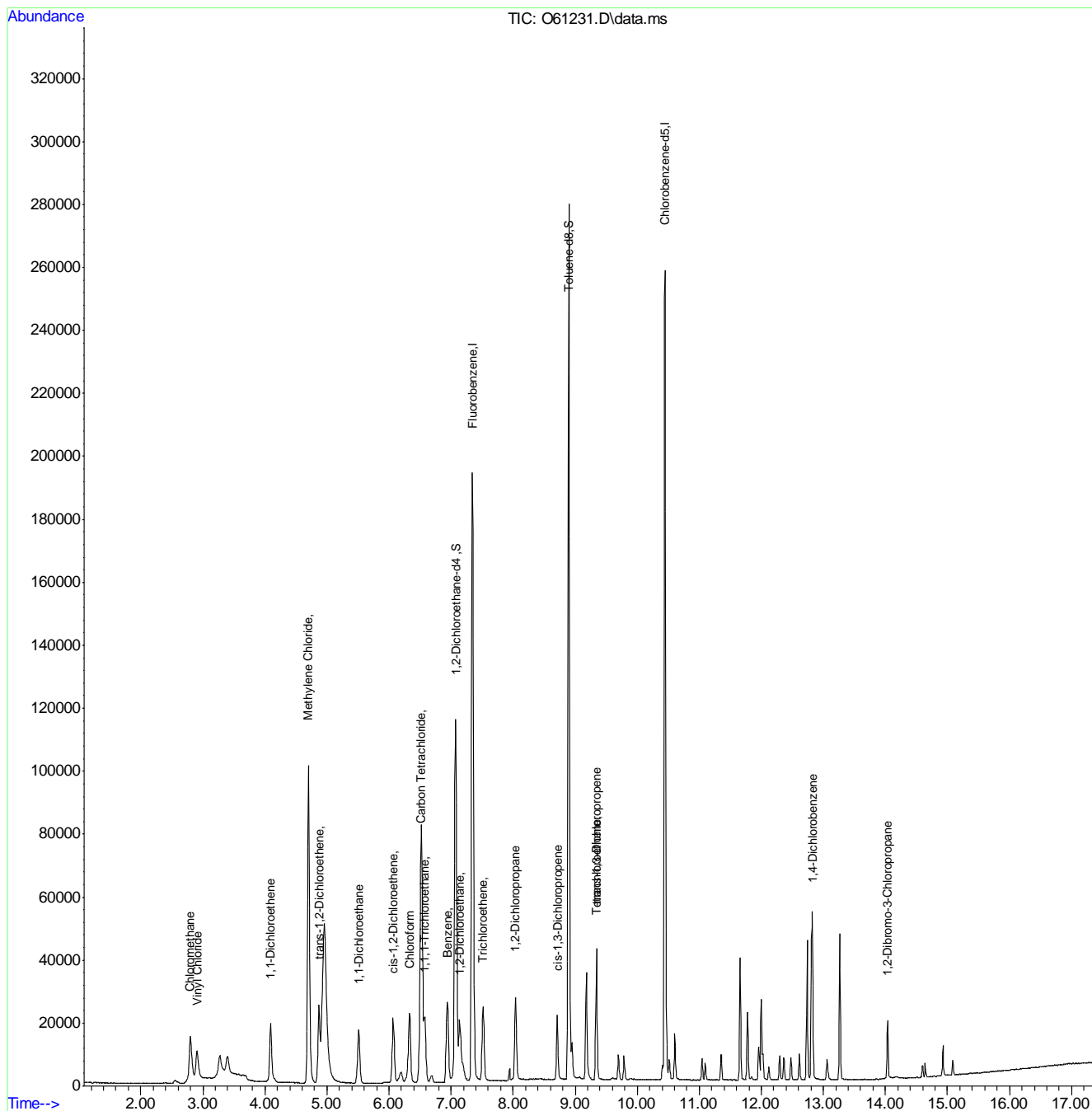


## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : stutip  
 Sample : IC2356-2  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:02:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61231.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:54      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.2.1

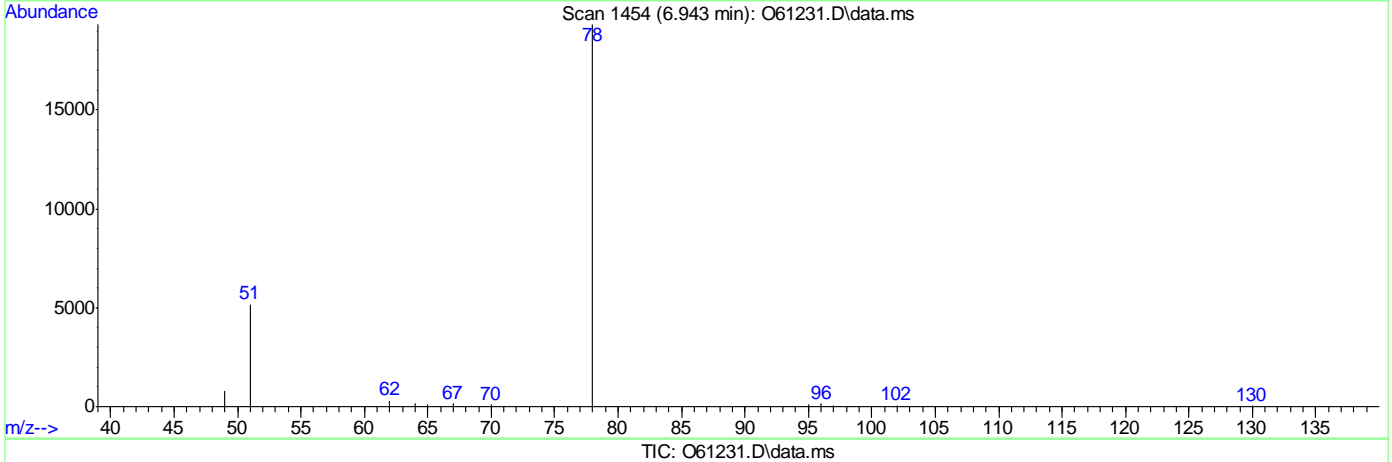
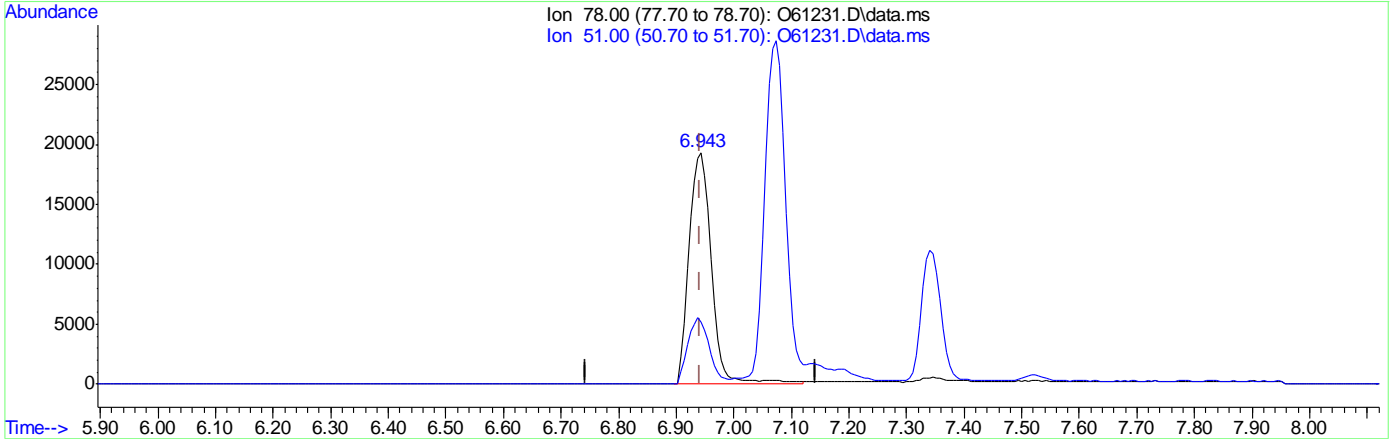
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 0.58ug/L

response 53149

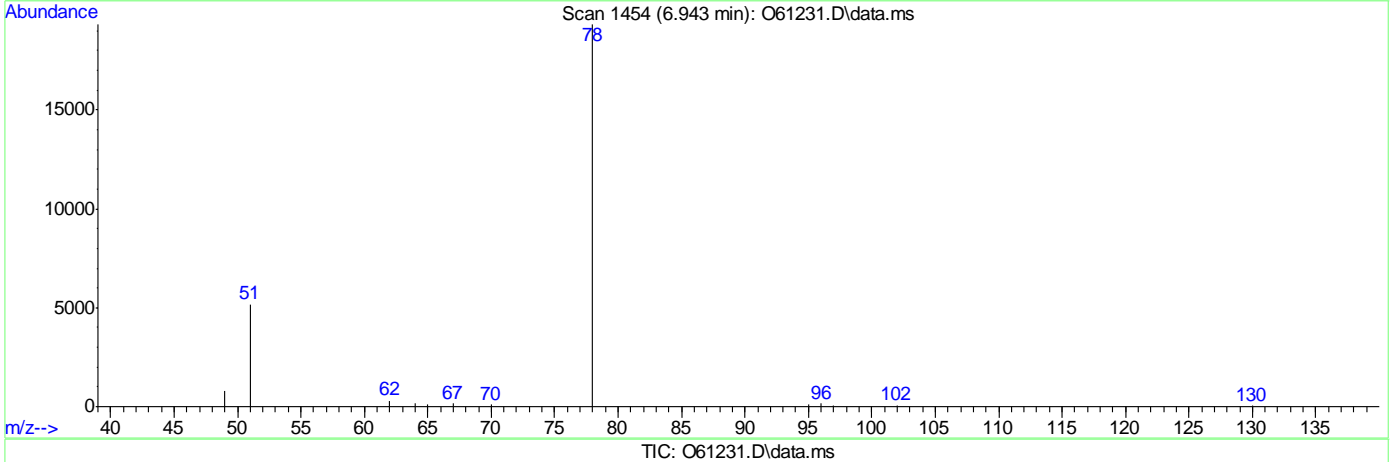
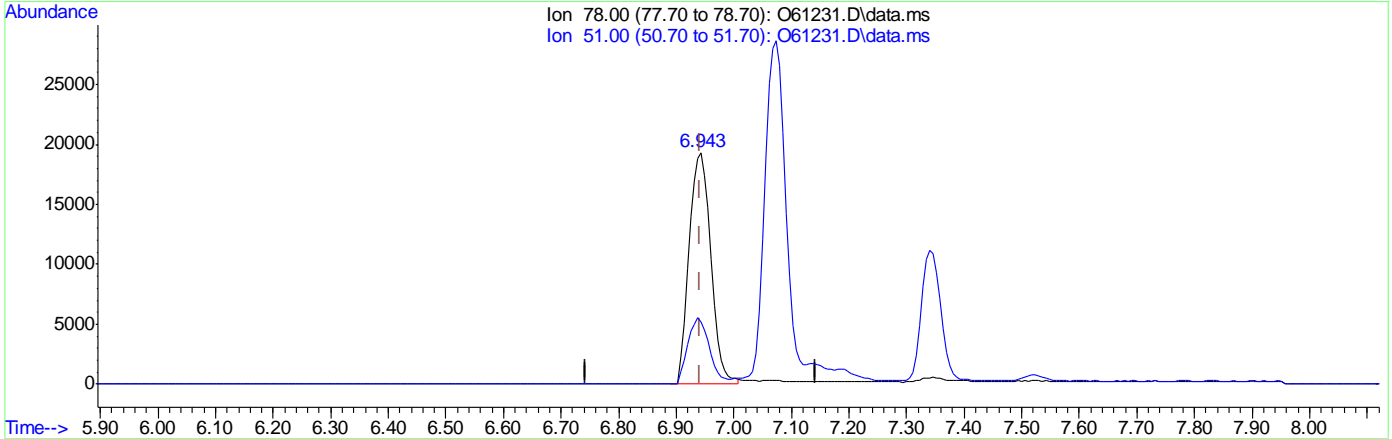
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.56ug/L m  
 response 51252

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	317169	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	244669	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	131106	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	94.20%		
19) Toluene-d8	8.900	98	274860	4.60	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.912	62	72414	2.35	ug/L		97
3) Chloromethane	2.810	50	108758	2.40	ug/L		94
4) 1,1-Dichloroethene	4.100	61	84017	1.96	ug/L		92
5) Methylene Chloride	4.707	49	235781	3.07	ug/L		98
6) trans-1,2-Dichloroethene	4.873	61	98273	1.88	ug/L		82
7) 1,1-Dichloroethane	5.518	63	114595	1.92	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	55181	2.08	ug/L #		81
9) Chloroform	6.339	83	96882	2.01	ug/L		96
10) Carbon Tetrachloride	6.510	117	64256	2.13	ug/L		87
11) 1,1,1-Trichloroethane	6.582	97	73085	2.10	ug/L		93
12) Benzene	6.943	78	190849m	2.02	ug/L		
14) 1,2-Dichloroethane	7.145	62	94612	1.82	ug/L		91
15) Trichloroethene	7.518	95	56329	2.04	ug/L		86
16) 1,2-Dichloropropane	8.043	63	65843	1.91	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	63086	1.64	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	59845	1.60	ug/L		98
21) Tetrachloroethene	9.343	166	52774	2.22	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	108631	2.11	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	18565	1.37	ug/L		96

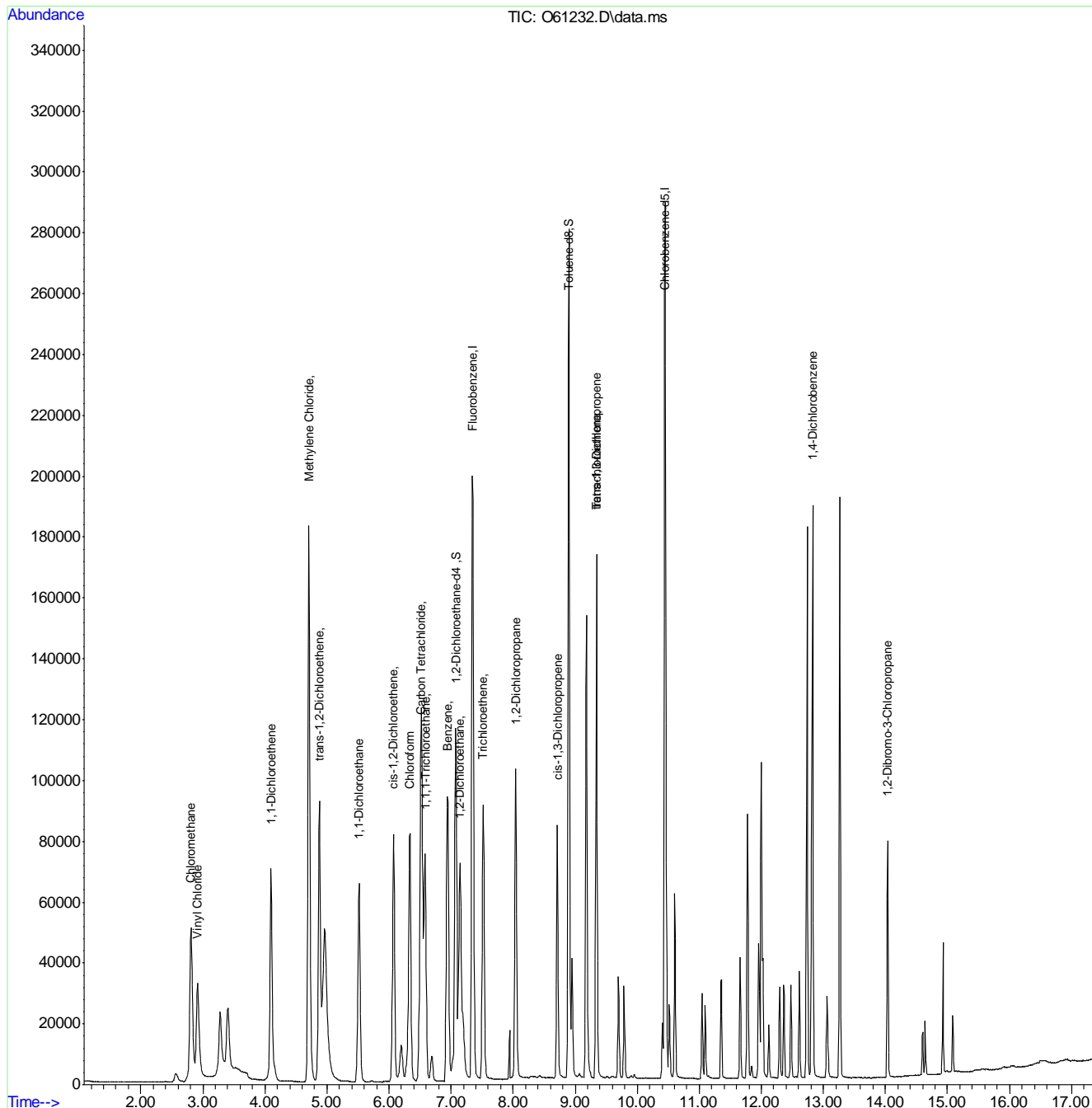
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.3  
7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61232.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:14      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.3.1

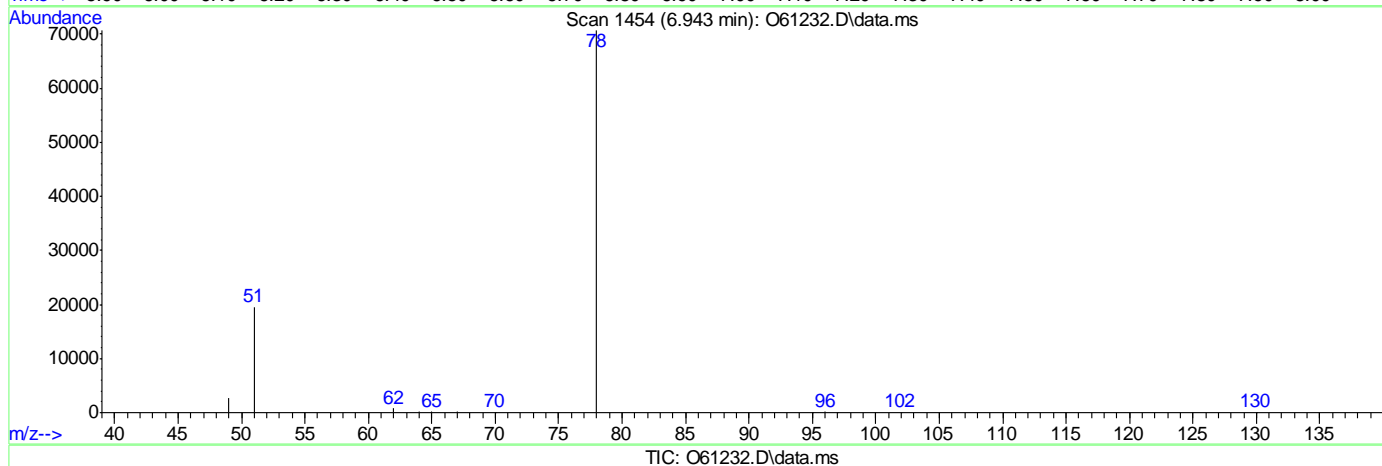
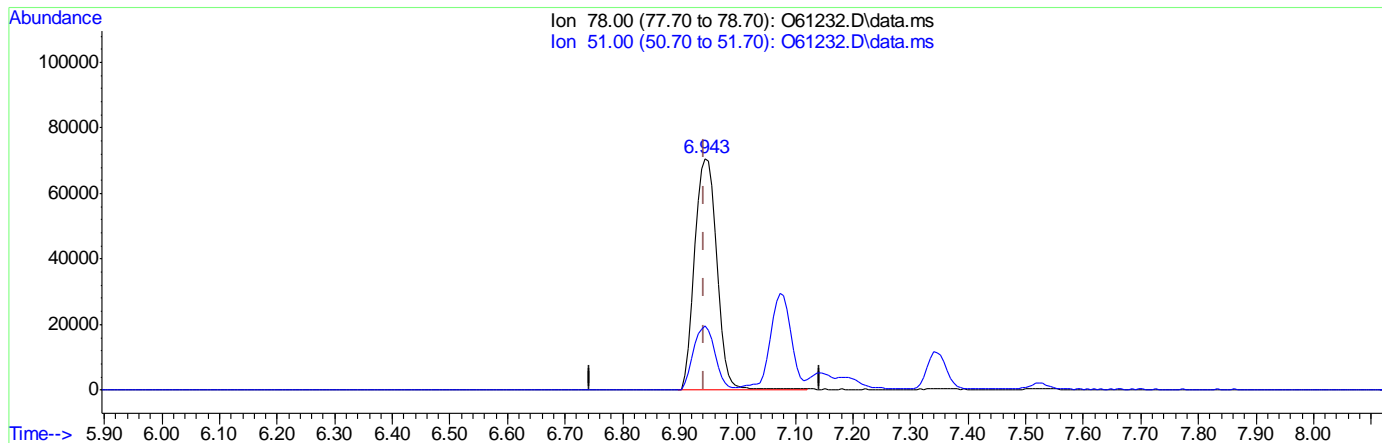
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 2.05ug/L  
 response 193530

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

7.6.3.2  
7

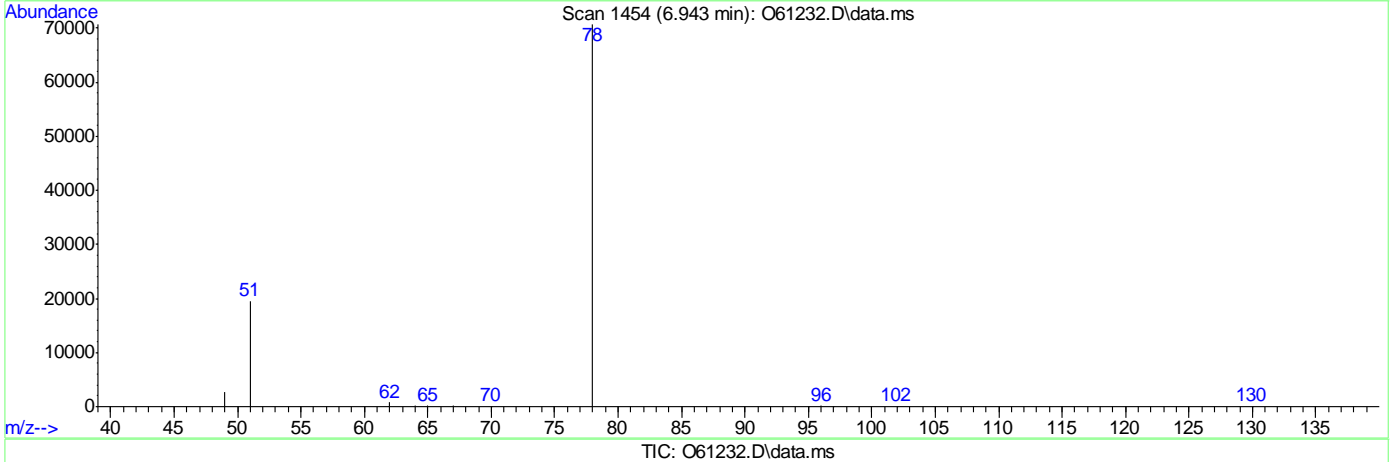
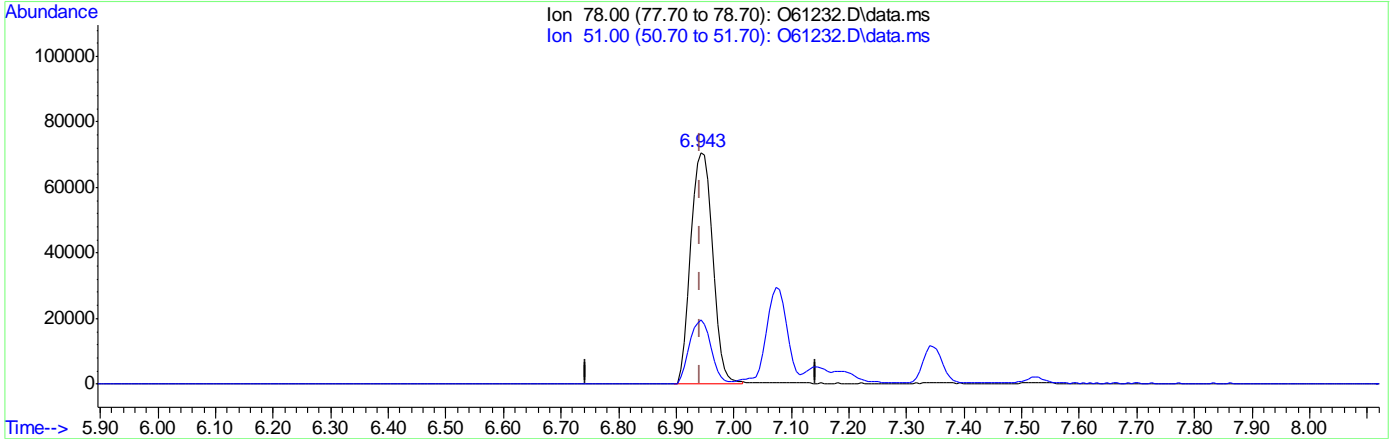


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 2.02ug/L m  
 response 190849

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	331492	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	258539	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	143850	4.94	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.80%	
19) Toluene-d8	8.900	98	286563	4.53	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.60%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.916	62	189960	6.08	ug/L	98
3) Chloromethane	2.810	50	274617	5.99	ug/L	94
4) 1,1-Dichloroethene	4.100	61	243476	5.42	ug/L	92
5) Methylene Chloride	4.707	49	387657	4.95	ug/L	99
6) trans-1,2-Dichloroethene	4.873	61	280716	5.19	ug/L	83
7) 1,1-Dichloroethane	5.518	63	322308	5.17	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	156323	5.64	ug/L #	81
9) Chloroform	6.339	83	274074	5.43	ug/L	96
10) Carbon Tetrachloride	6.517	117	189329	6.01	ug/L	88
11) 1,1,1-Trichloroethane	6.582	97	213837	5.87	ug/L	93
12) Benzene	6.943	78	539806m	5.49	ug/L	
14) 1,2-Dichloroethane	7.145	62	258506	4.75	ug/L	90
15) Trichloroethene	7.518	95	161314	5.59	ug/L	88
16) 1,2-Dichloropropane	8.044	63	181717	5.06	ug/L	93
17) cis-1,3-Dichloropropene	8.711	75	182931	4.54	ug/L	99
20) trans-1,3-Dichloropropene	9.343	75	176190	4.47	ug/L	99
21) Tetrachloroethene	9.343	166	150705	6.02	ug/L	98
22) 1,4-Dichlorobenzene	12.827	146	311628	5.72	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	52936	3.70	ug/L	90

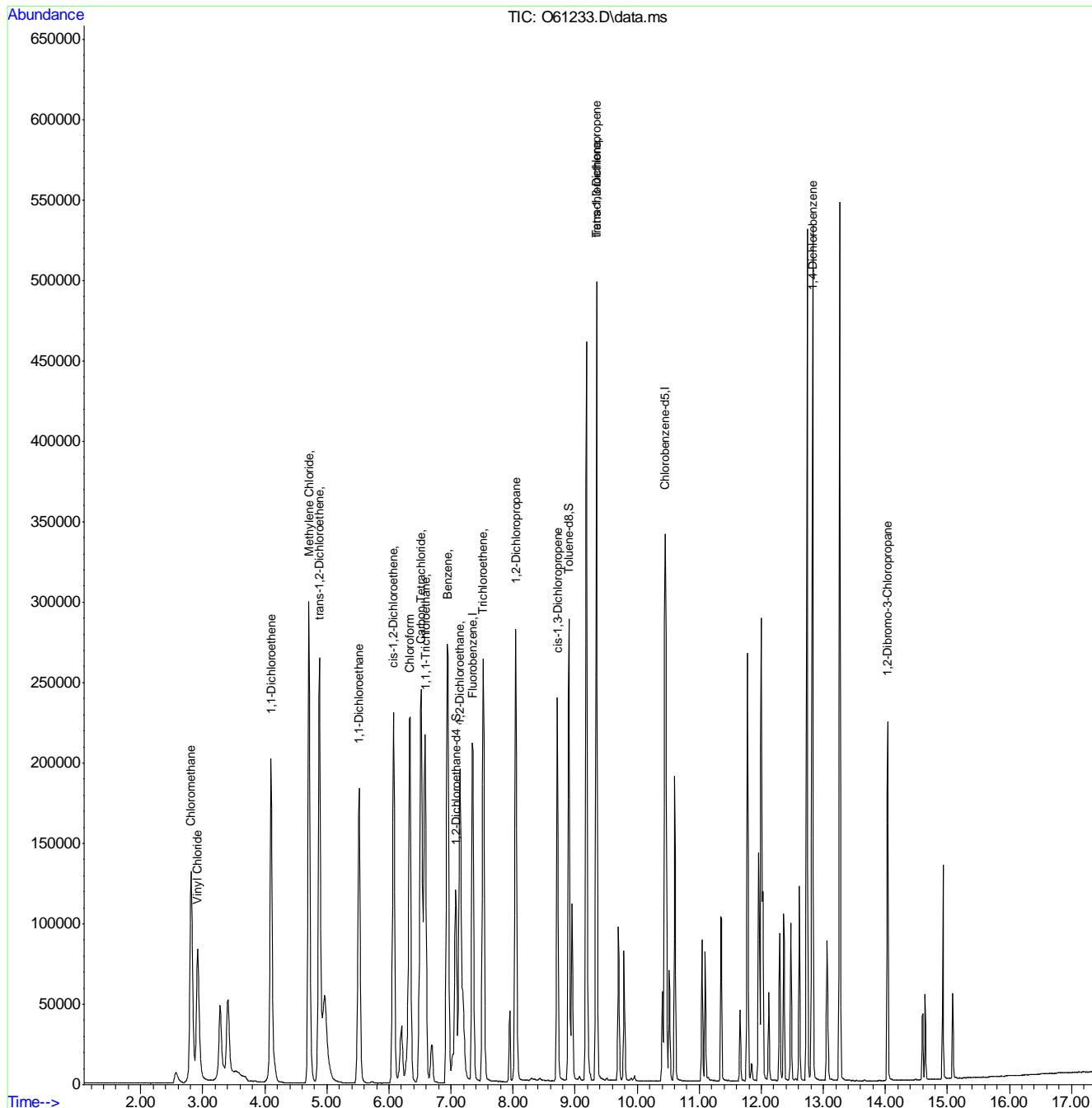
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.4  
7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61233.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:35      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.4.1

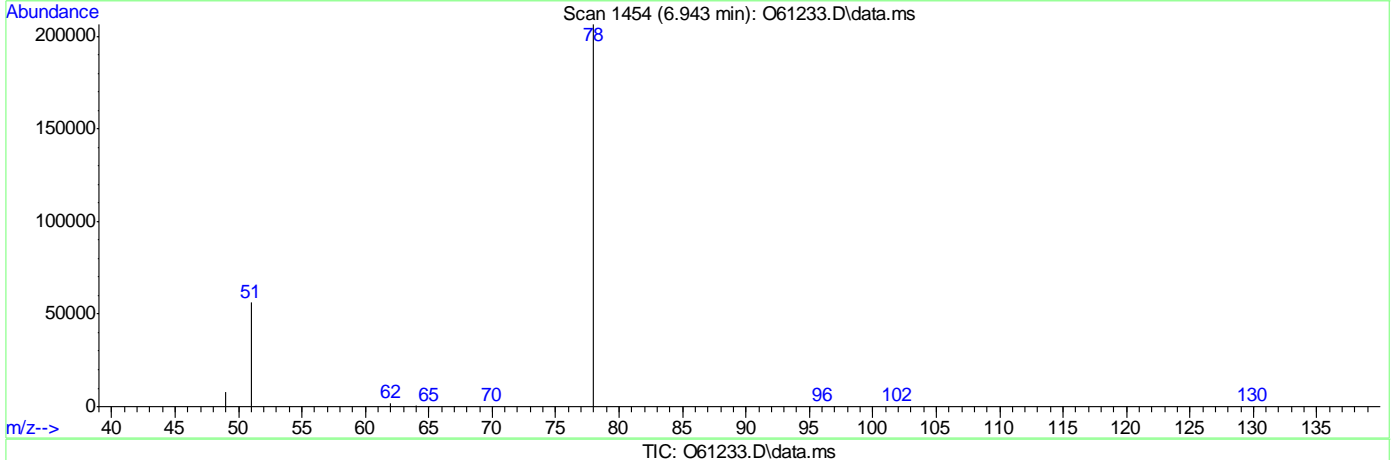
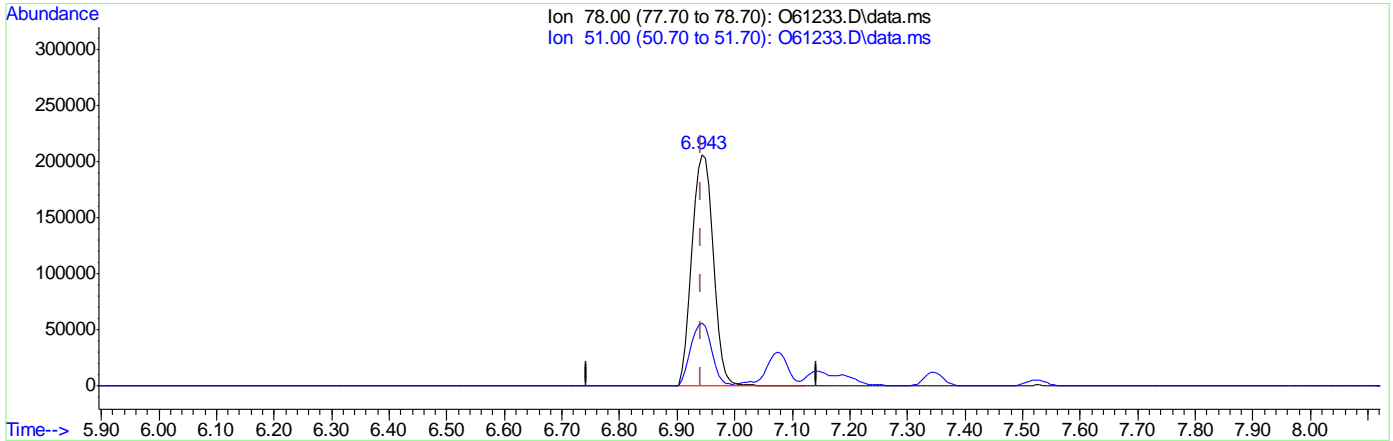
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.54ug/L

response 544298

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

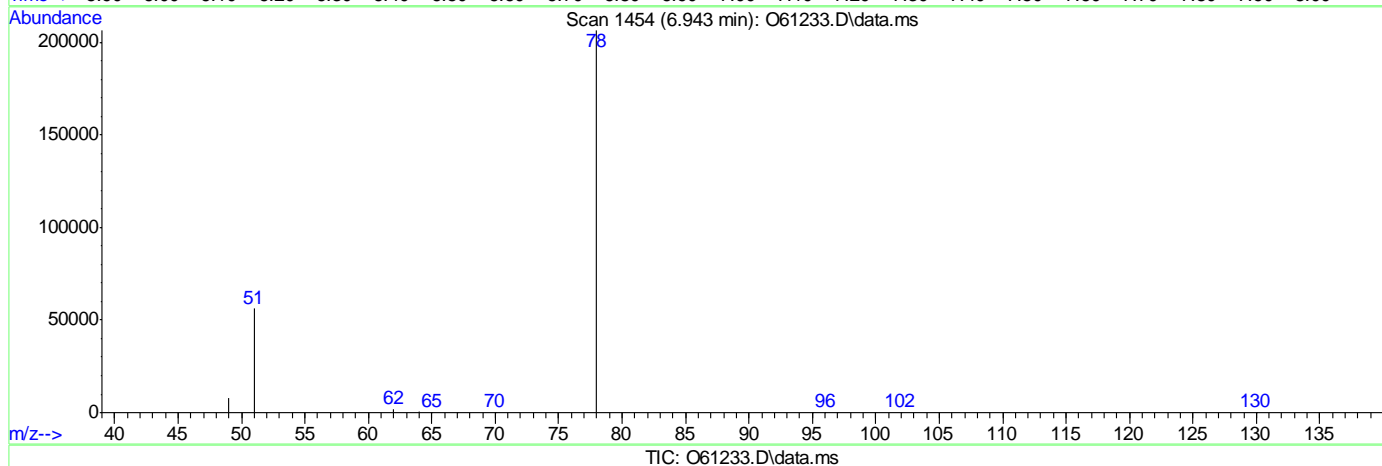
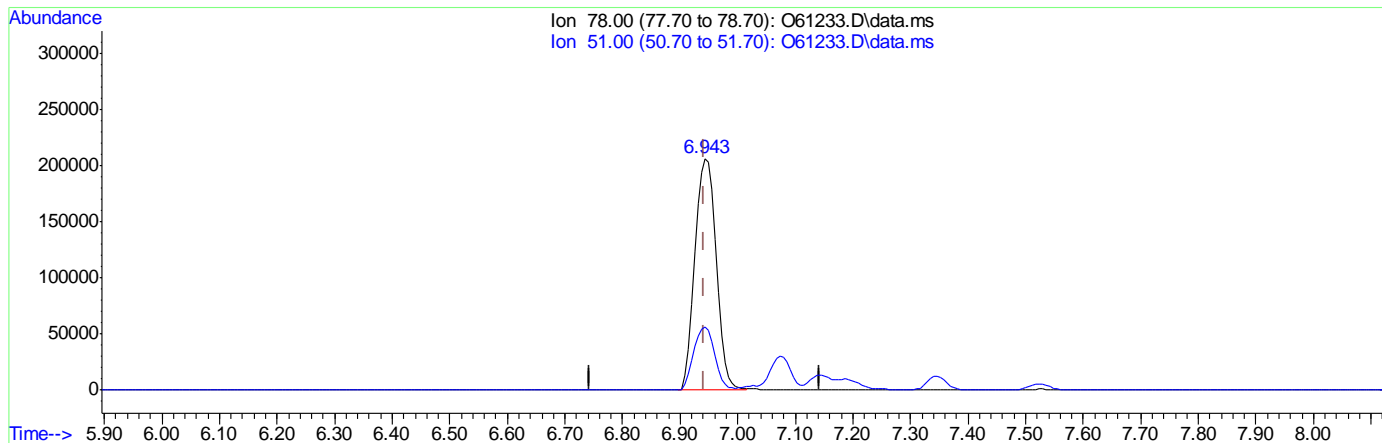
7.6.4.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.49ug/L m

response 539806

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.4.3

7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICC2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	367891	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	288681	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	143276	4.43	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%	
19) Toluene-d8	8.900	98	317520	4.50	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.908	62	385419	11.68	ug/L	97
3) Chloromethane	2.807	50	542034	11.18	ug/L	93
4) 1,1-Dichloroethene	4.096	61	516893	10.38	ug/L	93
5) Methylene Chloride	4.703	49	746865	9.11	ug/L	99
6) trans-1,2-Dichloroethene	4.873	61	592225	10.01	ug/L	86
7) 1,1-Dichloroethane	5.514	63	676382	9.78	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	333880	10.85	ug/L	84
9) Chloroform	6.333	83	573497	10.24	ug/L	97
10) Carbon Tetrachloride	6.511	117	409043	11.71	ug/L	87
11) 1,1,1-Trichloroethane	6.582	97	456875	11.31	ug/L	94
12) Benzene	6.943	78	1143203m	10.51	ug/L	
14) 1,2-Dichloroethane	7.145	62	542073	8.97	ug/L	90
15) Trichloroethene	7.518	95	346969	10.84	ug/L	88
16) 1,2-Dichloropropane	8.043	63	380072	9.56	ug/L	92
17) cis-1,3-Dichloropropene	8.711	75	405529	9.07	ug/L	96
20) trans-1,3-Dichloropropene	9.343	75	393915	8.95	ug/L	97
21) Tetrachloroethene	9.343	166	320442	11.51	ug/L	98
22) 1,4-Dichlorobenzene	12.827	146	679269	11.17	ug/L	97
23) 1,2-Dibromo-3-Chloropr...	14.038	75	120855	7.57	ug/L	87

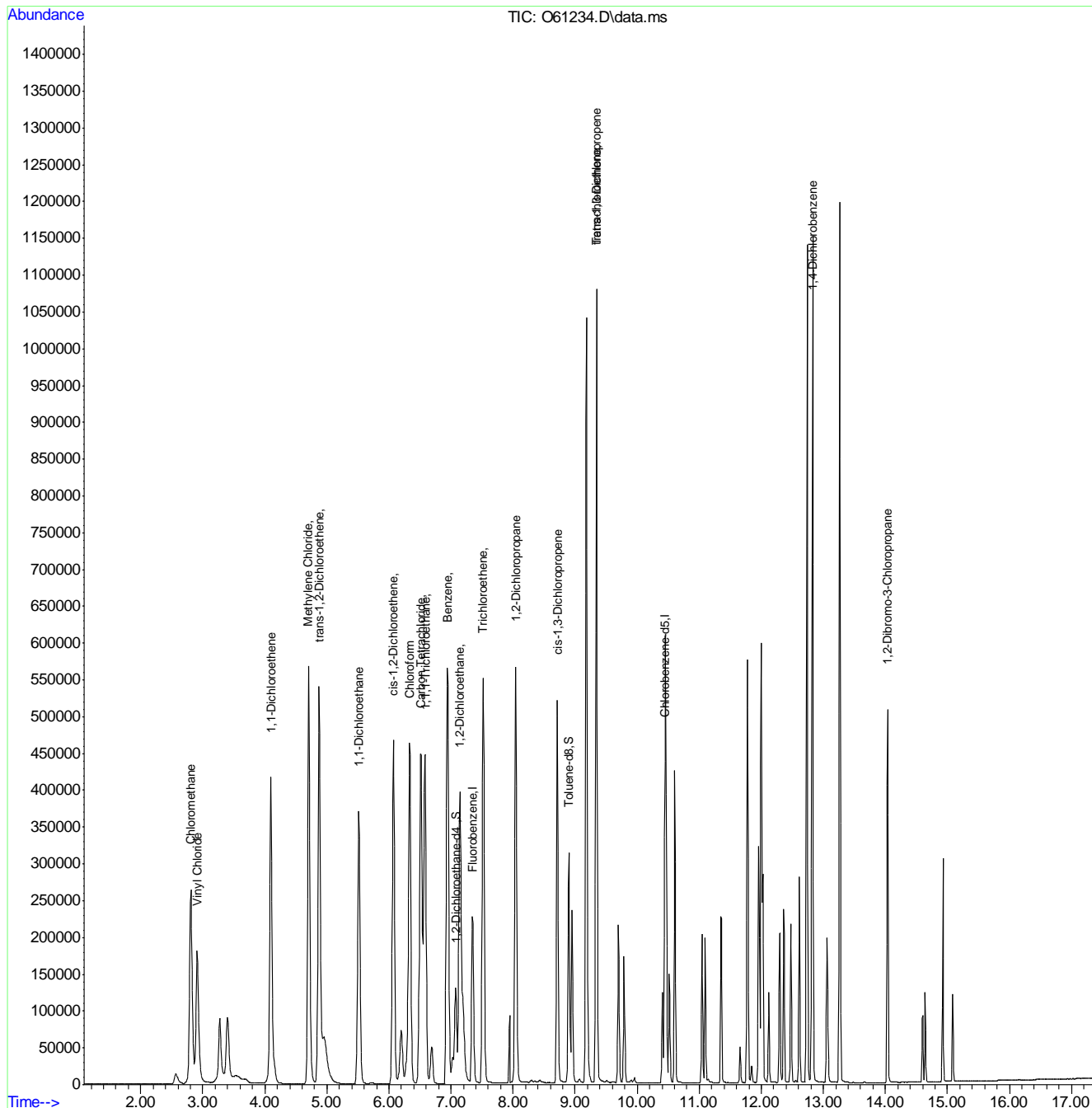
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICc2356-5  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.5  
7



# Manual Integration Approval Summary

**Sample Number:** VO2356-ICC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61234.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:55      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.5.1

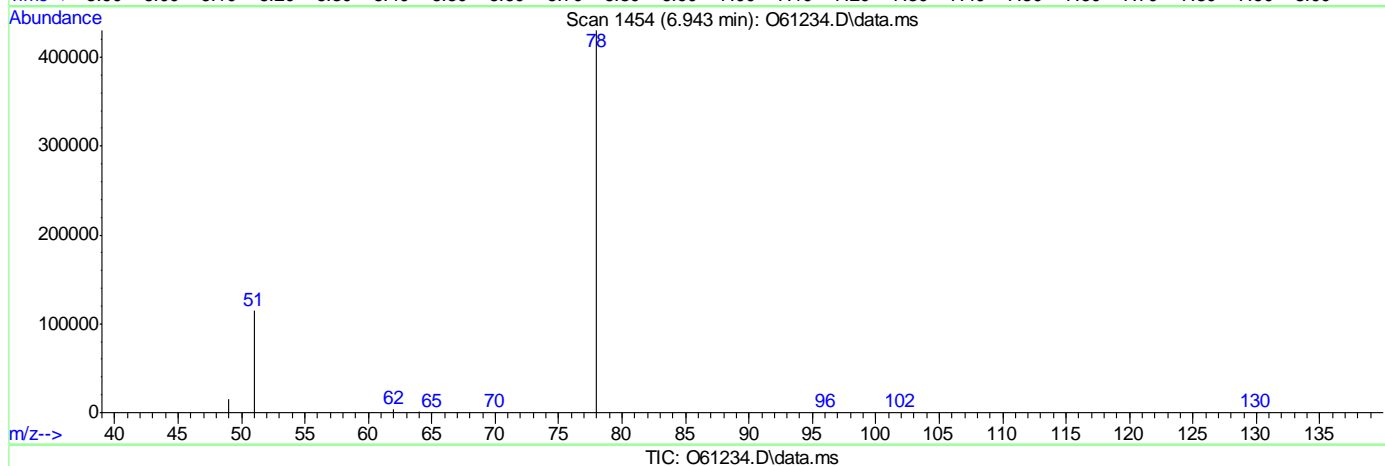
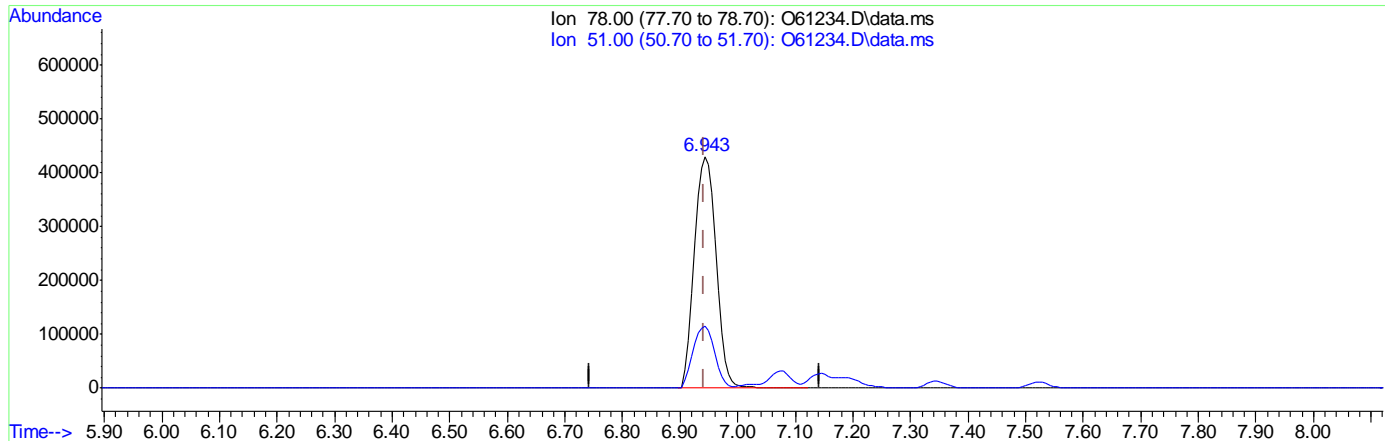
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 10.57ug/L

response 1149895

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

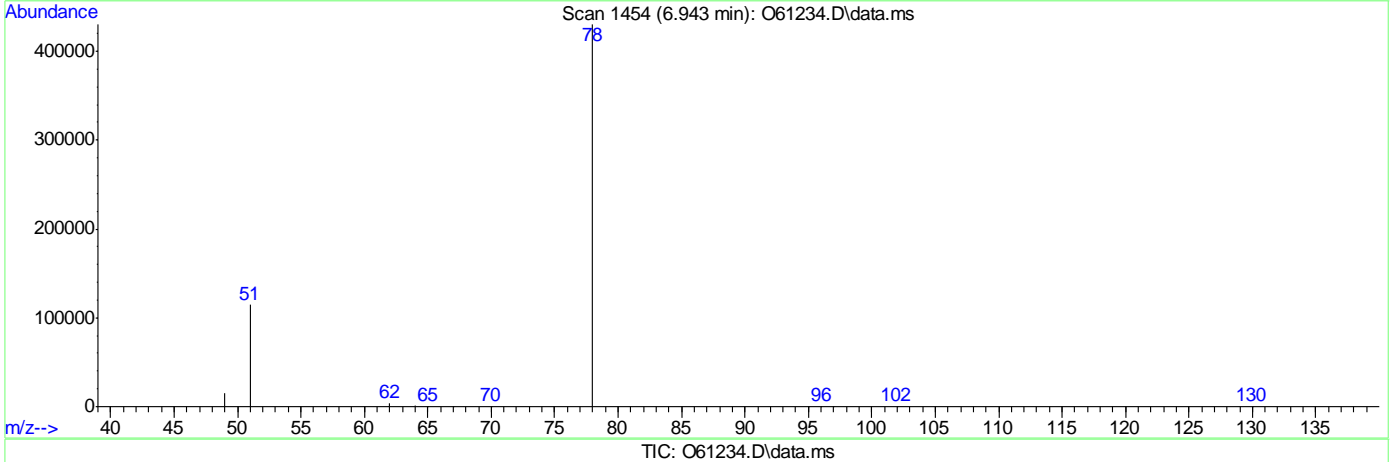
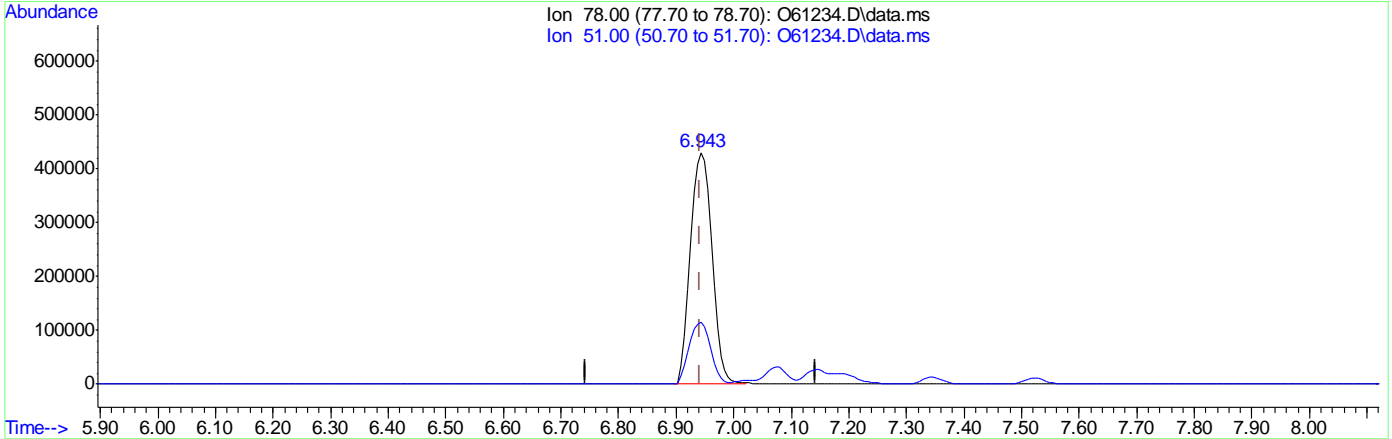
7.6.5.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.51ug/L m  
 response 1143203

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	393958	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	307376	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	153155	4.43	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%		
19) Toluene-d8	8.896	98	343376	4.57	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	581790	17.36	ug/L		98
3) Chloromethane	2.791	50	805942	16.33	ug/L		94
4) 1,1-Dichloroethene	4.085	61	794045	14.88	ug/L		93
5) Methylene Chloride	4.696	49	1121963	13.69	ug/L		100
6) trans-1,2-Dichloroethene	4.861	61	919410	14.72	ug/L		84
7) 1,1-Dichloroethane	5.506	63	1045292	14.12	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	524339	15.91	ug/L		84
9) Chloroform	6.333	83	891365	14.86	ug/L		97
10) Carbon Tetrachloride	6.505	117	634944	16.97	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	713480	16.49	ug/L		94
12) Benzene	6.943	78	1776329m	15.29	ug/L		
14) 1,2-Dichloroethane	7.139	62	860563	13.30	ug/L		90
15) Trichloroethene	7.512	95	544590	15.88	ug/L		90
16) 1,2-Dichloropropane	8.040	63	594236	13.99	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	663239	13.85	ug/L		93
20) trans-1,3-Dichloropropene	9.343	75	651125	13.89	ug/L		95
21) Tetrachloroethene	9.337	166	499062	16.90	ug/L		92
22) 1,4-Dichlorobenzene	12.827	146	1064594	16.45	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	202684	11.92	ug/L		90

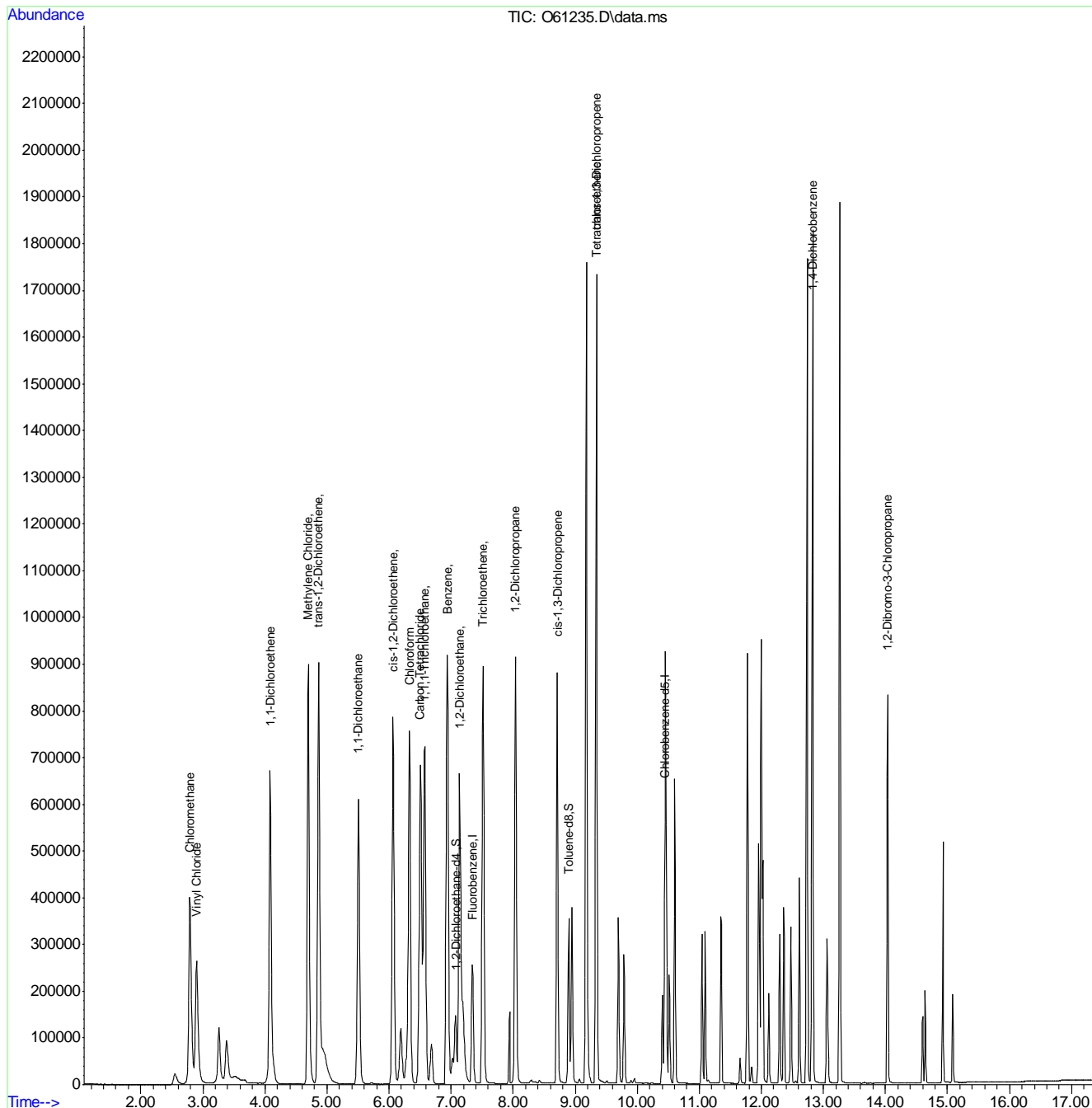
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



9.9.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61235.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:15      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

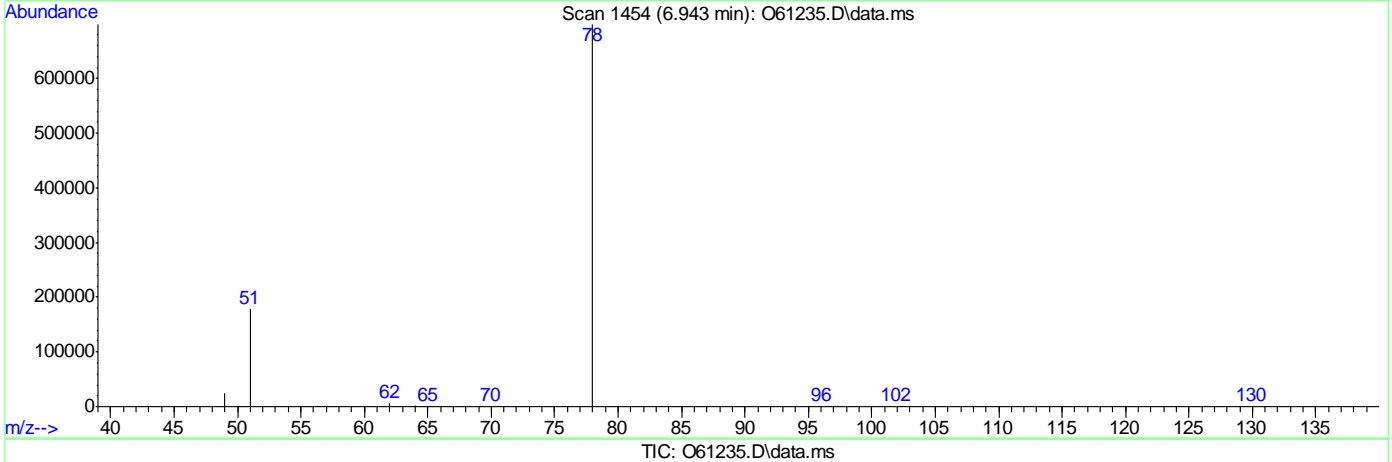
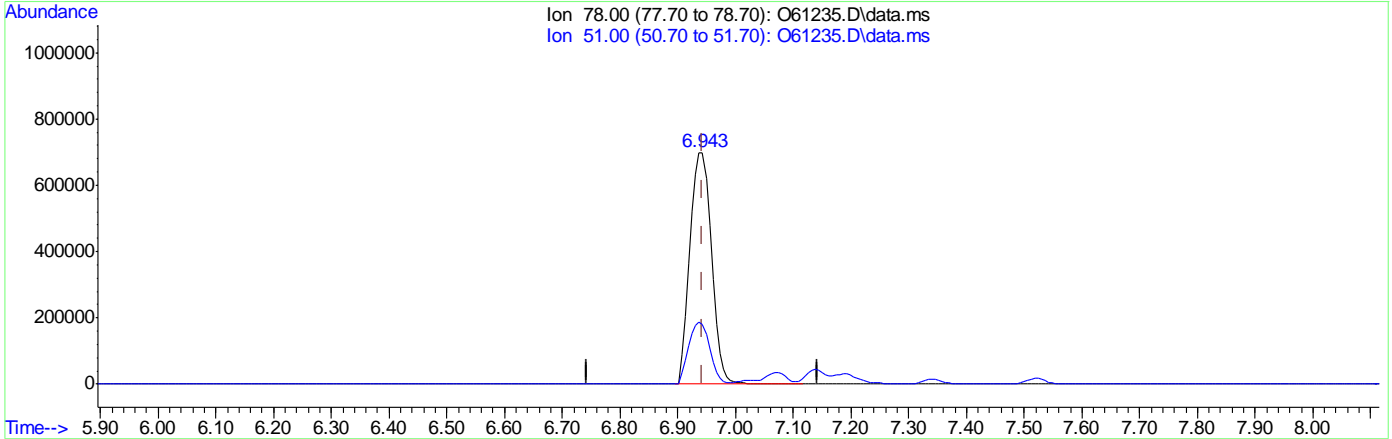
7.6.6.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



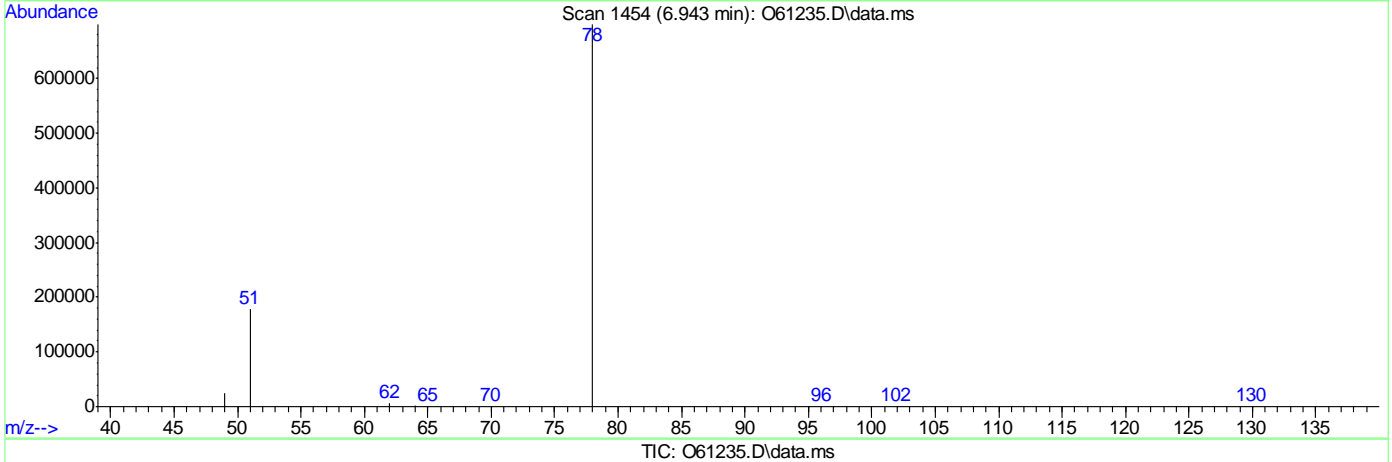
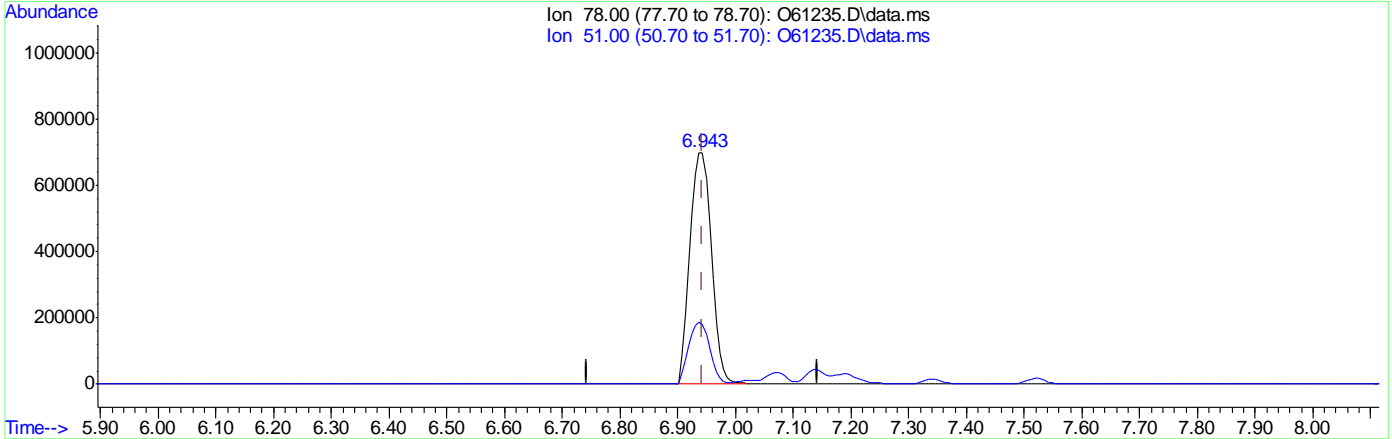
(12) Benzene ( )  
 6.943min (+0.000) 15.36ug/L  
 response 1784608

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 15.29ug/L m  
 response 1776329

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.352	96	430313	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	330631	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	166372	4.40	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.00%		
19) Toluene-d8	8.900	98	374232	4.63	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	814030	23.66	ug/L		98
3) Chloromethane	2.803	50	1116385	21.95	ug/L		94
4) 1,1-Dichloroethene	4.092	61	1194148	20.49	ug/L		94
5) Methylene Chloride	4.703	49	1613536	19.98	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	1391011	20.75	ug/L		85
7) 1,1-Dichloroethane	5.514	63	1560149	19.30	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	791148	21.98	ug/L		85
9) Chloroform	6.333	83	1332932	20.34	ug/L		97
10) Carbon Tetrachloride	6.510	117	982791	24.05	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	1094990	23.17	ug/L		95
12) Benzene	6.943	78	2670290m	21.11	ug/L		
14) 1,2-Dichloroethane	7.145	62	1260966	17.85	ug/L		89
15) Trichloroethene	7.518	95	818610	21.86	ug/L		88
16) 1,2-Dichloropropane	8.043	63	893916	19.34	ug/L		91
17) cis-1,3-Dichloropropene	8.711	75	1001044	19.14	ug/L		95
20) trans-1,3-Dichloropropene	9.343	75	975862	19.36	ug/L		94
21) Tetrachloroethene	9.343	166	748457	23.68	ug/L		97
22) 1,4-Dichlorobenzene	12.827	146	1570512	22.56	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	297989	16.29	ug/L		91

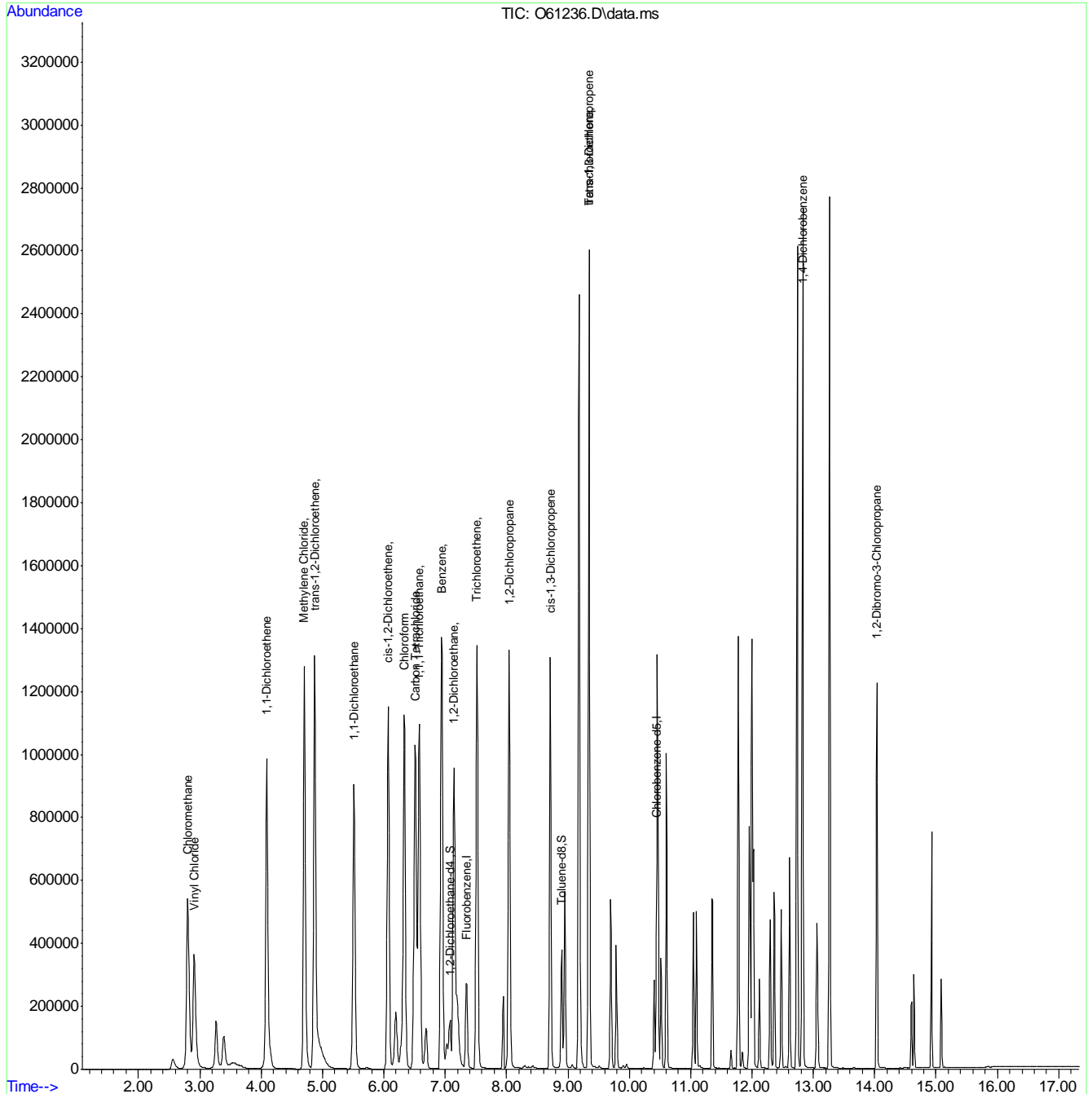
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61236.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:36      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

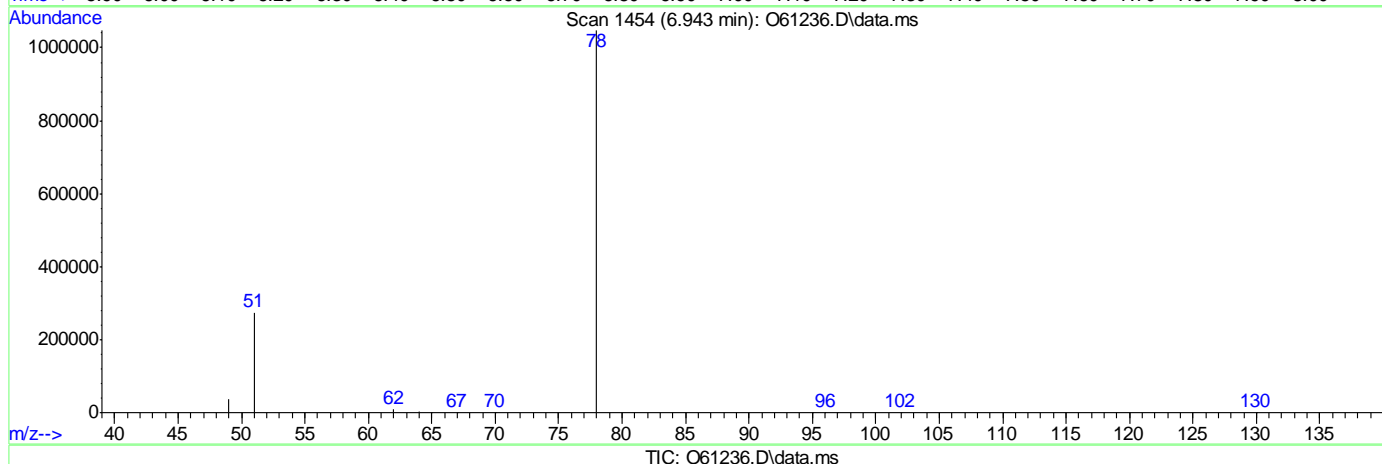
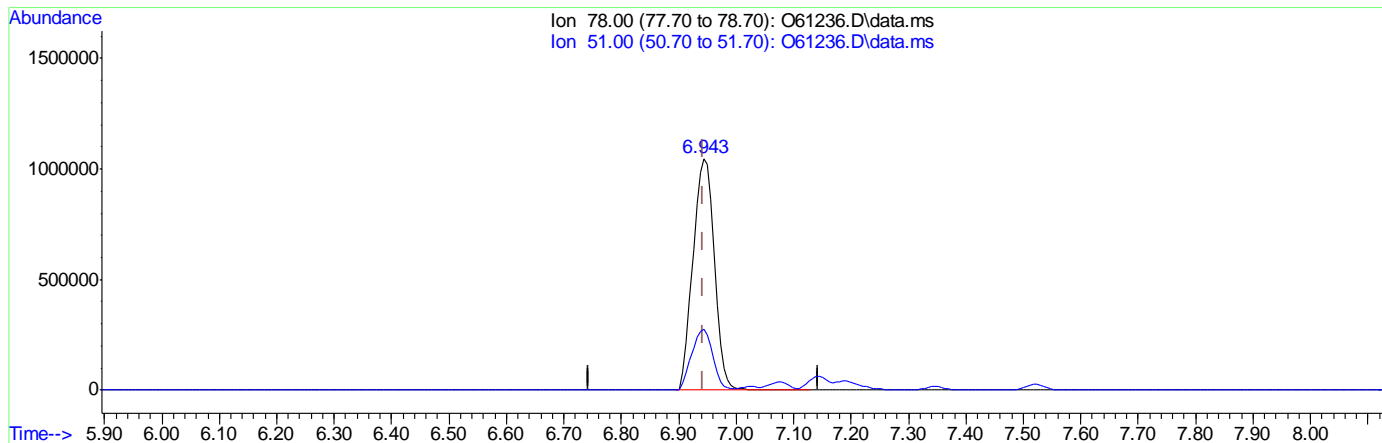
7.6.7.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (-0.000) 21.23ug/L

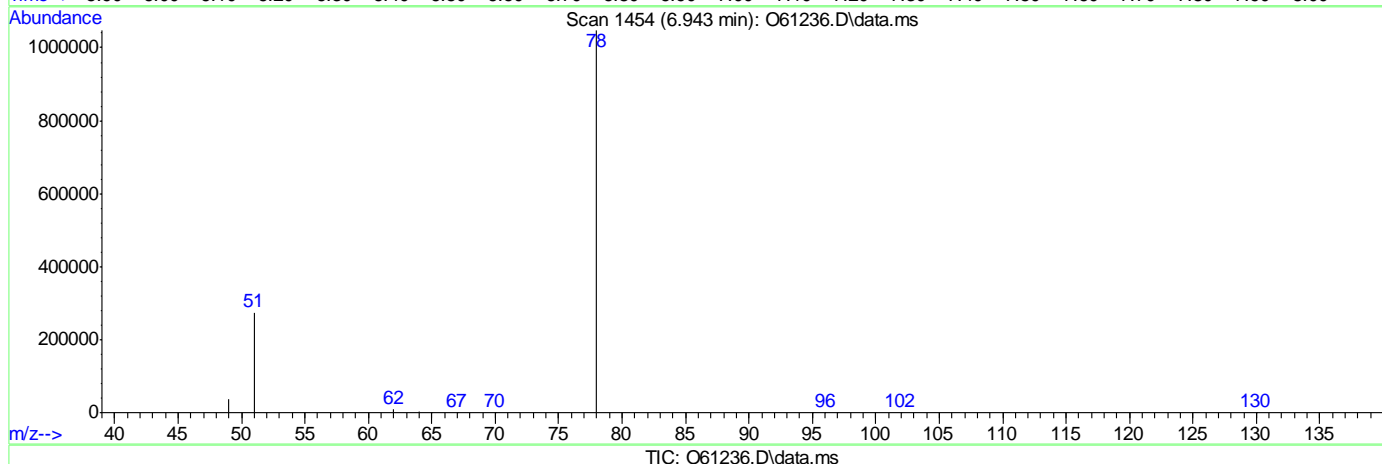
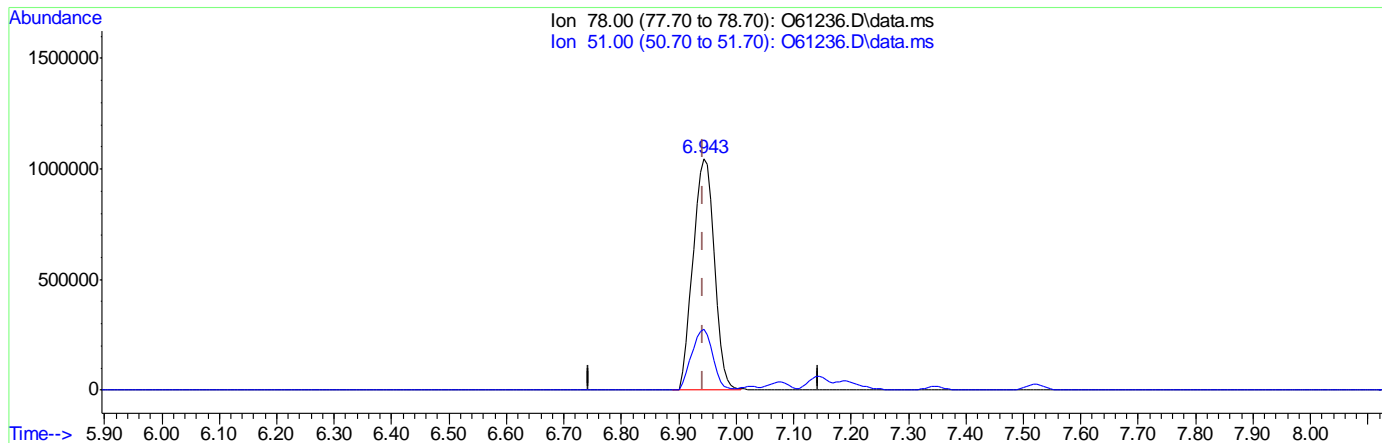
response 2686132

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (-0.000) 21.11ug/L m  
 response 2670290

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	392529	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	305591	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	151418	4.78	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	95.60%	
19) Toluene-d8	8.896	98	341369	4.95	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.905	62	359054	8.49	ug/L	98
3) Chloromethane	2.803	50	507353	8.27	ug/L	94
4) 1,1-Dichloroethene	4.092	61	507491	9.35	ug/L	91
5) Methylene Chloride	4.703	49	755284	8.89	ug/L	99
6) trans-1,2-Dichloroethene	4.869	61	597300	9.53	ug/L	84
7) 1,1-Dichloroethane	5.514	63	694519	9.54	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	347499	9.66	ug/L	85
9) Chloroform	6.333	83	585017	9.34	ug/L	97
10) Carbon Tetrachloride	6.511	117	409874	9.60	ug/L	88
11) 1,1,1-Trichloroethane	6.576	97	455396	9.43	ug/L	94
12) Benzene	6.943	78	1221796	10.10	ug/L	100
14) 1,2-Dichloroethane	7.139	62	581587	9.82	ug/L	90
15) Trichloroethene	7.518	95	365705	9.91	ug/L	88
16) 1,2-Dichloropropane	8.043	63	408716	10.10	ug/L	92
17) cis-1,3-Dichloropropene	8.711	75	449848	10.71	ug/L	94
20) trans-1,3-Dichloropropene	9.343	75	443597	11.04	ug/L	95
21) Tetrachloroethene	9.343	166	323529	9.60	ug/L	99
22) 1,4-Dichlorobenzene	12.827	146	714911	10.10	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	131759	10.13	ug/L	93

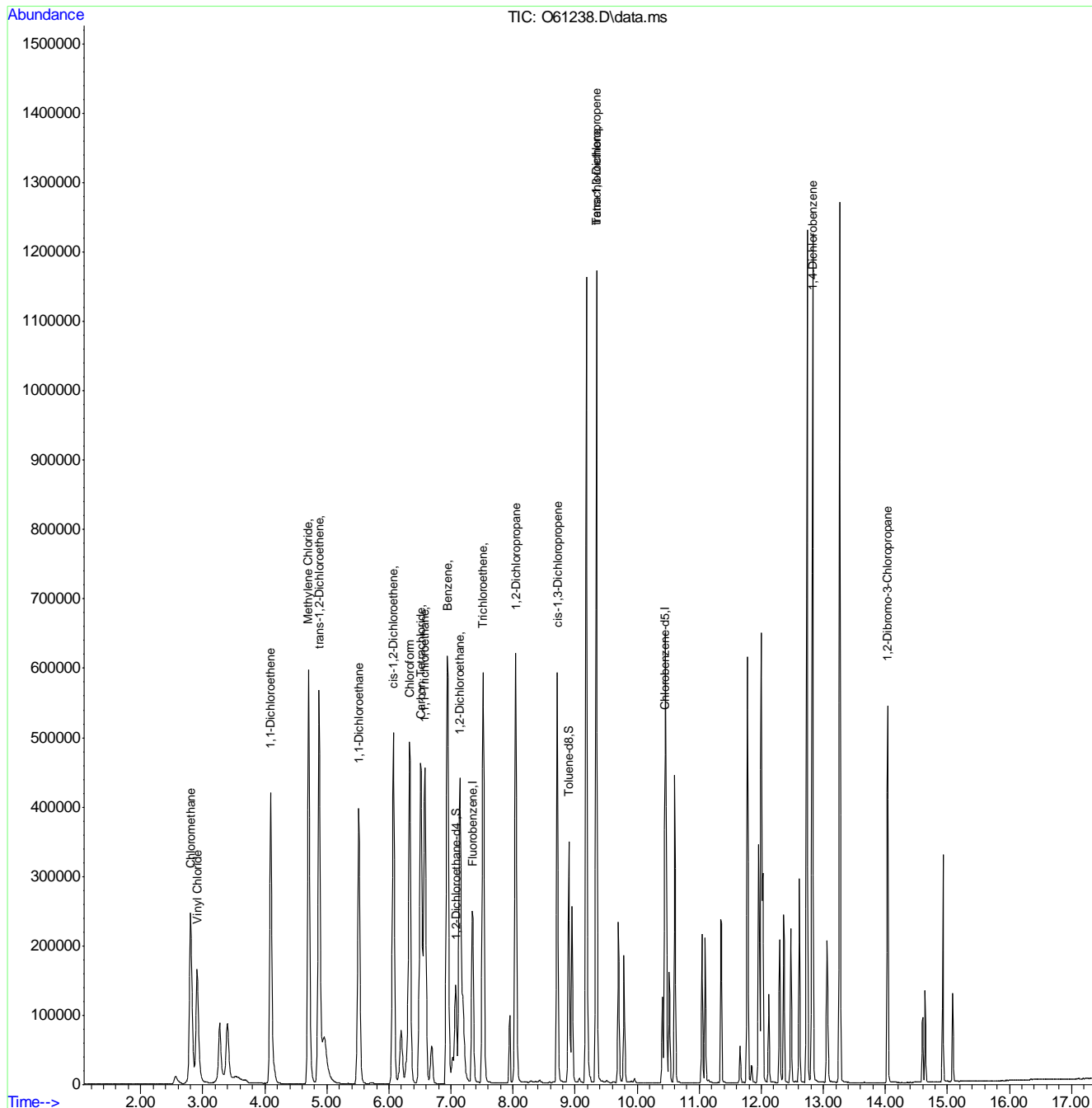
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

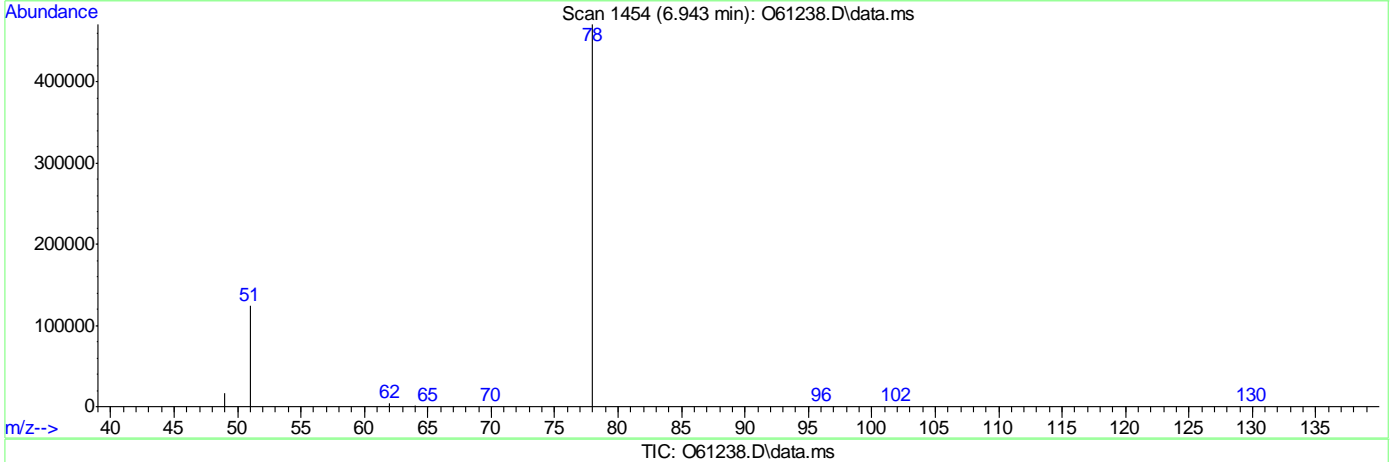
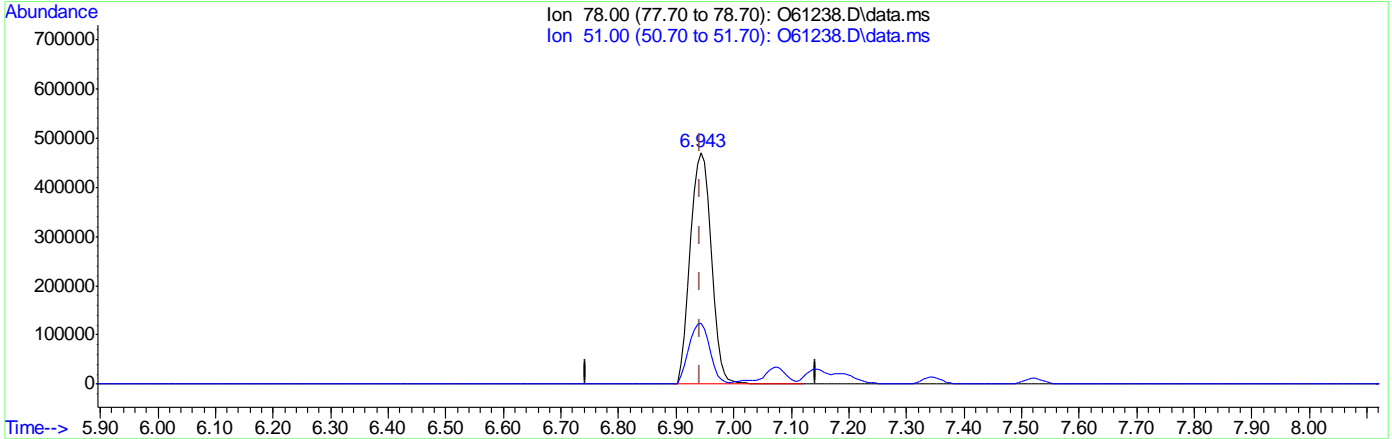


8'9'7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.10ug/L  
 response 1221796

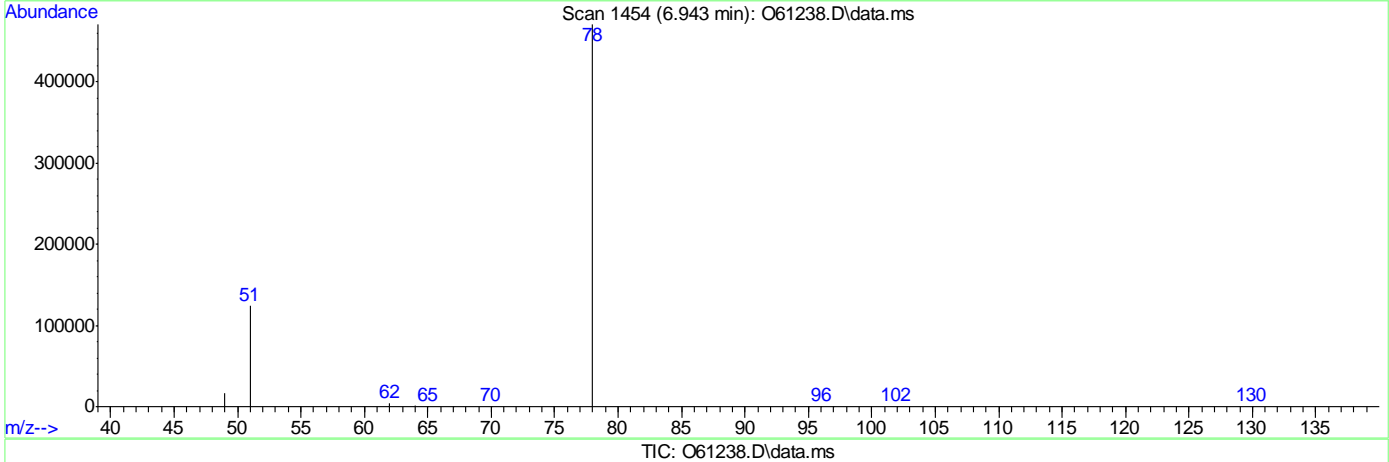
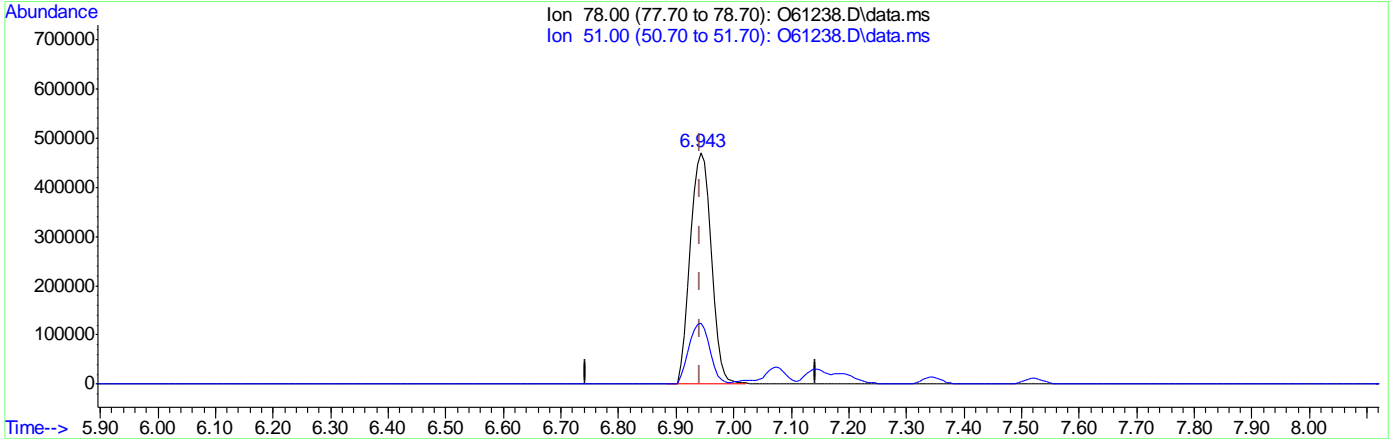
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.04ug/L m  
 response 1214827

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61294.d  
 Acq On : 12 Sep 2020 5:54 pm  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47192,VO2359,,,,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 07:54:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	309205	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	244582	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	120688	4.83	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	96.60%		
19) Toluene-d8	8.896	98	260486	4.72	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	330809	10.12	ug/L		98
3) Chloromethane	2.799	50	463828	9.85	ug/L		94
4) 1,1-Dichloroethene	4.085	61	445032	10.41	ug/L		93
5) Methylene Chloride	4.696	49	630485	9.42	ug/L		98
6) trans-1,2-Dichloroethene	4.862	61	494644	10.02	ug/L		84
7) 1,1-Dichloroethane	5.506	63	560770	9.78	ug/L		99
8) cis-1,2-Dichloroethene	6.060	96	268343	9.47	ug/L		83
9) Chloroform	6.327	83	466700	9.46	ug/L		96
10) Carbon Tetrachloride	6.505	117	329989	9.81	ug/L		87
11) 1,1,1-Trichloroethane	6.570	97	367835	9.67	ug/L		92
12) Benzene	6.937	78	922555m	9.68	ug/L		
14) 1,2-Dichloroethane	7.133	62	440855	9.45	ug/L		92
15) Trichloroethene	7.512	95	278304	9.57	ug/L		87
16) 1,2-Dichloropropane	8.040	63	310372	9.74	ug/L		92
17) cis-1,3-Dichloropropene	8.707	75	315125	9.53	ug/L		97
20) trans-1,3-Dichloropropene	9.343	75	308353	9.59	ug/L		97
21) Tetrachloroethene	9.337	166	265736	9.85	ug/L		95
22) 1,4-Dichlorobenzene	12.821	146	559912	9.88	ug/L		100
23) 1,2-Dibromo-3-Chloropr...	14.038	75	94636	9.15	ug/L		88

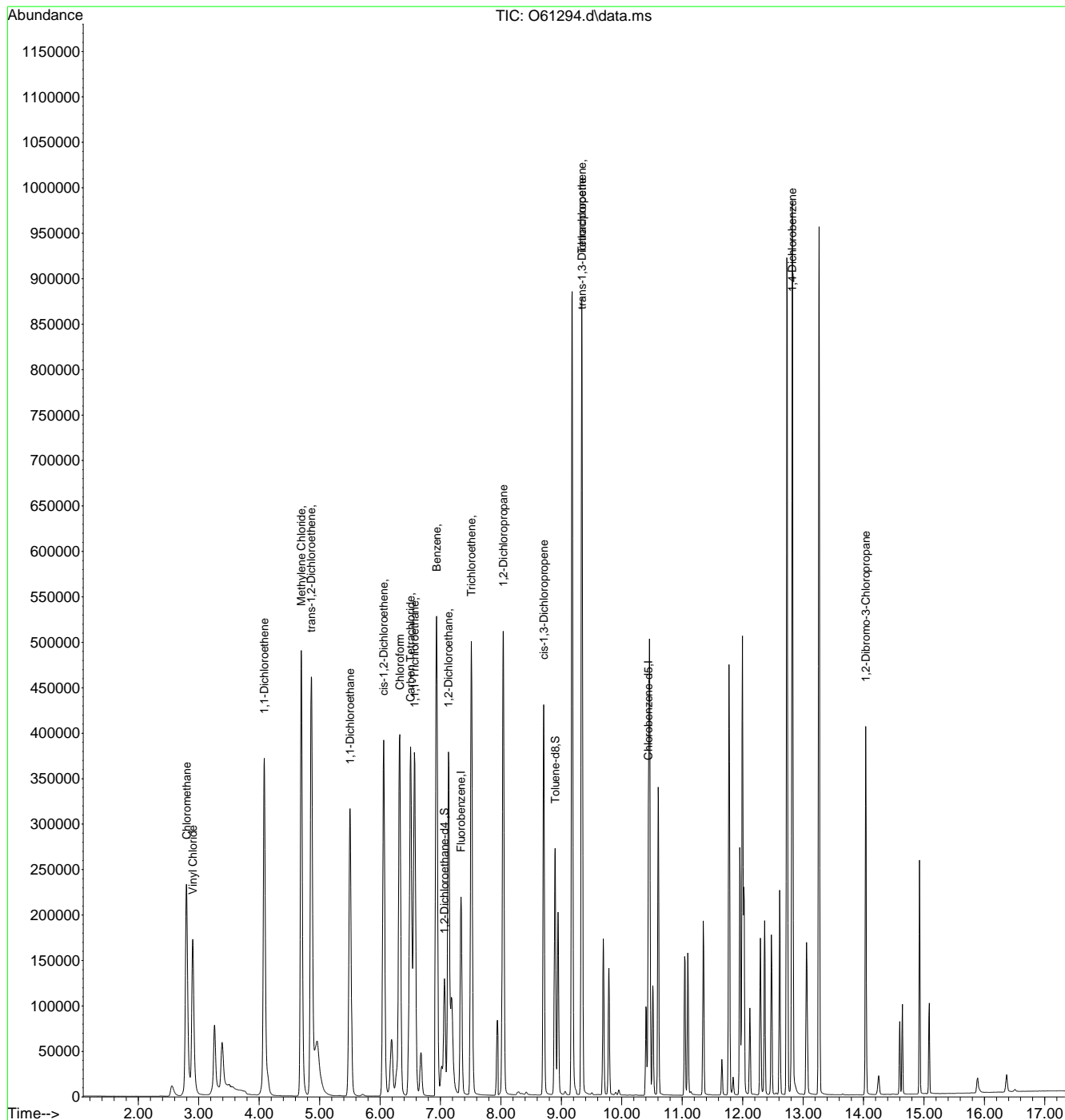
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61294.d  
 Acq On : 12 Sep 2020 5:54 pm  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47192,VO2359,,,,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 07:54:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



6'9'7



# Manual Integration Approval Summary

**Sample Number:** VO2359-CC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61294.D      **Analyst approved:** 09/14/20 08:16 Jennifer Ferreira  
**Injection Time:** 09/12/20 17:54      **Supervisor approved:** 09/14/20 13:42 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

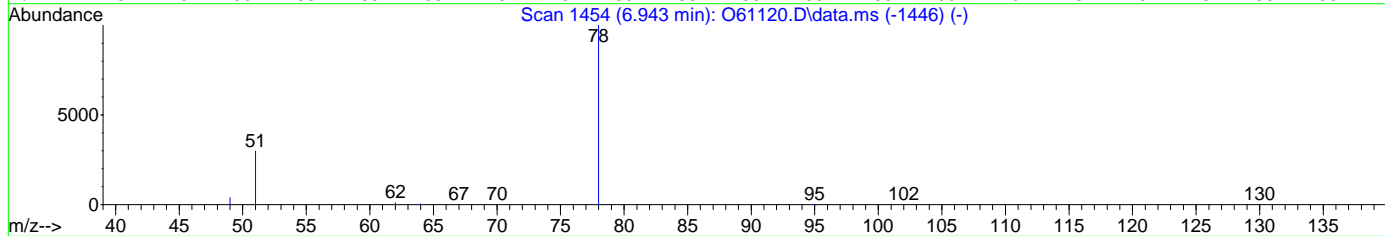
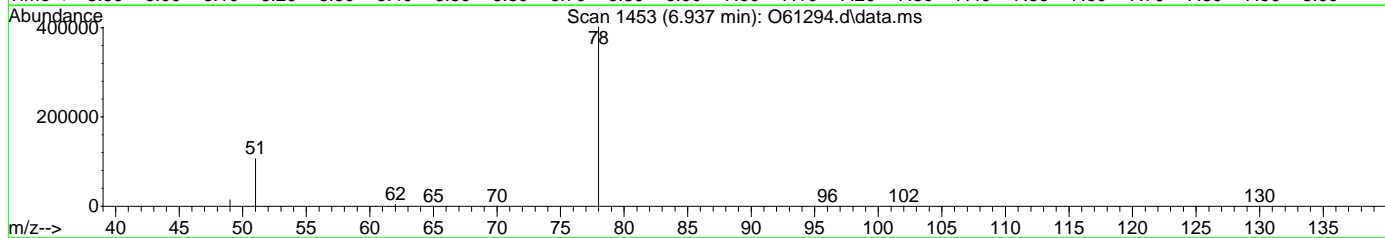
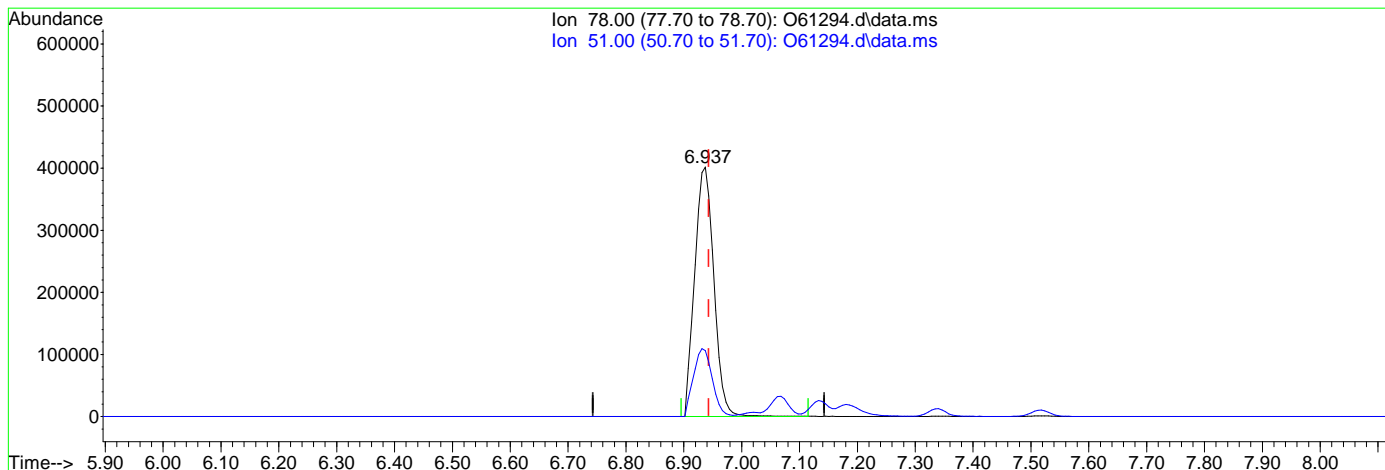
7.6.9.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61294.d  
 Acq On : 12 Sep 2020 5:54 pm  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47192,VO2359,,,,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 07:19:44 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 9.74ug/L

response 928324

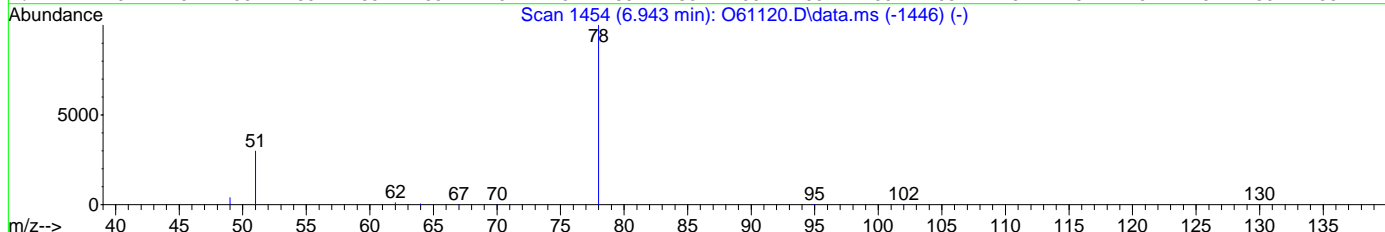
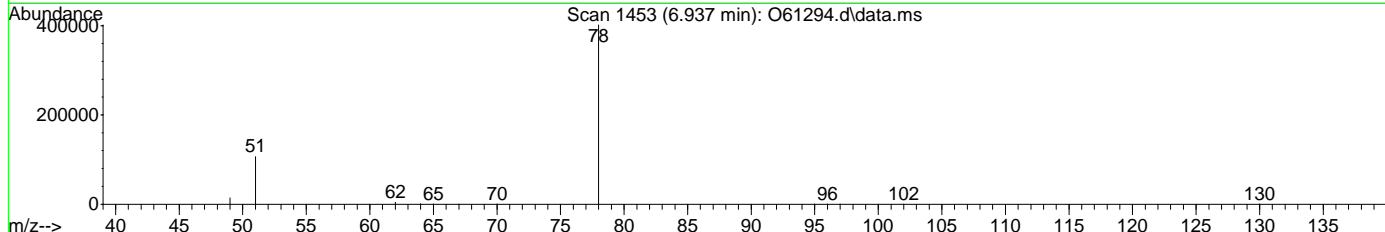
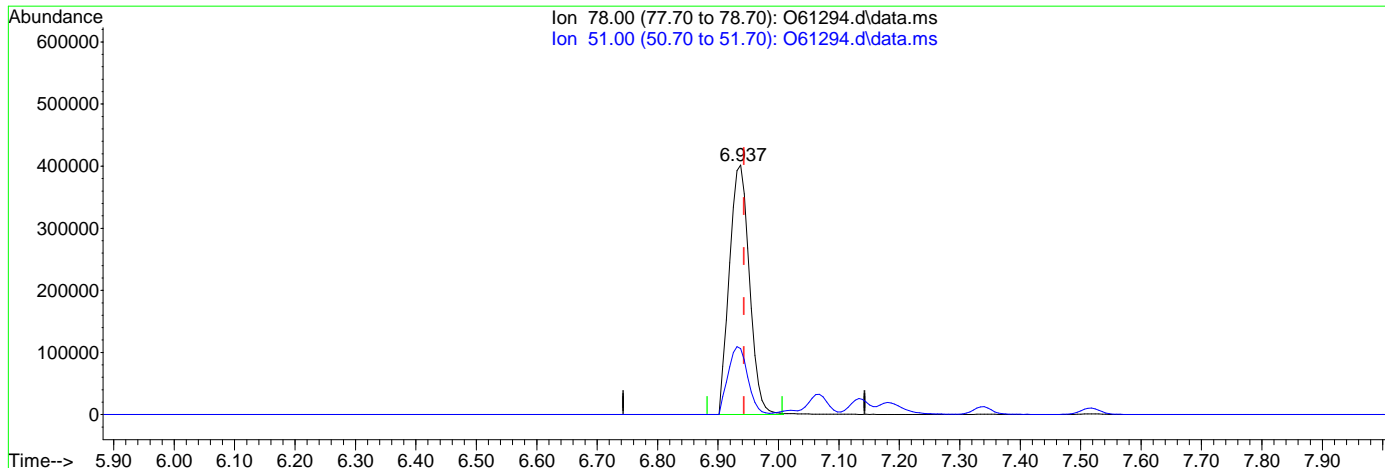
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.48
0.00	0.00	0.00
0.00	0.00	0.00

7.69.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61294.d  
 Acq On : 12 Sep 2020 5:54 pm  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47192,VO2359,,,,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 07:19:44 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 9.68ug/L m

response 922555

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.48
0.00	0.00	0.00
0.00	0.00	0.00

7.69.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61320.d  
 Acq On : 13 Sep 2020 3:13 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47193,VO2359,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 08:07:33 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	267420	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	216936	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	105130	4.87	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	97.40%		
19) Toluene-d8	8.896	98	220851	4.52	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.912	62	305319	10.89	ug/L		97
3) Chloromethane	2.806	50	431249	10.74	ug/L		94
4) 1,1-Dichloroethene	4.092	61	401614	10.87	ug/L		92
5) Methylene Chloride	4.703	49	587576	10.15	ug/L		95
6) trans-1,2-Dichloroethene	4.873	61	448915	10.51	ug/L		86
7) 1,1-Dichloroethane	5.514	63	511732	10.32	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	239115	9.76	ug/L		85
9) Chloroform	6.333	83	423513	9.93	ug/L		95
10) Carbon Tetrachloride	6.511	117	299135	10.29	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	332443	10.11	ug/L		92
12) Benzene	6.943	78	840126m	10.19	ug/L		
14) 1,2-Dichloroethane	7.139	62	397168	9.84	ug/L		93
15) Trichloroethene	7.518	95	252177	10.03	ug/L		85
16) 1,2-Dichloropropane	8.043	63	279886	10.15	ug/L		93
17) cis-1,3-Dichloropropene	8.711	75	262190	9.17	ug/L		97
20) trans-1,3-Dichloropropene	9.343	75	259565	9.10	ug/L		99
21) Tetrachloroethene	9.343	166	239406	10.00	ug/L		100
22) 1,4-Dichlorobenzene	12.827	146	495375	9.86	ug/L		96
23) 1,2-Dibromo-3-Chloropr...	14.037	75	81346	8.88	ug/L		84

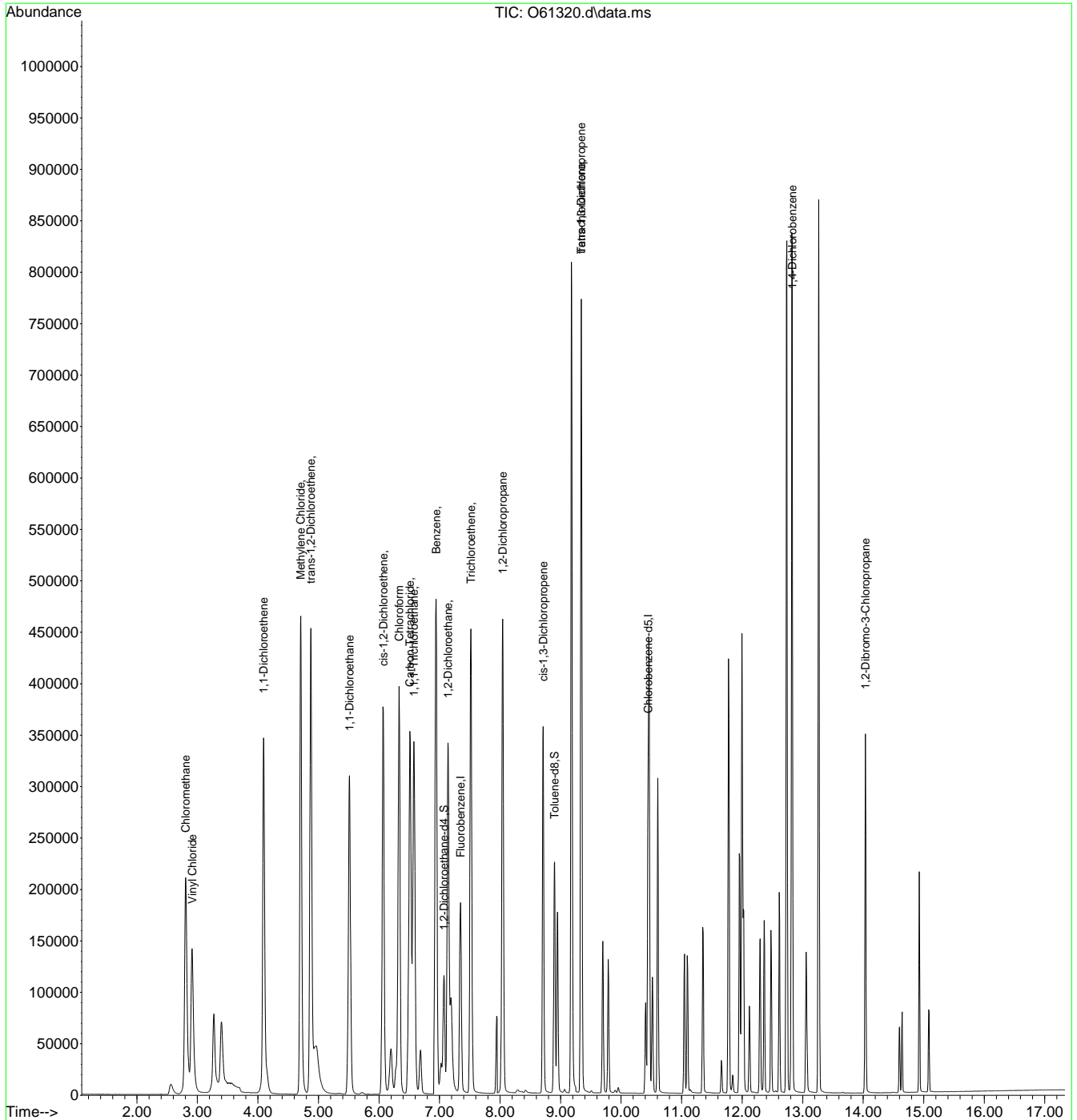
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61320.d  
 Acq On : 13 Sep 2020 3:13 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47193,VO2359,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 08:07:33 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.6.10  
7





# Manual Integration Approval Summary

**Sample Number:** VO2359-ECC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61320.D      **Analyst approved:** 09/14/20 08:16 Jennifer Ferreira  
**Injection Time:** 09/13/20 03:13      **Supervisor approved:** 09/14/20 13:42 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

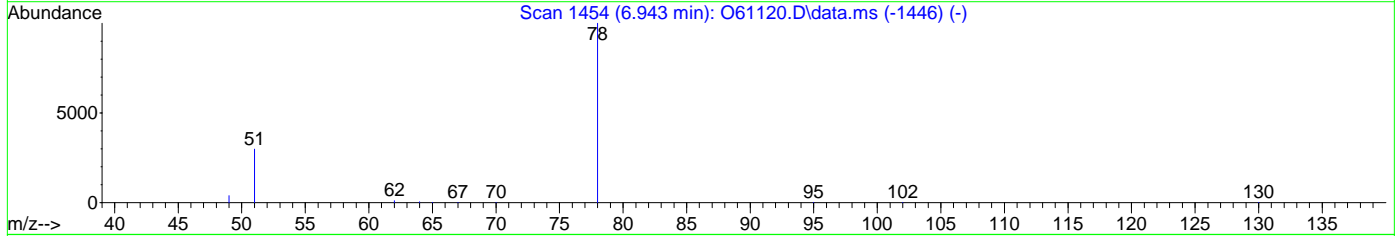
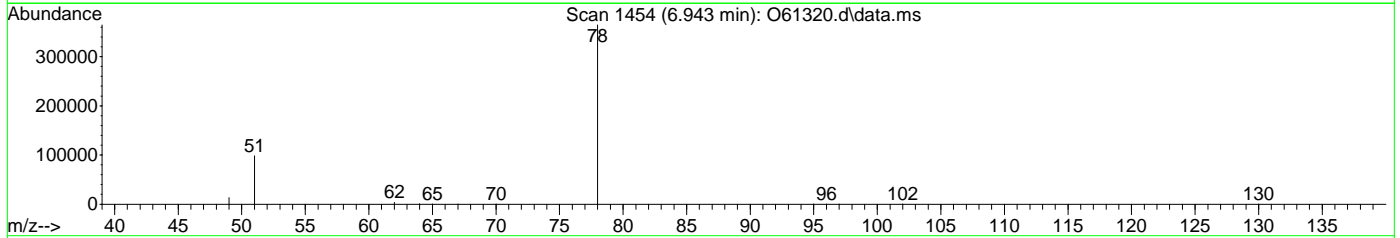
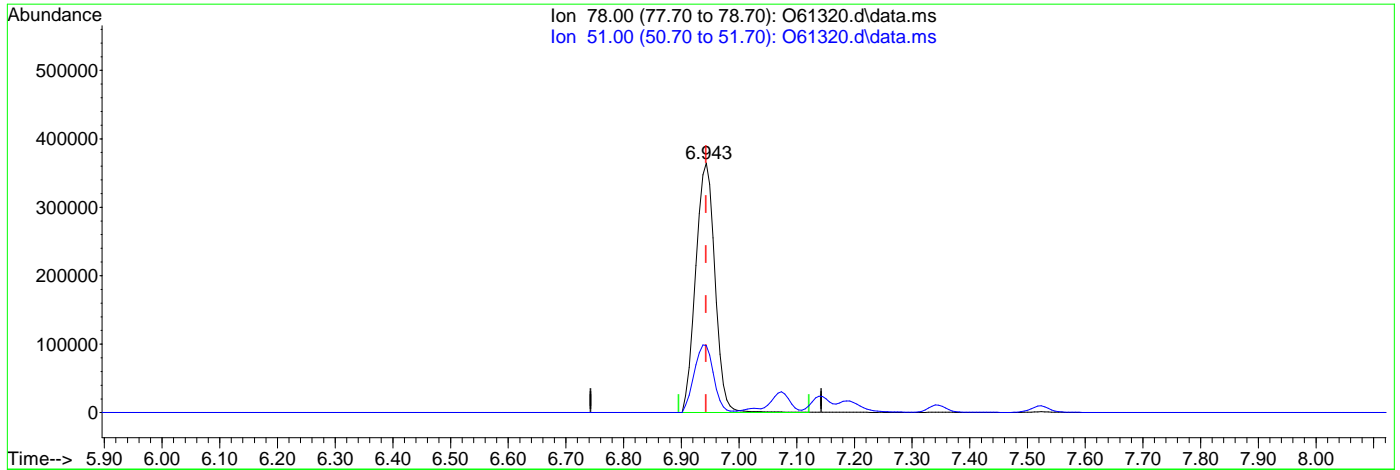
7.6.10.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61320.d  
 Acq On : 13 Sep 2020 3:13 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47193,VO2359,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 07:20:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 10.26ug/L

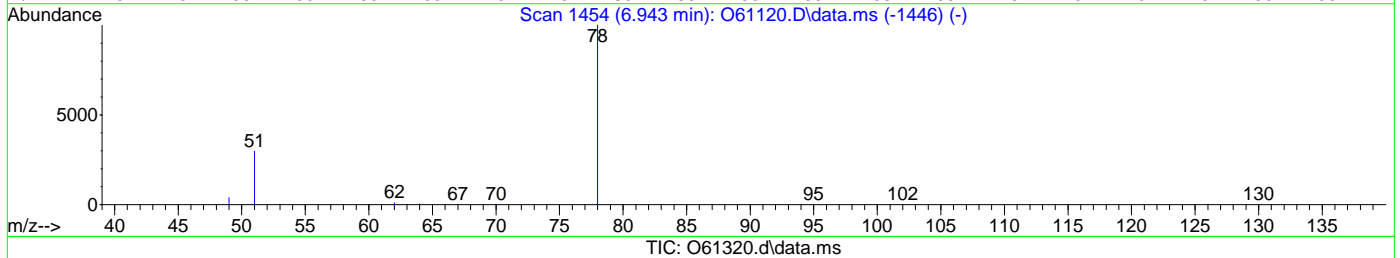
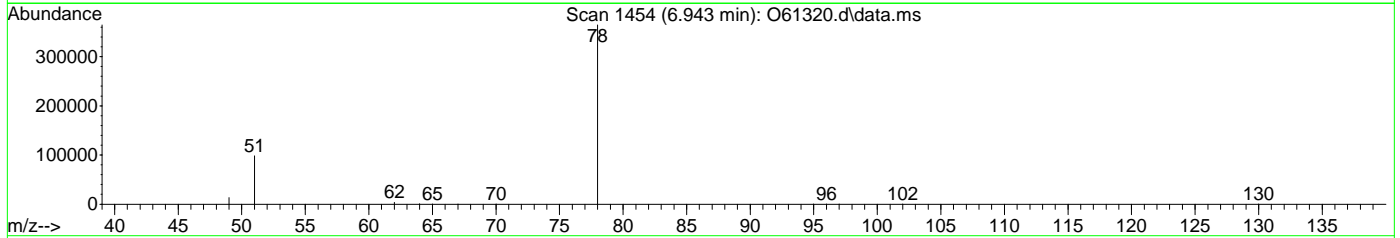
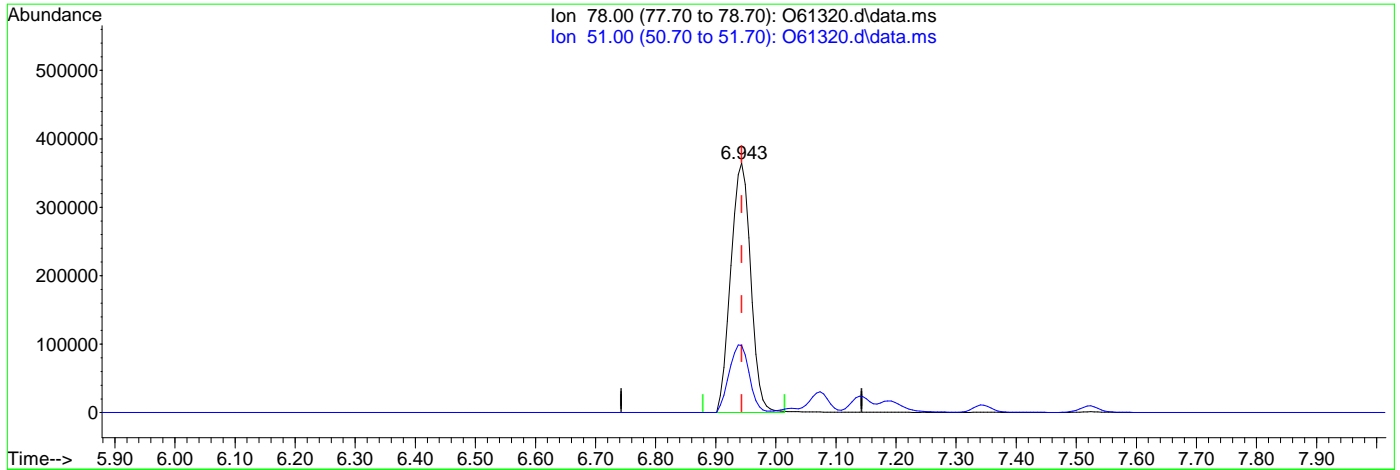
response 846134

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2359\  
 Data File : O61320.d  
 Acq On : 13 Sep 2020 3:13 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47193,VO2359,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 07:20:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 10.19ug/L m

response 840126

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61325.d  
 Acq On : 13 Sep 2020 11:41 am  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 08:28:45 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	286719	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	233530	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	113439	4.90	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.00%		
19) Toluene-d8	8.896	98	240593	4.57	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	307619	10.15	ug/L		98
3) Chloromethane	2.799	50	454425	10.52	ug/L		94
4) 1,1-Dichloroethene	4.085	61	444036	11.21	ug/L		93
5) Methylene Chloride	4.699	49	662302	10.67	ug/L		98
6) trans-1,2-Dichloroethene	4.865	61	488323	10.67	ug/L		85
7) 1,1-Dichloroethane	5.506	63	573092	10.78	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	268107	10.20	ug/L		84
9) Chloroform	6.327	83	469898	10.27	ug/L		95
10) Carbon Tetrachloride	6.505	117	312524	10.02	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	351649	9.97	ug/L		92
12) Benzene	6.937	78	938711m	10.62	ug/L		
14) 1,2-Dichloroethane	7.139	62	453680	10.49	ug/L		92
15) Trichloroethene	7.512	95	275193	10.21	ug/L		87
16) 1,2-Dichloropropane	8.040	63	318194	10.77	ug/L		93
17) cis-1,3-Dichloropropene	8.707	75	318531	10.39	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	316783	10.32	ug/L		97
21) Tetrachloroethene	9.337	166	255132	9.90	ug/L		97
22) 1,4-Dichlorobenzene	12.821	146	564157	10.43	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	98829	9.96	ug/L		84

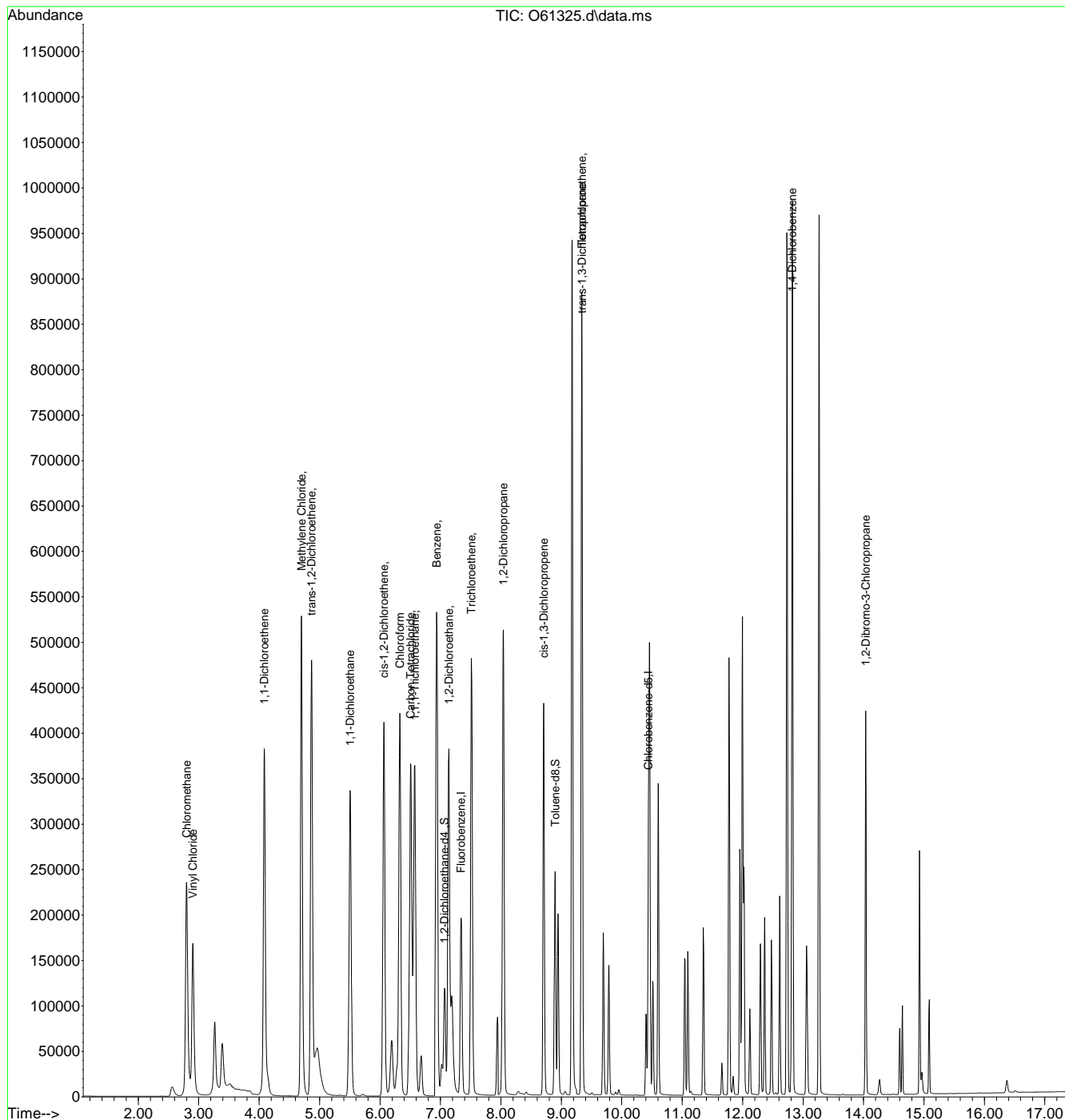
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.11  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61325.d  
 Acq On : 13 Sep 2020 11:41 am  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 08:28:45 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.6.11  
7

# Manual Integration Approval Summary

**Sample Number:** VO2360-CC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61325.D      **Analyst approved:** 09/14/20 08:47 Jennifer Ferreira  
**Injection Time:** 09/13/20 11:41      **Supervisor approved:** 09/14/20 13:35 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

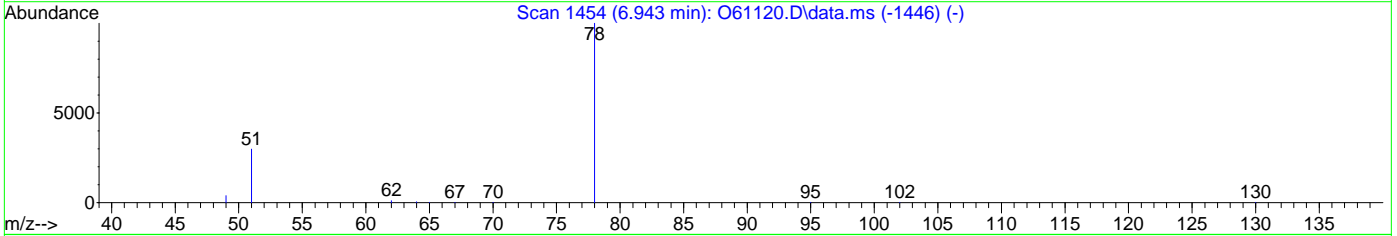
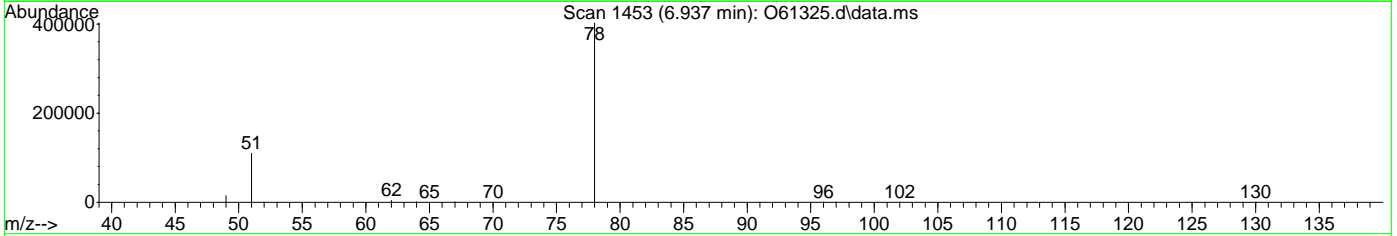
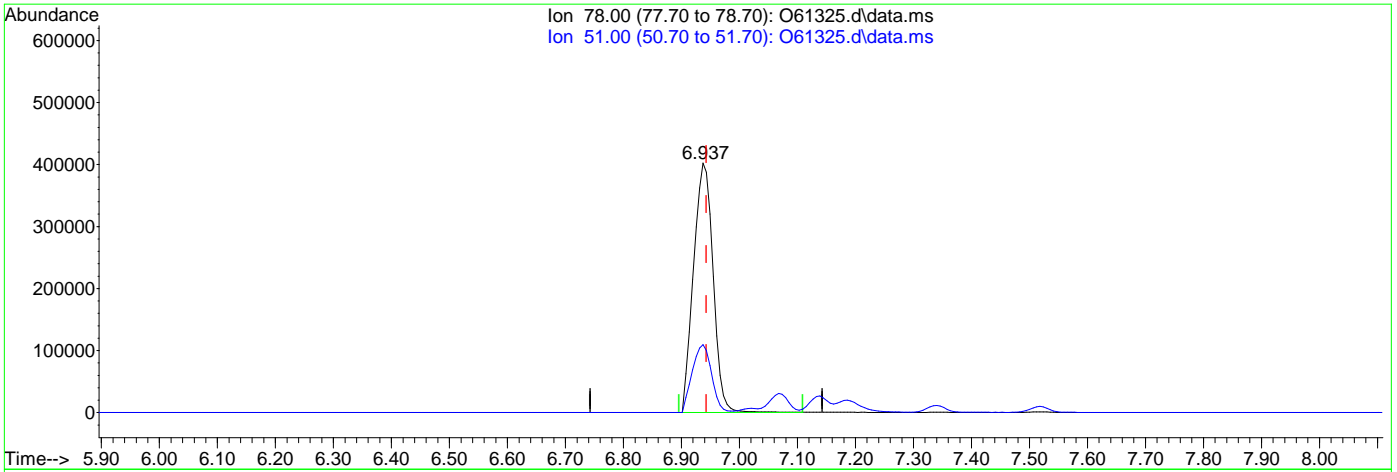
7.6.11.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61325.d  
 Acq On : 13 Sep 2020 11:41 am  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:52:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 10.70ug/L

response 945468

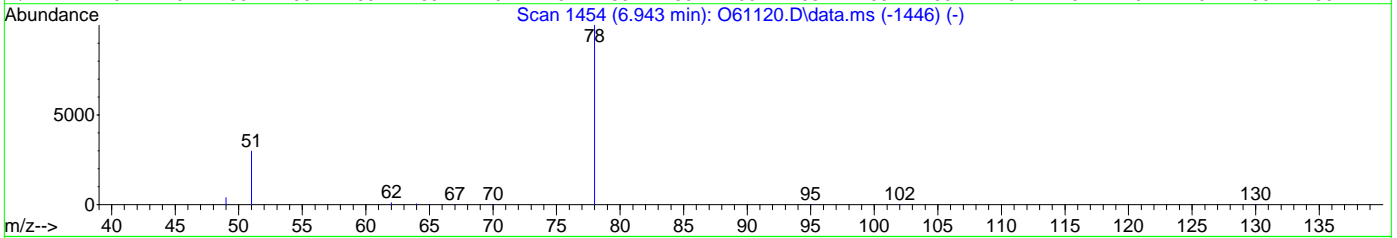
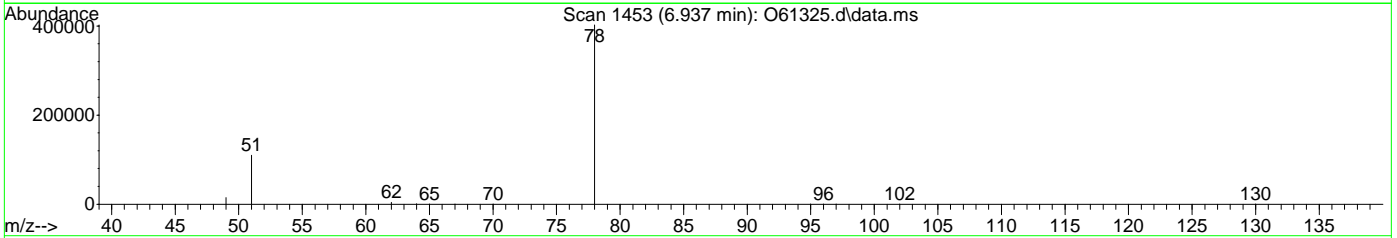
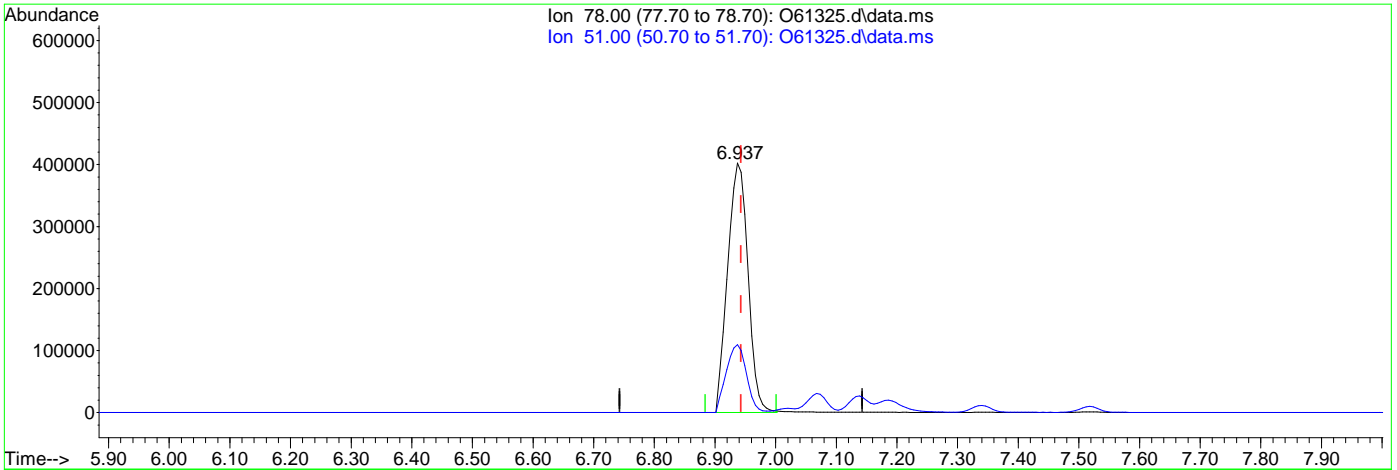
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.25
0.00	0.00	0.00
0.00	0.00	0.00

7.6.11.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61325.d  
 Acq On : 13 Sep 2020 11:41 am  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:52:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 10.62ug/L m

response 938711

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.25
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61351.d  
 Acq On : 13 Sep 2020 8:32 pm  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 08:40:54 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	254568	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	207589	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	100968	4.91	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.20%		
19) Toluene-d8	8.896	98	205296	4.39	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	87.80%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	242387	8.88	ug/L		97
3) Chloromethane	2.799	50	353873	9.00	ug/L		94
4) 1,1-Dichloroethene	4.089	61	323640	9.20	ug/L		92
5) Methylene Chloride	4.700	49	508398	9.22	ug/L		94
6) trans-1,2-Dichloroethene	4.869	61	362417	8.92	ug/L		85
7) 1,1-Dichloroethane	5.510	63	419399	8.89	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	194215	8.33	ug/L #		82
9) Chloroform	6.333	83	348668	8.59	ug/L		95
10) Carbon Tetrachloride	6.511	117	235689	8.51	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	261973	8.37	ug/L		91
12) Benzene	6.943	78	673294m	8.58	ug/L		
14) 1,2-Dichloroethane	7.139	62	327497	8.53	ug/L		94
15) Trichloroethene	7.512	95	200555	8.38	ug/L		88
16) 1,2-Dichloropropane	8.040	63	228374	8.70	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	215989	7.93	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	216249	7.92	ug/L		99
21) Tetrachloroethene	9.337	166	192902	8.44	ug/L		93
22) 1,4-Dichlorobenzene	12.821	146	414851	8.63	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.038	75	69494	7.97	ug/L #		77

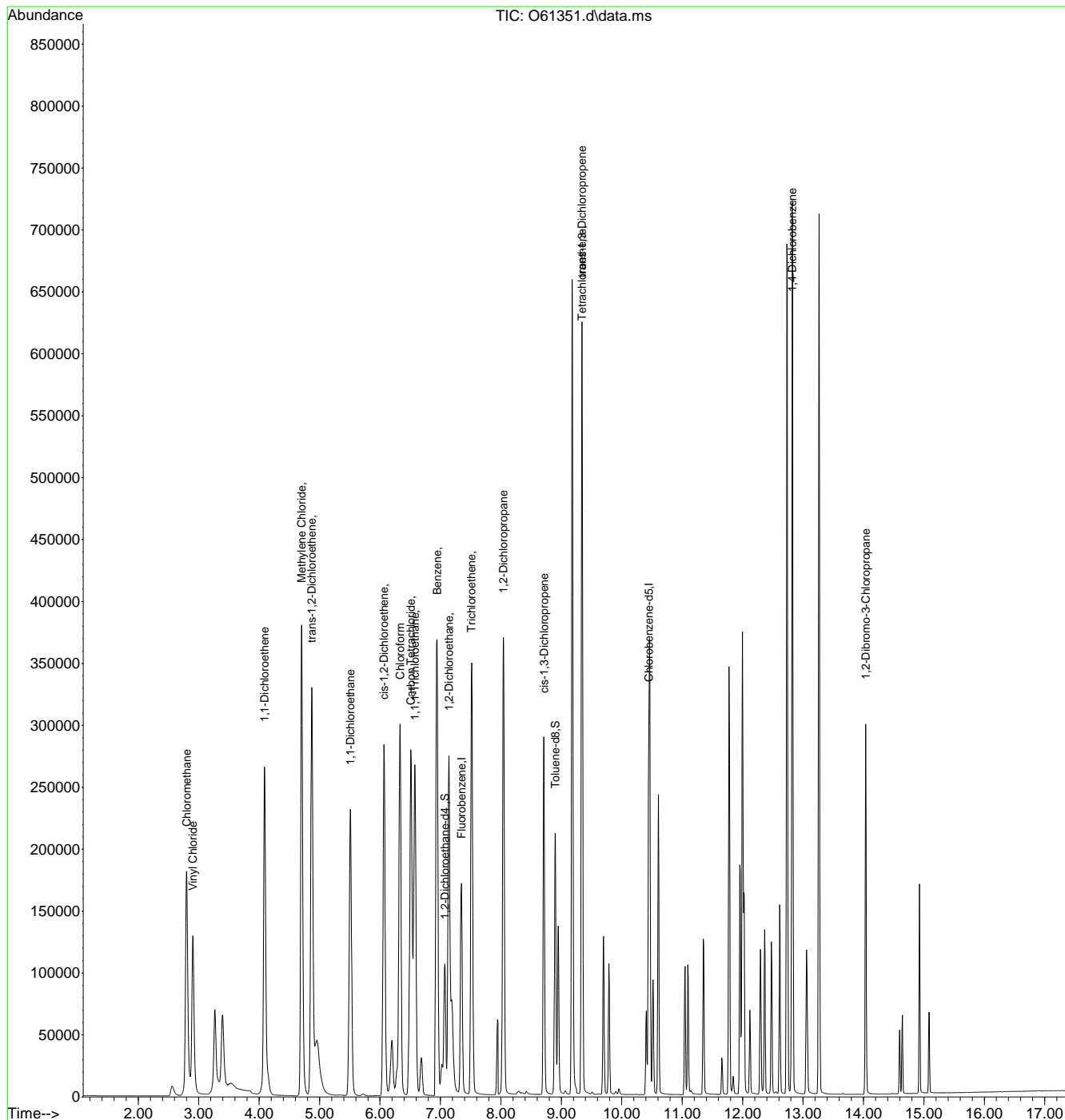
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.12  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61351.d  
 Acq On : 13 Sep 2020 8:32 pm  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 08:40:54 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.6.12  
7

# Manual Integration Approval Summary

**Sample Number:** VO2360-ECC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61351.D      **Analyst approved:** 09/14/20 08:47 Jennifer Ferreira  
**Injection Time:** 09/13/20 20:32      **Supervisor approved:** 09/14/20 13:36 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

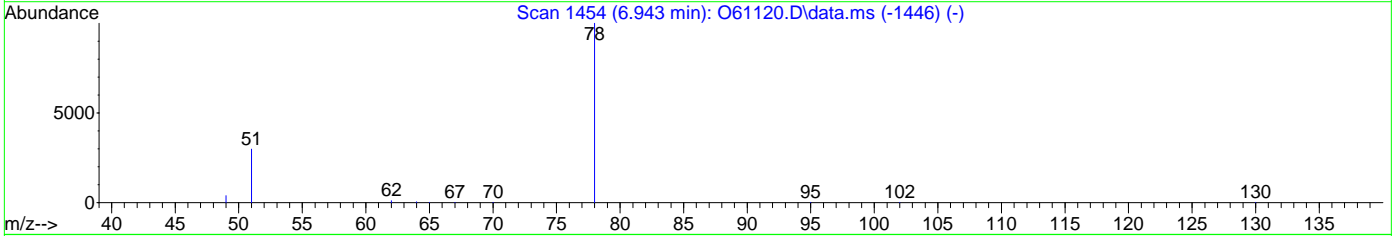
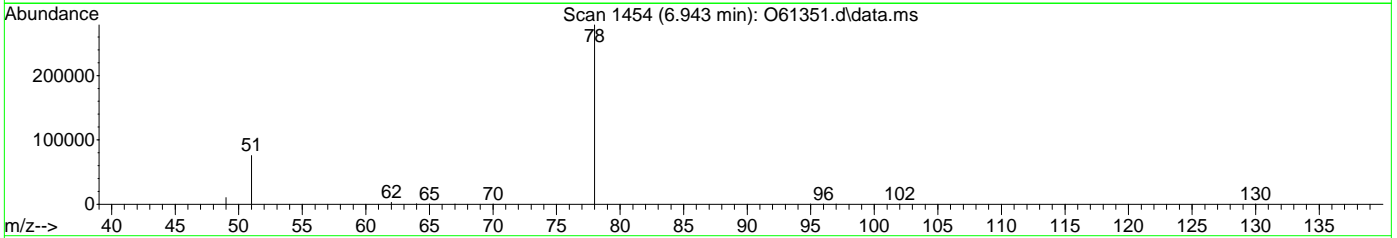
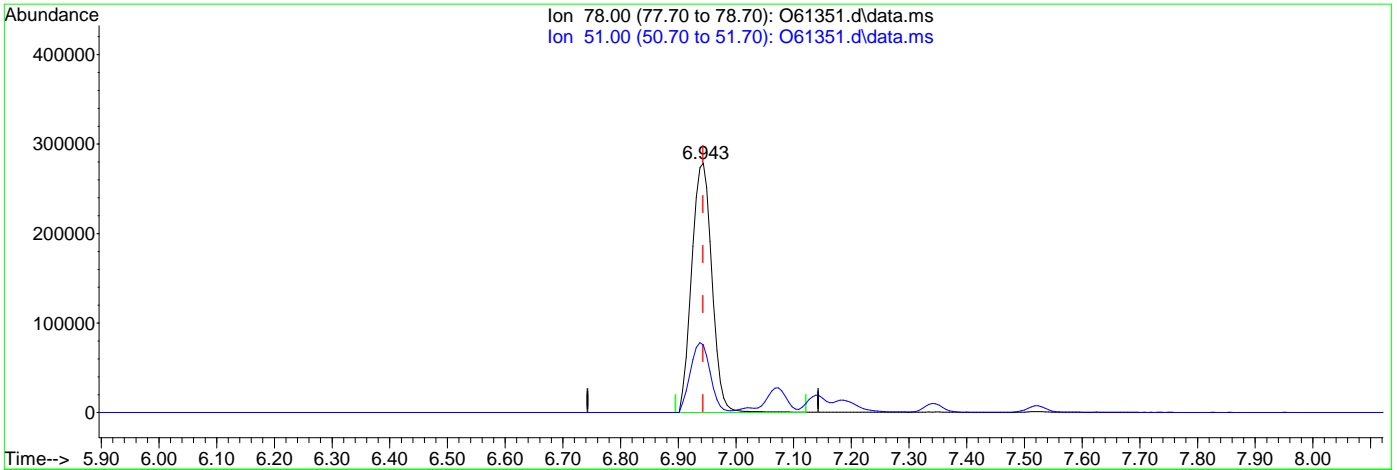
7.6.12.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61351.d  
 Acq On : 13 Sep 2020 8:32 pm  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 07:53:31 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 8.64ug/L

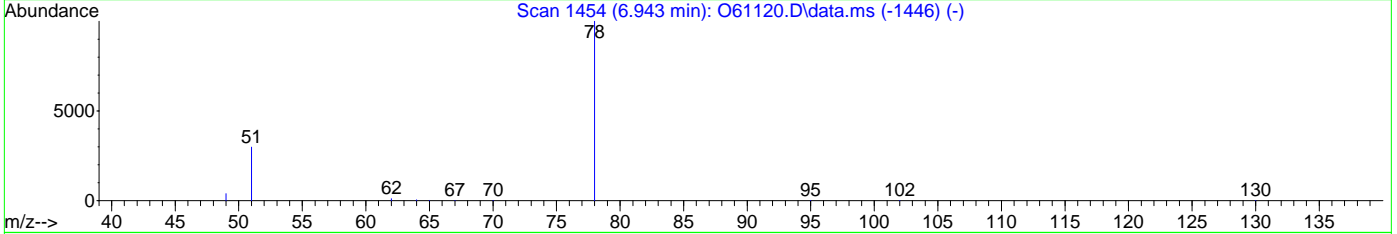
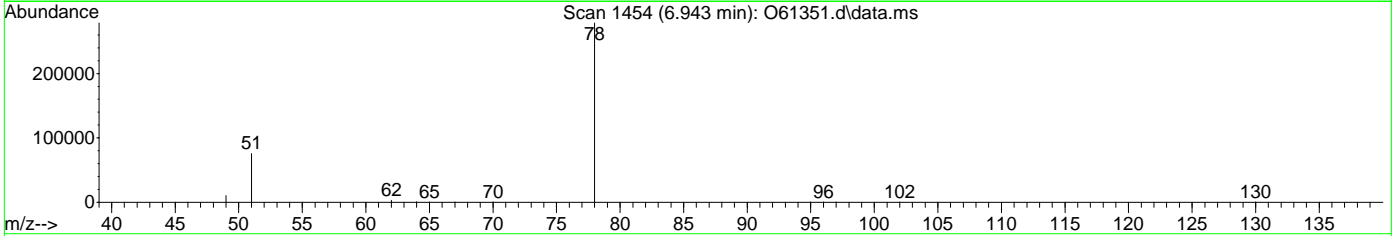
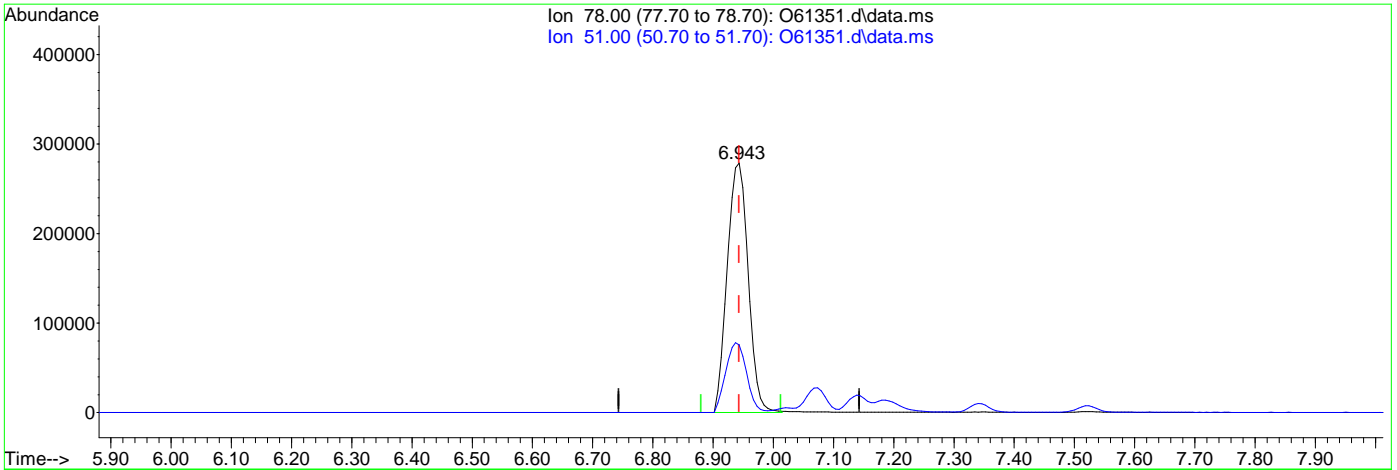
response 678435

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61351.d  
 Acq On : 13 Sep 2020 8:32 pm  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 07:53:31 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 8.58ug/L m  
 response 673294

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62207.D  
 Acq On : 11 Sep 2020 6:15 pm  
 Operator : SHANICAO  
 Sample : IC2414-1  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 20:45:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1911916	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1500837	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	582041	4.07	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	81.40%		
19) Toluene-d8	8.961	98	1882184	5.19	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	103.80%		
Target Compounds							Qvalue
2) Vinyl Chloride	2.846	62	28495	0.14	ppb		64
3) Chloromethane	2.741	50	25350	0.11	ppb		98
4) 1,1-Dichloroethene	4.083	96	11716	0.09	ppb	#	82
5) Methylene Chloride	4.713	84	104791	0.50	ppb	#	85
6) trans-1,2-Dichloroethene	4.886	96	13680	0.09	ppb	#	86
7) 1,1-Dichloroethane	5.542	63	21987	0.07	ppb	#	93
8) cis-1,2-Dichloroethene	6.104	96	16012	0.10	ppb		90
9) Chloroform	6.371	83	29706	0.09	ppb		94
10) Carbon Tetrachloride	6.543	117	19024	0.09	ppb		96
11) 1,1,1-Trichloroethane	6.614	97	24317	0.09	ppb		56
12) Benzene	6.994	78	51294	0.09	ppb		91
14) 1,2-Dichloroethane	7.198	62	19143	0.08	ppb		99
15) Trichloroethene	7.564	95	15849	0.09	ppb		96
16) 1,2-Dichloropropane	8.101	63	13157	0.09	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	13481	0.09	ppb		96
20) trans-1,3-Dichloropropene	9.411	75	10019	0.09	ppb		96
21) Tetrachloroethene	9.399	166	15170	0.09	ppb		97

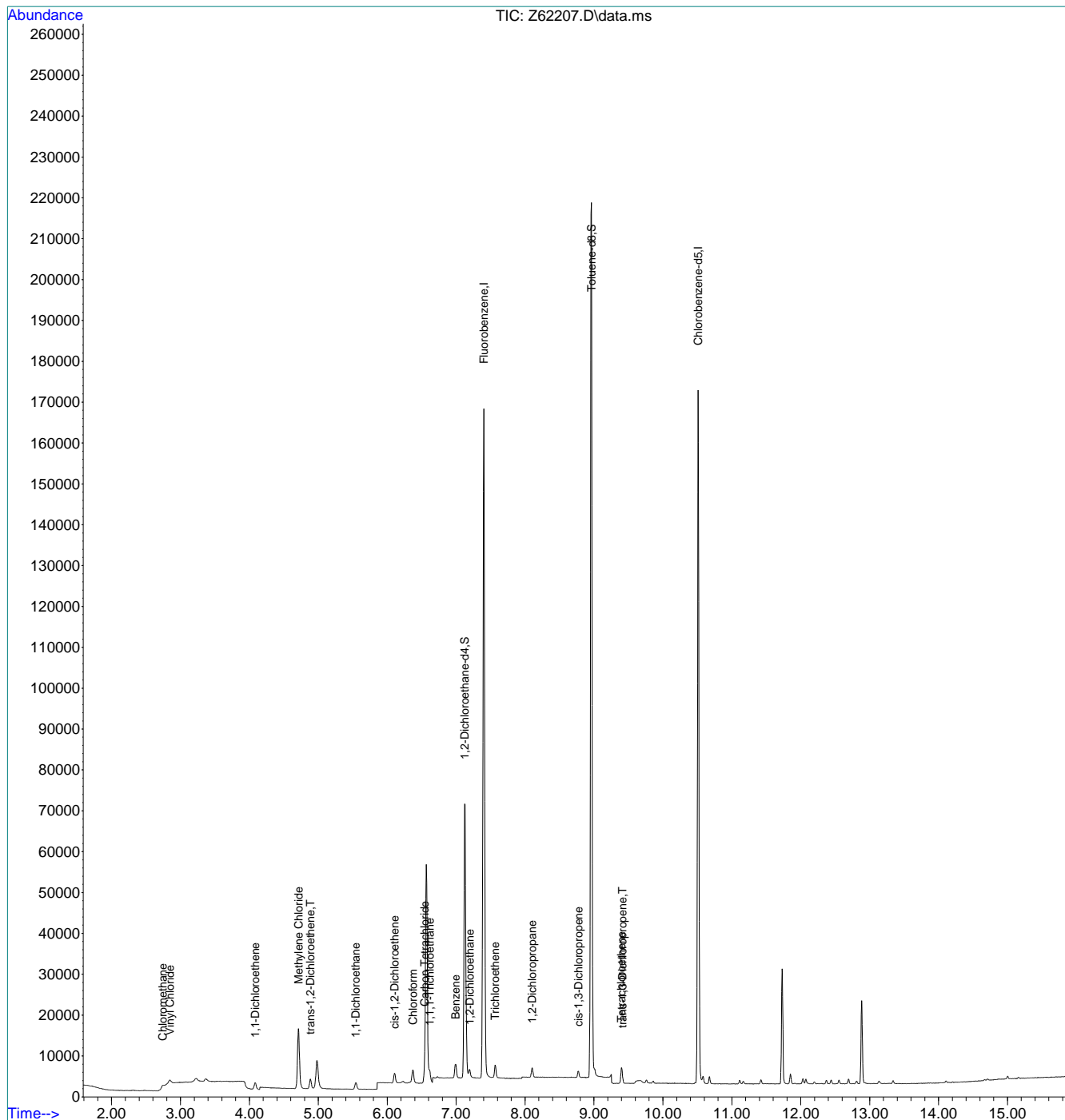
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.13  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62207.D  
 Acq On : 11 Sep 2020 6:15 pm  
 Operator : SHANICAO  
 Sample : IC2414-1  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 20:45:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.13  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62208.D  
 Acq On : 11 Sep 2020 6:34 pm  
 Operator : SHANICAO  
 Sample : IC2414-2  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 20:45:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1904308	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1505590	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	590498	4.14	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.80%	
19) Toluene-d8	8.961	98	1879356	5.17	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	100902	0.49	ppb		94
3) Chloromethane	2.737	50	94917	0.43	ppb		99
4) 1,1-Dichloroethene	4.087	96	56778	0.46	ppb	#	85
5) Methylene Chloride	4.717	84	159658	0.77	ppb	#	84
6) trans-1,2-Dichloroethene	4.890	96	72093	0.47	ppb	#	87
7) 1,1-Dichloroethane	5.546	63	125841	0.43	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	81784	0.50	ppb		91
9) Chloroform	6.377	83	149761	0.46	ppb		99
10) Carbon Tetrachloride	6.543	117	93184	0.46	ppb		100
11) 1,1,1-Trichloroethane	6.620	97	125772	0.46	ppb		93
12) Benzene	6.994	78	278106	0.49	ppb		95
14) 1,2-Dichloroethane	7.198	62	107084	0.46	ppb		99
15) Trichloroethene	7.571	95	81536	0.46	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	71854	0.47	ppb		96
17) cis-1,3-Dichloropropene	8.773	75	62431	0.42	ppb		97
20) trans-1,3-Dichloropropene	9.411	75	51134	0.43	ppb		97
21) Tetrachloroethene	9.399	166	81006	0.45	ppb		99

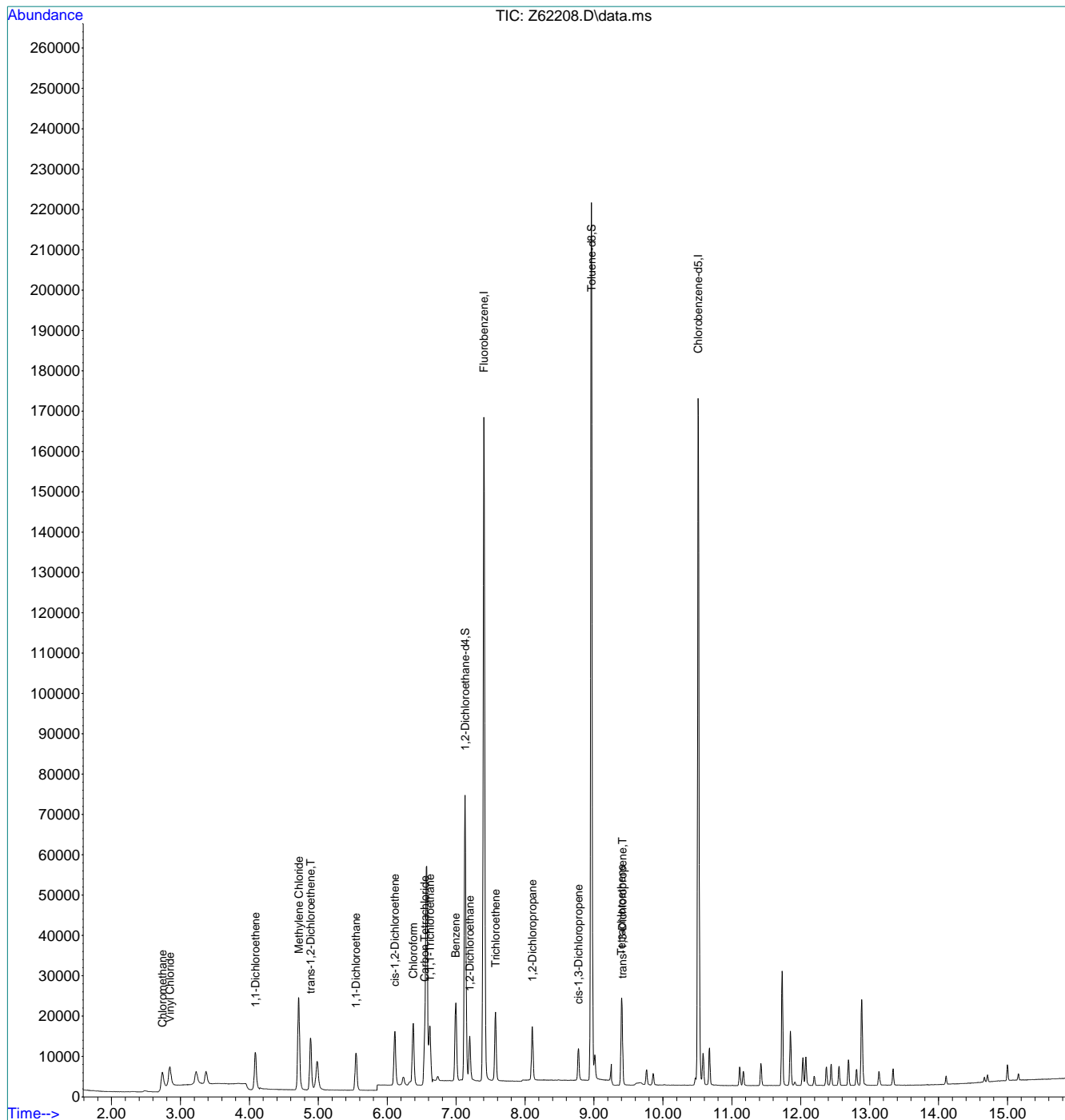
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62208.D  
 Acq On : 11 Sep 2020 6:34 pm  
 Operator : SHANICAO  
 Sample : IC2414-2  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 20:45:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.14  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62209.D  
 Acq On : 11 Sep 2020 6:53 pm  
 Operator : SHANICAO  
 Sample : IC2414-3  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 20:45:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

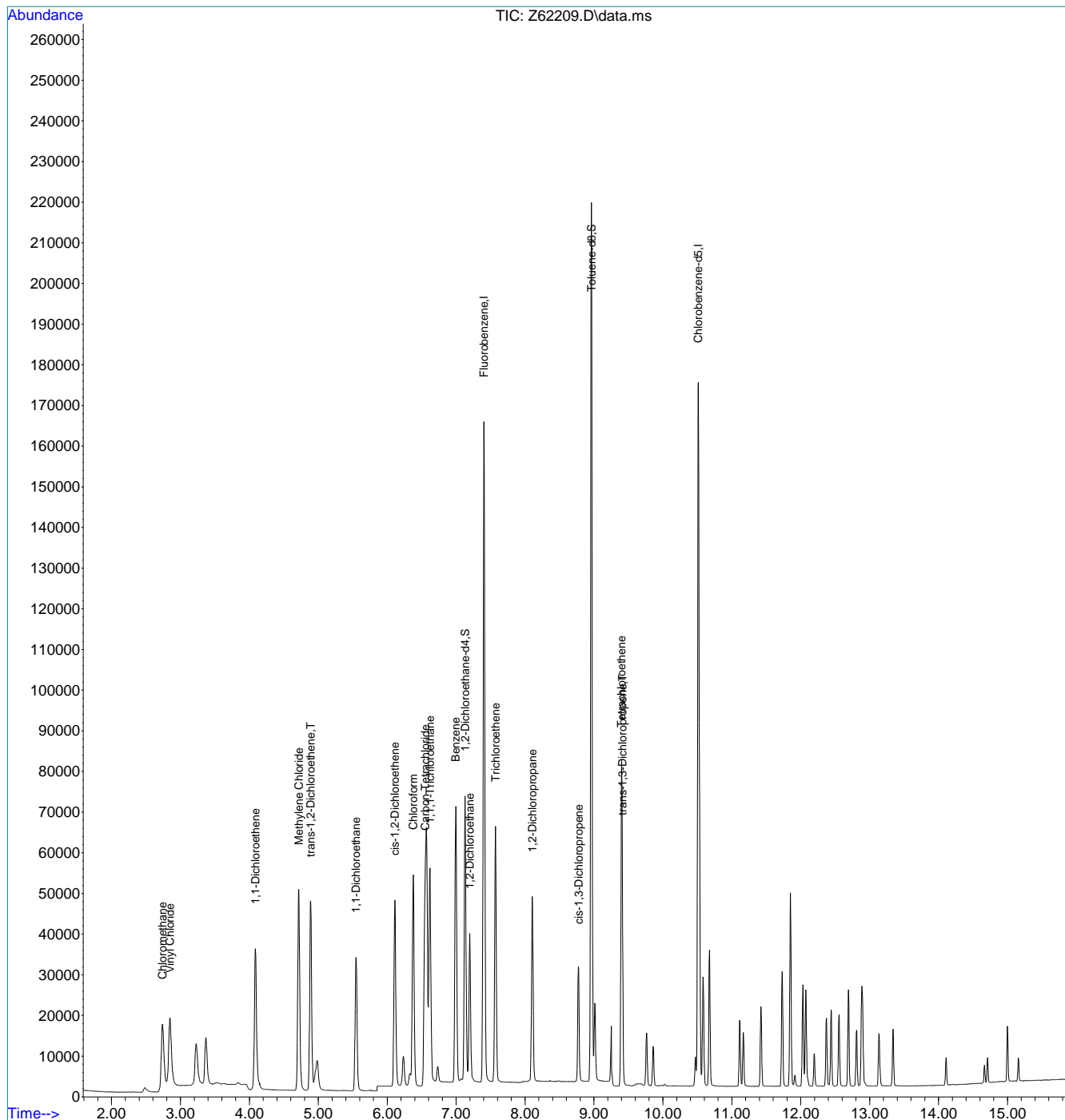
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1880383	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1501976	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	577590	4.10	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.00%	
19) Toluene-d8	8.961	98	1874357	5.17	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	355035	1.73	ppb		99
3) Chloromethane	2.737	50	361423	1.66	ppb		99
4) 1,1-Dichloroethene	4.087	96	211318	1.74	ppb	#	86
5) Methylene Chloride	4.717	84	343631	1.70	ppb	#	85
6) trans-1,2-Dichloroethene	4.890	96	256460	1.69	ppb	#	88
7) 1,1-Dichloroethane	5.546	63	437656	1.50	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	282000	1.74	ppb		93
9) Chloroform	6.377	83	511484	1.59	ppb		99
10) Carbon Tetrachloride	6.549	117	347244	1.75	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	460357	1.71	ppb		97
12) Benzene	6.994	78	967414	1.72	ppb		96
14) 1,2-Dichloroethane	7.198	62	357979	1.54	ppb		100
15) Trichloroethene	7.571	95	292723	1.66	ppb		86
16) 1,2-Dichloropropane	8.105	63	240964	1.60	ppb		94
17) cis-1,3-Dichloropropene	8.777	75	222972	1.51	ppb		97
20) trans-1,3-Dichloropropene	9.411	75	182860	1.51	ppb		99
21) Tetrachloroethene	9.399	166	294888	1.65	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62209.D  
 Acq On : 11 Sep 2020 6:53 pm  
 Operator : SHANICAO  
 Sample : IC2414-3  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 20:45:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.15  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62210.D  
 Acq On : 11 Sep 2020 7:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-4  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 20:45:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

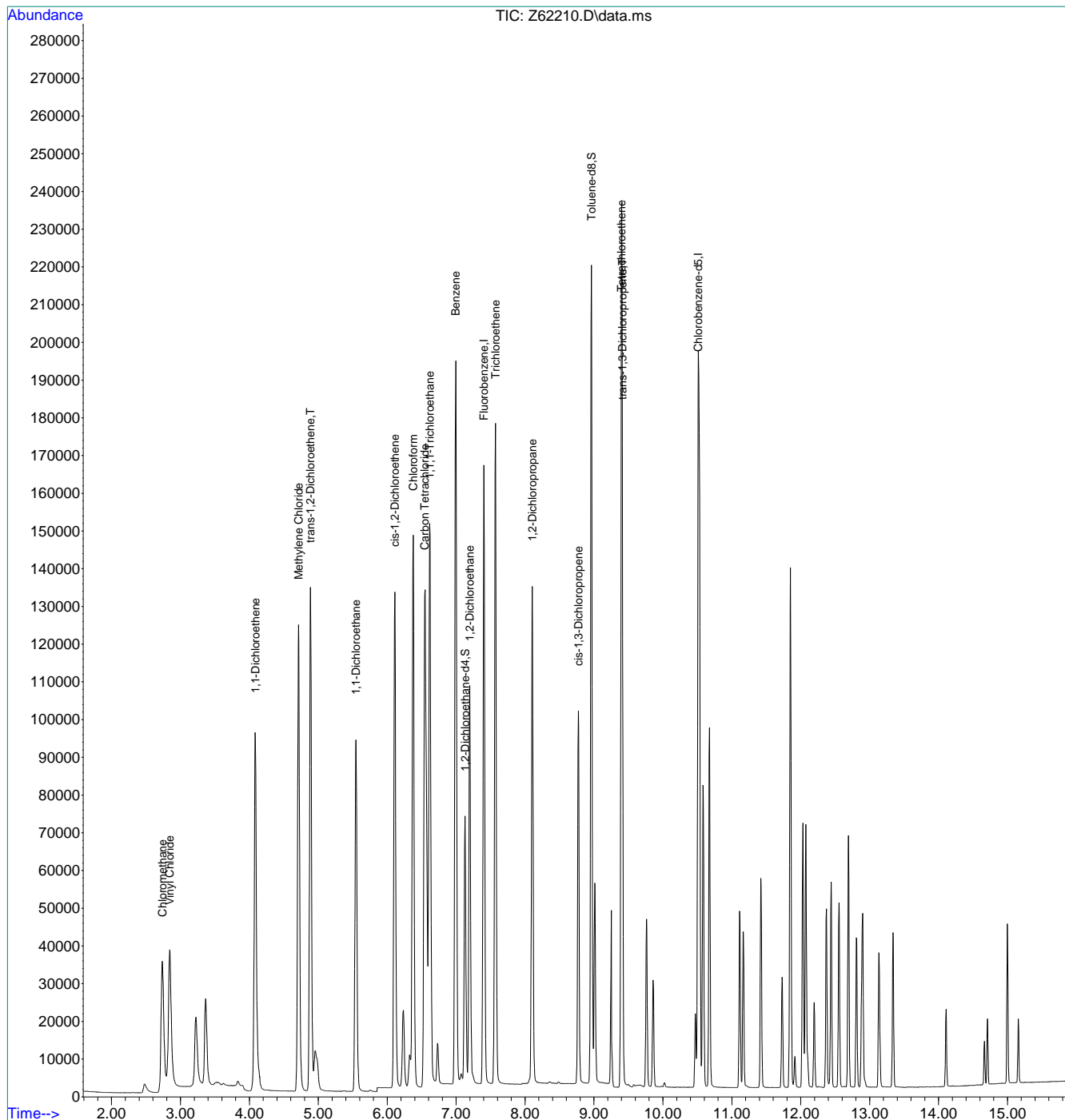
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1874569	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1501119	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	580143	4.14	ppb	0.00
Spiked Amount	5.000	Range 79 - 125	Recovery	=	82.80%	
19) Toluene-d8	8.961	98	1856134	5.12	ppb	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	102.40%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.843	62	746636	3.65	ppb	100
3) Chloromethane	2.737	50	689642	3.18	ppb	100
4) 1,1-Dichloroethene	4.087	96	578860	4.78	ppb	# 84
5) Methylene Chloride	4.713	84	844960	4.28	ppb	# 87
6) trans-1,2-Dichloroethene	4.887	96	721782	4.77	ppb	90
7) 1,1-Dichloroethane	5.546	63	1240697	4.27	ppb	# 99
8) cis-1,2-Dichloroethene	6.110	96	799673	4.96	ppb	91
9) Chloroform	6.377	83	1469750	4.59	ppb	100
10) Carbon Tetrachloride	6.543	117	991099	5.00	ppb	98
11) 1,1,1-Trichloroethane	6.614	97	1287900	4.80	ppb	99
12) Benzene	6.994	78	2731897	4.86	ppb	94
14) 1,2-Dichloroethane	7.198	62	1039442	4.49	ppb	100
15) Trichloroethene	7.571	95	828558	4.70	ppb	# 84
16) 1,2-Dichloropropane	8.105	63	697663	4.66	ppb	93
17) cis-1,3-Dichloropropene	8.773	75	770426	4.98	ppb	99
20) trans-1,3-Dichloropropene	9.412	75	644715	4.96	ppb	99
21) Tetrachloroethene	9.399	166	826179	4.63	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62210.D  
 Acq On : 11 Sep 2020 7:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-4  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 20:45:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.16  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62211.D  
 Acq On : 11 Sep 2020 7:32 pm  
 Operator : SHANICAO  
 Sample : ICC2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 20:45:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

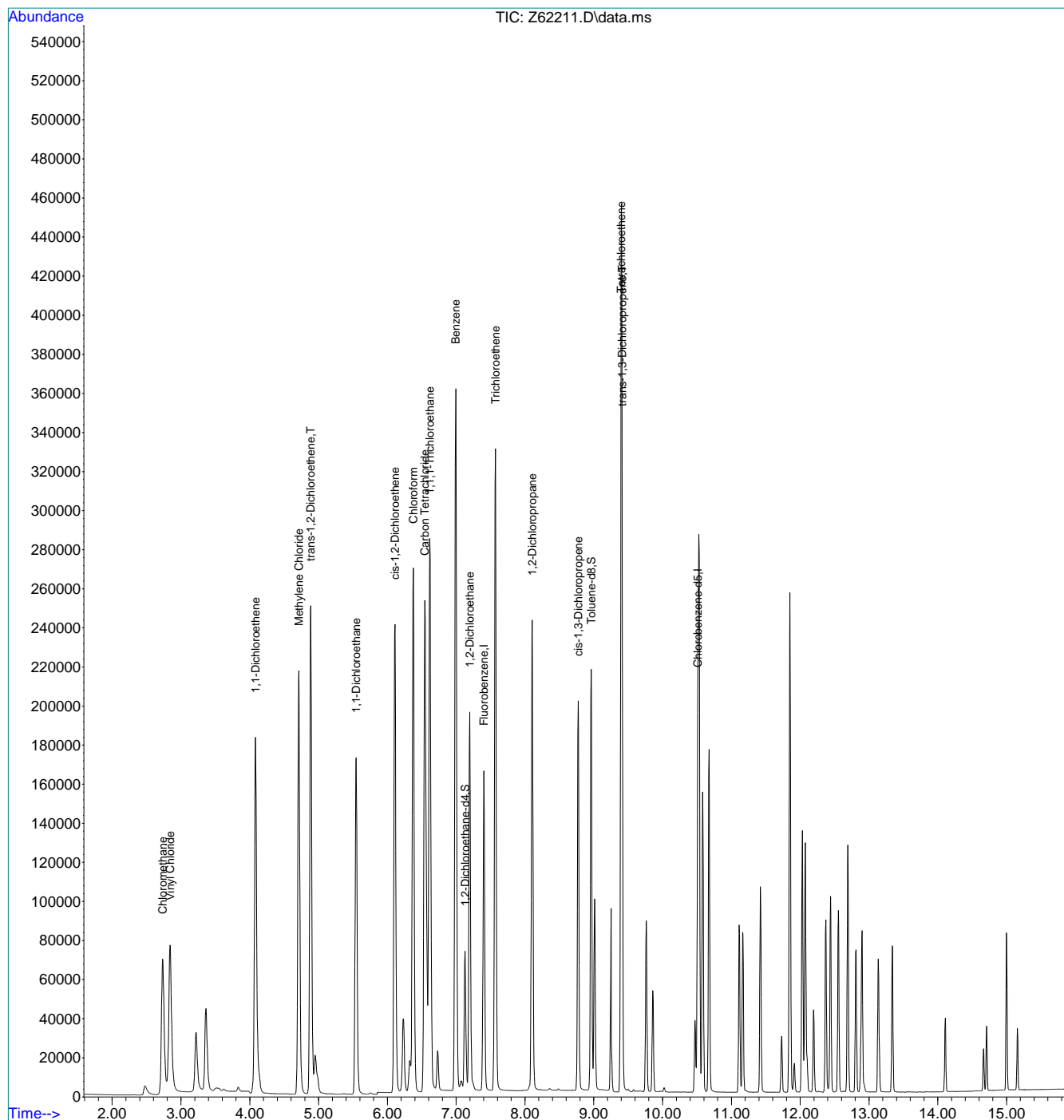
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1875869	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1507669	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	588321	4.19	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	83.80%	
19) Toluene-d8	8.961	98	1858099	5.10	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1492558	7.29	ppb		99
3) Chloromethane	2.733	50	1346933	6.21	ppb		100
4) 1,1-Dichloroethene	4.083	96	1096324	9.05	ppb	#	86
5) Methylene Chloride	4.713	84	1470542	7.68	ppb	#	86
6) trans-1,2-Dichloroethene	4.886	96	1349910	8.92	ppb		89
7) 1,1-Dichloroethane	5.546	63	2297659	7.91	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1467363	9.09	ppb		90
9) Chloroform	6.377	83	2692203	8.40	ppb		99
10) Carbon Tetrachloride	6.543	117	1927309	9.72	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2452792	9.14	ppb		99
12) Benzene	6.994	78	5069961	9.02	ppb		94
14) 1,2-Dichloroethane	7.198	62	1897782	8.19	ppb		100
15) Trichloroethene	7.571	95	1558656	8.84	ppb	#	82
16) 1,2-Dichloropropane	8.105	63	1281972	8.55	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	1534300	9.33	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	1291984	9.12	ppb		98
21) Tetrachloroethene	9.399	166	1556787	8.70	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62211.D  
 Acq On : 11 Sep 2020 7:32 pm  
 Operator : SHANICAO  
 Sample : ICC2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 20:45:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.17  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 13:35:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1928565	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1554348	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	598324	4.15	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	83.00%	
19) Toluene-d8	8.961	98	1902886	5.07	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	2372157	11.27	ppb		99
3) Chloromethane	2.737	50	2193747m	9.84	ppb		
4) 1,1-Dichloroethene	4.083	96	1744774	14.01	ppb	#	85
5) Methylene Chloride	4.713	84	2365093	12.57	ppb	#	86
6) trans-1,2-Dichloroethene	4.886	96	2193890	14.11	ppb		89
7) 1,1-Dichloroethane	5.546	63	3742058	12.53	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	2407966	14.50	ppb		90
9) Chloroform	6.377	83	4396659	13.34	ppb		99
10) Carbon Tetrachloride	6.543	117	3121791	15.31	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	3949841	14.31	ppb		100
12) Benzene	6.994	78	8243521	14.26	ppb		94
14) 1,2-Dichloroethane	7.198	62	3118382	13.08	ppb		100
15) Trichloroethene	7.564	95	2545311	14.04	ppb		96
16) 1,2-Dichloropropane	8.105	63	2098124	13.62	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	2732029	15.02	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2318445	14.41	ppb		99
21) Tetrachloroethene	9.399	166	2516093	13.63	ppb		100

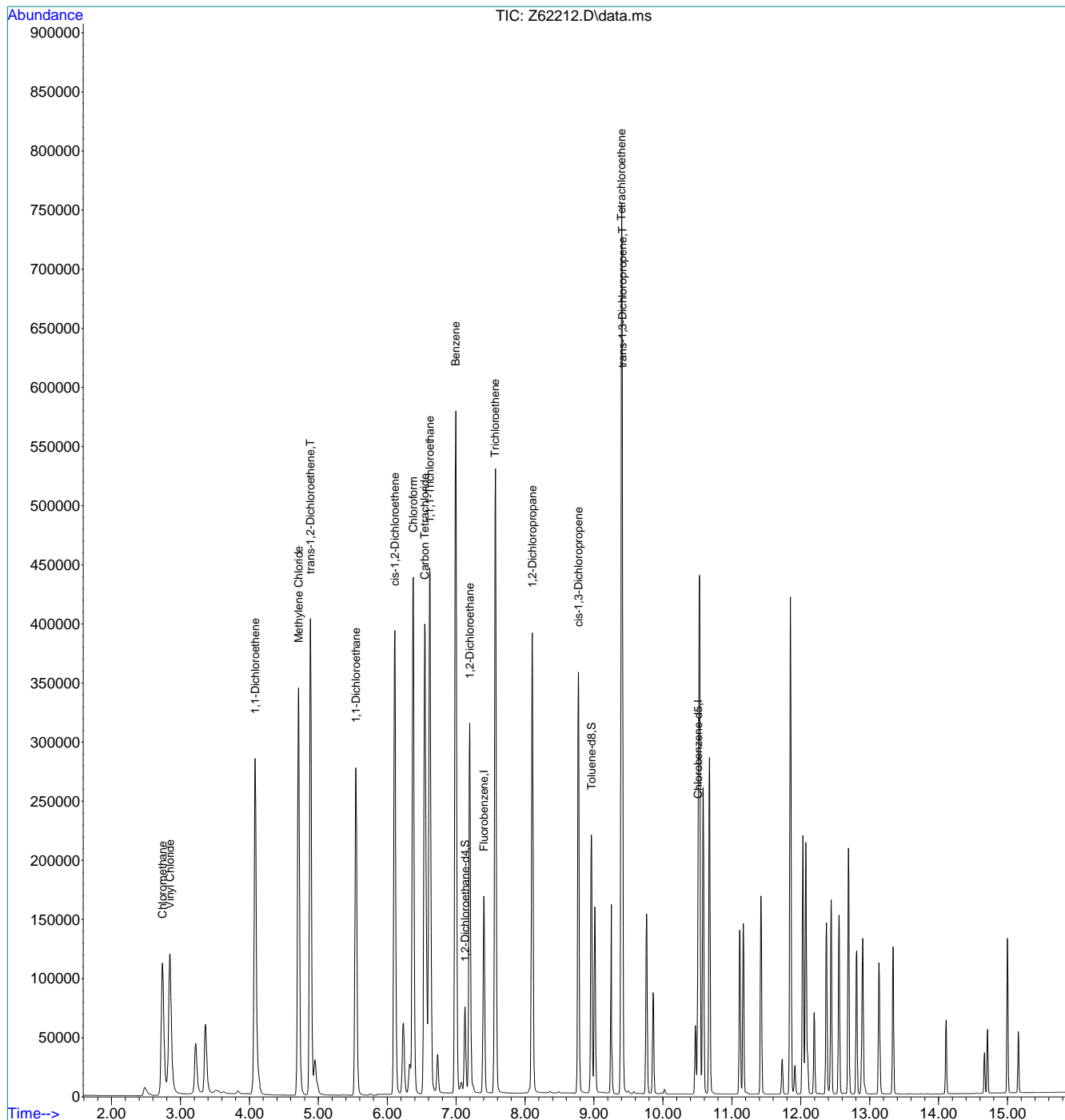
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 13:35:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.18  
7

# Manual Integration Approval Summary

**Sample Number:** VZ2414-IC2414      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62212.D      **Analyst approved:** 09/13/20 13:47 Stuti Patel  
**Injection Time:** 09/11/20 19:51      **Supervisor approved:** 09/14/20 11:09 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.74	Overlapping peak

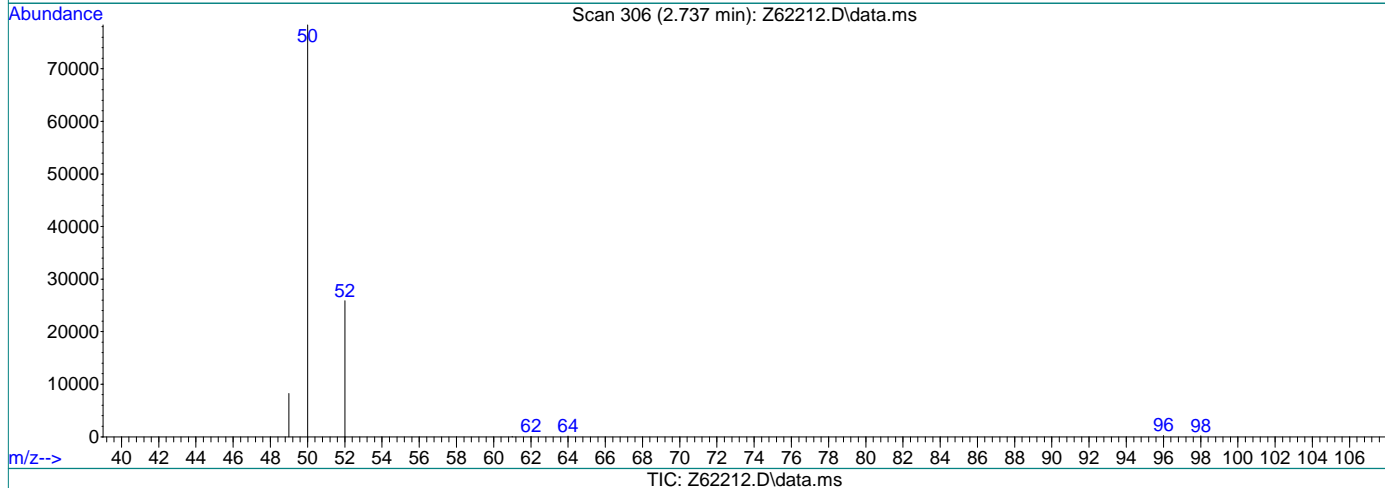
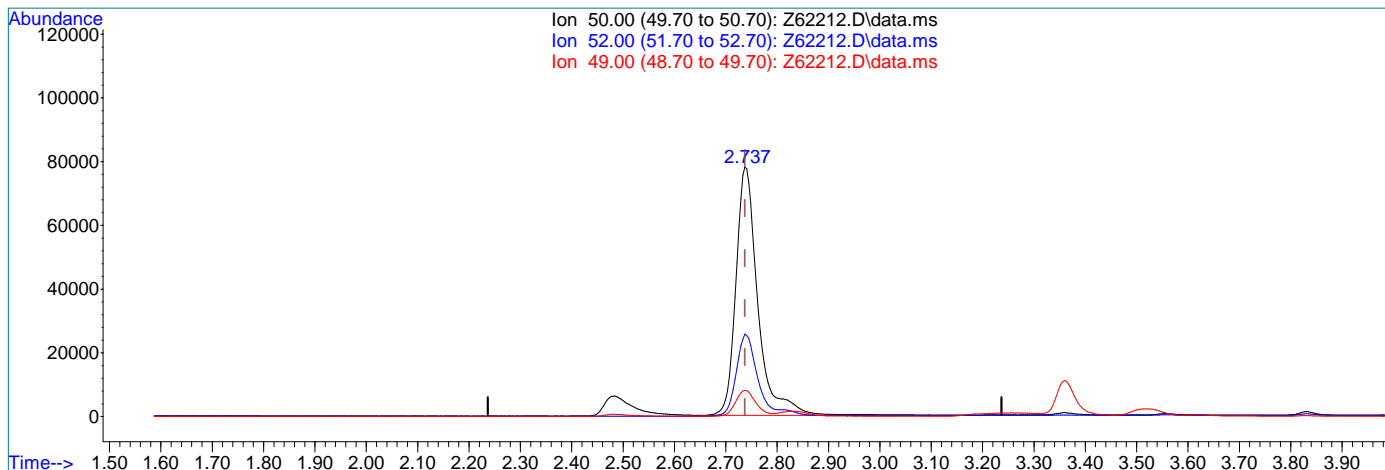
7.6.18.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 20:45:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.737min (-0.000) 10.40ppb

response 2319513

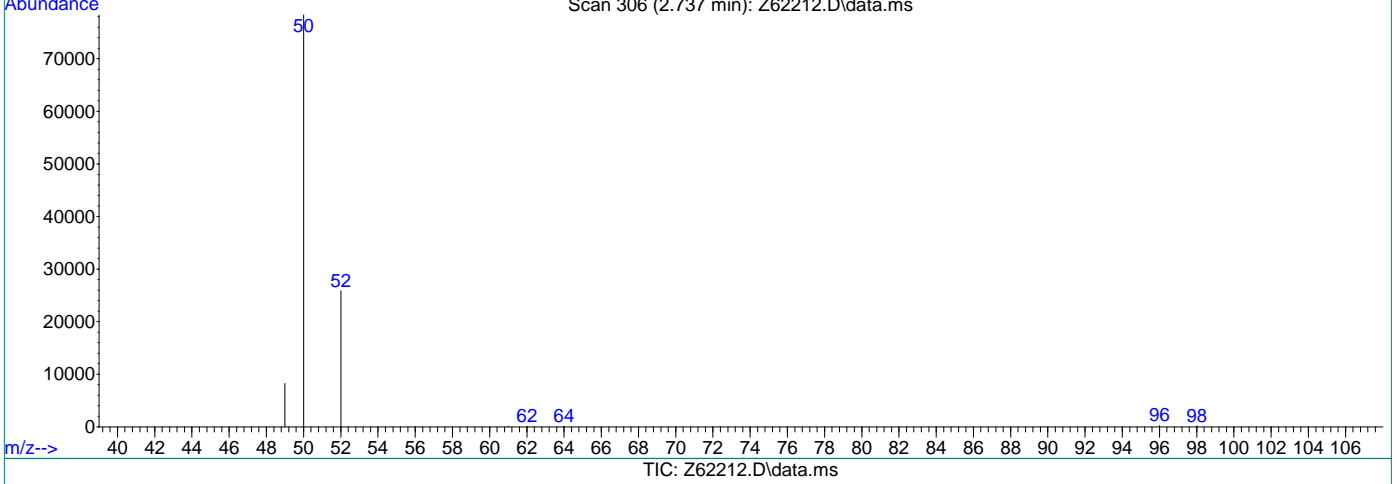
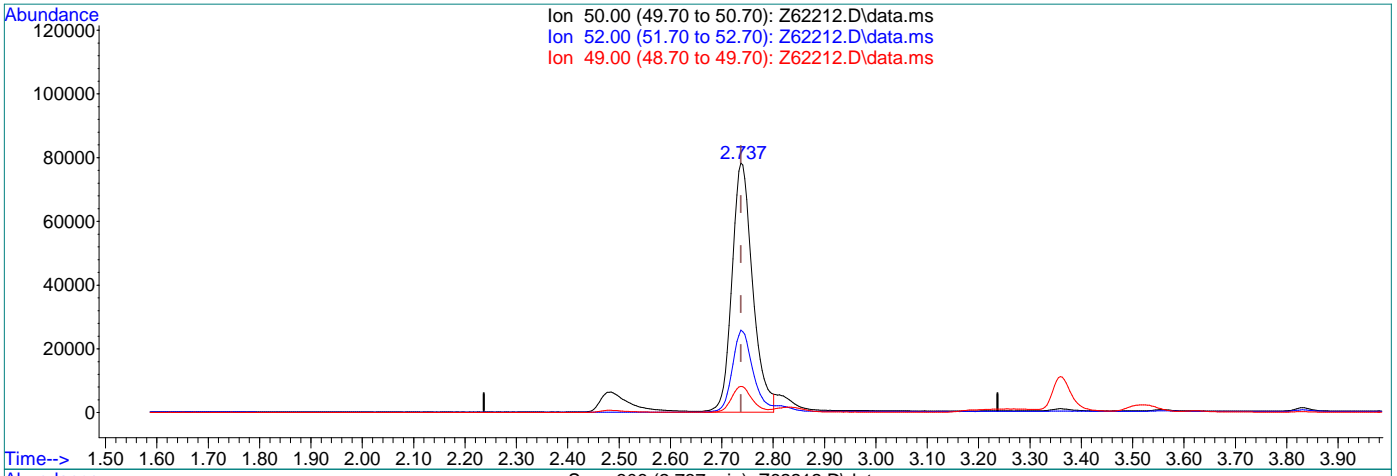
Ion	Exp%	Act%
50.00	100	100
52.00	32.60	33.01
49.00	10.80	10.46
0.00	0.00	0.00

7.6.18.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 20:45:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane  
 2.737min (-0.000) 9.84ppb m  
 response 2193747

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	33.03
49.00	10.80	10.53
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 13:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1917621	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.583	117	1788256	5.00	ppb	# 0.07	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	594422	4.14	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	82.80%		
19) Toluene-d8	8.961	98	1887402	4.37	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	87.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.850	62	3290825	15.73	ppb		100
3) Chloromethane	2.741	50	3221181m	14.53	ppb		
4) 1,1-Dichloroethene	4.083	96	2349554	18.97	ppb	#	85
5) Methylene Chloride	4.713	84	3082122	17.24	ppb	#	85
6) trans-1,2-Dichloroethene	4.886	96	2926695	18.93	ppb	#	87
7) 1,1-Dichloroethane	5.542	63	4937816	16.63	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	3175295	19.23	ppb		94
9) Chloroform	6.371	83	5799532	17.70	ppb		99
10) Carbon Tetrachloride	6.543	117	4140429	20.43	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	5188910	18.91	ppb		100
12) Benzene	6.994	78	10899346	18.97	ppb		93
14) 1,2-Dichloroethane	7.198	62	4096394	17.29	ppb		100
15) Trichloroethene	7.564	95	3527962	19.57	ppb		93
16) 1,2-Dichloropropane	8.105	63	2768908	18.07	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	3527102	18.66	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2974601m	15.72	ppb		
21) Tetrachloroethene	9.399	166	3343761	15.75	ppb		99
-----							

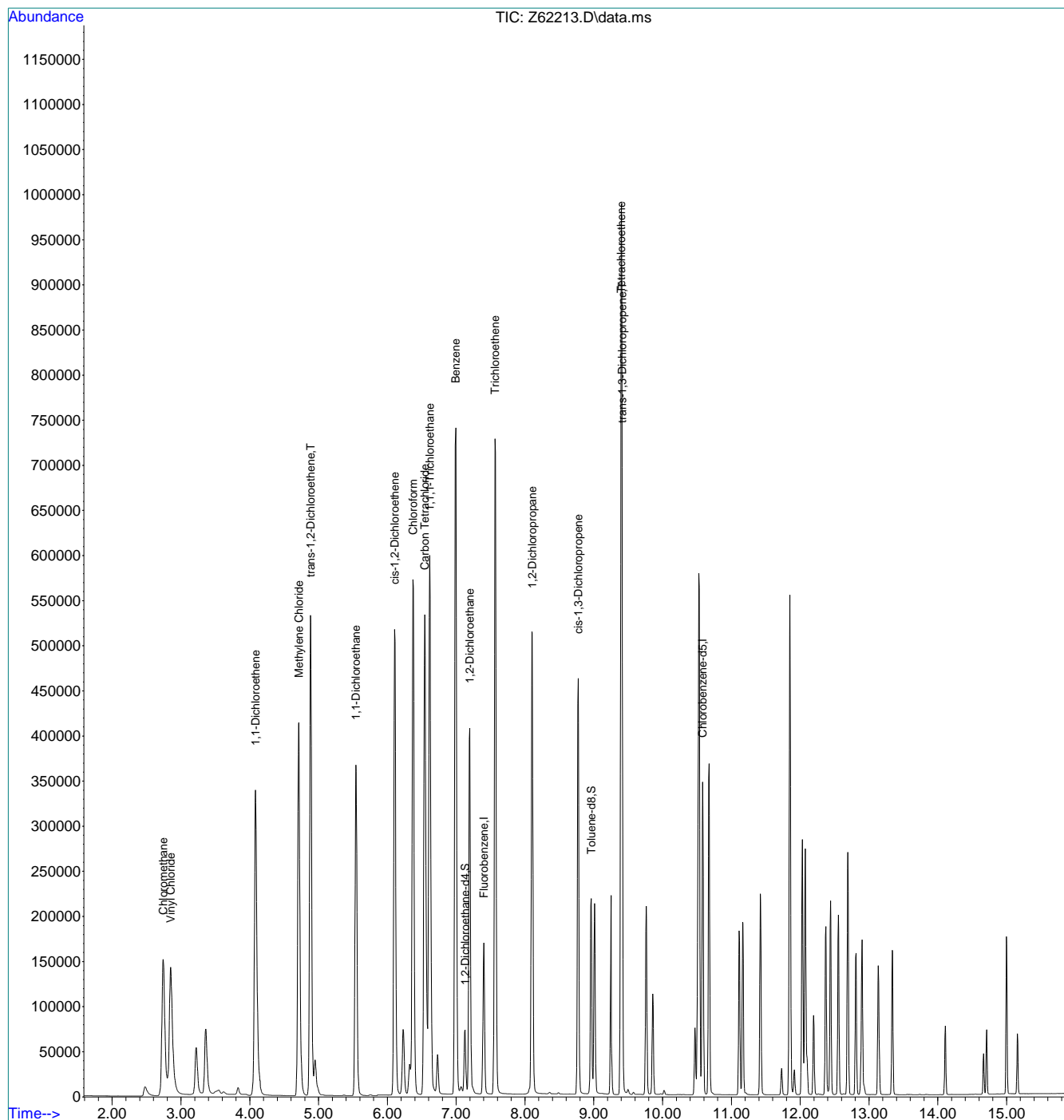
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.19  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 13:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.19  
7



# Manual Integration Approval Summary

**Sample Number:** VZ2414-IC2414      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62213.D      **Analyst approved:** 09/13/20 13:47 Stuti Patel  
**Injection Time:** 09/11/20 20:13      **Supervisor approved:** 09/14/20 11:09 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.74	Overlapping peak
trans-1,3-Dichloropropene	10061-02-6		9.41	Missed peak

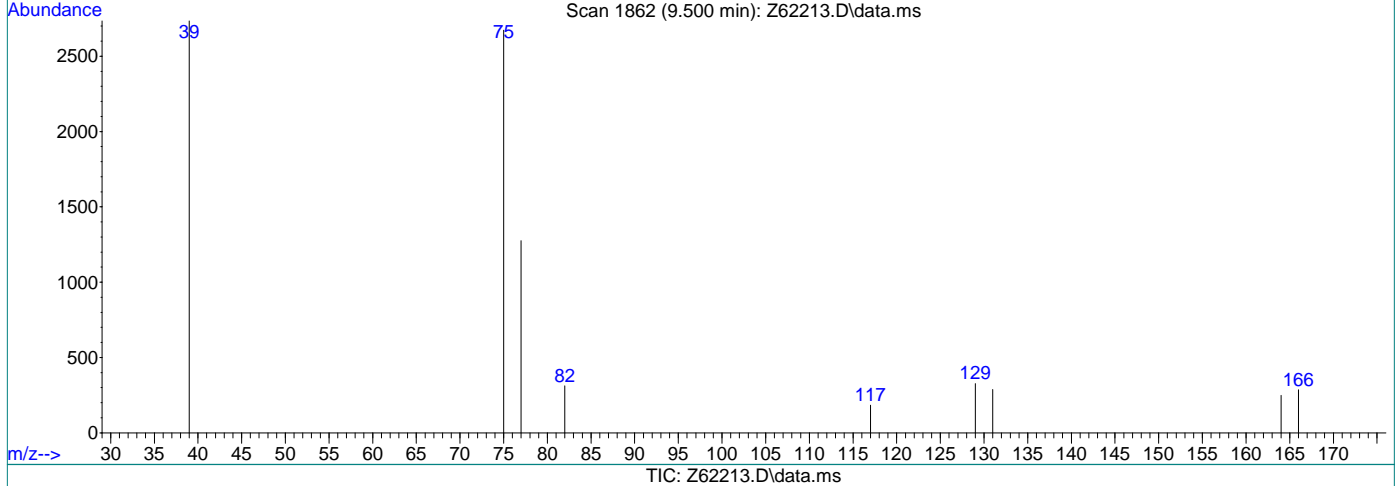
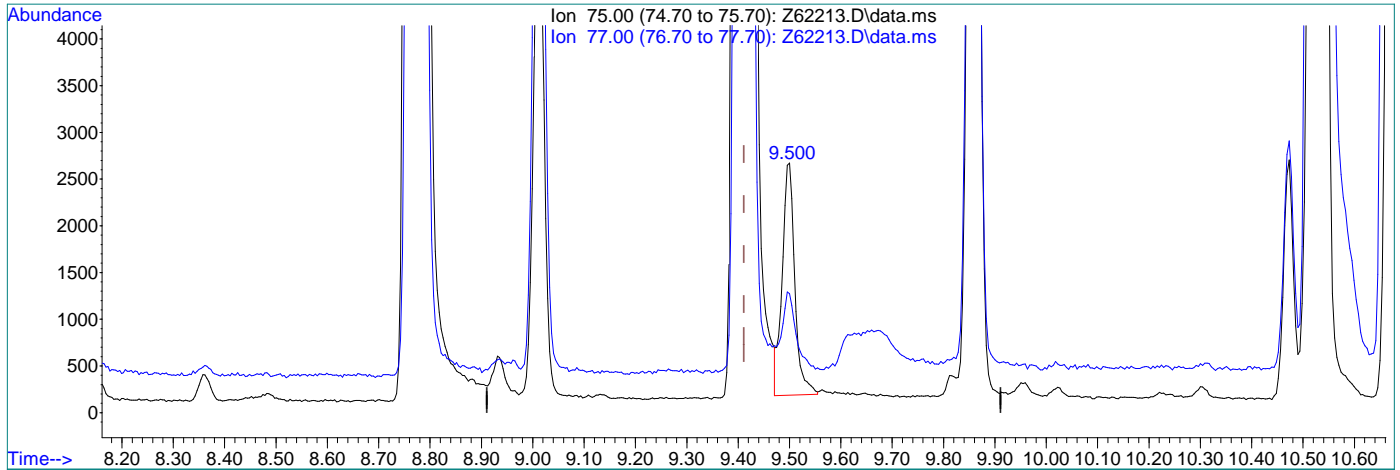
7.6.19.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:45:34 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.500min (+0.089) 0.30ppb

response 42280

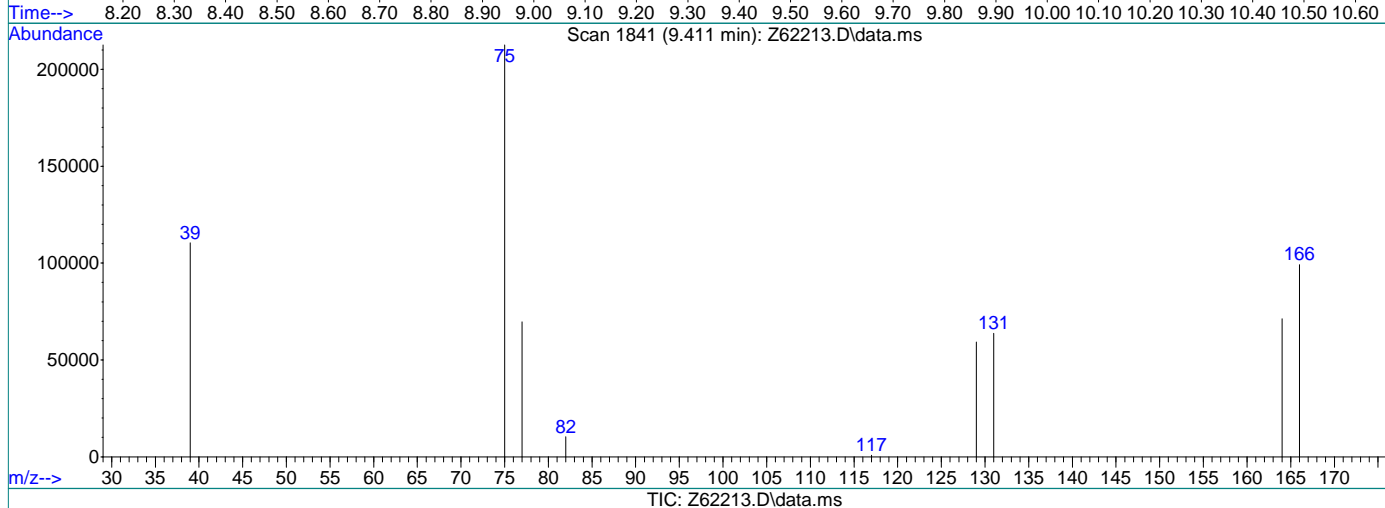
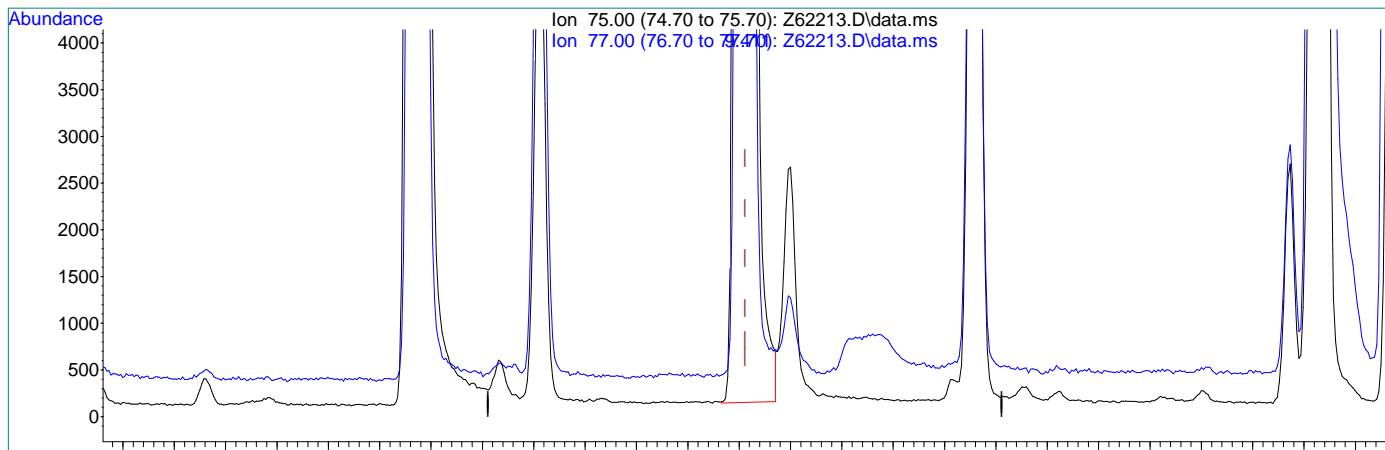
Ion	Exp%	Act%
75.00	100	100
77.00	31.50	32.52
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:45:34 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.411min (+0.000) 15.72ppb m

response 2974601

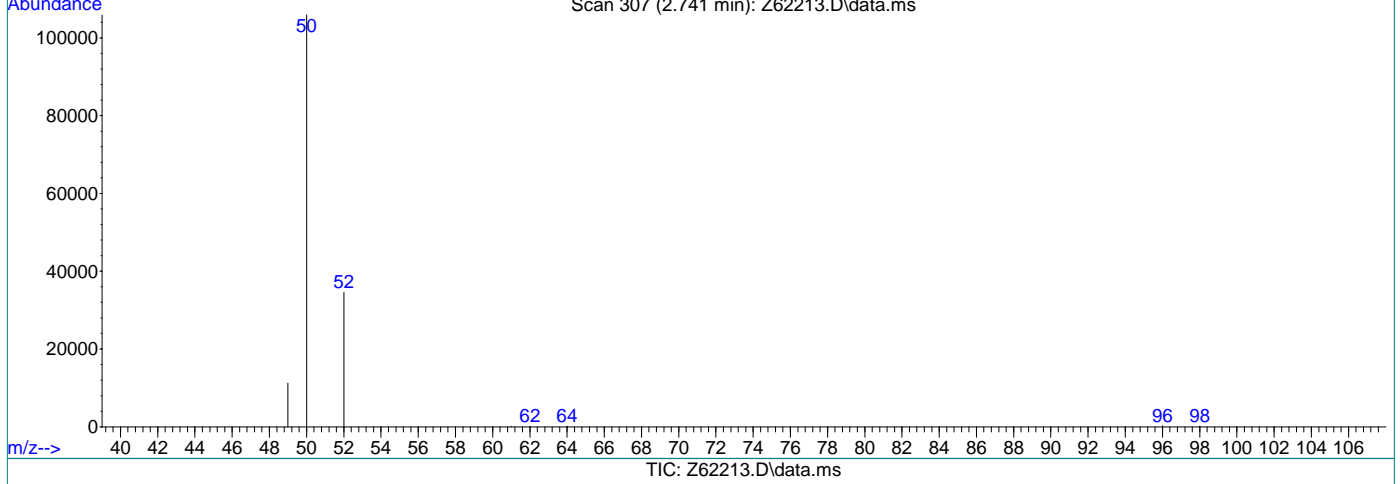
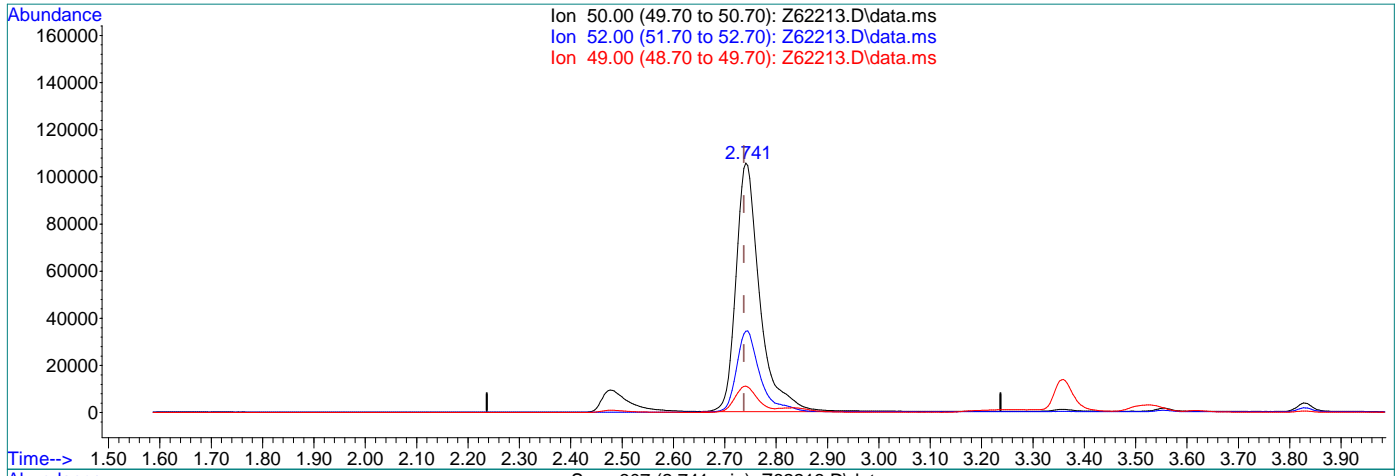
Ion	Exp%	Act%
75.00	100	100
77.00	31.50	32.77
0.00	0.00	0.00
0.00	0.00	0.00

7.6.19.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:49:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.741min (+0.004) 15.35ppb

response 3403148

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	32.61
49.00	10.80	10.56
0.00	0.00	0.00

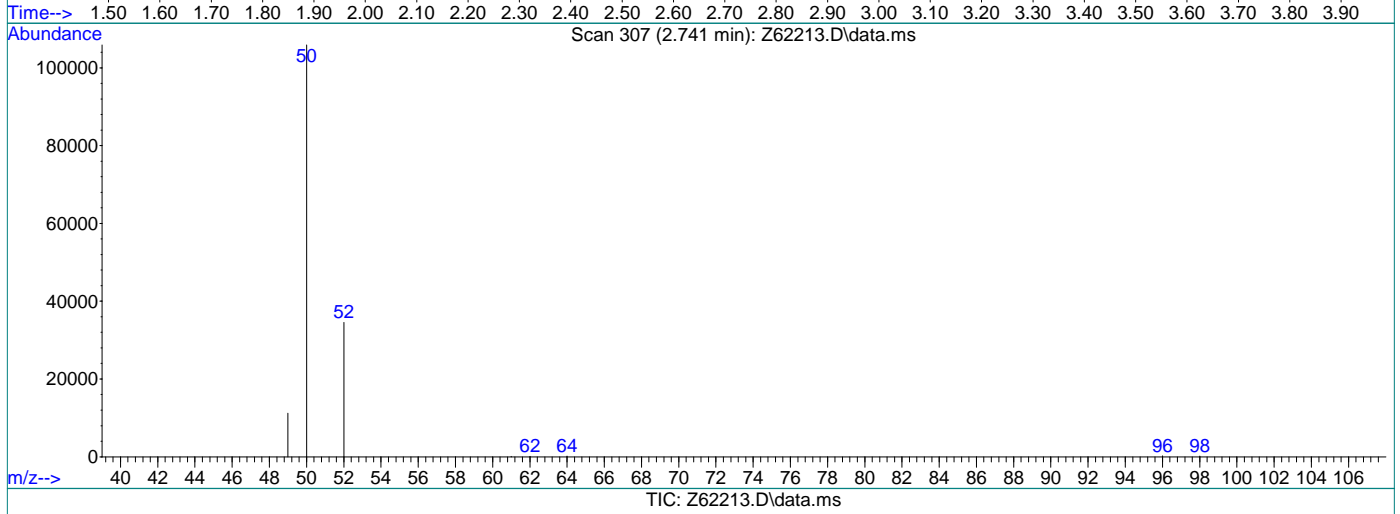
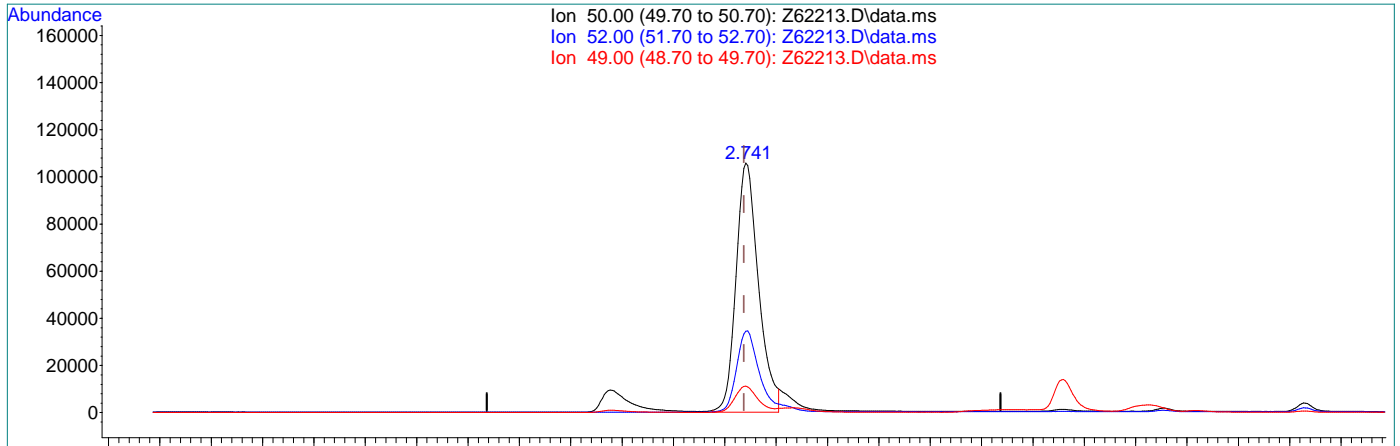
7.6.19.4

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:49:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.741min (+0.004) 14.53ppb m

response 3221181

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	32.60
49.00	10.80	10.61
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62215.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : SHANICAO  
 Sample : ICV2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 13:41:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.402	96	1913422	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.512	117	1533777	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.131	65	601973	5.09	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.80%	
19) Toluene-d8	8.962	98	1888455	5.07	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1616654	10.13	ppb		99
3) Chloromethane	2.733	50	1398748	9.96	ppb		100
4) 1,1-Dichloroethene	4.083	96	1273981	10.99	ppb	#	85
5) Methylene Chloride	4.713	84	1568776	9.19	ppb	#	87
6) trans-1,2-Dichloroethene	4.886	96	1451630	10.28	ppb		91
7) 1,1-Dichloroethane	5.546	63	2482127	10.36	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1578267	10.06	ppb		91
9) Chloroform	6.377	83	2861428	9.95	ppb		99
10) Carbon Tetrachloride	6.543	117	2066805	10.59	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2614500	10.38	ppb		100
12) Benzene	6.995	78	5609186	10.53	ppb		94
14) 1,2-Dichloroethane	7.199	62	2071875	10.32	ppb		100
15) Trichloroethene	7.565	95	1708163	10.45	ppb		95
16) 1,2-Dichloropropane	8.106	63	1410167	10.40	ppb		94
17) cis-1,3-Dichloropropene	8.774	75	1756808	10.89	ppb		98
20) trans-1,3-Dichloropropene	9.412	75	1511145	11.39	ppb		98
21) Tetrachloroethene	9.400	166	1702489	10.36	ppb		99
-----							

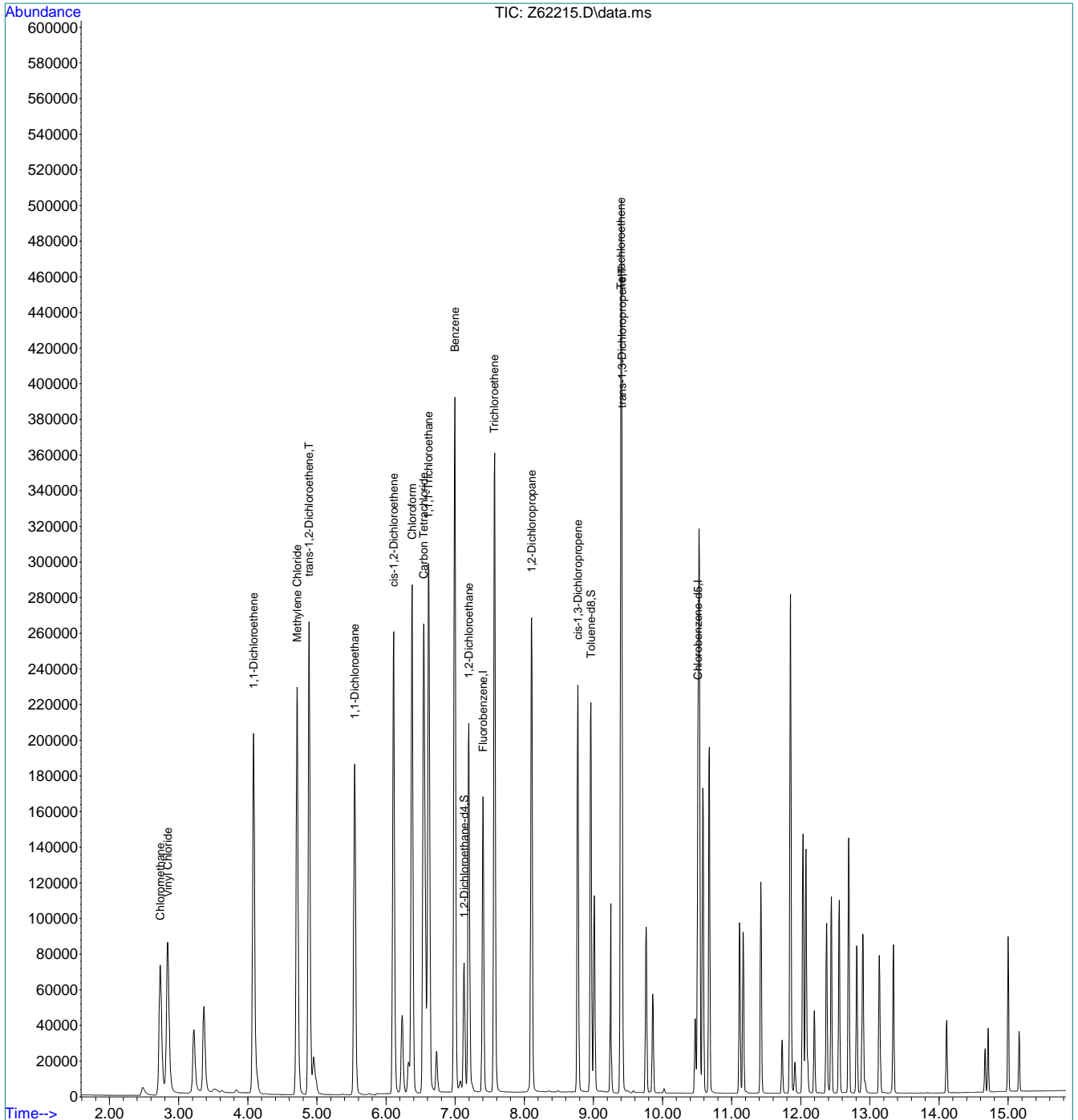
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.20  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62215.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : SHANICAO  
 Sample : ICV2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 13:41:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.20  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62259.d  
 Acq On : 12 Sep 2020 5:42 pm  
 Operator : stutip  
 Sample : cc2414-5  
 Misc : MS47183,VZ2416,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 06:49:17 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.402	96	2101231	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.512	117	1698422	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.124	65	666401	5.13	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.60%	
19) Toluene-d8	8.959	98	2066546	5.01	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	2067407	11.79	ppb		99
3) Chloromethane	2.730	50	1794654	11.42	ppb		100
4) 1,1-Dichloroethene	4.083	96	1330077	10.45	ppb	#	88
5) Methylene Chloride	4.713	84	1771743	9.48	ppb	#	87
6) trans-1,2-Dichloroethene	4.886	96	1664039	10.73	ppb		90
7) 1,1-Dichloroethane	5.543	63	2823734	10.73	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	1754753	10.18	ppb		95
9) Chloroform	6.371	83	3233998	10.24	ppb		99
10) Carbon Tetrachloride	6.543	117	2247126	10.48	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2959594	10.70	ppb		100
12) Benzene	6.988	78	6131528	10.48	ppb		99
14) 1,2-Dichloroethane	7.192	62	2252913	10.22	ppb		100
15) Trichloroethene	7.565	95	1858216	10.35	ppb		91
16) 1,2-Dichloropropane	8.102	63	1513855	10.17	ppb		96
17) cis-1,3-Dichloropropene	8.774	75	1903838	10.76	ppb		99
20) trans-1,3-Dichloropropene	9.409	75	1619763	11.04	ppb		100
21) Tetrachloroethene	9.400	166	1893992	10.41	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

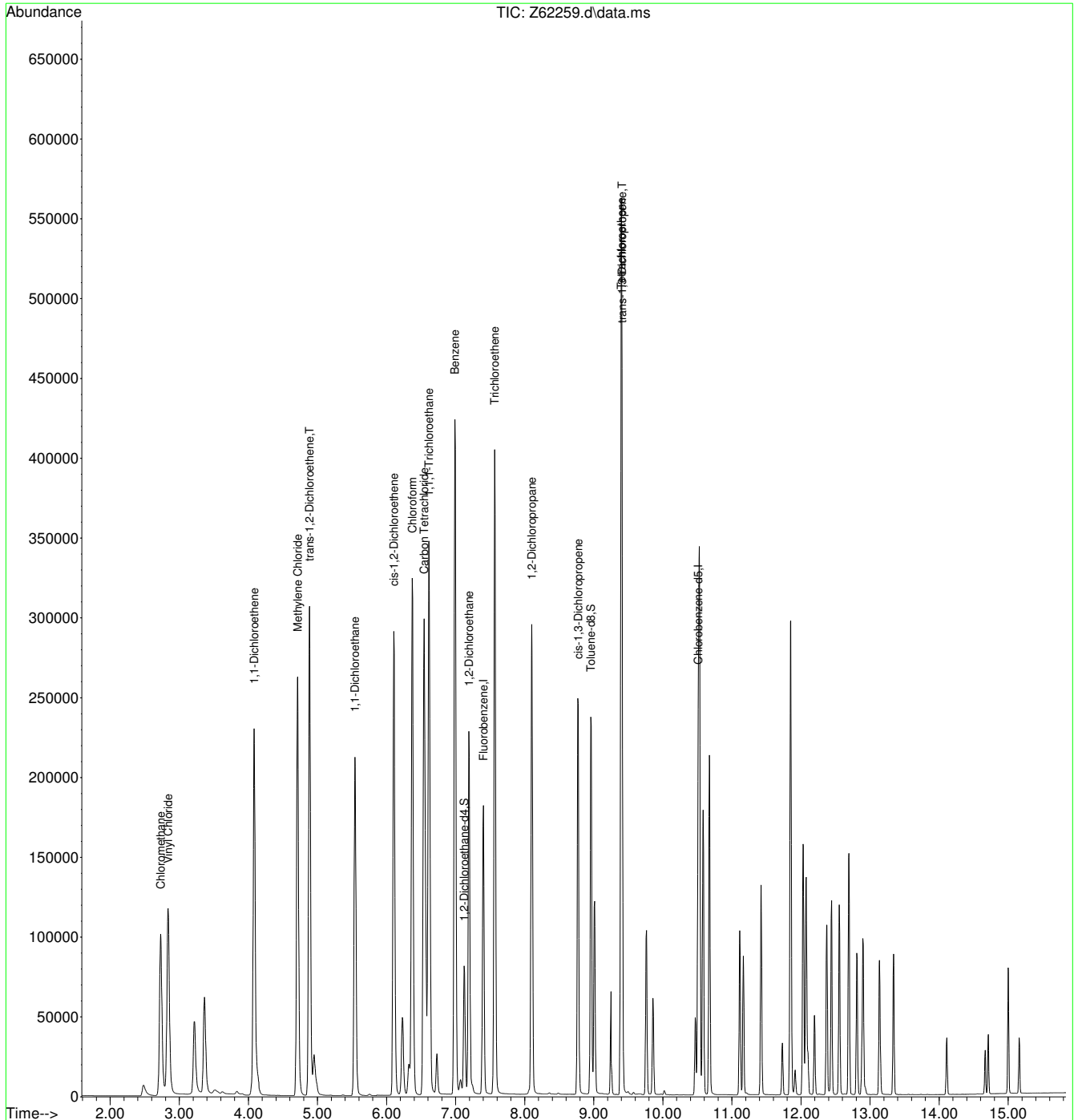
7.6.21  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62259.d  
 Acq On : 12 Sep 2020 5:42 pm  
 Operator : stutip  
 Sample : cc2414-5  
 Misc : MS47183,VZ2416,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 06:49:17 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.21  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62285.d  
 Acq On : 13 Sep 2020 2:06 am  
 Operator : stutip  
 Sample : ecc2414-5  
 Misc : MS47199,VZ2416,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 06:50:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1643661	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1345796	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	550899	5.42	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	108.40%	
19) Toluene-d8	8.961	98	1585658	4.85	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	1256148	9.17	ppb		100
3) Chloromethane	2.730	50	1093442	9.16	ppb		100
4) 1,1-Dichloroethene	4.087	96	806290	8.10	ppb	#	88
5) Methylene Chloride	4.713	84	1186584	7.97	ppb		90
6) trans-1,2-Dichloroethene	4.887	96	1012718	8.35	ppb		93
7) 1,1-Dichloroethane	5.546	63	1816087	8.82	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	1108324	8.22	ppb		93
9) Chloroform	6.377	83	2119943	8.58	ppb		100
10) Carbon Tetrachloride	6.543	117	1263294	7.53	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1793374	8.29	ppb		99
12) Benzene	6.994	78	3909241	8.54	ppb		97
14) 1,2-Dichloroethane	7.198	62	1535777	8.91	ppb		100
15) Trichloroethene	7.571	95	1204889	8.58	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	991381	8.51	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	791233	6.11	ppb		99
20) trans-1,3-Dichloropropene	9.412	75	657049	5.78	ppb		98
21) Tetrachloroethene	9.399	166	1146591	7.72	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.22  
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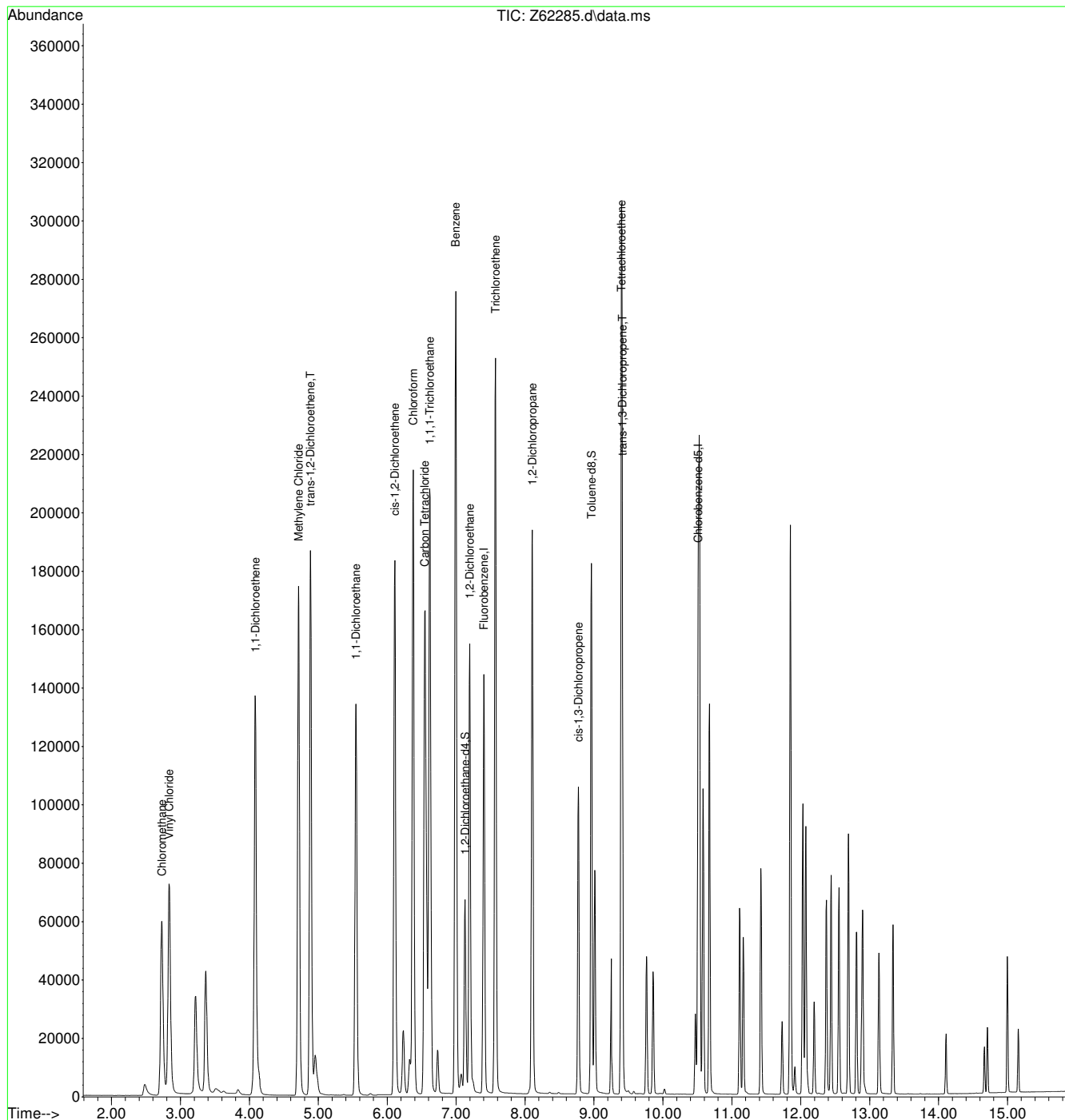




Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2416\  
 Data File : Z62285.d  
 Acq On : 13 Sep 2020 2:06 am  
 Operator : stutip  
 Sample : ecc2414-5  
 Misc : MS47199,VZ2416,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 06:50:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.22  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62322.D  
 Acq On : 14 Sep 2020 12:22 pm  
 Operator : JuanG  
 Sample : CC2414-5  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 18:50:18 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.402	96	1993481	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.512	117	1656572	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.124	65	669922	5.43	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	108.60%		
19) Toluene-d8	8.959	98	1947818	4.84	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	96.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	2105885	12.65	ppb		100
3) Chloromethane	2.733	50	1974560	12.99	ppb		100
4) 1,1-Dichloroethene	4.083	96	1273632	10.54	ppb	#	87
5) Methylene Chloride	4.709	84	1825191	10.42	ppb		90
6) trans-1,2-Dichloroethene	4.883	96	1616036	10.99	ppb		93
7) 1,1-Dichloroethane	5.543	63	2809593	11.26	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	1689110	10.33	ppb		94
9) Chloroform	6.371	83	3228525	10.77	ppb		99
10) Carbon Tetrachloride	6.543	117	2107524	10.36	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2824560	10.76	ppb		100
12) Benzene	6.988	78	6008784	10.83	ppb		97
14) 1,2-Dichloroethane	7.192	62	2242244	10.72	ppb		100
15) Trichloroethene	7.565	95	1752087	10.29	ppb		88
16) 1,2-Dichloropropane	8.102	63	1460518	10.34	ppb		97
17) cis-1,3-Dichloropropene	8.770	75	1799497	10.73	ppb		99
20) trans-1,3-Dichloropropene	9.409	75	1559226	10.91	ppb		99
21) Tetrachloroethene	9.396	166	1769776	9.92	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

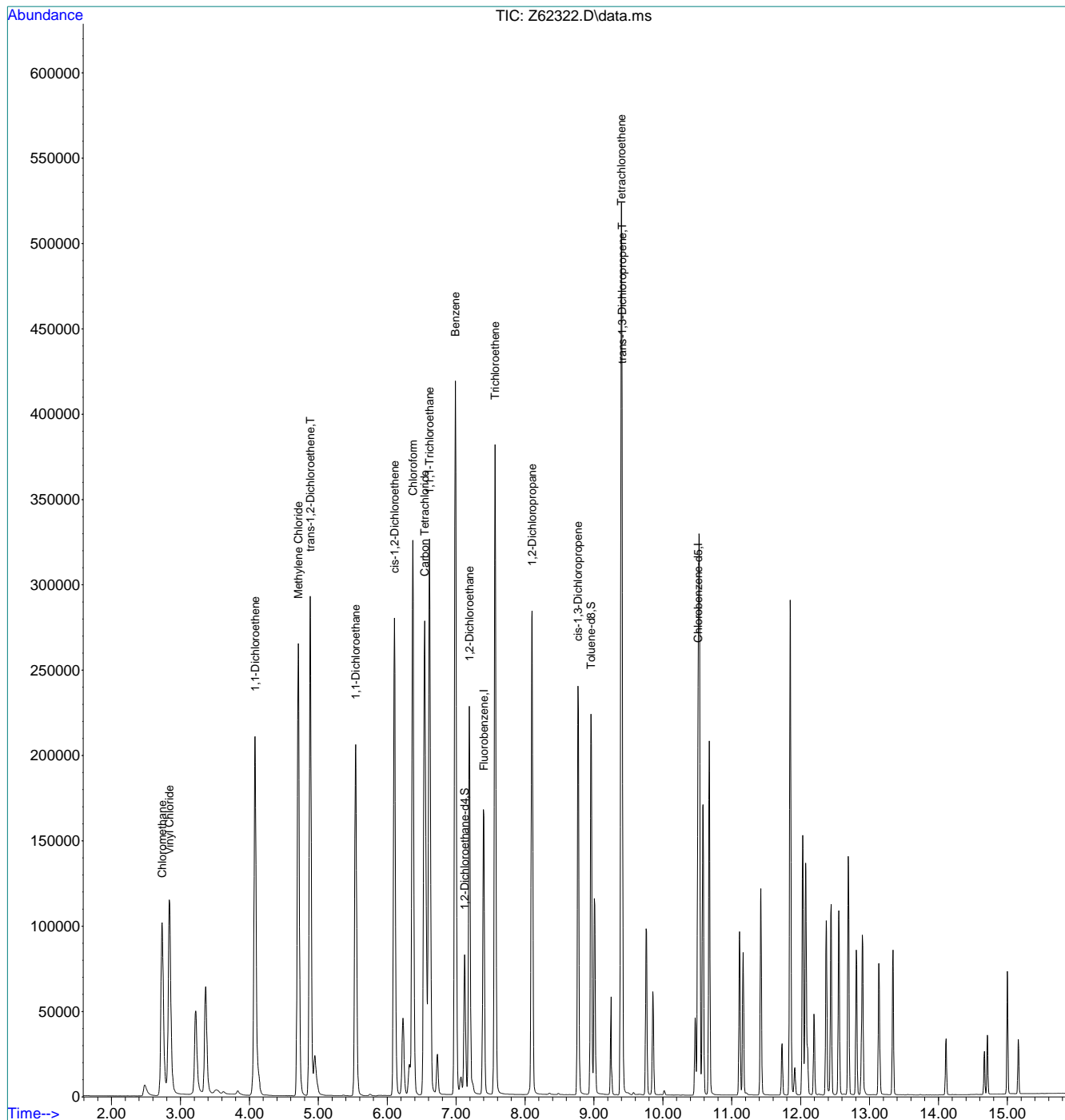
7.6.23  
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62322.D  
 Acq On : 14 Sep 2020 12:22 pm  
 Operator : JuanG  
 Sample : CC2414-5  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 15 18:50:18 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.23  
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62350.D  
 Acq On : 14 Sep 2020 10:45 pm  
 Operator : JuanG  
 Sample : ECC2414-5  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 15 18:51:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1446126	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1266288	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	507971	5.68	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	113.60%		
19) Toluene-d8	8.961	98	1382085	4.49	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	89.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	1591291	13.17	ppb		100
3) Chloromethane	2.726	50	1313920	12.06	ppb		100
4) 1,1-Dichloroethene	4.083	96	962000	10.98	ppb		89
5) Methylene Chloride	4.713	84	1395244	11.07	ppb		90
6) trans-1,2-Dichloroethene	4.886	96	1169228	10.96	ppb		92
7) 1,1-Dichloroethane	5.546	63	2112643	11.67	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	1227954	10.35	ppb		93
9) Chloroform	6.377	83	2469996	11.36	ppb		100
10) Carbon Tetrachloride	6.543	117	1467048	9.94	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2071952	10.88	ppb		99
12) Benzene	6.994	78	4526705	11.25	ppb		96
14) 1,2-Dichloroethane	7.198	62	1694881	11.17	ppb		100
15) Trichloroethene	7.571	95	1381533	11.19	ppb	#	83
16) 1,2-Dichloropropane	8.105	63	1115314	10.89	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	848630	7.32	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	737530	6.86	ppb		99
21) Tetrachloroethene	9.399	166	1335838	9.78	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

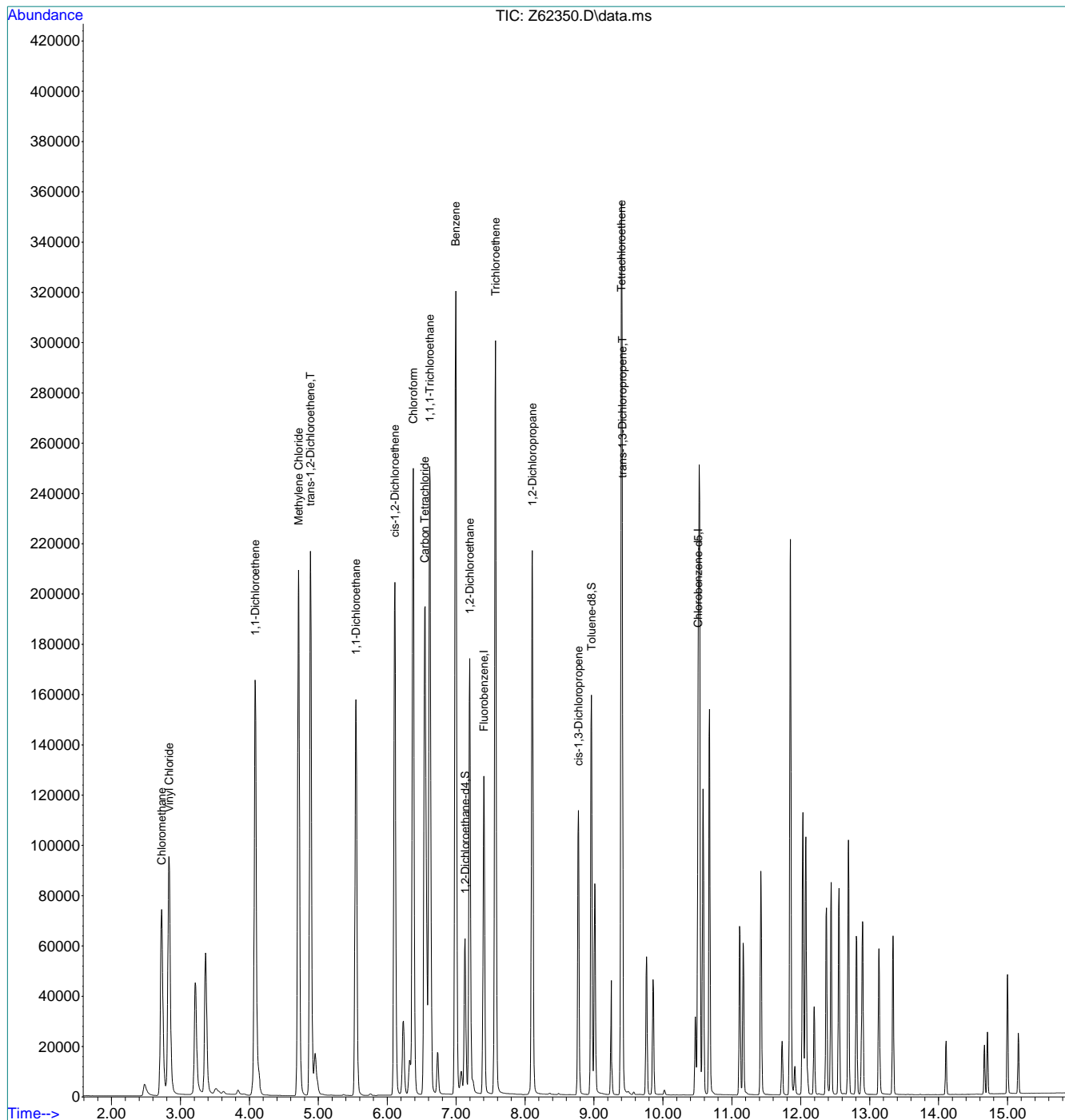
7.6.24  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091420\  
 Data File : Z62350.D  
 Acq On : 14 Sep 2020 10:45 pm  
 Operator : JuanG  
 Sample : ECC2414-5  
 Misc : MS47199,VZ2418,,,,,  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 15 18:51:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.24  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62354.D  
 Acq On : 15 Sep 2020 1:58 pm  
 Operator : JuanG  
 Sample : CC2414-5  
 Misc : MS47199,VZ2419,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 10:46:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2207739	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1887969	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	760674	5.57	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	111.40%	
19) Toluene-d8	8.958	98	2158639	4.71	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	2538747	13.76	ppb		100
3) Chloromethane	2.730	50	2178313	12.95	ppb		100
4) 1,1-Dichloroethene	4.083	96	1527293	11.42	ppb	#	88
5) Methylene Chloride	4.709	84	2140045	11.14	ppb		90
6) trans-1,2-Dichloroethene	4.883	96	1880686	11.54	ppb		93
7) 1,1-Dichloroethane	5.543	63	3288723	11.90	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	1933104	10.67	ppb		94
9) Chloroform	6.371	83	3801839	11.46	ppb		100
10) Carbon Tetrachloride	6.543	117	2502204	11.11	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	3311282	11.39	ppb		99
12) Benzene	6.987	78	7019649	11.42	ppb		98
14) 1,2-Dichloroethane	7.191	62	2598866	11.22	ppb		100
15) Trichloroethene	7.564	95	2036070	10.80	ppb		91
16) 1,2-Dichloropropane	8.101	63	1702481	10.89	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	2044430	10.97	ppb		98
20) trans-1,3-Dichloropropene	9.407	75	1794411	11.01	ppb		100
21) Tetrachloroethene	9.399	166	2070705	10.22	ppb		99
-----							

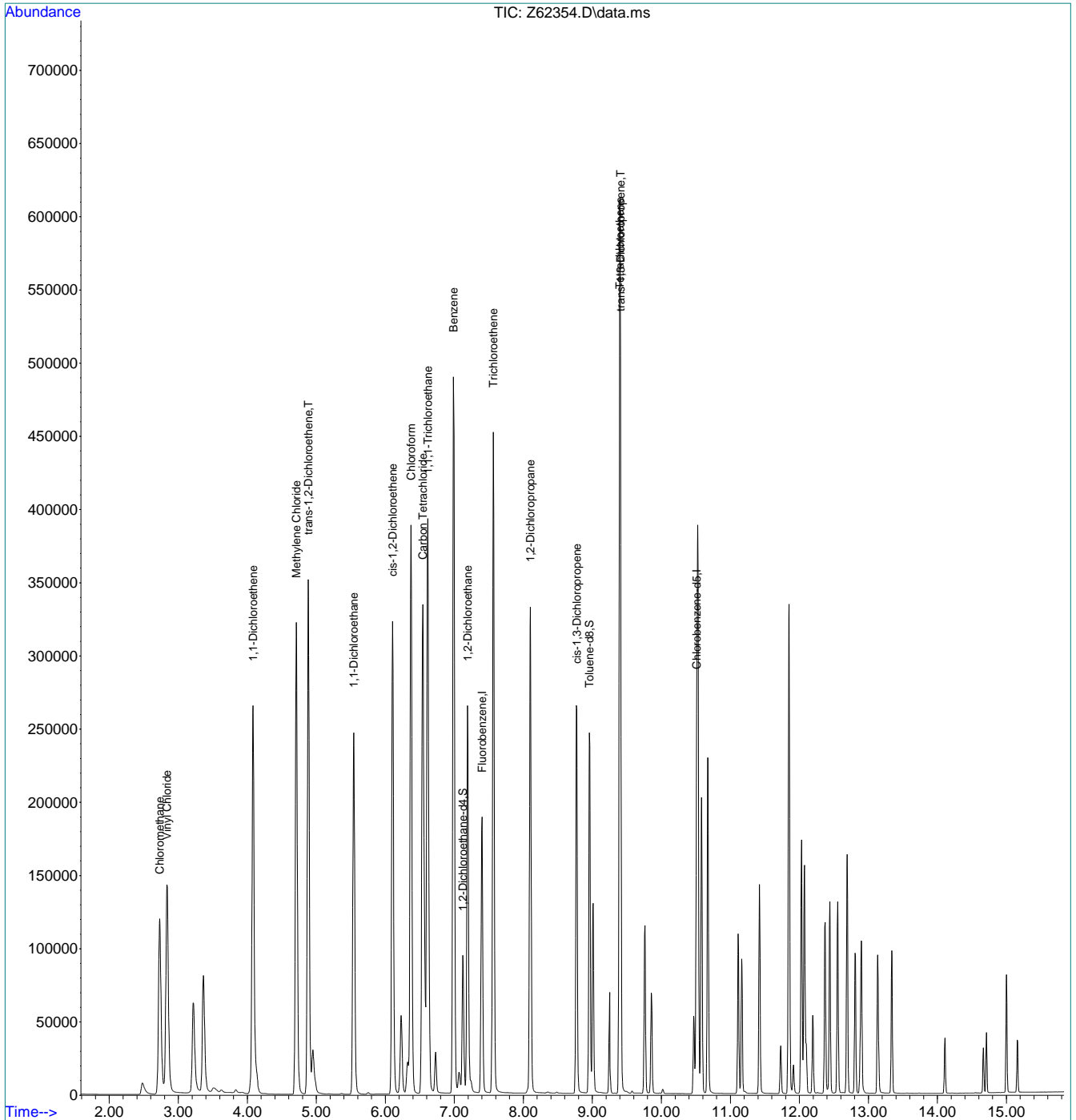
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.25  
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62354.D  
 Acq On : 15 Sep 2020 1:58 pm  
 Operator : JuanG  
 Sample : CC2414-5  
 Misc : MS47199,VZ2419,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 10:46:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62384.D  
 Acq On : 15 Sep 2020 11:23 pm  
 Operator : JuanG  
 Sample : ecc2414-5  
 Misc : MS47193,VZ2419,,,,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 16 10:47:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1683040	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1525848	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	612442	5.88	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	117.60%	
19) Toluene-d8	8.961	98	1594253	4.30	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	1940447	13.80	ppb		100
3) Chloromethane	2.726	50	1605877	12.58	ppb		100
4) 1,1-Dichloroethene	4.083	96	1091067	10.70	ppb	#	87
5) Methylene Chloride	4.713	84	1610246	10.97	ppb	#	88
6) trans-1,2-Dichloroethene	4.886	96	1343033	10.81	ppb		89
7) 1,1-Dichloroethane	5.543	63	2458079	11.66	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	1396155	10.11	ppb		95
9) Chloroform	6.371	83	2890420	11.43	ppb		100
10) Carbon Tetrachloride	6.543	117	1667181	9.71	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2366148	10.68	ppb		99
12) Benzene	6.994	78	5225981	11.16	ppb		94
14) 1,2-Dichloroethane	7.198	62	1976190	11.19	ppb		100
15) Trichloroethene	7.564	95	1620297	11.27	ppb		94
16) 1,2-Dichloropropane	8.101	63	1289987	10.82	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	919293	6.85	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	760585	5.90	ppb		99
21) Tetrachloroethene	9.399	166	1503813	9.06	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

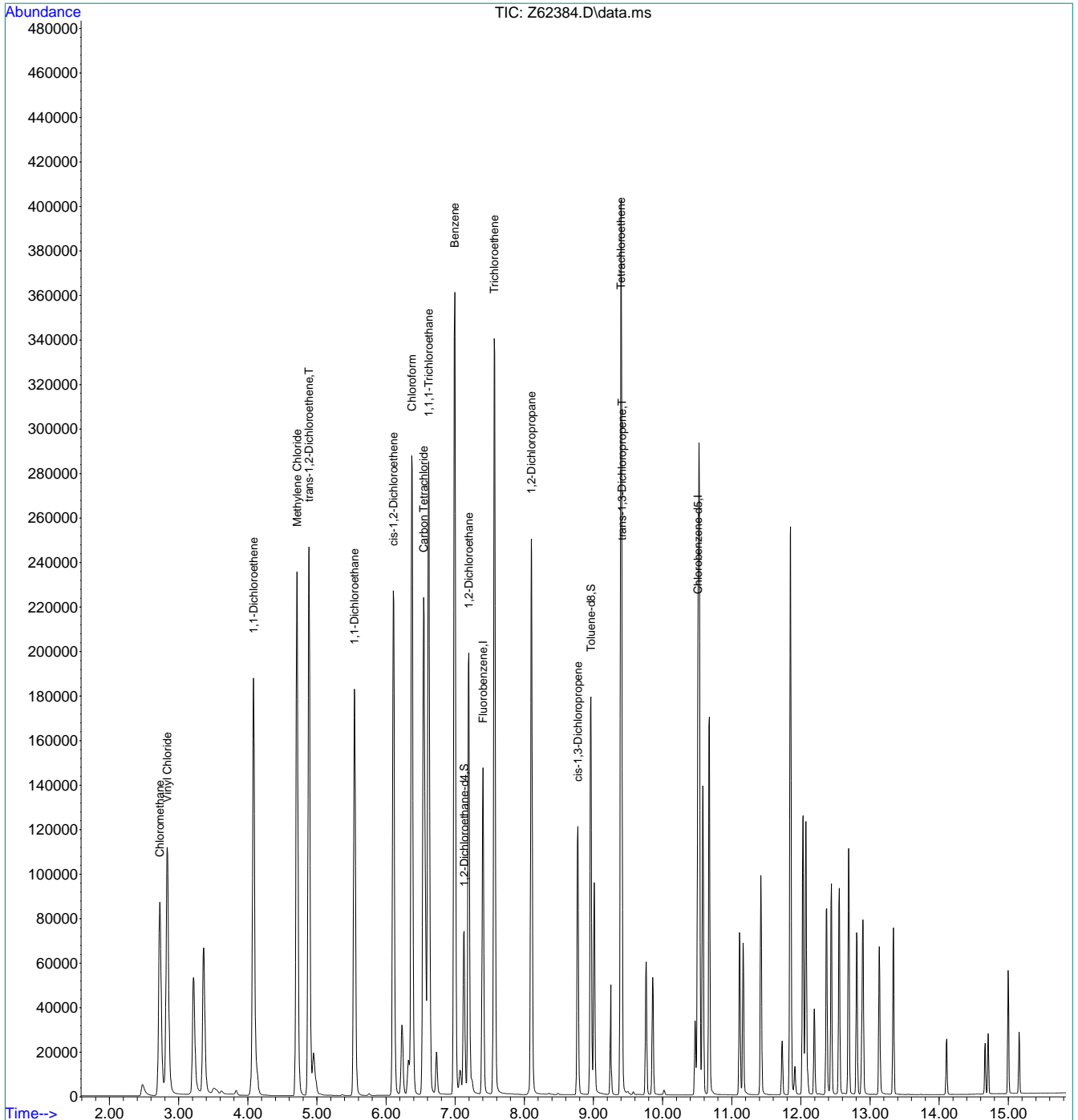
7.6.26  
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091520\  
 Data File : Z62384.D  
 Acq On : 15 Sep 2020 11:23 pm  
 Operator : JuanG  
 Sample : ecc2414-5  
 Misc : MS47193,VZ2419,,,,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 16 10:47:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



Date: 9/11/2020  
 COLUMN TYPE: RTX VMS  
 DETECTOR: 5975 MSD  
 INSTRUMENT: MSVOA12-O  
 PURGE PRESSURE: 8.4PSI  
 PURGE VOLUME: 5 mL  
 ANALYST: AKARI(Gstutip)

METHODS\*: SIMCLm  
 METHOD FILE: SIMCL091120.M  
 CALIB. DATE: 9/11/2020  
 EM VOLTAGE: 1424v  
 BFB RESPONSE: 6052279  
 RUN ID: VO2356

BFB: V25942b  
 ICAL/JC: V25806, VS0804  
 ISTD/SUR: VS0799  
 ICV/QC: VS0805 VS0802  
 data reviewed by: stutip

PH LOT1-12 :230814  
 ph lot 0.0-3.0 : 220416a  
 KI PAPER LOT:030317  
 SAMPLE ID VERIFIED BY:  
 stutip  
 DATE VERIFIED: 09/14/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
O61211	BLANK	-	-	w	1	ACQ_SIMCL		-	?		
O61212	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61213	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61214	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61215	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61216	COND. STD.	-	-	w	2	ACQ_SIMCL		-	-		
O61217	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61218	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61219	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, returned
O61220	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61221	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61222	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61223	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61224	BFB	-	-	w	100	BFB		-	-		autofind 2ul passed
O61225	CC2352-5	-	-	w	2	ACQ_SIMCL		-	-		50ul -> 50ml passed
O61226	BS	-	-	w	3	ACQ_SIMCL		-	-		20ul -> vial passed
O61227	BFB	-	-	w	100	BFB		-	-		pass autofind 2ul
O61228	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61229	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61230	IC2356-1	-	-	w	2	ACQ_SIMCL	pii-3,12,16,21,30	-	-		1ul -> 100ml
O61231	IC2356-2	-	-	w	3	ACQ_SIMCL	pii-12	-	-		5ul -> 100ml
O61232	IC2356-3	-	-	w	4	ACQ_SIMCL	pii-12	-	-		10ul -> 50ml
O61233	IC2356-4	-	-	w	5	ACQ_SIMCL	pii-12	-	-		25ul -> 50ml
O61234	ICe2356-5	-	-	w	6	ACQ_SIMCL	pii-12	-	-		50ul -> 50ml
O61235	IC2356-6	-	-	w	7	ACQ_SIMCL	pii-12	-	-		75ul -> 50ml
O61236	IC2356-7	-	-	w	8	ACQ_SIMCL	pii-12	-	-		100ul -> 50ml
O61237	BLANK	-	-	w	9	ACQ_SIMCL		-	-		
O61238	iev2356-5	-	-	w	10	ACQ_SIMCL	pii-12	-	-		50ul-50ml

\* For NELAC purposes, Method 8280 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS - C. LANDO

MSV0A12-O ANALYSIS LOG

Date:	9/12/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSV0A12-O
PURGE PRESSURE:	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	stulp

METHODS:*	SIMCLM
METHOD FILE:	SIMCL091120.M
CALIB. DATE:	9/11/2020
EM VOLTAGE:	1424v
BFB RESPONSE	5316499
RUN ID:	VO2359

BFB:	V25942b
ICAL/CC:	V25806_VS0804
ISTD/SUR:	VS0799
ICV/QC:	VS0805_VS0802
data reviewed by: Jennifer F	

PH LOT1-12.230814
ph lot 0.0-3.0 : 220416a
KI PAPER LOT:030317
SAMPLE ID VERIFIED BY:
stulp
DATE VERIFIED: 09/14/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK #	PH	CL	RR	COMMENTS
061291	bik	-	-	w	1	ACQ_SIMCL		-	-		
061292	bfb	-	-	w	2	bfb		-	-		autofind 2ul failed
061293	bfb	-	-	w	3	bfb		-	-		autofind 2ul passed✓
061294	cc2356-5	-	-	w	4	ACQ_SIMCL	#12(P11)	-	-		50ul-50ml ✓
061295	bs	-	-	w	5	ACQ_SIMCL		-	-		20ul-40ml ✓
061296	mb	-	-	w	6	ACQ_SIMCL		-	-		ND✓
061297	mb	-	-	w	7	ACQ_SIMCL		-	-		ND✓
061298	fa78551-12	1x	1	w	8	ACQ_SIMCL		1	n	1x	
061299	fa78551-13	1x	1	w	9	ACQ_SIMCL		1	n	1x	
061300	fa78551-14	1x	1	w	10	ACQ_SIMCL		1	n	1x	
061301	fa78551-15	1x	1	w	11	ACQ_SIMCL	#6(OP)	1	n	2x	11DCE↑
061302	fa78551-16	1x	1	w	12	ACQ_SIMCL	#6(OP)	1	n	2x	11DCE↑
061303	fa78551-17	1x	1	w	13	ACQ_SIMCL		1	n	1x	11DCE carryover
061304	fa78551-18	1x	1	w	14	ACQ_SIMCL		1	n	1x	
061305	fa78551-19	1x	2	w	15	ACQ_SIMCL		1	n	1x	
061306	fa78551-20	1x	1	w	16	ACQ_SIMCL		1	n	1x	
061307	fa78551-21	1x	1	w	17	ACQ_SIMCL		1	n	1x	
061308	fa78551-22	1x	1	w	18	ACQ_SIMCL		1	n	1x	
061309	fa78551-23	1x	1	w	19	ACQ_SIMCL		1	n	1x	
061310	fa78551-24	1x	1	w	20	ACQ_SIMCL		1	n	1x	
061311	fa78551-25	1x	1	w	21	ACQ_SIMCL		1	n	1x	
061312	fa78551-26	1x	1	w	22	ACQ_SIMCL		1	n	1x	SS Fail
061313	fa78551-27	1x	1	w	23	ACQ_SIMCL		1	n	1x	
061314	fa78565-21	1x	1	w	24	ACQ_SIMCL		1	n	1x	
061315	fa78565-22	1x	1	w	25	ACQ_SIMCL		1	n	1x	
061316	fa78565-23	1x	1	w	26	ACQ_SIMCL		1	n	1x	
061317	fa78565-24	1x	1	w	27	ACQ_SIMCL		1	n	1x	
061318	fa78551-12ms,10	10x	1	w	28	ACQ_SIMCL	5ml-50ml, #12(P11)	1	n		20ul-40m, Surr Failed/RR
061319	fa78551-12msd,10	10x	1	w	29	ACQ_SIMCL	5ml-50ml, #12(P11)	1	n		20ul-40ml ✓
061320	ecc2356-5			w	30	ACQ_SIMCL	#12(P11)				50ul-50ml ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix. Designate "W" for Water, "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
 Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

Date:	9/13/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSV0A12-O
PURGE PRESSURE:	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	stutip

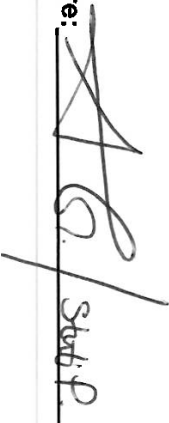
METHODS:*	SIMCLm
METHOD FILE:	SIMCL091120.M
CALIB. DATE:	9/11/2020
EM VOLTAGE:	1424v
BFB RESPONSE	679465
RUN ID:	VO2360

BFB:	V25942b
ICAL/CC:	V25806, VS0804
ISTD/SUR:	VS0799
ICV/QC:	VS0805 VS0802
data reviewed by:	JenniferF

PH LOT1-12 :230814
ph lot 0.0-3.0 : 220416a
KI PAPER LOT:030317
SAMPLE ID VERIFIED BY:
stutip
DATE VERIFIED: 09/14/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
061321	blk	-	-	w	1	ACQ_SIMCL		-	-		
061322	blk	-	-	w	2	ACQ_SIMCL		-	-		
061323	bfb	-	-	w	3	bfb		-	-		
061324	bfb	-	-	w	4	bfb		-	-		autofnd 2ul passed ✓
061325	cc2356-5	-	-	w	5	ACQ_SIMCL	#12(P11)	-	-		50ul-50ml ✓
061326	bs	-	-	w	6	ACQ_SIMCL		-	-		20ul-40ml ✓
061327	mb	-	-	w	7	ACQ_SIMCL		-	-		ND ✓
061328	mb	-	-	w	8	ACQ_SIMCL		1	n		ND ✓
061329	fa78565-25	-	-	w	9	ACQ_SIMCL		1	n	1x	
061330	fa78565-26	-	-	w	10	ACQ_SIMCL		1	n	1x	
061331	fa78565-27	-	-	w	11	ACQ_SIMCL		1	n	1x	SS Fail
061332	fa78549-30	-	-	w	12	ACQ_SIMCL		1	n	1x	
061333	fa78549-31	-	-	w	13	ACQ_SIMCL		1	n	1x	
061334	fa78549-32	-	-	w	14	ACQ_SIMCL		1	n	1x	
061335	fa78549-33	-	-	w	15	ACQ_SIMCL		1	n	1x	
061336	fa78549-34	-	-	w	16	ACQ_SIMCL		1	n	1x	
061337	fa78549-35	-	-	w	17	ACQ_SIMCL		1	n	1x	
061338	fa78549-36	-	-	w	18	ACQ_SIMCL		1	n	1x	
061339	fa78549-37	-	-	w	19	ACQ_SIMCL		1	n	1x	
061340	fa78549-38	-	-	w	20	ACQ_SIMCL		1	n	1x	
061341	fa78549-39	-	-	w	21	ACQ_SIMCL		1	n	1x	
061342	fa78549-40	-	-	w	22	ACQ_SIMCL		1	n	1x	
061343	fa78549-41	-	-	w	23	ACQ_SIMCL		1	n	1x	SS Fail
061344	fa78549-42	-	-	w	24	ACQ_SIMCL		1	n	1x	
061345	fa78564-1	-	-	w	25	ACQ_SIMCL		1	n		✓
061346	fa78564-2	-	-	w	26	ACQ_SIMCL		1	n		✓
061347	fa78564-3	-	-	w	27	ACQ_SIMCL		1	n		✓
061348	fa78564-4	-	-	w	28	ACQ_SIMCL		1	n		✓
061349	fa78564-1ms,10	-	-	w	29	ACQ_SIMCL	5mL-50mL #12(P11)	1	n		20ul-40ml ✓
061350	fa78564-1msd,10	-	-	w	30	ACQ_SIMCL	5mL-50mL #12(P11)	1	n		20ul-40ml ✓
061351	ecc2356-5	-	-	w	30	ACQ_SIMCL	#12(P11)	1	n		50ul-50ml ✓

\* For NELAC purposes, Method 8260 includes analyses by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
 Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, P11 Poor Instrument



MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/11/20		METHOD FILE(s): simcl0911120.m		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814					
COLUMN TYPE: RTX-VMS		CALIB. DATE: 09/11/20		ICAL/CC: VS0806, VS0804		0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD		EM VOLTAGE: 1718V		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		BFB Response: 15262853		ICV/QC: VS0802, VS0805		Processed BY: SO/SPIES					
PURGE PRESSURE: 9.7psi		RUN ID: VZ2414		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL						stutip					
ANALYST: STUTIP						DATE VERIFIED: 09/14/20					
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL ?	RR	COMMENTS
Z62205	BFB	-	-	w	1	bfb		-	-	-	Passed Autofind✓
Z62206	MB	-	-	w	2	acq_simcl0214		-	-	-	✓
Z62207	IC2414-1	-	-	w	3	acq_simcl0214		-	-	-	1ul-100ml
Z62208	IC2414-2	-	-	w	4	acq_simcl0214		-	-	-	5ul-100ml
Z62209	IC2414-3	-	-	w	5	acq_simcl0214		-	-	-	10ul-50ml
Z62210	IC2414-4	-	-	w	6	acq_simcl0214		-	-	-	25ul-50ml
Z62211	IC2414-5	-	-	w	7	acq_simcl0214		-	-	-	50ul-50ml
Z62212	IC2414-6	-	-	w	8	acq_simcl0214	op-3	-	-	-	75ul-50ml
Z62213	IC2414-7	-	-	w	9	acq_simcl0214	mp-20,op-3	-	-	-	100ul-50ml
Z62214	MB	-	-	w	10	acq_simcl0214		-	-	-	
Z62215	ICV2414-5	-	-	w	11	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62216	BS	-	-	w	12	acq_simcl0214		-	-	-	20ul-40ml✓
Z62217	MB	-	-	w	13	acq_simcl0214		-	-	-	xNot used
Z62218	MB	-	-	w	14	acq_simcl0214		-	-	-	ND✓
Z62219	FA78573-1	-	2	w	15	acq_simcl0214		1	NO	-	✓
Z62220	FA78573-2	-	2	w	16	acq_simcl0214		1	NO	-	✓
Z62221	FA78573-3	-	2	w	17	acq_simcl0214		1	NO	-	ND✓
Z62222	FA78573-4	-	2	w	18	acq_simcl0214		1	NO	-	ND✓
Z62223	FA78573-5	-	2	w	19	acq_simcl0214		1	NO	-	✓
Z62224	FA78573-6	-	2	w	20	acq_simcl0214		1	NO	-	✓
Z62225	FA78573-7	-	2	w	21	acq_simcl0214		1	NO	-	✓
Z62226	FA78573-8	-	2	w	22	acq_simcl0214		1	NO	-	✓
Z62227	FA78573-9	-	2	w	23	acq_simcl0214		1	NO	-	✓
Z62228	FA78573-10	-	2	w	24	acq_simcl0214		1	NO	-	✓
Z62229	FA78573-11	-	2	w	25	acq_simcl0214		1	NO	-	✓
Z62230	FA78573-12	-	2	w	26	acq_simcl0214		1	NO	-	✓
Z62231	FA78573-13	-	2	w	27	acq_simcl0214		1	NO	-	✓
Z62232	FA78573-14	-	2	w	28	acq_simcl0214		1	NO	-	ND✓
Z62233	FA78573-1MS,10	-	2	w	29	acq_simcl0214	5ml-50ml	1	NO	-	20ul-40ml✓
Z62234	FA78573-1MSD,10	-	2	w	30	acq_simcl0214	5ml-50ml	1	NO	-	20ul-40ml✓
Z62235	ECC2414-5	-	-	w	31	acq_simcl0214		-	-	-	50µL→50mL ✓

Analyst's Signature: 

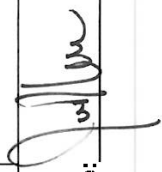
DATE: 09/12/20		METHOD(S):* SimCl		BFB: V25942A		PH LOT: 1 to 12 pH lot #, 200814		
COLUMN TYPE: RTX-VMS		METHOD FILE(S): simcl091120.m		ICAL/JCC: VS0806, VS0804		0 to 3 pH lot#: 220416		
DETECTOR: 5975C MSD		CALIB. DATE: 09/11/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117		
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0802, VS0805		Processed BY: johmm		
PURGE PRESSURE: 9.7psi		BFB Response: 13728368		AFA: VS0418A		SAMPLE ID VERIFIED BY: stutip		
PURGE VOLUME: 5 mL		RUN ID: VZ2416		DATE VERIFIED: 09/14/20		COMMENTS		
ANALYST: STUTIP		ALS POS.		MANUALLY INTEGRATED PEAKS		RR		
Data File	Sample ID	DIL.	VIAL #	MATRIX	SAMPLE METHOD	RATIONAL, PEAK #	PH	CL
Z62257	blk	-	-	w	1 acq_simcl0214		-	-
Z62258	bfb	-	-	w	2 bfb		-	-
Z62259	cc2414-5	-	-	w	3 acq_simcl0214		-	-
Z62260	bs	-	-	w	4 acq_simcl0214		-	-
Z62261	MB	-	-	w	5 acq_simcl0214		-	-
Z62262	MB	-	-	w	6 acq_simcl0214		-	-
Z62263	fa78565-1	1x	1	w	7 acq_simcl0214		1	n
Z62264	fa78565-2	1x	1	w	8 acq_simcl0214		1	n
Z62265	fa78565-3	1x	1	w	9 acq_simcl0214		1	n
Z62266	fa78565-4	1x	1	w	10 acq_simcl0214		1	n
Z62267	fa78565-5	1x	1	w	11 acq_simcl0214		1	n
Z62268	fa78565-6	1x	1	w	12 acq_simcl0214		1	n
Z62269	fa78565-7	1x	1	w	13 acq_simcl0214		1	n
Z62270	fa78565-8	1x	1	w	14 acq_simcl0214		1	n
Z62271	fa78565-9	1x	1	w	15 acq_simcl0214		1	n
Z62272	fa78565-10	1x	1	w	16 acq_simcl0214		1	n
Z62273	fa78565-11	1x	1	w	17 acq_simcl0214		1	n
Z62274	fa78565-12	1x	1	w	18 acq_simcl0214		1	n
Z62275	fa78565-13	1x	1	w	19 acq_simcl0214		1	n
Z62276	fa78565-14	1x	1	w	20 acq_simcl0214		1	n
Z62277	fa78565-15	1x	1	w	21 acq_simcl0214		1	n
Z62278	fa78565-16	1x	1	w	22 acq_simcl0214		1	n
Z62279	fa78565-17	1x	1	w	23 acq_simcl0214		1	n
Z62280	fa78565-18	1x	1	w	24 acq_simcl0214		1	n
Z62281	fa78565-19	1x	1	w	25 acq_simcl0214		1	n
Z62282	fa78565-20	1x	1	w	26 acq_simcl0214		1	n
Z62283	fa78565-1ms,10	10x	1	w	27 acq_simcl0214	5ml-50ml	1	n
Z62284	fa78565-1msd,10	10x	1	w	28 acq_simcl0214	5ml-50ml	1	n
Z62285	ecc2414-5	-	-	w	29 acq_simcl0214		-	-



MSVOA17-1A ANALYSIS LOG

SG ORLANDO

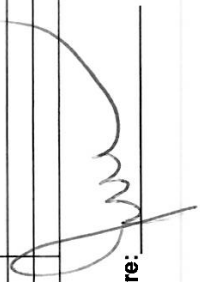
DATE: 09/14/20		METHOD FILE(s): simc1091120.m		BFB: VZ5942A		PH LOT: 1 to 12 pH lot #: 200814					
COLUMN TYPE: RTX-VMS		CALIB. DATE: 09/11/20		ICAL/CC: VS0806, VS0804		0 to 3 pH lot#: 220416					
DETECTOR: 5975C.MSD		EM VOLTAGE: 1776V		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		BFB Response: 14432522		ICV/QC: VS0802, VS0805		Processed BY:					
PURGE PRESSURE: 9.7psi		RUN ID: VZ2418		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL						JuanG					
ANALYST: JuanG						DATE VERIFIED: 09/15/20					
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62319	mb	-	-	w	1	acq_simc10214		-	-	-	✓
Z62320	mb	-	-	w	2	bfb		-	-	-	✓
Z62321	bfb	-	-	w	-	acq_simc10214		-	-	-	Passed Autofind ✓
Z62322	cc2414-5	-	-	w	1	acq_simc10214		-	-	-	50µL → 50mL ✓
Z62323	bs	-	-	w	2	acq_simc10214		-	-	-	20µL → 40mL ✓
Z62324	mb	-	-	w	3	acq_simc10214		-	-	-	✓
Z62325	mb	-	-	w	4	acq_simc10214		1	n	-	✓
Z62326	FA78549-30	1X	2	w	5	acq_simc10214		1	n	-	✓
Z62327	FA78549-31	1X	2	w	6	acq_simc10214		1	n	-	✓
Z62328	FA78549-32	1X	2	w	7	acq_simc10214		1	n	-	✓
Z62329	FA78549-33	1X	2	w	8	acq_simc10214		1	n	-	✓
Z62330	FA78549-34	1X	2	w	9	acq_simc10214		1	n	-	✓
Z62331	FA78549-35	1X	2	w	10	acq_simc10214		1	n	-	✓
Z62332	FA78549-36	1X	2	w	11	acq_simc10214		1	n	-	✓
Z62333	FA78549-37	1X	2	w	12	acq_simc10214		1	n	-	✓
Z62334	FA78551-15,2X	2X	2	w	13	acq_simc10214	25ml to 50ml	1	n	-	✓
Z62335	FA78551-15MS,10X	10X	2	w	14	acq_simc10214	10ml to 100ml	1	n	-	20µL → 40mL ✓
Z62336	FA78551-15MSD,10X	10X	2	w	15	acq_simc10214	10ml to 100ml	1	n	-	20µL → 40mL ✓
Z62337	FA78549-38	1X	2	w	16	acq_simc10214		1	n	-	✓
Z62338	FA78549-39	1X	2	w	17	acq_simc10214		1	n	-	✓
Z62339	FA78549-40	1X	2	w	18	acq_simc10214		1	n	-	✓
Z62340	FA78549-41	1X	2	w	19	acq_simc10214		1	n	-	✓
Z62341	FA78549-42	1X	2	w	20	acq_simc10214		1	n	-	✓
Z62342	FA78551-16,2X	2X	2	w	21	acq_simc10214	25ml to 50ml	1	n	-	✓
Z62343	FA78551-16MS,10X	10X	2	w	22	acq_simc10214	10ml to 100ml	1	n	-	20µL → 40mL ✓
Z62344	FA78551-16MSD,10X	10X	2	w	23	acq_simc10214	10ml to 100ml	1	n	-	20µL → 40mL ✓
Z62345	FA78565-21	1X	2	w	24	acq_simc10214		1	n	-	✓
Z62346	FA78565-22	1X	2	w	25	acq_simc10214		1	n	-	✓
Z62347	FA78565-23	1X	2	w	26	acq_simc10214		1	n	-	✓
Z62348	FA78565-24	1X	2	w	27	acq_simc10214		1	n	-	✓
Z62349	FA78565-25	1X	2	w	28	acq_simc10214		1	n	-	✓
Z62350	ECC2414-5	-	-	w	29	acq_simc10214		-	-	-	50µL → 50mL ✓

Analyst's Signature: 

MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/15/20		METHOD FILE(s): simcl091120.m		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814				
COLUMN TYPE: RTX-VMS		CALIB. DATE: 09/11/20		ICAL/JCC: VS0806, VS0804		0 to 3 pH lot#: 220416				
DETECTOR: 5975C MSD		EM VOLTAGE: 1812V		ISTD/SURR: VS0791		KI PAPER LOT: 060117				
INSTRUMENT: MSVOA15-z		BFB Response: 17763852		ICV/QC: VS0802, VS0805		Processed BY: JuanG				
PURGE PRESSURE: 9.7psi		RUN ID: VZ2419		AFA: VS0418A		SAMPLE ID VERIFIED BY: JuanG				
PURGE VOLUME: 5 mL						DATE VERIFIED: 09/16/20				
ANALYST: JuanG						COMMENTS				
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR
Z62351	BLK	-	-	W	1	acq_simcl0214		-	-	-
Z62352	BLK	-	-	W	2	acq_simcl0214		-	-	-
Z62353	BFB	-	-	W	3	bf		-	-	-
Z62354	CC2414-5	-	-	W	4	acq_simcl0214		-	-	-
Z62355	BS	-	-	W	5	acq_simcl0214		-	-	-
Z62356	MB	-	-	W	6	acq_simcl0214		-	-	-
Z62357	MB	-	-	W	7	acq_simcl0214		-	-	-
Z62358	MB	-	-	W	8	acq_simcl0214	no liquid	-	-	-
Z62359	FA78565-26	1x	2	W	9	acq_simcl0214		1	n	-
Z62360	FA78565-27	1x	2	W	10	acq_simcl0214		1	n	-
Z62361	FA78551-1	1x	2	W	11	acq_simcl0214		1	n	-
Z62362	FA78551-2	1x	2	W	12	acq_simcl0214		1	n	-
Z62363	FA78551-3	1x	2	W	13	acq_simcl0214		1	n	-
Z62364	FA78551-4	1x	2	W	14	acq_simcl0214		1	n	-
Z62365	FA78551-5	1x	2	W	15	acq_simcl0214		1	n	-
Z62366	FA78551-6	1x	2	W	16	acq_simcl0214		1	n	-
Z62367	FA78551-7	1x	3	W	17	acq_simcl0214		1	n	-
Z62368	FA78551-8	1x	2	W	18	acq_simcl0214		1	n	-
Z62370	FA78551-7ms	1x	2	W	19	acq_simcl0214		1	n	-
Z62371	FA78551-7msd	1x	2	W	20	acq_simcl0214		1	n	-
Z62372	FA78551-9	1x	2	W	21	acq_simcl0214		1	n	-
Z62373	FA78551-10	1x	2	W	22	acq_simcl0214		1	n	-
Z62374	FA78551-11	1x	2	W	23	acq_simcl0214		1	n	-
Z62375	FA78551-12	1x	2	W	24	acq_simcl0214		1	n	-
Z62376	FA78551-13	1x	2	W	25	acq_simcl0214		1	n	-
Z62377	FA78551-14	1x	2	W	26	acq_simcl0214		1	n	-
Z62378	FA78551-15	1x	3	W	27	acq_simcl0214		1	n	-
Z62379	FA78551-17	1x	2	W	28	acq_simcl0214		1	n	-
Z62380	FA78551-19	1x	1	W	29	acq_simcl0214		1	n	-
Z62381	FA78551-20	1x	2	W	30	acq_simcl0214		1	n	-
Z62382	FA78551-21	1x	2	W	31	acq_simcl0214		1	n	-
Z62383	FA78551-22	1x	2	W	32	acq_simcl0214		1	n	-
Z62384	ecc241-5	-	-	W	33	acq_simcl0214		-	-	-

Analyst's Signature: 





The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWMP - OUCTP Upper 180)

SGS Job Number: FA78570

Sampling Date: 09/02/20



Report to:

Ahtna Global, LLC  
9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
dlieberman@ahtna.net; mfisher@ahtna.net;  
hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: **143**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.

Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

Job No: FA78570

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP Upper 180)

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA78570-1	09/02/20	08:55	LHTH 09/09/20	AQ	Ground Water	2036W0BW100F
FA78570-2	09/02/20	09:50	LHTH 09/09/20	AQ	Ground Water	2036W0BW101F
FA78570-3	09/02/20	11:20	RMCG09/09/20	AQ	Ground Water	2036X0BW224F
FA78570-4	09/02/20	14:18	RMCG09/09/20	AQ	Ground Water	2036X0BW226F
FA78570-5	09/02/20	14:20	RMCG09/09/20	AQ	Ground Water	2036X0BW227D

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78570

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/18/2020 12:39:07

5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/02/2020 and were received at SGS North America Inc - Orlando on 09/09/2020 properly preserved, at 1.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA78570. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ

**Batch ID:** VO2357

All samples were analyzed within the recommended method holding time.

Sample(s) FA78570-1MS, FA78570-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA78570  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

**FA78570-1**      **2036W0BW100F**

No hits reported in this sample.

**FA78570-2**      **2036W0BW101F**

Carbon Tetrachloride      0.96      0.50      0.25      ug/l      SW846 8260B BY SIM

**FA78570-3**      **2036X0BW224F**

No hits reported in this sample.

**FA78570-4**      **2036X0BW226F**

Carbon Tetrachloride      0.52      0.50      0.25      ug/l      SW846 8260B BY SIM

**FA78570-5**      **2036X0BW227D**

Carbon Tetrachloride      0.49 J      0.50      0.25      ug/l      SW846 8260B BY SIM

Sample Results

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Report of Analysis

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SGS North America Inc.

## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	2036W0BW100F	<b>Date Sampled:</b>	09/02/20
<b>Lab Sample ID:</b>	FA78570-1	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61247.D	1	09/11/20 21:52	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW101F	
<b>Lab Sample ID:</b> FA78570-2	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61248.D	1	09/11/20 22:12	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.96	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.2  
4



SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036X0BW224F	
<b>Lab Sample ID:</b> FA78570-3	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61249.D	1	09/11/20 22:32	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.3  
4

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036X0BW226F	
<b>Lab Sample ID:</b> FA78570-4	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61250.D	1	09/11/20 22:53	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.52	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.4  
4

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036X0BW227D	
<b>Lab Sample ID:</b> FA78570-5	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61251.D	1	09/11/20 23:13	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.49	0.50	0.25	0.10	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.5  
4

Misc. Forms

Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

CAPS2035  
Ahtna

CHAIN OF CUSTODY

WATER / SOIL

FA78570

1 of 2

Chain of Custody #: 0132

0132

Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:										Analysis Requested				Lab Sample Receipt											
Project Location: Former Fort Ord, CA		Sampler/s: L. Henderson / T. Hoang								VOCs 8260 - SIM Metals 6010 C Chloride 9056A				Laboratory Sample Delivery											
Project Name: FFO 6WMP		Report To: Derek Lieberman												Group #:											
Project Number: 21065.000.01.0000		E-Mail: dlieberman@ahntna.net												Custody Seal:											
Sampling Event/Site: 3Q2020		Laboratory: SGS												Temp (°C):											
Lab Number	Sample Number/Description	Sample Collection		Matrix			Number of Preserved Bottles										Notes								
		Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other										
1	2036W02B1010F	09-02-20	0855	X			3	3																	
2	2036W03B1010F	09-2-20	0950	X			3	3																	

INITIAL ASSESSMENT *BC*  
 LABEL VERIFICATION *DD*

Turnaround Time:  Standard \_\_\_\_\_; 3-5 Day Rush \_\_\_\_\_; 48 Hour Rush \_\_\_\_\_; 24 Hour Rush \_\_\_\_\_

Comments: OUCTP- Upper 180

Chain of Custody Tracking:

Relinquished By Sampler:	Date/Time: 09/02/20 1600	Received By:	Date/Time: 9/2/20 1605
Relinquished By: <i>[Signature]</i>	Date/Time: 9/3/20 1035	Received By: <i>[Signature]</i>	Date/Time: 9/3/20 1040
Relinquished By: <i>[Signature]</i>	Date/Time: 9/8/20 1500	Received By Laboratory:	Date/Time: 9/8/20 1500
<i>Fx</i>		<i>[Signature]</i>	<i>Magdalen Resler 09/09/20 16:15</i>

FA78570: Chain of Custody

Page 1 of 3



5.1  
5

CA052035  
Ahtna

**CHAIN OF CUSTODY**

WATER / SOIL

Chain of Custody #:

2082  
0135

Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:										Analysis Requested						Lab Sample Receipt	
Project Location: <u>Former Fort Ord, CA</u>			Sampler/s: <u>R. MIKOVILH, C. GARLIA</u>							VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery				
Project Name: <u>FFO, Marine Gunn</u>			Report To: <u>Derek Lieberman</u>										Group #: _____				
Project Number: <u>21065.000.01.0000</u>			E-Mail: <u>dlieberman@ahnta.net</u>										Custody Seal: _____				
Sampling Event/Site: <u>3Q 2020</u>			Laboratory: <u>SGS</u>										Temp (°C): _____				
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles							Notes				
	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>		None	Other		
3	2036X03W224F	9-2-20	1120	X		3	3								X		
4	2036X03W226F	9-2-20	1418	X		3	3								X		
5	<del>2036X03W227F</del> 2036X03W227A	9-2-20	1420	X		2	2								X		
Turnaround Time: _____: Standard _____: 3-5 Day Rush _____: 48 Hour Rush _____: 24 Hour Rush										Shipment: Method: _____ Tracking ID: _____							
Comments:																	
DUCTP - UPPER																	
Chain of Custody Tracking:																	
Relinquished By Sampler: <u>R. Mikovilh</u>			Date/Time: <u>9-2-20 1645</u>			Received By: <u>[Signature]</u>			Date/Time: <u>9/2/20 1645</u>								
Relinquished By: <u>[Signature]</u>			Date/Time: <u>9/3/20 1035</u>			Received By: <u>Lee Bantz</u>			Date/Time: <u>9/2/20 1040</u>								
Relinquished By: <u>Lee Bantz</u>			Date/Time: <u>9/8/20 1500</u>			Received By Laboratory: <u>FEDEX</u>			Date/Time: <u>9/8/20 1500</u>								

5.1  
5

FA78570: Chain of Custody

Page 2 of 3



## SGS Sample Receipt Summary

Job Number: FA78570

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP Upper 180

Date / Time Received: 9/9/2020 10:15:00 AM

Delivery Method: FedEx

Airbill #s: 771472263859

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (1.8);

**Cooler Information**

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | IR Gun                              |                          |
| 5. Cooler media             | Ice (Bag)                           |                          |

**Sample Information**

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | Intact                              |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Trip Blank Information**

Y or N N/A

- |                                |                                     |                                     |                          |
|--------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                                | <u>W or S</u>                       |                                     | <u>N/A</u>               |
| 3. Type Of TB Received         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 \_\_\_\_\_ 230315 \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 \_\_\_\_\_ 219813A \_\_\_\_\_

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: MAGALEAK

Date: 9/9/2020 10:15:00 AM

Reviewer: PH

Date: 9/10/2020

FA78570: Chain of Custody

Page 3 of 3

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78570  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
--------------	------	---------	-------------	-------------	--------	-------	--------

VO2357 SW846 8260B BY SIM

VO2357-BS	56-23-5	Carbon Tetrachloride	BSP	REC	118	%	72-136
VO2357-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	81-118
VO2357-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	89-112
FA78570-1MS	56-23-5	Carbon Tetrachloride	MS	REC	99	%	72-136
FA78570-1MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	100	%	81-118
FA78570-1MS	2037-26-5	Toluene-D8	MS	SURR	93	%	89-112
FA78570-1MSD	56-23-5	Carbon Tetrachloride	MSD	REC	106	%	72-136
FA78570-1MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	7	%	20
FA78570-1MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	100	%	81-118
FA78570-1MSD	2037-26-5	Toluene-D8	MSD	SURR	94	%	89-112
VO2357-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	100	%	81-118
VO2357-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	89-112
FA78570-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FA78570-1	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78570-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FA78570-2	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78570-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FA78570-3	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78570-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FA78570-4	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78570-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FA78570-5	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112

\* Sample used for QC is not from job FA78570

5.2  
5



## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2357-MB	O61245.D	1	09/11/20	SP	n/a	n/a	VO2357

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78570-1, FA78570-2, FA78570-3, FA78570-4, FA78570-5

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	100%	74-125%
2037-26-5	Toluene-D8	103%	88-111%

**Blank Spike Summary**

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2357-BS	O61244.D	1	09/11/20	SP	n/a	n/a	VO2357

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78570-1, FA78570-2, FA78570-3, FA78570-4, FA78570-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.9	118	76-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78570-1MS	O61267.D	10	09/12/20	SP	n/a	n/a	VO2357
FA78570-1MSD	O61268.D	10	09/12/20	SP	n/a	n/a	VO2357
FA78570-1	O61247.D	1	09/11/20	SP	n/a	n/a	VO2357

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78570-1, FA78570-2, FA78570-3, FA78570-4, FA78570-5

CAS No.	Compound	FA78570-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	50	49.4	99	50	52.8	106	7	76-136/23

CAS No.	Surrogate Recoveries	MS	MSD	FA78570-1	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	100%	101%	74-125%
2037-26-5	Toluene-D8	93%	94%	101%	88-111%

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2356-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61227.D	<b>Injection Time:</b> 14:01
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	105346	30.7	Pass
75	30.0 - 60.0% of mass 95	169774	49.4	Pass
95	Base peak, 100% relative abundance	343616	100.0	Pass
96	5.0 - 9.0% of mass 95	25531	7.43	Pass
173	Less than 2.0% of mass 174	1340	0.39 (0.45) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	294848	85.8	Pass
175	5.0 - 9.0% of mass 174	20565	5.98 (6.97) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	284096	82.7 (96.4) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	17677	5.14 (6.22) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2356-IC2356	O61230.D	09/11/20	15:34	01:33	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20	15:54	01:53	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20	16:14	02:13	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20	16:35	02:34	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20	16:55	02:54	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20	17:15	03:14	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20	17:36	03:35	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20	18:16	04:15	Initial cal verification 5

## Instrument Performance Check (BFB)

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2357-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61242.D	<b>Injection Time:</b> 19:53
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	144405	29.9	Pass
75	30.0 - 60.0% of mass 95	229077	47.4	Pass
95	Base peak, 100% relative abundance	483691	100.0	Pass
96	5.0 - 9.0% of mass 95	36268	7.50	Pass
173	Less than 2.0% of mass 174	2367	0.49 (0.57) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	416875	86.2	Pass
175	5.0 - 9.0% of mass 174	29891	6.18 (7.17) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	397163	82.1 (95.3) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	25669	5.31 (6.46) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2357-CC2356	O61243.D	09/11/20	20:15	00:22	Continuing cal 5
VO2357-BS	O61244.D	09/11/20	20:51	00:58	Blank Spike
VO2357-MB	O61245.D	09/11/20	21:11	01:18	Method Blank
FA78570-1	O61247.D	09/11/20	21:52	01:59	2036W0BW100F
FA78570-2	O61248.D	09/11/20	22:12	02:19	2036W0BW101F
FA78570-3	O61249.D	09/11/20	22:32	02:39	2036X0BW224F
FA78570-4	O61250.D	09/11/20	22:53	03:00	2036X0BW226F
FA78570-5	O61251.D	09/11/20	23:13	03:20	2036X0BW227D
FA78571-1	O61252.D	09/11/20	23:33	03:40	(used for QC only; not part of job FA78570)
ZZZZZZ	O61253.D	09/11/20	23:53	04:00	(unrelated sample)
ZZZZZZ	O61254.D	09/12/20	00:14	04:21	(unrelated sample)
ZZZZZZ	O61255.D	09/12/20	00:34	04:41	(unrelated sample)
ZZZZZZ	O61256.D	09/12/20	00:54	05:01	(unrelated sample)
ZZZZZZ	O61257.D	09/12/20	01:15	05:22	(unrelated sample)
ZZZZZZ	O61258.D	09/12/20	01:35	05:42	(unrelated sample)
ZZZZZZ	O61259.D	09/12/20	01:55	06:02	(unrelated sample)
ZZZZZZ	O61260.D	09/12/20	02:15	06:22	(unrelated sample)
ZZZZZZ	O61261.D	09/12/20	02:35	06:42	(unrelated sample)
ZZZZZZ	O61262.D	09/12/20	02:56	07:03	(unrelated sample)
ZZZZZZ	O61263.D	09/12/20	03:16	07:23	(unrelated sample)
ZZZZZZ	O61264.D	09/12/20	03:36	07:43	(unrelated sample)
ZZZZZZ	O61265.D	09/12/20	03:57	08:04	(unrelated sample)
ZZZZZZ	O61266.D	09/12/20	04:17	08:24	(unrelated sample)
FA78570-1MS	O61267.D	09/12/20	04:37	08:44	Matrix Spike

# Instrument Performance Check (BFB)

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2357-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61242.D	<b>Injection Time:</b> 19:53
<b>Instrument ID:</b> GCMSO	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78570-1MSD	O61268.D	09/12/20	04:58	09:05	Matrix Spike Duplicate
VO2357-ECC2356	O61269.D	09/12/20	05:18	09:25	Ending cal 5

6.4.2

6

# Internal Standard Area Summary

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VO2357-CC2356	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61243.D	<b>Injection Time:</b> 20:15
<b>Instrument ID:</b> GCMSO	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	367891	7.35	288681	10.45
Check Std <sup>b</sup>	355114	7.35	279352	10.44
Upper Limit <sup>c</sup>	710228	7.52	558704	10.61
Lower Limit <sup>d</sup>	177557	7.18	139676	10.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VO2357-BS	355590	7.35	275951	10.44
VO2357-MB	333237	7.35	252324	10.45
FA78570-1	301847	7.35	230671	10.45
FA78570-2	287790	7.35	223685	10.45
FA78570-3	289291	7.35	227658	10.45
FA78570-4	279323	7.35	218320	10.45
FA78570-5	278097	7.35	218871	10.45
FA78571-1	266661	7.35	206650	10.45
ZZZZZZ	263877	7.35	204000	10.45
ZZZZZZ	257708	7.35	200773	10.45
ZZZZZZ	255254	7.35	197117	10.45
ZZZZZZ	253043	7.35	196127	10.45
ZZZZZZ	244967	7.35	190937	10.45
ZZZZZZ	243121	7.35	190999	10.45
ZZZZZZ	239548	7.35	186723	10.45
ZZZZZZ	236035	7.35	184781	10.45
ZZZZZZ	230901	7.35	186288	10.45
ZZZZZZ	230121	7.35	181695	10.45
ZZZZZZ	228713	7.35	178454	10.45
ZZZZZZ	222709	7.35	173214	10.45
ZZZZZZ	220887	7.35	173708	10.45
ZZZZZZ	217007	7.35	170113	10.45
FA78570-1MS	260902	7.35	207790	10.45
FA78570-1MSD	275372	7.35	218380	10.45
VO2357-ECC2356311282		7.35	243812	10.45

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2356-ICC2356 O61234.D 09/11/20 16:55
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

6.5.1  
6



# Surrogate Recovery Summary

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Method:** SW846 8260B BY SIM                      **Matrix:** AQ

**Samples and QC shown here apply to the above method**

Lab Sample ID	Lab File ID	S1	S2
FA78570-1	O61247.D	101	101
FA78570-2	O61248.D	102	100
FA78570-3	O61249.D	102	99
FA78570-4	O61250.D	102	99
FA78570-5	O61251.D	102	99
FA78570-1MS	O61267.D	100	93
FA78570-1MSD	O61268.D	100	94
VO2357-BS	O61244.D	97	99
VO2357-MB	O61245.D	100	103

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

6.6.1  
6

# Initial Calibration Summary

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

## Response Factor Report MSVOA12

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

### Calibration Files

1 =O61230.D 2 =O61231.D 3 =O61232.D 4 =O61233.D  
 5 =O61234.D 6 =O61235.D 7 =O61236.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
-----									
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.558	0.633	0.571	0.573	0.524	0.492	0.473	0.546	9.96
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.59060 *A + -0.03053 *A^2								
3) Chloromethane	1.395	1.093	0.857	0.828	0.737	0.682	0.649	0.892	29.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.88497 *A + -0.06257 *A^2								
4) 1,1-Dichloroethen	0.648	0.725	0.662	0.734	0.703	0.672	0.694	0.691	4.67
5) Methylene Chlorid	2.151	0.418	0.186	0.117	0.102	0.095	0.094	0.452	E1 167.87
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9916								
	Response Ratio = 0.00000 + 1.08258 *A								
6) trans-1,2-Dichlor	0.823	0.909	0.775	0.847	0.805	0.778	0.808	0.821	5.65
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.79595 *A + 0.00117 *A^2								
7) 1,1-Dichloroethan	0.920	0.983	0.903	0.972	0.919	0.884	0.906	0.927	3.97
8) cis-1,2-Dichloroe	0.471	0.472	0.435	0.472	0.454	0.444	0.460	0.458	3.24
9) Chloroform	0.840	0.844	0.764	0.827	0.779	0.754	0.774	0.798	4.79
10) Carbon Tetrachlor	0.502	0.562	0.506	0.571	0.556	0.537	0.571	0.544	5.38
11) 1,1,1-Trichloroet	0.593	0.629	0.576	0.645	0.621	0.604	0.636	0.615	4.06
12) Benzene	1.681	1.663	1.504	1.628	1.554	1.503	1.551	1.583	4.64
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 1.54480 *A + -0.00157 *A^2								
13)S 1,2-Dichloroethan	0.407	0.407	0.413	0.434	0.389	0.389	0.387	0.404	4.23
14) 1,2-Dichloroethan	0.768	0.789	0.746	0.780	0.737	0.728	0.733	0.754	3.24
15) Trichloroethene	0.466	0.487	0.444	0.487	0.472	0.461	0.476	0.470	3.22
16) 1,2-Dichloropropa	0.514	0.567	0.519	0.548	0.517	0.503	0.519	0.527	4.30
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 0.51595 *A + -0.00029 *A^2								
17) cis-1,3-Dichlorop	0.485	0.515	0.497	0.552	0.551	0.561	0.582	0.535	6.69
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.161	1.150	1.123	1.108	1.100	1.117	1.132	1.127	1.95
20) trans-1,3-Dichlor	0.576	0.606	0.611	0.681	0.682	0.706	0.738	0.657	9.10
21) Tetrachloroethene	0.563	0.631	0.539	0.583	0.555	0.541	0.566	0.568	5.54
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.54272 *A + 0.00447 *A^2								
22) 1,4-Dichlorobenze	1.098	1.175	1.110	1.205	1.177	1.154	1.188	1.158	3.46
23) 1,2-Dibromo-3-Chl	0.334	0.260	0.190	0.205	0.209	0.220	0.225	0.235	20.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								

6.7.1  
6

# Initial Calibration Summary

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

---

$$\text{Response Ratio} = 0.00000 + 0.20028 *A + 0.00615 *A^2$$

-----  
(#) = Out of Range

SIMCL091120.M

Sun Sep 13 19:41:25 2020

## Initial Calibration Verification

Job Number: FA78570  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2356-ICV2356  
 Lab FileID: O61238.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\091120\O61238.D Vial: 10  
 Acq On : 11 Sep 2020 6:16 pm Operator: stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00	7.35
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	8.489	15.1	93	0.00	2.90
3	Chloromethane	10.000	8.270	17.3	94	0.00	2.80
	----- AvgRF	CCRF	%Dev	-----			
4	1,1-Dichloroethene	0.691	0.646	6.5	98	0.00	4.09
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	8.887	11.1	101	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	9.532	4.7	101	0.00	4.87
	----- AvgRF	CCRF	%Dev	-----			
7	1,1-Dichloroethane	0.927	0.885	4.5	103	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.443	3.3	104	0.00	6.07
9	Chloroform	0.798	0.745	6.6	102	0.00	6.33
10	Carbon Tetrachloride	0.544	0.522	4.0	100	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.580	5.7	100	0.00	6.58
	----- Amount	Calc.	%Drift	-----			
12	Benzene	10.000	10.095	-1.0	107	0.00	6.94
	----- AvgRF	CCRF	%Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.386	4.5	106	0.00	7.07
14	1,2-Dichloroethane	0.754	0.741	1.7	107	0.00	7.14
15	Trichloroethene	0.470	0.466	0.9	105	0.00	7.52
	----- Amount	Calc.	%Drift	-----			
16	1,2-Dichloropropane	10.000	10.102	-1.0	108	0.00	8.04
	----- AvgRF	CCRF	%Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.573	-7.1	111	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	10.45
19 S	Toluene-d8	1.127	1.117	0.9	108	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.726	-10.5	113	0.00	9.34
	----- Amount	Calc.	%Drift	-----			
21	Tetrachloroethene	10.000	9.602	4.0	101	0.00	9.34
	----- AvgRF	CCRF	%Dev	-----			

# Initial Calibration Verification

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICV2356  
**Lab FileID:** O61238.D

22	1,4-Dichlorobenzene	1.158	1.170	-1.0	105	0.00	12.83
		-----	Amount	Calc.	%Drift	-----	
23	1,2-Dibromo-3-Chloropropa	10.000	10.133	-1.3	109	0.00	14.04
		-----				-----	

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Sun Sep 13 19:41:09 2020

6.7.2  
 6

## Continuing Calibration Summary

Job Number: FA78570  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2357-CC2356  
 Lab FileID: O61243.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\vo2357\O61243.d Vial: 1  
 Acq On : 11 Sep 2020 8:15 pm Operator: stutip  
 Sample : CC2356-5 Inst : MSVOA12  
 Misc : MS47191,VO2357,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	97	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	8.742	12.6	87	0.00	2.90
3	Chloromethane	10.000	8.781	12.2	89	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.614	11.1	84	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	8.407	15.9	87	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	8.855	11.4	85	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.822	11.3	86	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.410	10.5	87	0.00	6.07
9	Chloroform	0.798	0.704	11.8	87	0.00	6.33
10	Carbon Tetrachloride	0.544	0.482	11.4	84	0.00	6.50
11	1,1,1-Trichloroethane	0.615	0.547	11.1	85	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	9.023	9.8	86	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.388	4.0	96	0.00	7.07
14	1,2-Dichloroethane	0.754	0.683	9.4	89	0.00	7.14
15	Trichloroethene	0.470	0.417	11.3	85	0.00	7.51
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	9.216	7.8	89	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.509	4.9	89	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00	10.44
19 S	Toluene-d8	1.127	1.104	2.0	97	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.631	4.0	90	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	8.891	11.1	85	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2357-CC2356  
**Lab FileID:** O61243.D

22	1,4-Dichlorobenzene	1.158	1.068	7.8	88	0.00	12.82
		----- True	Calc.	% Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	9.126	8.7	89	0.00	14.04

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 03:06:23 2020

6.7.3

6

## Continuing Calibration Summary

Job Number: FA78570  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2357-ECC2356  
 Lab FileID: O61269.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\vo2357\O61269.d Vial: 26  
 Acq On : 12 Sep 2020 5:18 am Operator: stutip  
 Sample : ecc2356-5 Inst : MSVOA12  
 Misc : MS47191,VO2357,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	85	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.289	-2.9	88	0.00	2.90
3	Chloromethane	10.000	10.657	-6.6	92	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.719	-4.1	87	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	10.178	-1.8	92	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	10.520	-5.2	88	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.970	-4.6	89	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.469	-2.4	87	0.00	6.07
9	Chloroform	0.798	0.814	-2.0	88	0.00	6.33
10	Carbon Tetrachloride	0.544	0.540	0.7	82	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.613	0.3	84	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	10.403	-4.0	87	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.389	3.7	85	0.00	7.07
14	1,2-Dichloroethane	0.754	0.785	-4.1	90	0.00	7.14
15	Trichloroethene	0.470	0.477	-1.5	86	0.00	7.52
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	10.553	-5.5	89	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.539	-0.7	83	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	10.45
19 S	Toluene-d8	1.127	1.074	4.7	82	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.679	-3.3	84	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	9.829	1.7	82	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			



# Continuing Calibration Summary

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2357-ECC2356  
**Lab FileID:** O61269.D

22	1,4-Dichlorobenzene	1.158	1.216	-5.0	87	0.00	12.83
		----- True	Calc.	% Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	10.021	-0.2	86	0.00	14.04

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 03:18:41 2020

6.7.4

6

**Run Sequence Report**

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2356	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VO2356-BFB	O61227.D	09/11/20 14:01	n/a	BFB Tune
VO2356-IC2356	O61230.D	09/11/20 15:34	n/a	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20 15:54	n/a	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20 16:14	n/a	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20 16:35	n/a	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20 16:55	n/a	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20 17:15	n/a	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20 17:36	n/a	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20 18:16	n/a	Initial cal verification 5

## Run Sequence Report

**Job Number:** FA78570  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VO2357      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSO

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2357-BFB	O61242.D	09/11/20 19:53	n/a	BFB Tune
VO2357-CC2356	O61243.D	09/11/20 20:15	n/a	Continuing cal 5
VO2357-BS	O61244.D	09/11/20 20:51	n/a	Blank Spike
VO2357-MB	O61245.D	09/11/20 21:11	n/a	Method Blank
FA78570-1	O61247.D	09/11/20 21:52	n/a	2036W0BW100F
FA78570-2	O61248.D	09/11/20 22:12	n/a	2036W0BW101F
FA78570-3	O61249.D	09/11/20 22:32	n/a	2036X0BW224F
FA78570-4	O61250.D	09/11/20 22:53	n/a	2036X0BW226F
FA78570-5	O61251.D	09/11/20 23:13	n/a	2036X0BW227D
FA78571-1	O61252.D	09/11/20 23:33	n/a	(used for QC only; not part of job FA78570)
ZZZZZZ	O61253.D	09/11/20 23:53	n/a	(unrelated sample)
ZZZZZZ	O61254.D	09/12/20 00:14	n/a	(unrelated sample)
ZZZZZZ	O61255.D	09/12/20 00:34	n/a	(unrelated sample)
ZZZZZZ	O61256.D	09/12/20 00:54	n/a	(unrelated sample)
ZZZZZZ	O61257.D	09/12/20 01:15	n/a	(unrelated sample)
ZZZZZZ	O61258.D	09/12/20 01:35	n/a	(unrelated sample)
ZZZZZZ	O61259.D	09/12/20 01:55	n/a	(unrelated sample)
ZZZZZZ	O61260.D	09/12/20 02:15	n/a	(unrelated sample)
ZZZZZZ	O61261.D	09/12/20 02:35	n/a	(unrelated sample)
ZZZZZZ	O61262.D	09/12/20 02:56	n/a	(unrelated sample)
ZZZZZZ	O61263.D	09/12/20 03:16	n/a	(unrelated sample)
ZZZZZZ	O61264.D	09/12/20 03:36	n/a	(unrelated sample)
ZZZZZZ	O61265.D	09/12/20 03:57	n/a	(unrelated sample)
ZZZZZZ	O61266.D	09/12/20 04:17	n/a	(unrelated sample)
FA78570-1MS	O61267.D	09/12/20 04:37	n/a	Matrix Spike
FA78570-1MSD	O61268.D	09/12/20 04:58	n/a	Matrix Spike Duplicate
VO2357-ECC2356	O61269.D	09/12/20 05:18	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61247.d  
 Acq On : 11 Sep 2020 9:52 pm  
 Operator : stutip  
 Sample : fa78570-1  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 02:57:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	301847	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	230671	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	123367	5.06	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	101.20%	
19) Toluene-d8	8.896	98	263754	5.07	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	101.40%	
Target Compounds						
5) Methylene Chloride	4.707	49	15679	0.24	ug/L	99
15) Trichloroethene	7.512	95	3100	0.11	ug/L	98
-----						

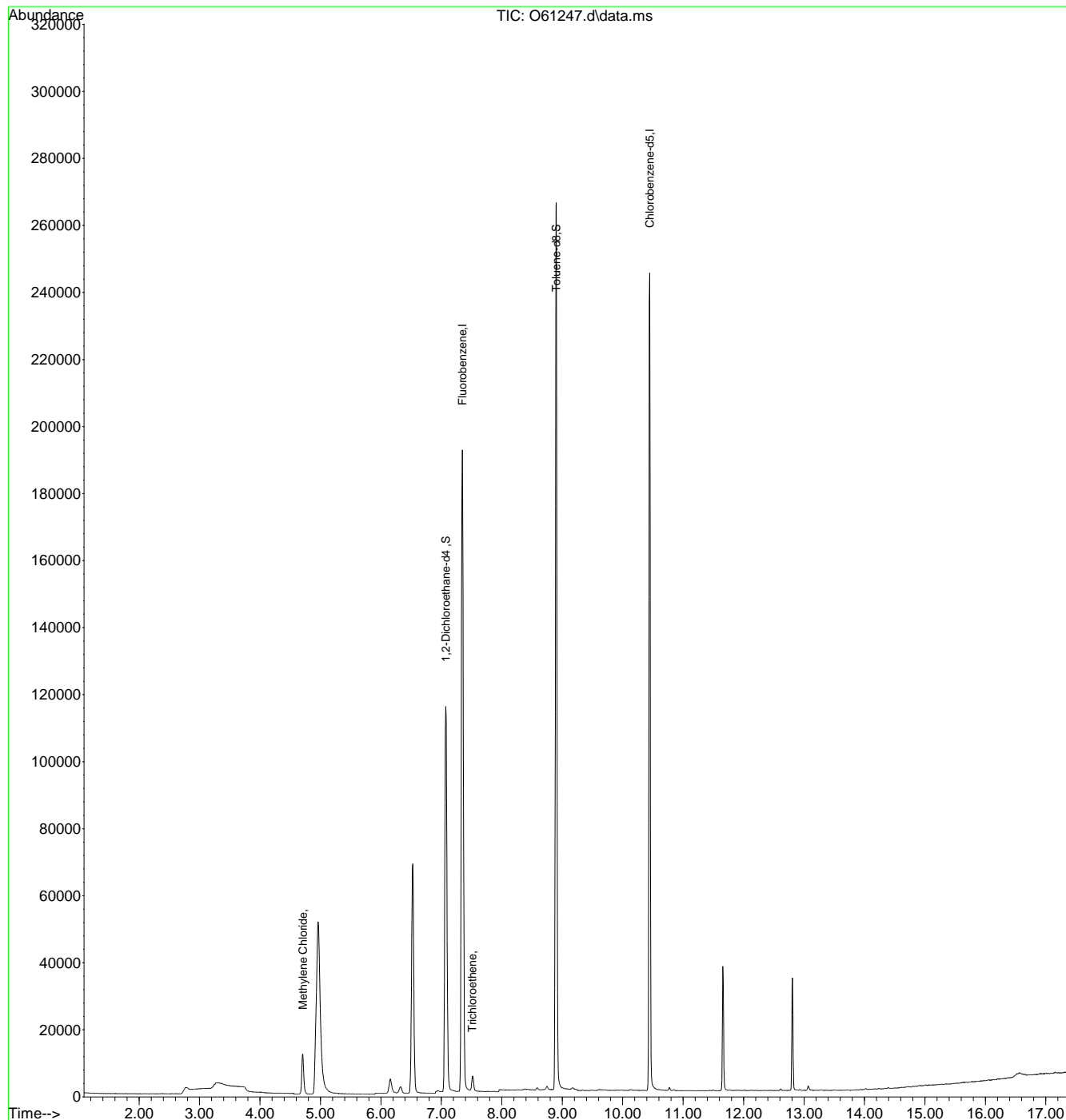
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1  
7

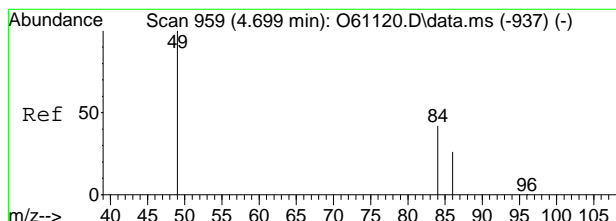
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61247.d  
 Acq On : 11 Sep 2020 9:52 pm  
 Operator : stutip  
 Sample : fa78570-1  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 02:57:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

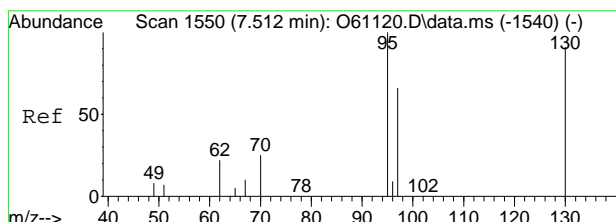
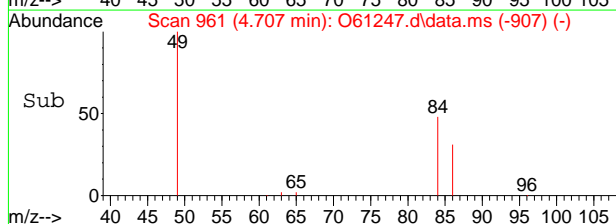
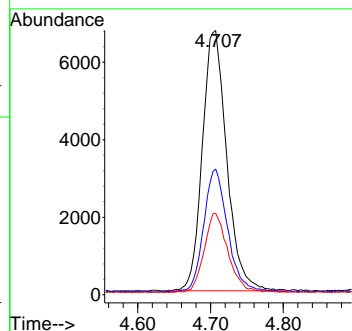
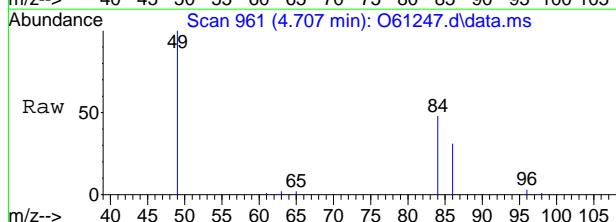


7.1.1  
7



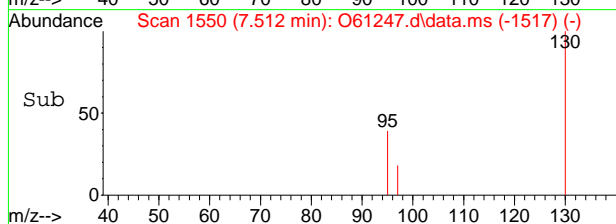
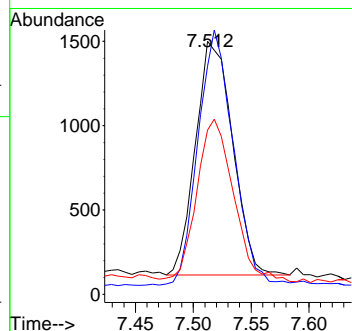
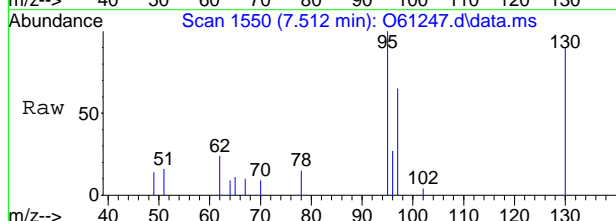
#5  
 Methylene Chloride  
 Concen: 0.24 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61247.d  
 Acq: 11 Sep 2020 9:52 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	47.0	17.9	77.9
86	30.3	0.0	59.8



#15  
 Trichloroethene  
 Concen: 0.11 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61247.d  
 Acq: 11 Sep 2020 9:52 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
130	93.2	60.4	120.4
97	64.8	34.6	94.6



7.1.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61248.d  
 Acq On : 11 Sep 2020 10:12 pm  
 Operator : stutip  
 Sample : fa78570-2  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 02:59:13 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
<b>Internal Standards</b>							
1) Fluorobenzene	7.346	96	287790	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	223685	5.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
13) 1,2-Dichloroethane-d4	7.073	65	118543	5.10	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	102.00%		
19) Toluene-d8	8.896	98	252534	5.01	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	100.20%		
<b>Target Compounds</b>							
3) Chloromethane	2.791	50	8298m	0.16	ug/L		
5) Methylene Chloride	4.699	49	6797	0.11	ug/L		99
9) Chloroform	6.333	83	23075	0.50	ug/L		92
10) Carbon Tetrachloride	6.504	117	30116	0.96	ug/L		87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

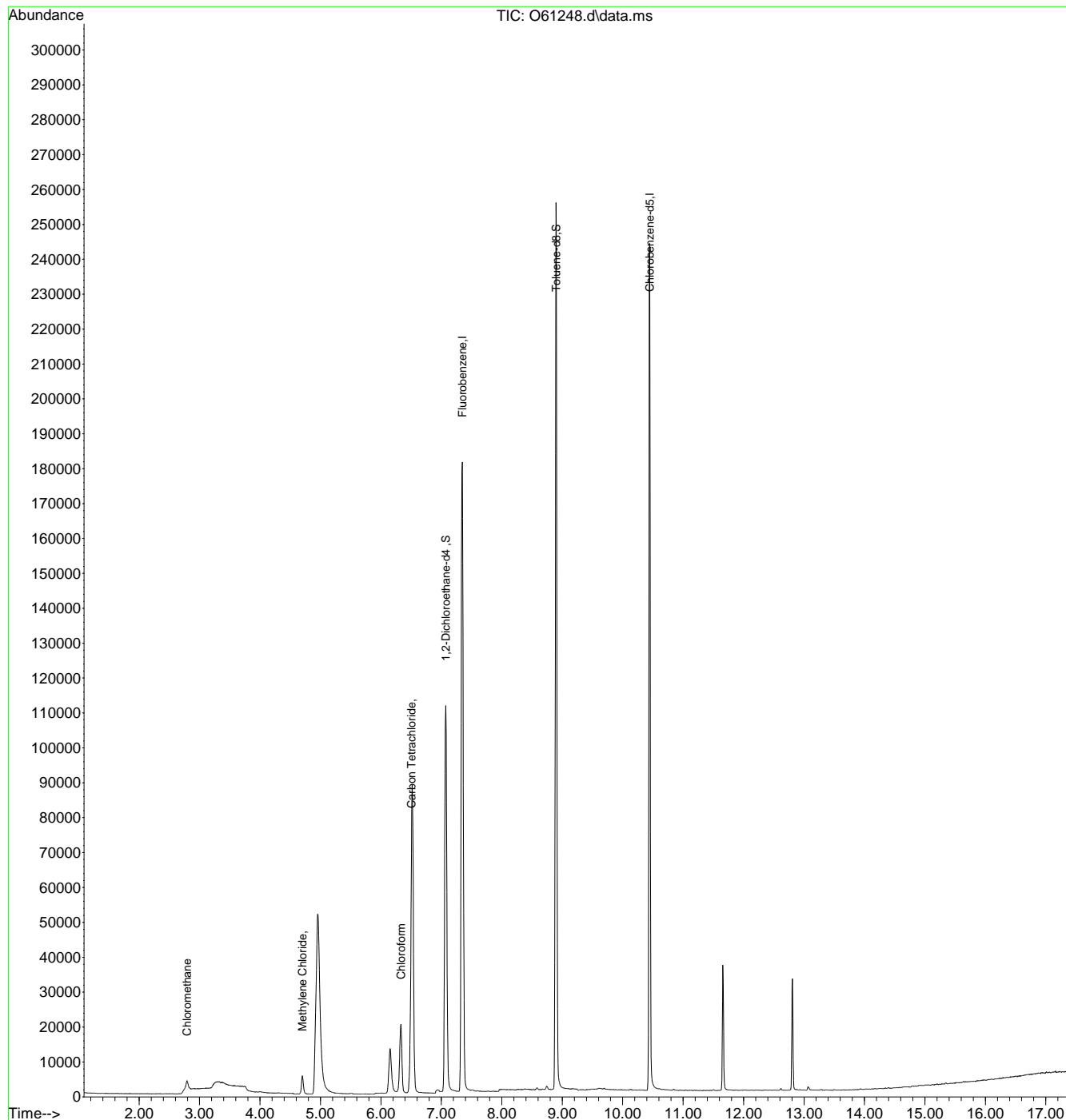
7.12  
7



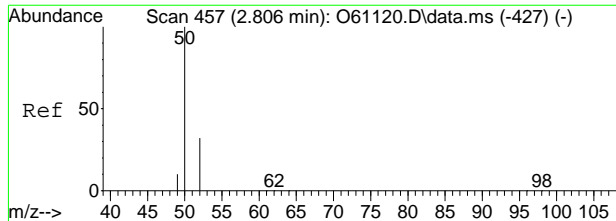
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61248.d  
 Acq On : 11 Sep 2020 10:12 pm  
 Operator : stutip  
 Sample : fa78570-2  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 02:59:13 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

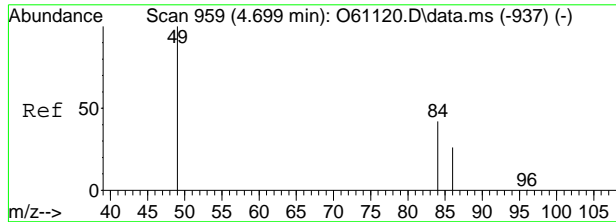
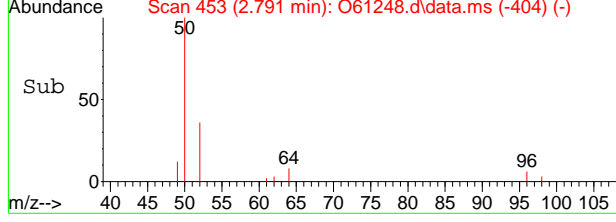
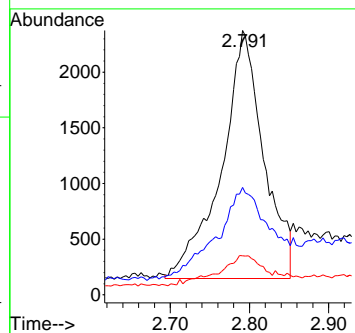
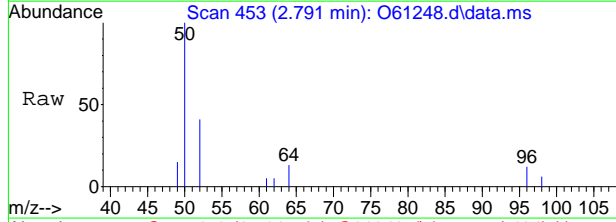


7.12  
7



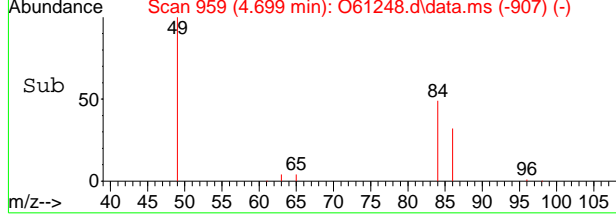
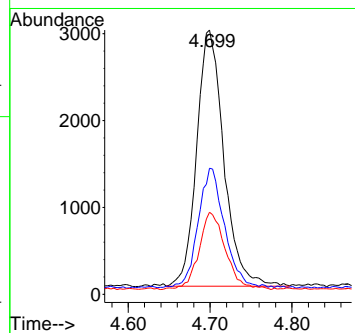
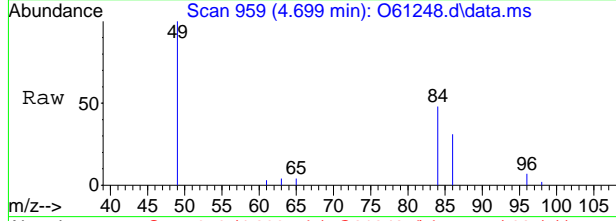
#3  
 Chloromethane  
 Concen: 0.16 ug/L m  
 RT: 2.791 min Scan# 453  
 Delta R.T. -0.016 min  
 Lab File: O61248.d  
 Acq: 11 Sep 2020 10:12 pm

Tgt Ion	Ratio	Lower	Upper
50	100		
52	40.6	7.8	47.8
49	14.8	0.0	30.5



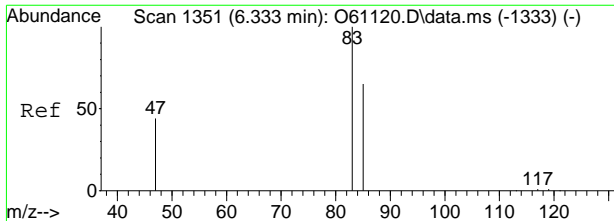
#5  
 Methylene Chloride  
 Concen: 0.11 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.004 min  
 Lab File: O61248.d  
 Acq: 11 Sep 2020 10:12 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	46.4	17.9	77.9
86	29.7	0.0	59.8



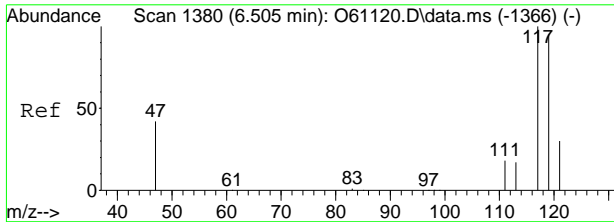
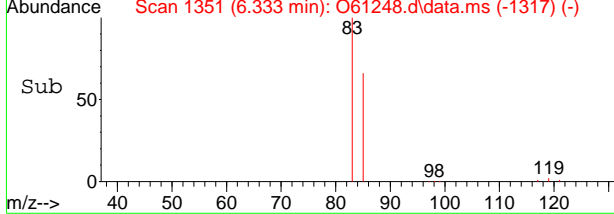
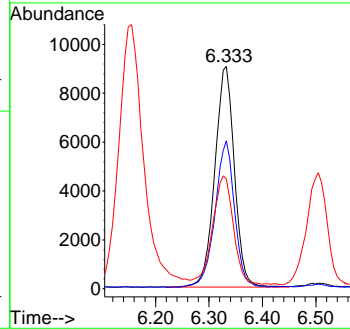
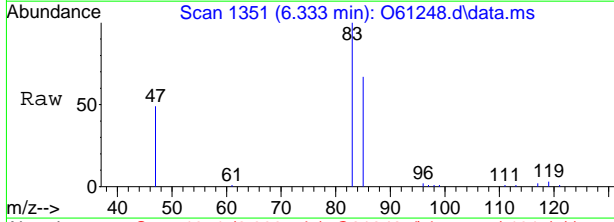
7.12  
7





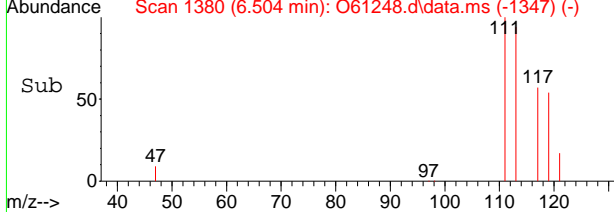
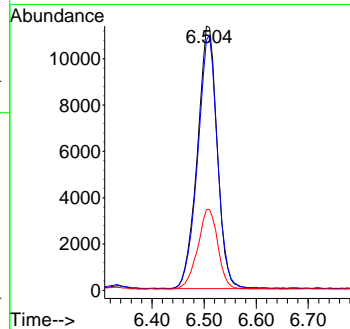
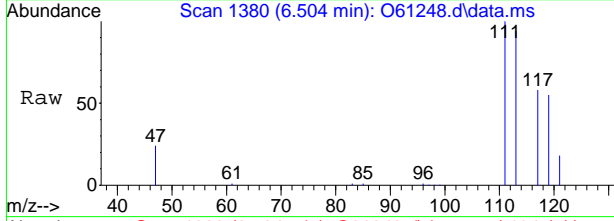
#9  
 Chloroform  
 Concen: 0.50 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61248.d  
 Acq: 11 Sep 2020 10:12 pm

Tgt Ion	Resp	Lower	Upper
83	23075		
85	66.3	33.0	93.0
47	46.6	8.1	68.1



#10  
 Carbon Tetrachloride  
 Concen: 0.96 ug/L  
 RT: 6.504 min Scan# 1380  
 Delta R.T. -0.007 min  
 Lab File: O61248.d  
 Acq: 11 Sep 2020 10:12 pm

Tgt Ion	Resp	Lower	Upper
117	30116		
119	94.5	80.9	140.9
121	30.2	4.1	64.1



7.12  
7



# Manual Integration Approval Summary

**Sample Number:** FA78570-2      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61248.D      **Analyst approved:** 09/14/20 14:11 Akari Giraldo  
**Injection Time:** 09/11/20 22:12      **Supervisor approved:** 09/14/20 14:15 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.79	Poor instrument integration

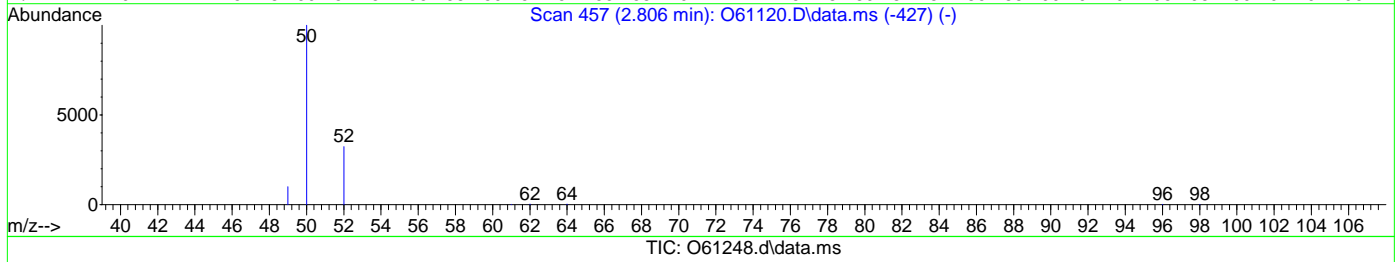
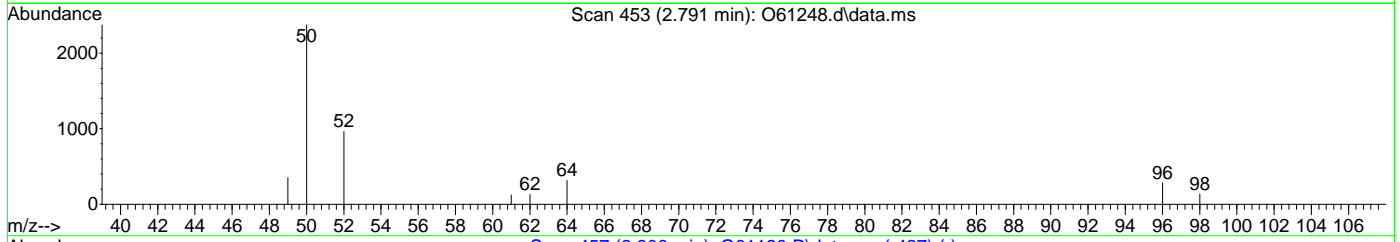
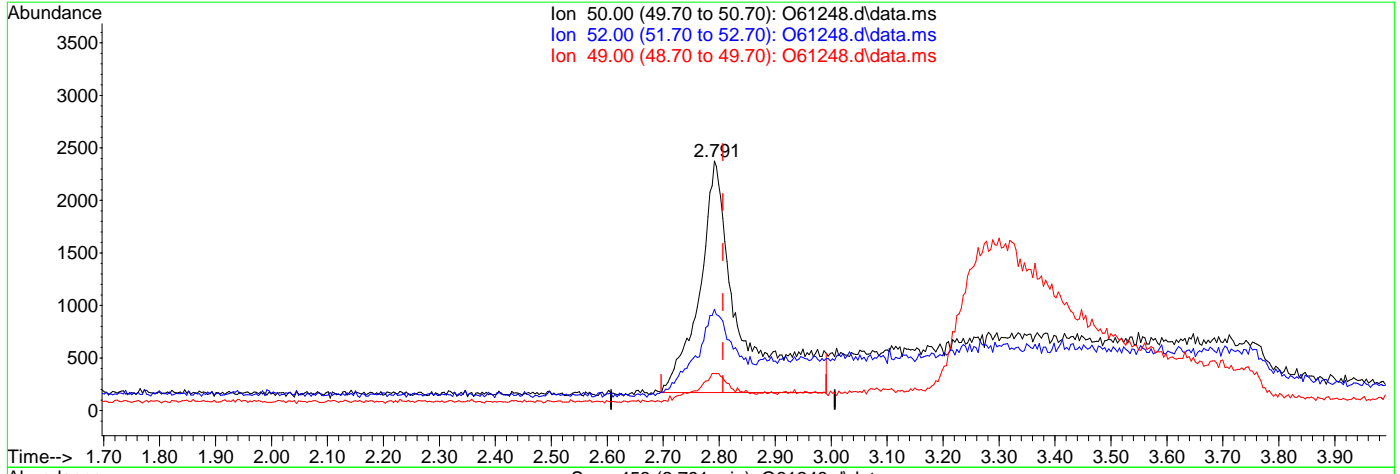
7.1.2.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61248.d  
Acq On : 11 Sep 2020 10:12 pm  
Operator : stutip  
Sample : fa78570-2  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 02:55:20 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(3) Chloromethane  
2.791min (-0.016) 0.22ug/L  
response 11171  
lon Exp% Act%  
50.00 100 100  
52.00 27.80 35.71  
49.00 10.50 12.30  
0.00 0.00 0.00

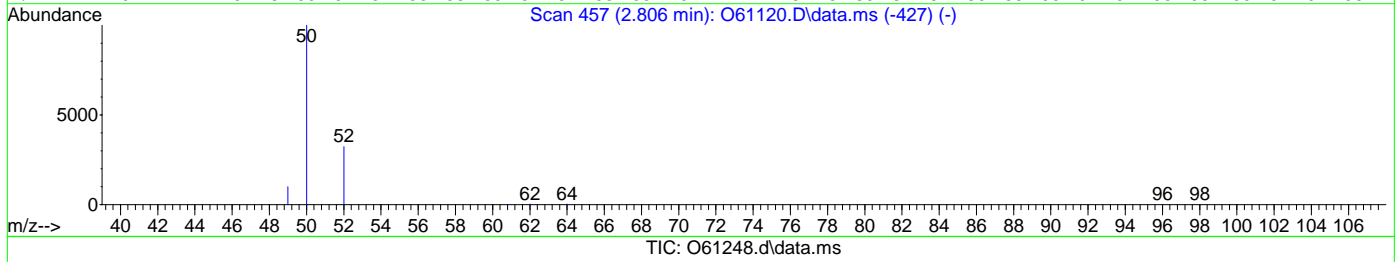
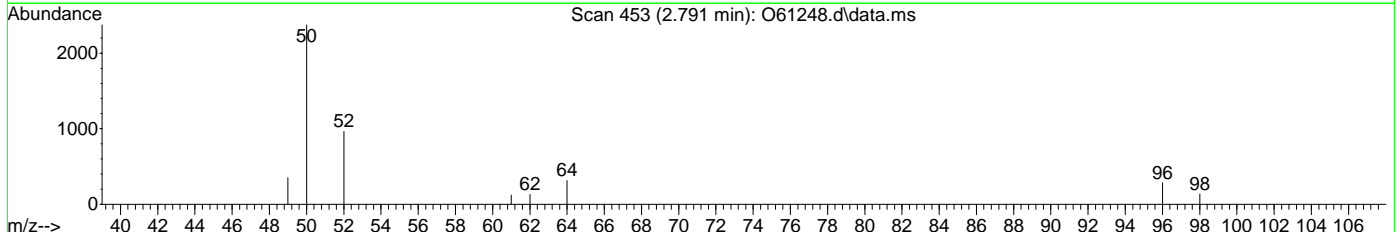
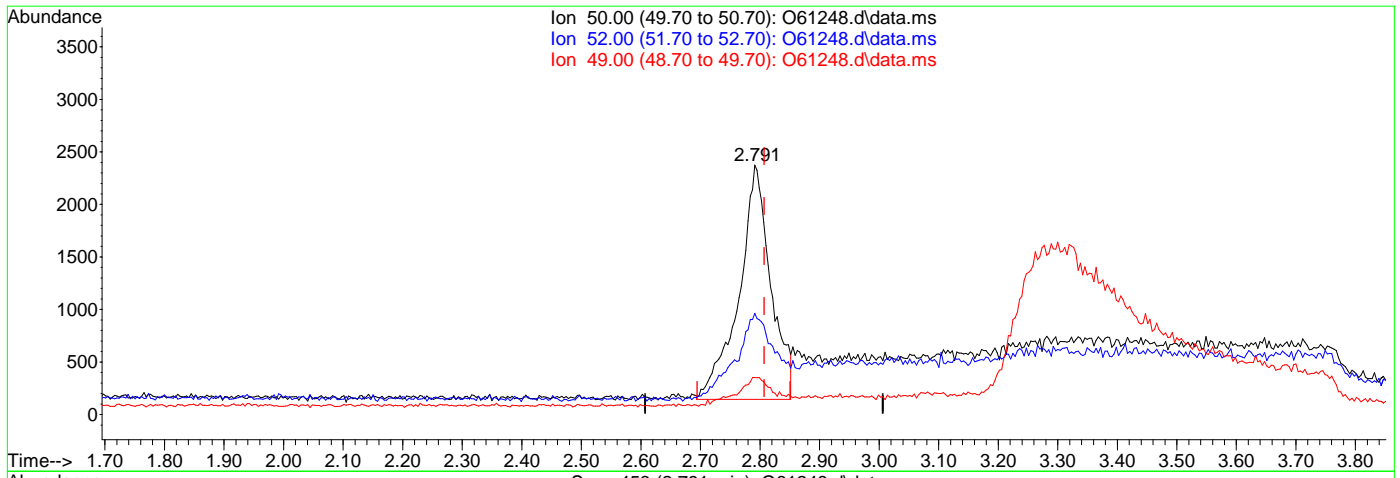


7.1.22  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61248.d  
Acq On : 11 Sep 2020 10:12 pm  
Operator : stutip  
Sample : fa78570-2  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 02:55:20 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(3) Chloromethane  
2.791min (-0.016) 0.16ug/L m  
response 8298  
lon Exp% Act%  
50.00 100 100  
52.00 27.80 40.61  
49.00 10.50 14.81  
0.00 0.00 0.00



7.1.2.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61249.d  
Acq On : 11 Sep 2020 10:32 pm  
Operator : stutip  
Sample : fa78570-3  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 02:59:33 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	289291	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	227658	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	118632	5.08	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	101.60%	
19) Toluene-d8	8.900	98	253035	4.93	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.60%	
Target Compounds						
5) Methylene Chloride	4.696	49	6574	0.10	ug/L	94
9) Chloroform	6.327	83	2571	0.06	ug/L #	36
-----						

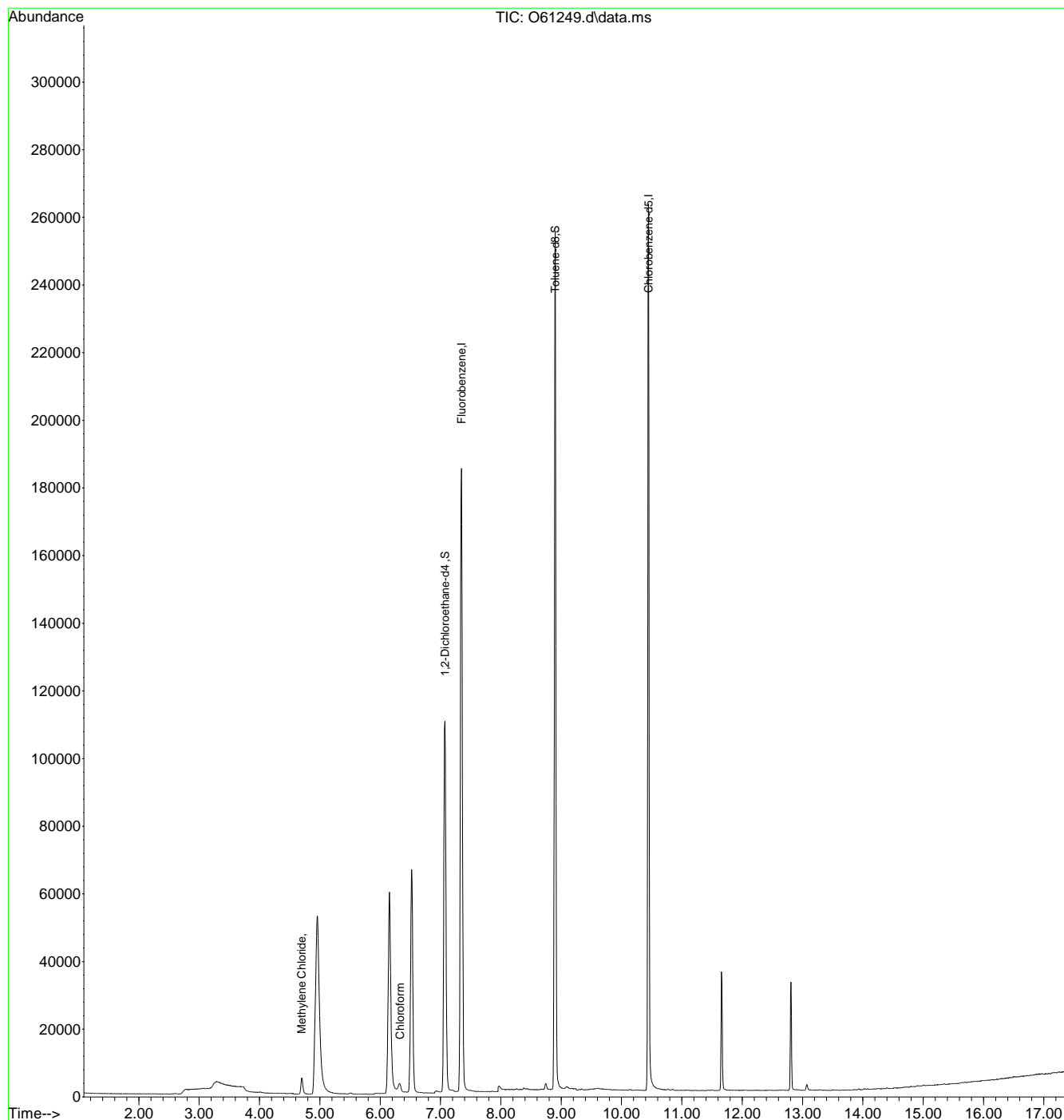
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61249.d  
 Acq On : 11 Sep 2020 10:32 pm  
 Operator : stutip  
 Sample : fa78570-3  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

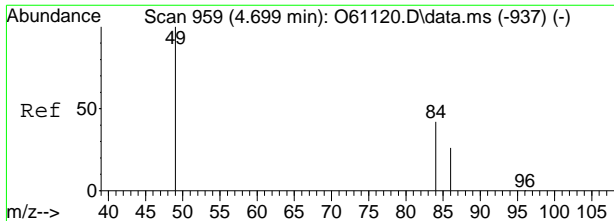
Quant Time: Sep 14 02:59:33 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.3  
7

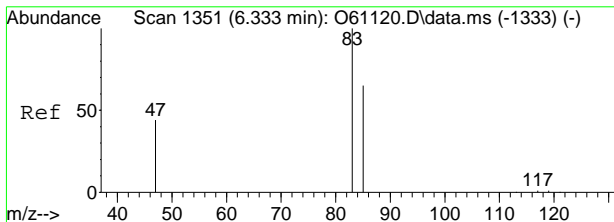
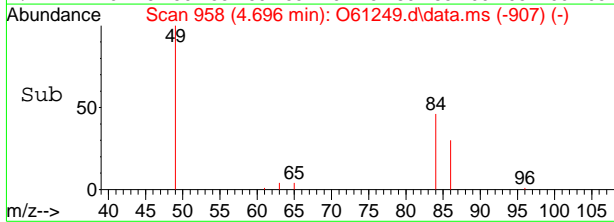
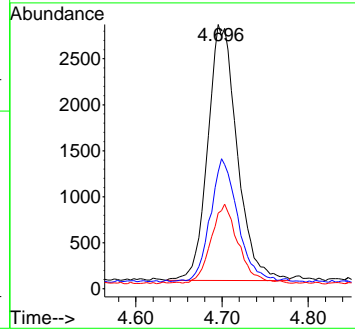
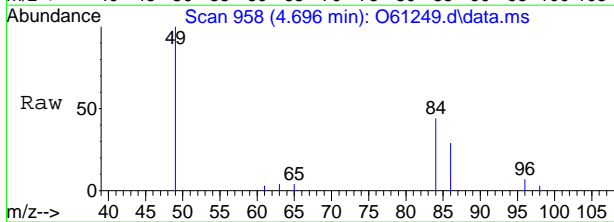






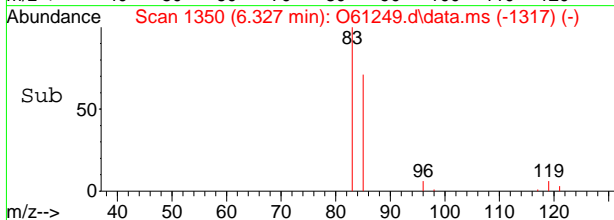
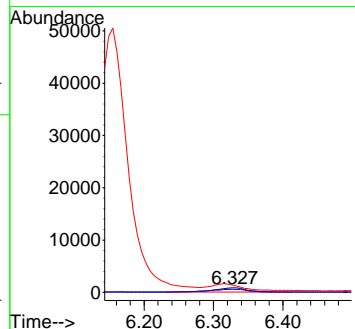
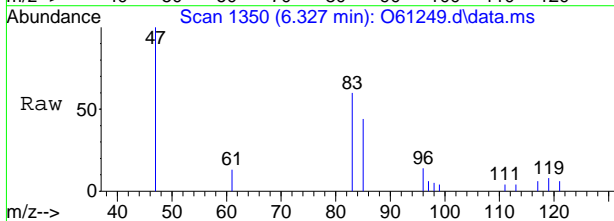
#5  
 Methylene Chloride  
 Concen: 0.10 ug/L  
 RT: 4.696 min Scan# 958  
 Delta R.T. -0.007 min  
 Lab File: O61249.d  
 Acq: 11 Sep 2020 10:32 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	42.7	17.9	77.9
86	27.4	0.0	59.8



#9  
 Chloroform  
 Concen: 0.06 ug/L  
 RT: 6.327 min Scan# 1350  
 Delta R.T. -0.006 min  
 Lab File: O61249.d  
 Acq: 11 Sep 2020 10:32 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.6	33.0	93.0
47	132.6	8.1	68.1#



7.1.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61250.d  
Acq On : 11 Sep 2020 10:53 pm  
Operator : stutip  
Sample : fa78570-4  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 14 02:59:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	279323	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	218320	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	115325	5.11	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	102.20%		
19) Toluene-d8	8.896	98	243258	4.94	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.80%		
Target Compounds							
5) Methylene Chloride	4.699	49	6277	0.10	ug/L		99
9) Chloroform	6.333	83	21056	0.47	ug/L		93
10) Carbon Tetrachloride	6.510	117	15916	0.52	ug/L		91
-----							

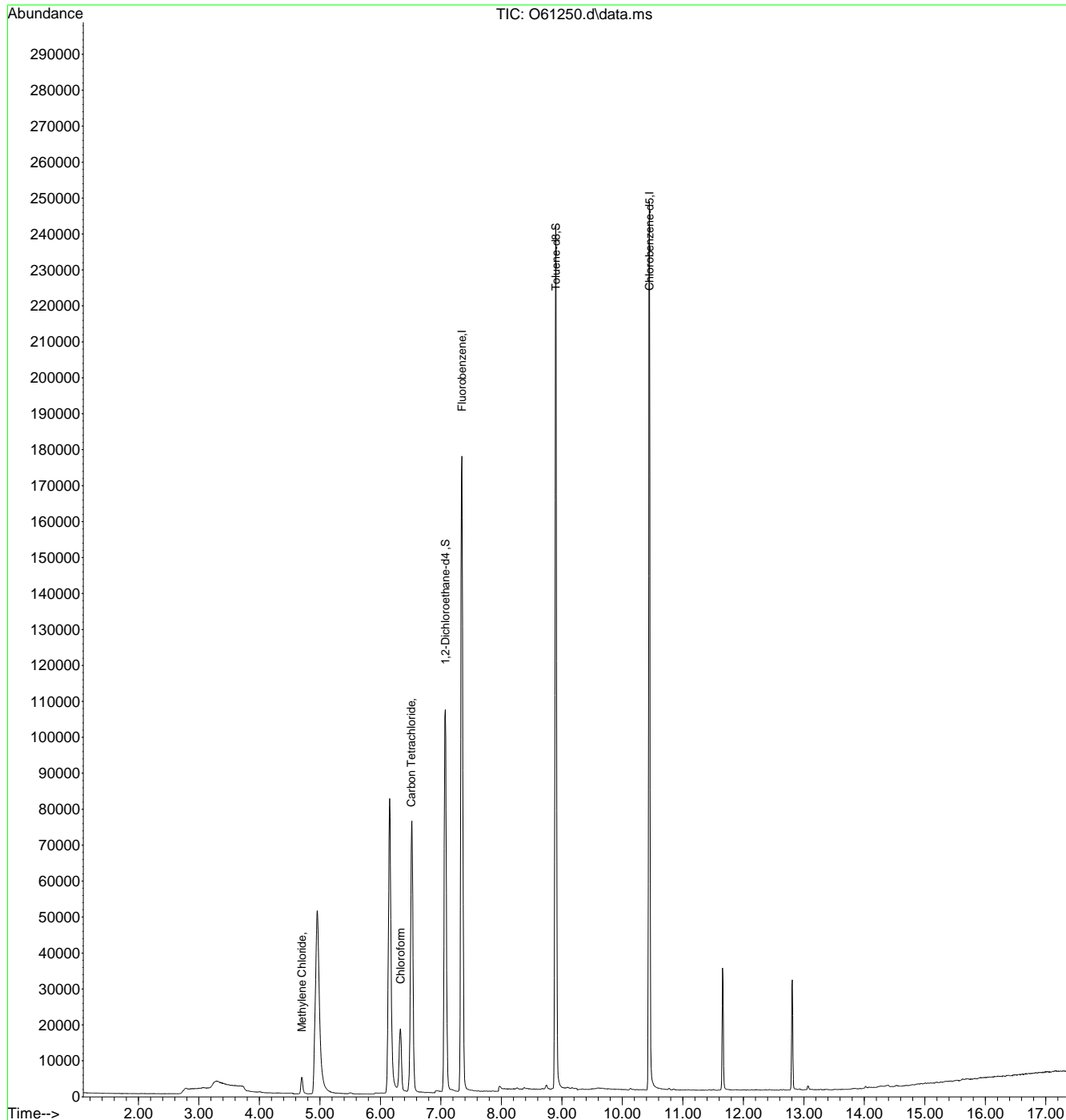
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.14  
7

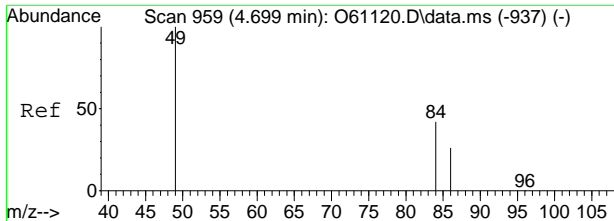
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61250.d  
Acq On : 11 Sep 2020 10:53 pm  
Operator : stutip  
Sample : fa78570-4  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 14 02:59:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

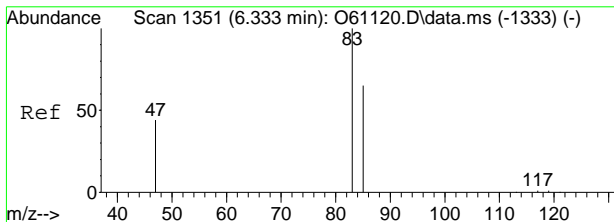
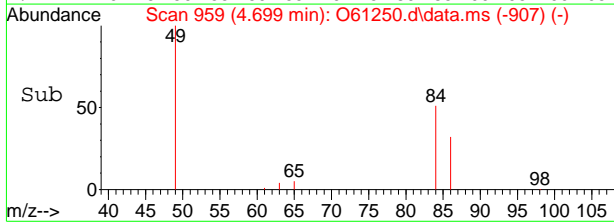
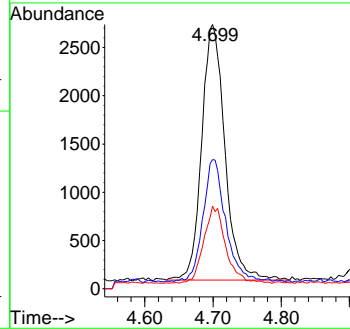
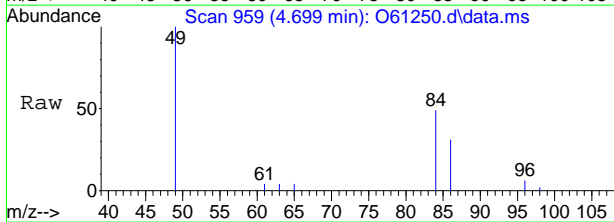


7.1.4  
7



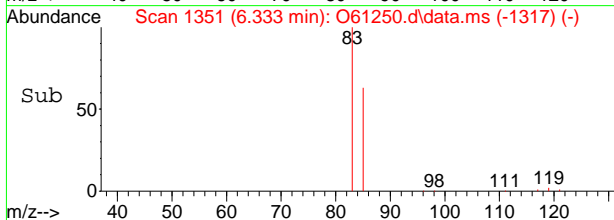
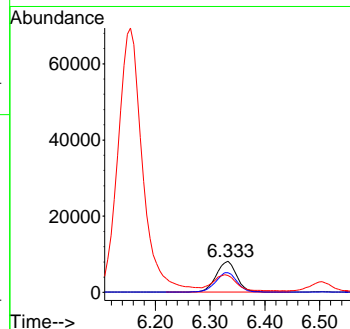
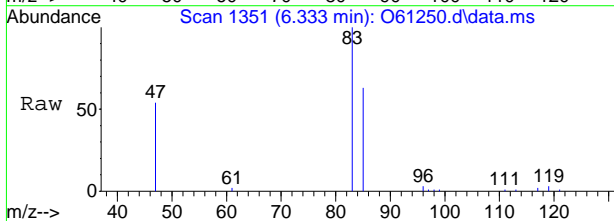
#5  
 Methylene Chloride  
 Concen: 0.10 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.004 min  
 Lab File: O61250.d  
 Acq: 11 Sep 2020 10:53 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	47.5	17.9	77.9
86	30.1	0.0	59.8



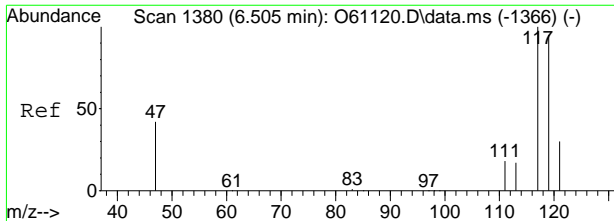
#9  
 Chloroform  
 Concen: 0.47 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61250.d  
 Acq: 11 Sep 2020 10:53 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	33.0	93.0
47	49.2	8.1	68.1



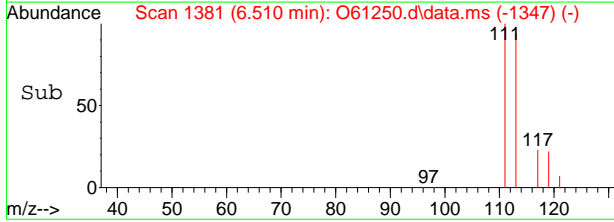
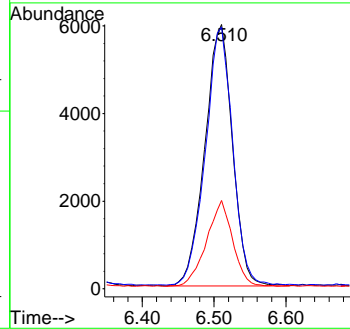
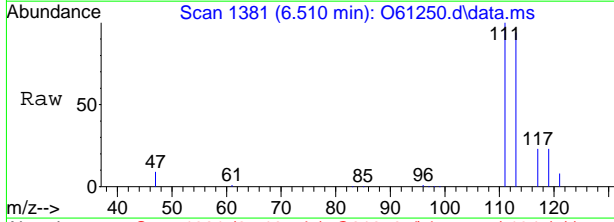
7.14  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.52 ug/L  
 RT: 6.510 min Scan# 1381  
 Delta R.T. -0.001 min  
 Lab File: O61250.d  
 Acq: 11 Sep 2020 10:53 pm

Tgt Ion	Resp	Lower	Upper
117	15916		
117	100		
119	98.7	80.9	140.9
121	32.8	4.1	64.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61251.d  
Acq On : 11 Sep 2020 11:13 pm  
Operator : stutip  
Sample : fa78570-5  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 03:00:13 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	278097	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	218871	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	114758	5.11	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	102.20%	
19) Toluene-d8	8.900	98	243426	4.93	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.60%	
Target Compounds						
5) Methylene Chloride	4.707	49	5807	0.10	ug/L	96
9) Chloroform	6.333	83	20631	0.47	ug/L	89
10) Carbon Tetrachloride	6.511	117	14691	0.49	ug/L	87
-----						

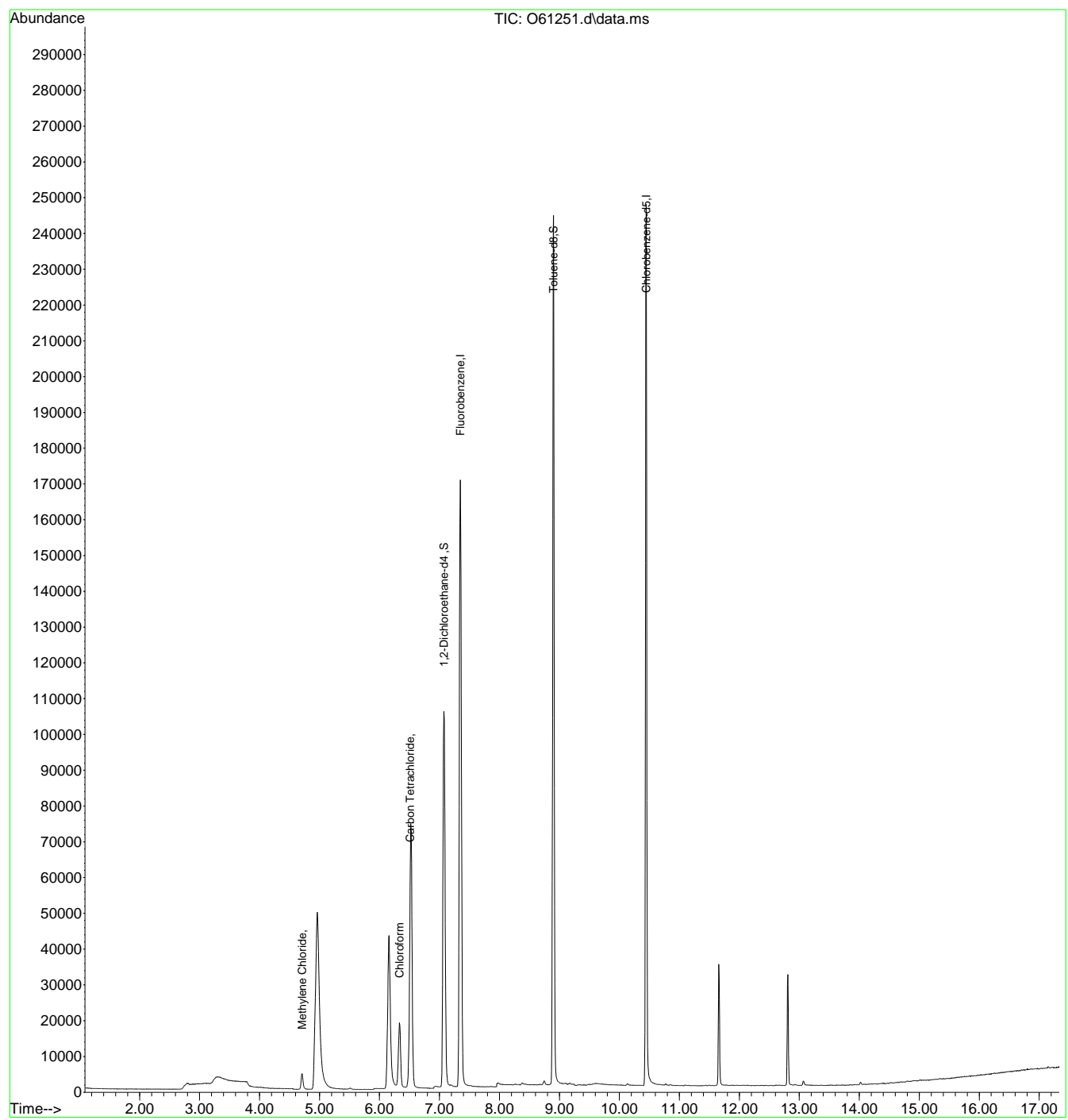
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.15  
7

Quantitation Report (QT Reviewed)

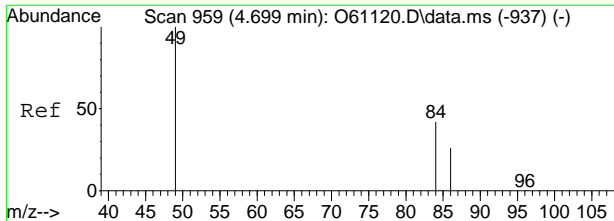
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61251.d  
Acq On : 11 Sep 2020 11:13 pm  
Operator : stutip  
Sample : fa78570-5  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 03:00:13 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



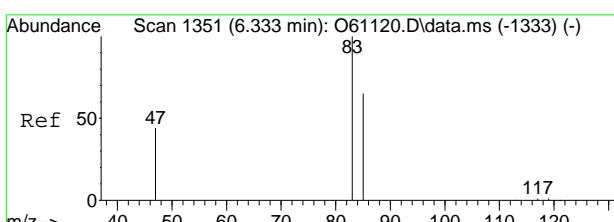
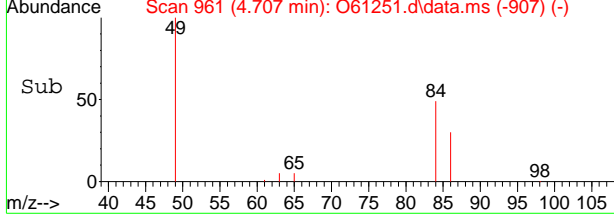
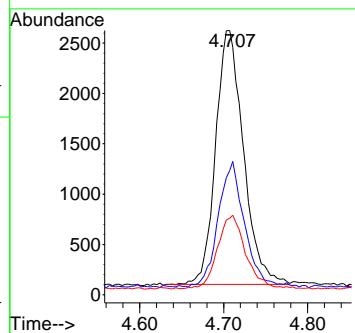
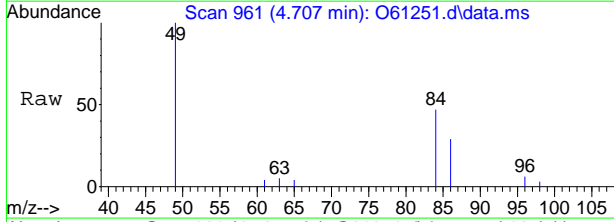
7.1.5  
7





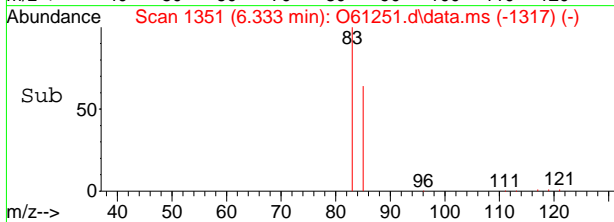
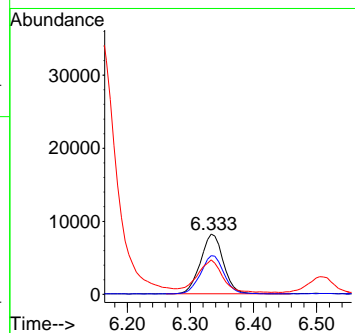
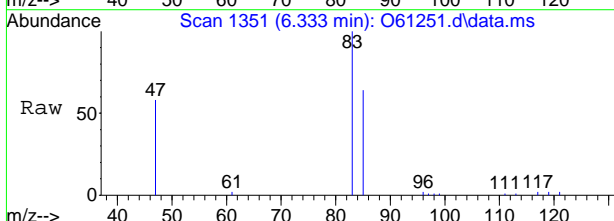
#5  
 Methylene Chloride  
 Concen: 0.10 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61251.d  
 Acq: 11 Sep 2020 11:13 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	45.5	17.9	77.9
86	27.5	0.0	59.8



#9  
 Chloroform  
 Concen: 0.47 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61251.d  
 Acq: 11 Sep 2020 11:13 pm

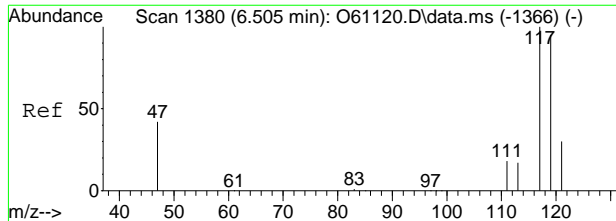
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	33.0	93.0
47	53.8	8.1	68.1



7.15  
7

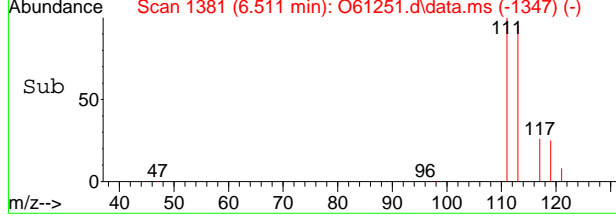
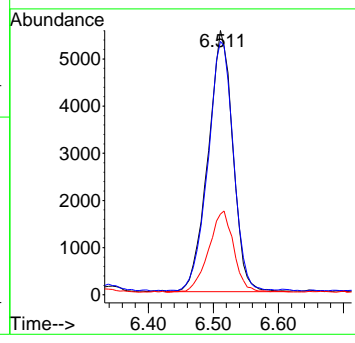
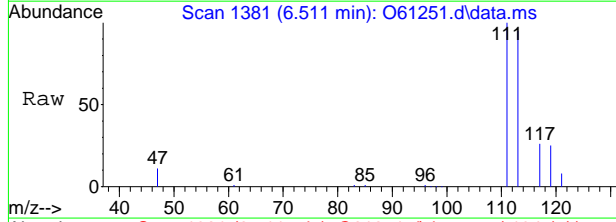






#10  
 Carbon Tetrachloride  
 Concen: 0.49 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. -0.000 min  
 Lab File: O61251.d  
 Acq: 11 Sep 2020 11:13 pm

Tgt Ion	Resp	Lower	Upper
117	14691		
119	95.3	80.9	140.9
121	29.9	4.1	64.1



7.1.5  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61245.D  
 Acq On : 11 Sep 2020 9:11 pm  
 Operator : stutip  
 Sample : mb Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 13:54:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	333237	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	252324	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	134168	4.98	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.60%	
19) Toluene-d8	8.896	98	292650	5.14	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	102.80%	
Target Compounds						
5) Methylene Chloride	4.699	49	15614	0.22	ug/L	Qvalue 97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

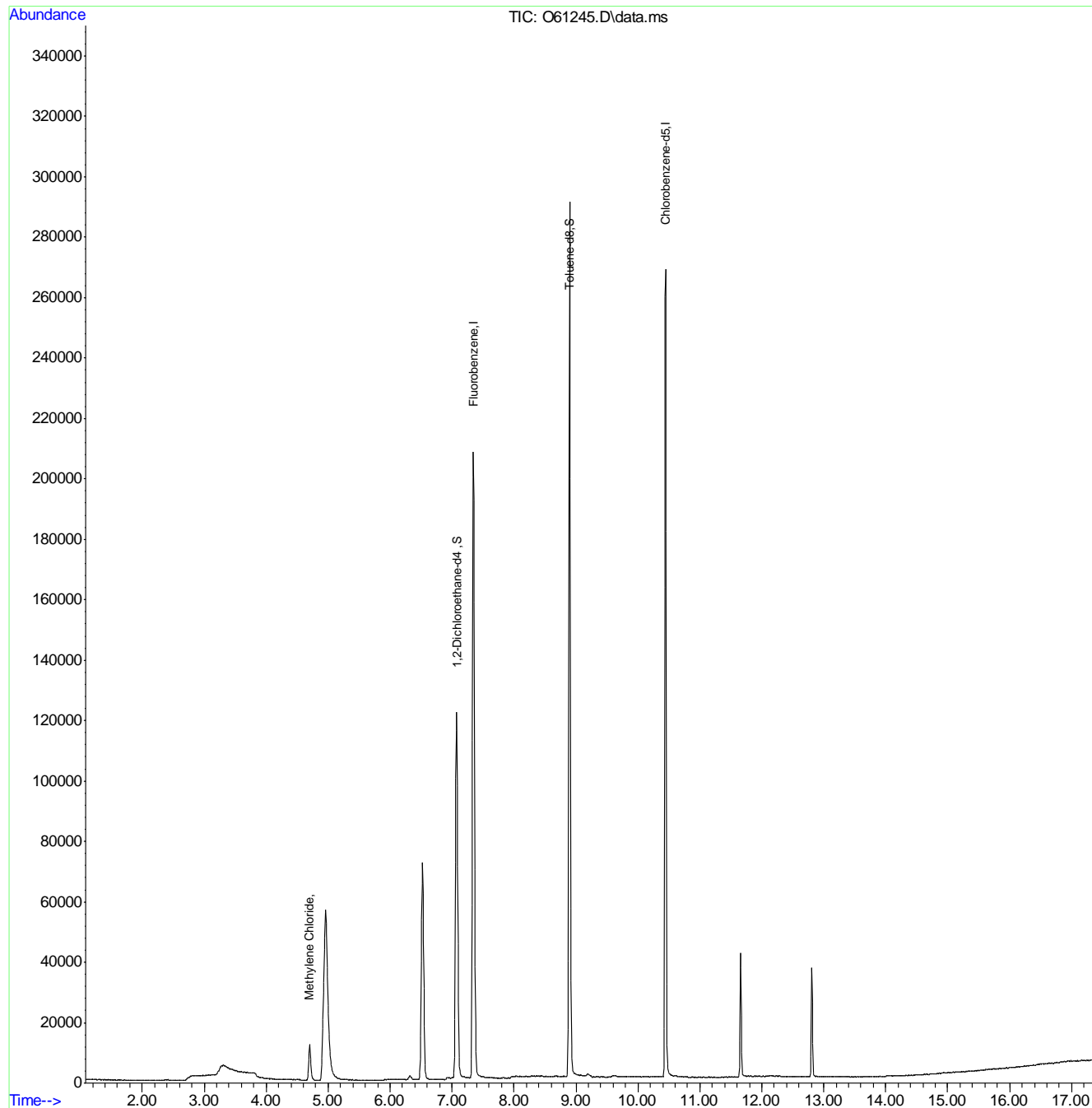
7.2.1  
7

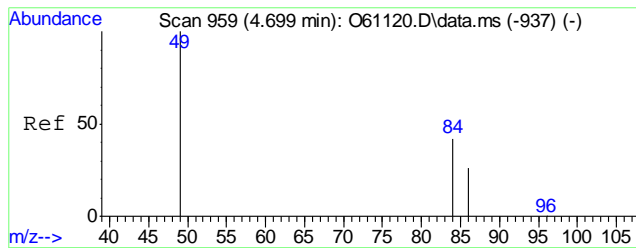
## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
Data File : O61245.D  
Acq On : 11 Sep 2020 9:11 pm  
Operator : stutip  
Sample : mb  
Misc : MS47184,VO2357,,,,,  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

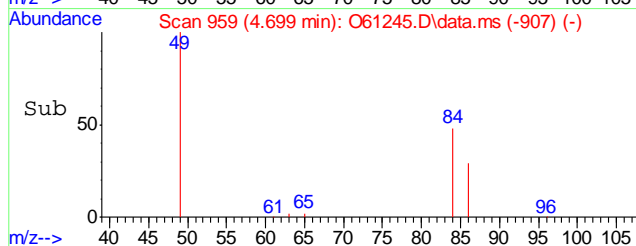
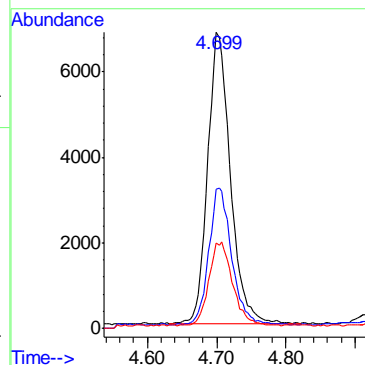
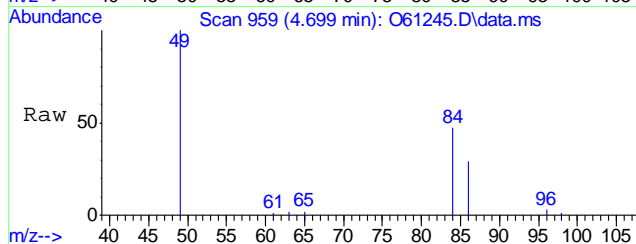
Quant Time: Sep 14 13:54:26 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration





#5  
 Methylene Chloride  
 Concen: 0.22 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.004 min  
 Lab File: O61245.D  
 Acq: 11 Sep 2020 9:11 pm

Tgt Ion	Resp	Lower	Upper
49	15614		
84	46.3	17.9	77.9
86	28.1	0.0	59.8



7.2.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61244.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : stutip  
 Sample : bs Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 13:54:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	7.346	96	355590	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.441	117	275951	5.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
13) 1,2-Dichloroethane-d4	7.074	65	138797	4.83	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	96.60%	
19) Toluene-d8	8.896	98	307529	4.94	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.80%	
<b>Target Compounds</b>						
						Qvalue
2) Vinyl Chloride	2.904	62	184977	4.63	ug/L	97
3) Chloromethane	2.803	50	246213	4.16	ug/L	94
4) 1,1-Dichloroethene	4.089	61	292678	5.96	ug/L	91
5) Methylene Chloride	4.699	49	403654	5.24	ug/L	99
6) trans-1,2-Dichloroethene	4.865	61	328288	5.79	ug/L	85
7) 1,1-Dichloroethane	5.510	63	373074	5.66	ug/L	100
8) cis-1,2-Dichloroethene	6.066	96	182191	5.59	ug/L	84
9) Chloroform	6.327	83	309367	5.45	ug/L	97
10) Carbon Tetrachloride	6.505	117	226982	5.87	ug/L	87
11) 1,1,1-Trichloroethane	6.576	97	251262	5.75	ug/L	94
12) Benzene	6.937	78	638288m	5.82	ug/L	
14) 1,2-Dichloroethane	7.139	62	292274	5.45	ug/L	90
15) Trichloroethene	7.512	95	190565	5.70	ug/L	90
16) 1,2-Dichloropropane	8.040	63	209797	5.72	ug/L	93
17) cis-1,3-Dichloropropene	8.707	75	217164	5.71	ug/L	97
20) trans-1,3-Dichloropropene	9.343	75	208721	5.75	ug/L	96
21) Tetrachloroethene	9.337	166	177286	5.86	ug/L	94
22) 1,4-Dichlorobenzene	12.821	146	362694	5.67	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	60252	5.28	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

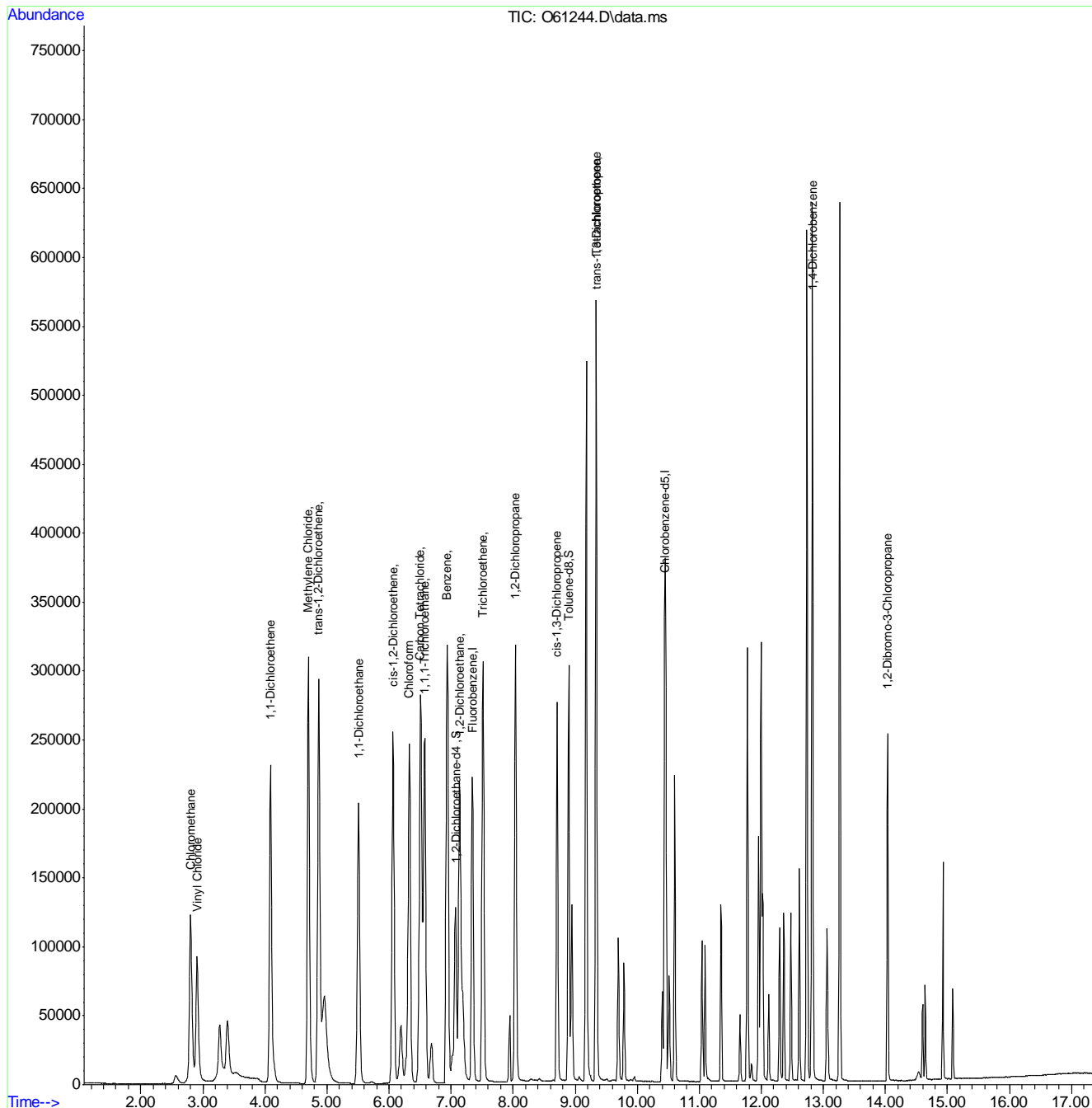
7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61244.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:54:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.3.1  
7

# Manual Integration Approval Summary

**Sample Number:** VO2357-BS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61244.D      **Analyst approved:** 09/14/20 14:00 Akari Giraldo  
**Injection Time:** 09/11/20 20:51      **Supervisor approved:** 09/14/20 14:12 Melissa Mangual

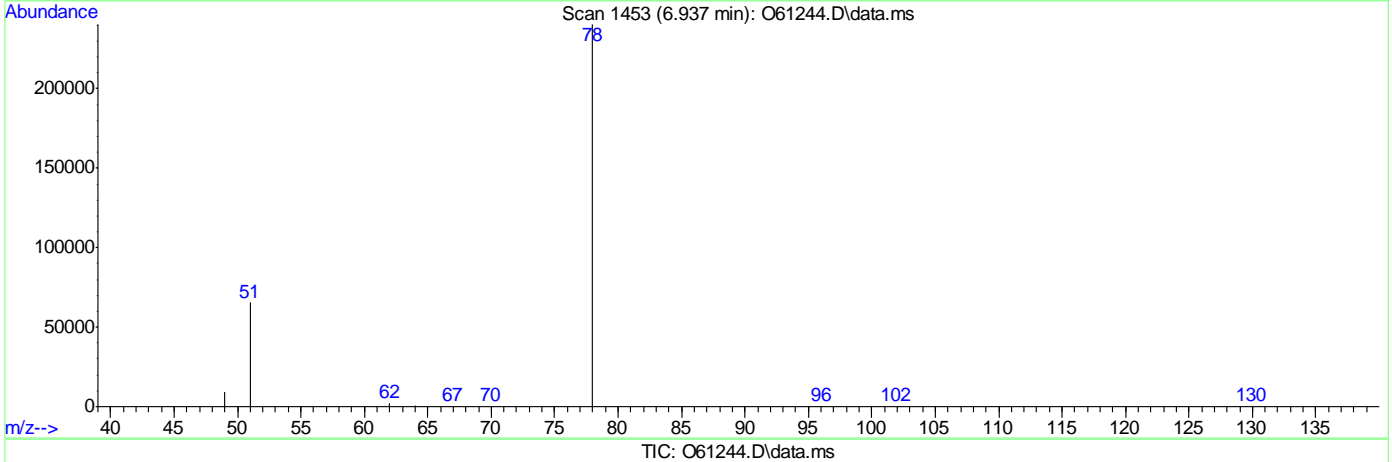
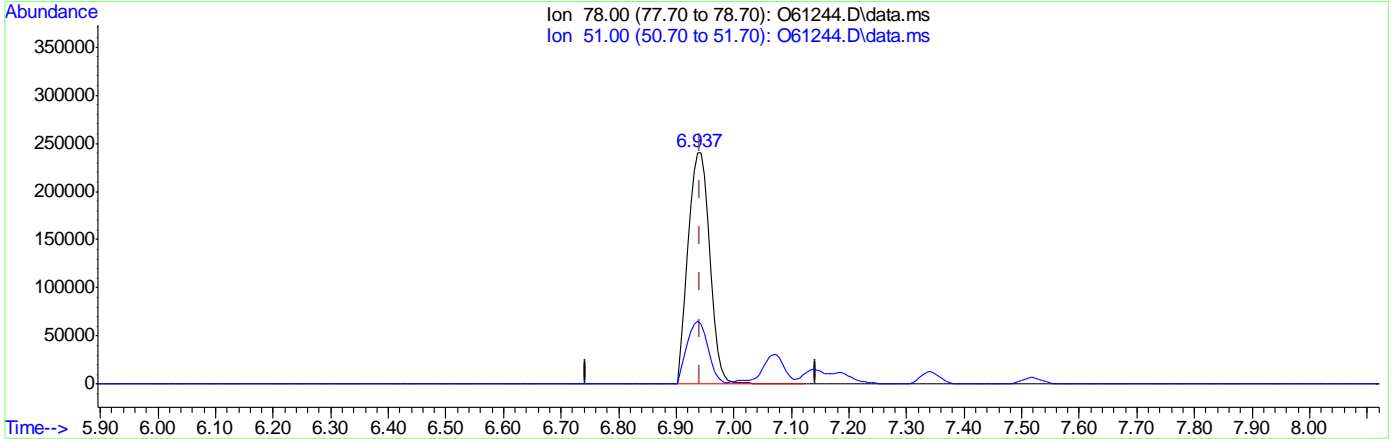
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.3.1.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61244.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : stutip  
 Sample : bs Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 13:53:53 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.937min (-0.006) 5.86ug/L  
 response 642571

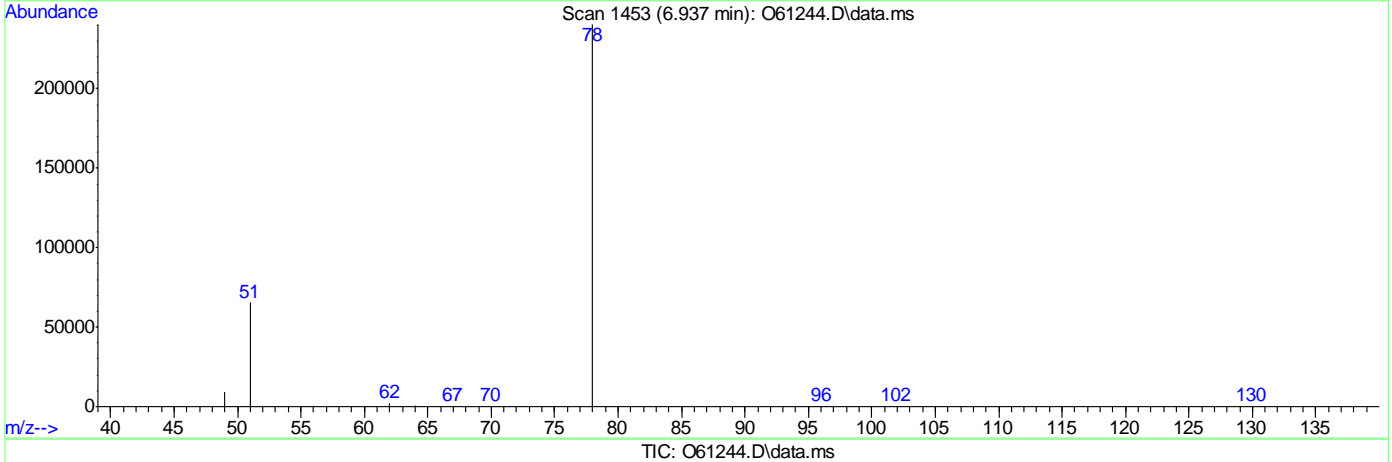
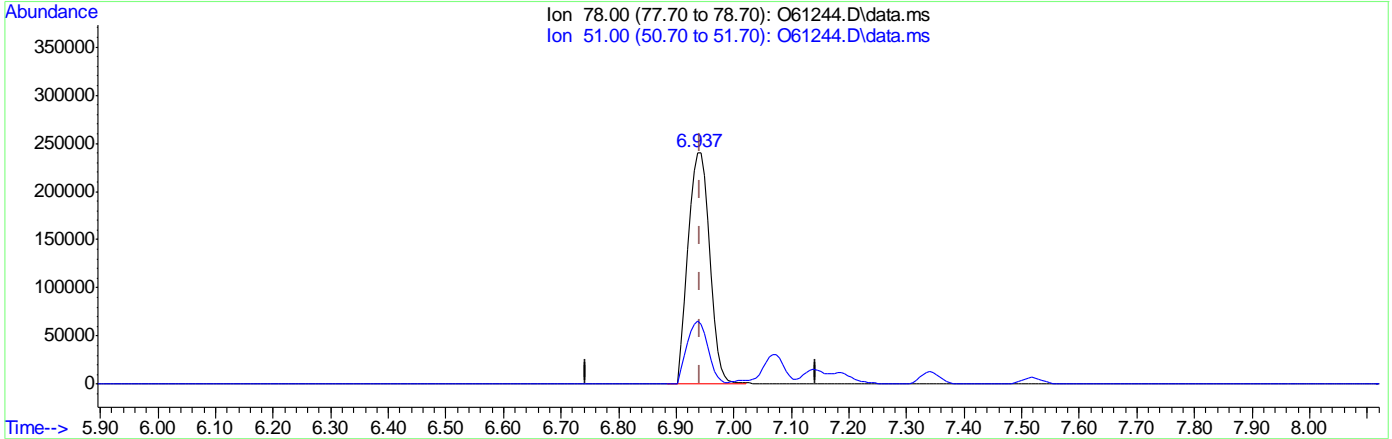
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.20
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61244.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : stutip  
 Sample : bs Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 13:53:53 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.937min (-0.006) 5.82ug/L m  
 response 638288

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78570-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	260902	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	207790	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	105641m	5.01	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	100.20%		
19) Toluene-d8	8.900	98	217443	4.64	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	161381	5.56	ug/L		97
3) Chloromethane	2.795	50	235272	5.53	ug/L		95
4) 1,1-Dichloroethene	4.085	61	201580	5.59	ug/L		91
5) Methylene Chloride	4.699	49	297986	5.28	ug/L		97
6) trans-1,2-Dichloroethene	4.865	61	217802	5.24	ug/L		84
7) 1,1-Dichloroethane	5.506	63	250952	5.19	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	114249	4.78	ug/L #		82
9) Chloroform	6.327	83	204254	4.91	ug/L		95
10) Carbon Tetrachloride	6.505	117	140070	4.94	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	158474	4.94	ug/L		92
12) Benzene	6.937	78	415260m	5.16	ug/L		
14) 1,2-Dichloroethane	7.139	62	192331	4.89	ug/L		93
15) Trichloroethene	7.512	95	116310	4.74	ug/L		89
16) 1,2-Dichloropropane	8.043	63	139205	5.17	ug/L		95
17) cis-1,3-Dichloropropene	8.711	75	119234	4.27	ug/L		100
20) trans-1,3-Dichloropropene	9.343	75	116691	4.27	ug/L		99
21) Tetrachloroethene	9.343	166	116388	5.12	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	240795	5.00	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.038	75	34371	4.03	ug/L		90

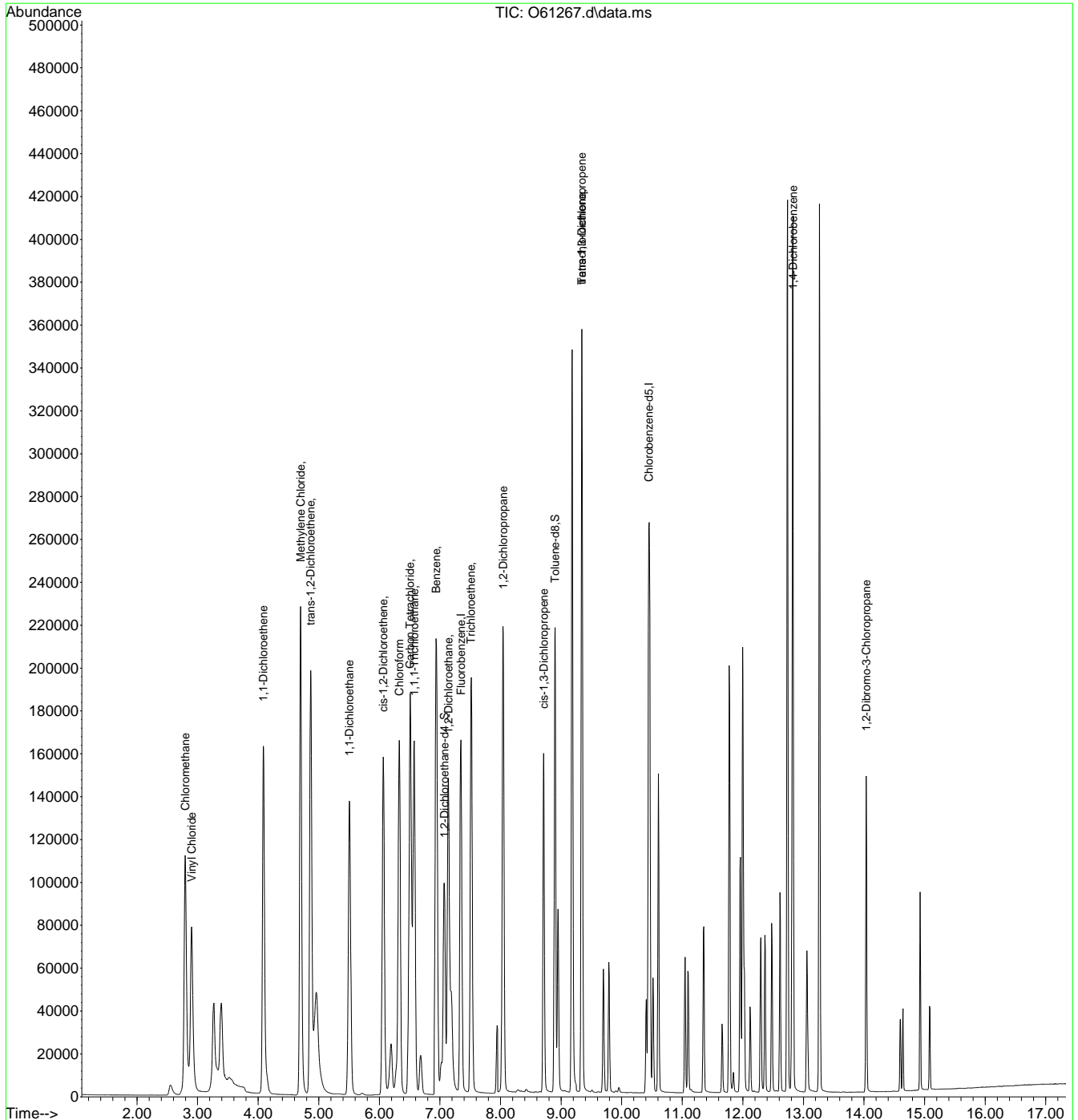
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78570-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.4.1  
7

# Manual Integration Approval Summary

**Sample Number:** FA78570-1MS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61267.D      **Analyst approved:** 09/15/20 20:03 Edessa Sumagaysay  
**Injection Time:** 09/12/20 04:37      **Supervisor approved:** 09/16/20 09:18 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloroethane-D4	17060-07-0		7.07	Overlapping peak

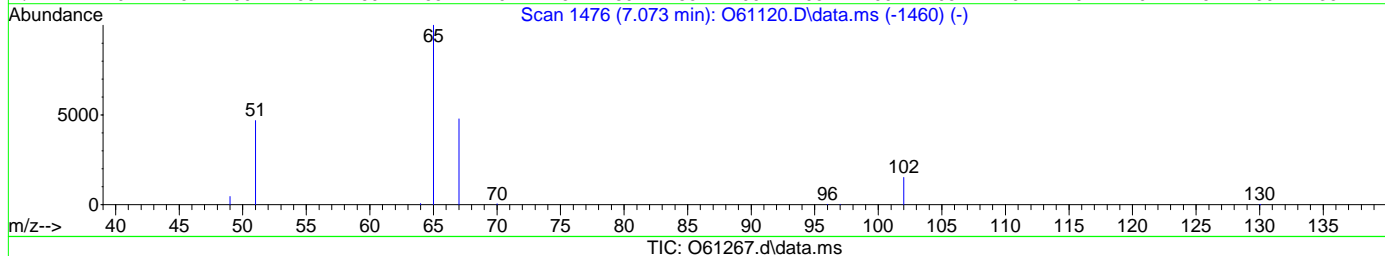
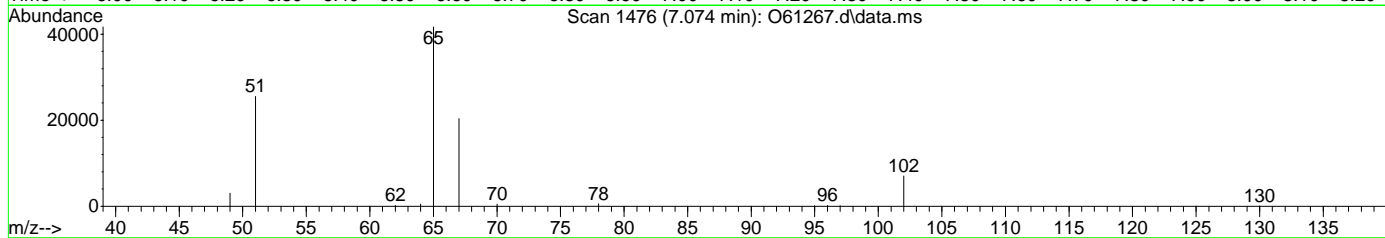
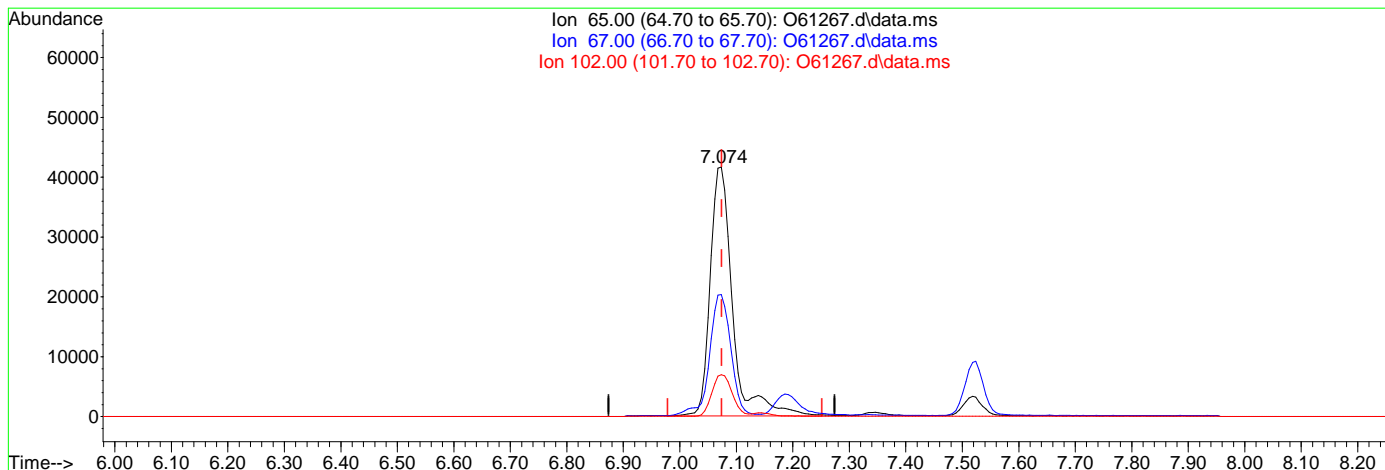
7.4.1.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78571-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:13:47 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.074min (-0.000) 5.46ug/L

response 115043

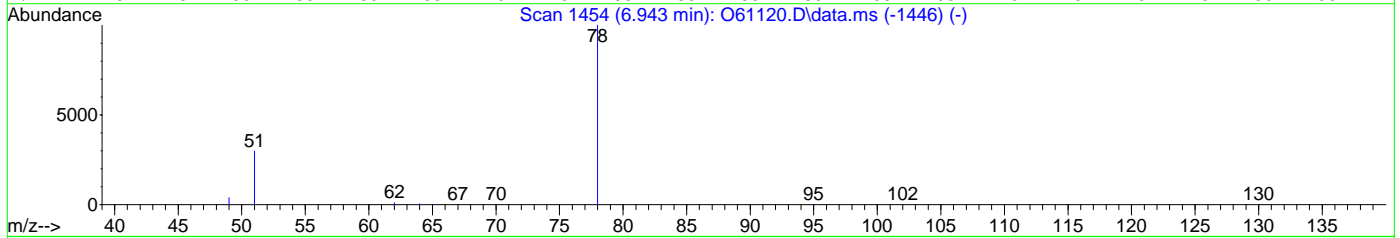
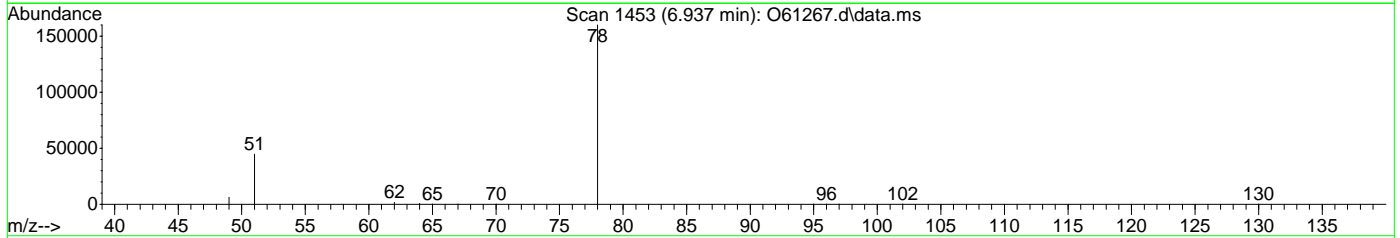
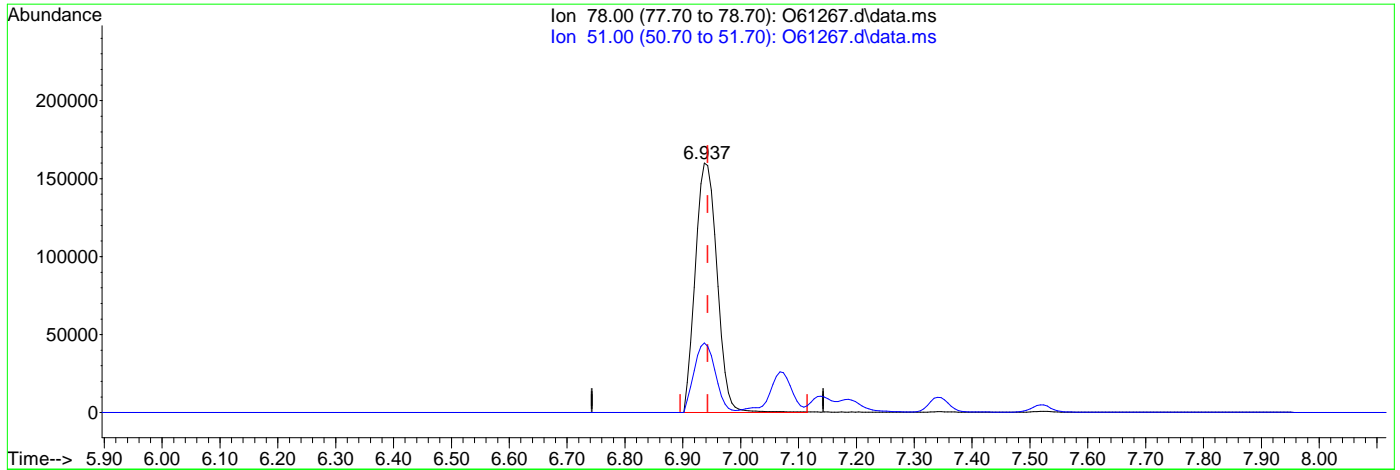
Ion	Exp%	Act%
65.00	100	100
67.00	53.50	48.67
102.00	16.10	16.66
0.00	0.00	0.00

7.4.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78571-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.21ug/L

response 419318

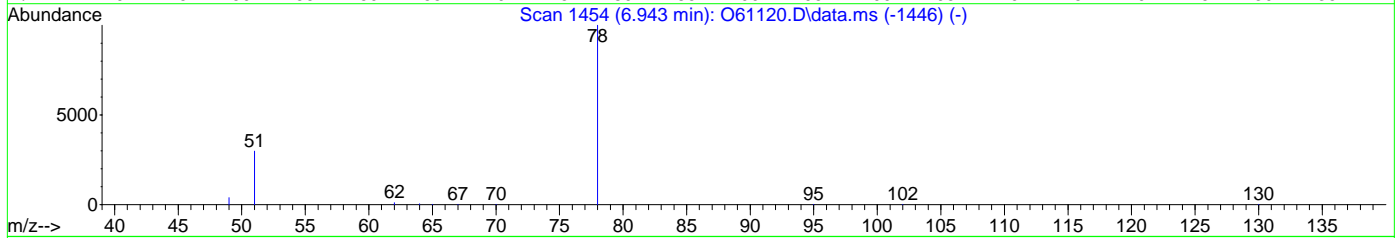
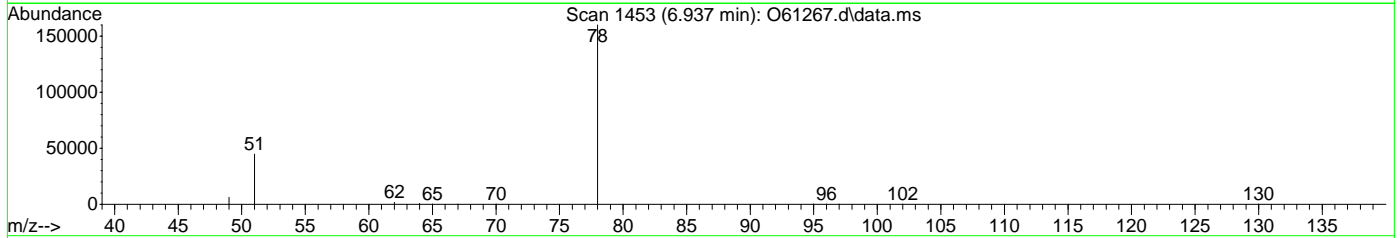
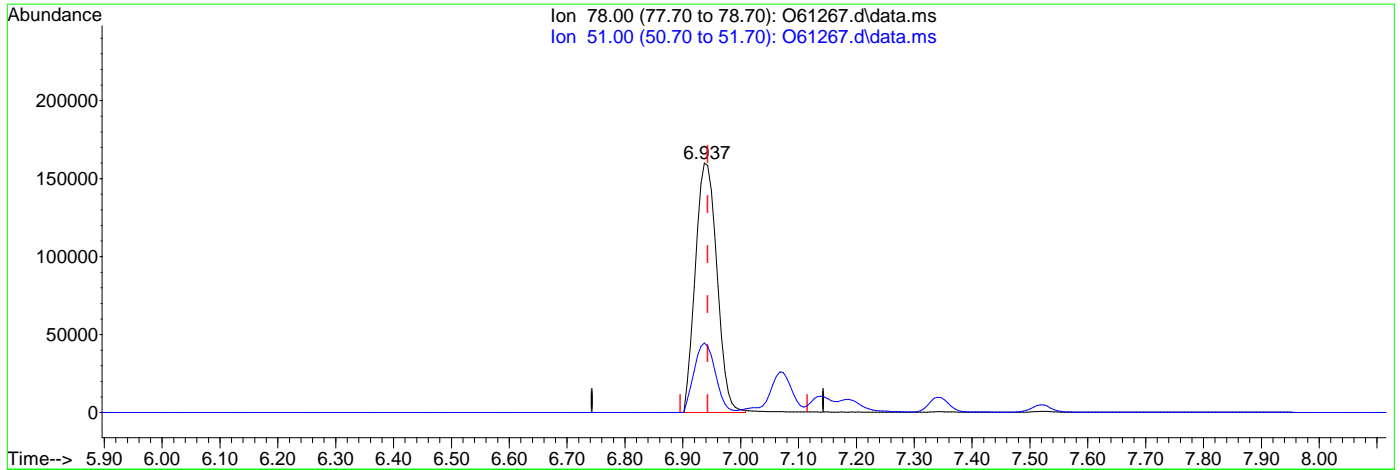
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.91
0.00	0.00	0.00
0.00	0.00	0.00

7.4.1.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78571-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61267.d\data.ms

(12) Benzene ( )

6.937min (-0.006) 5.16ug/L m

response 415260

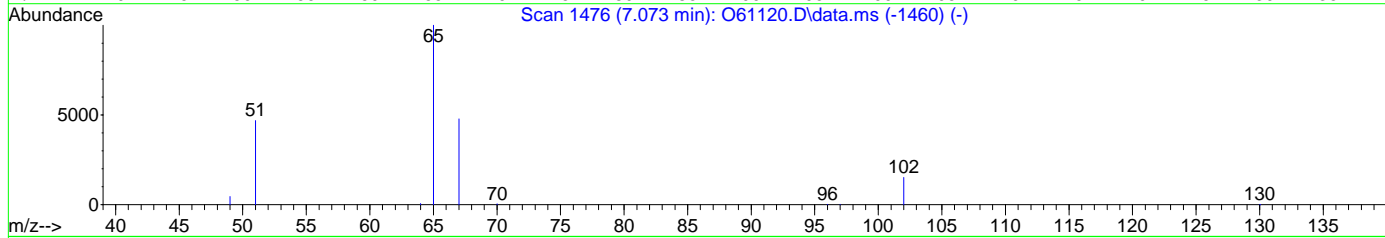
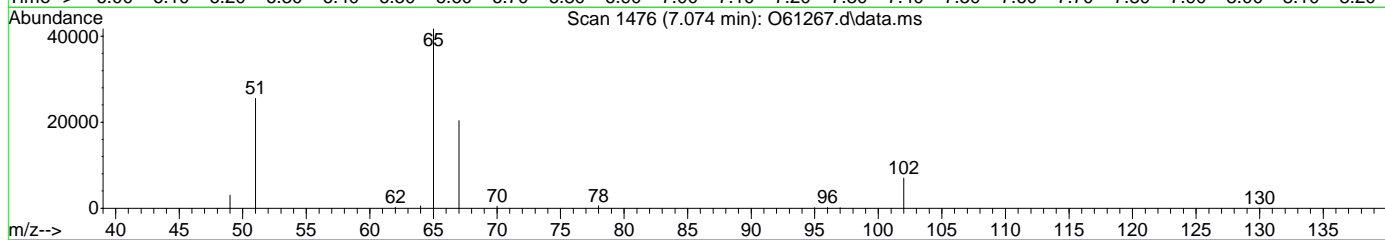
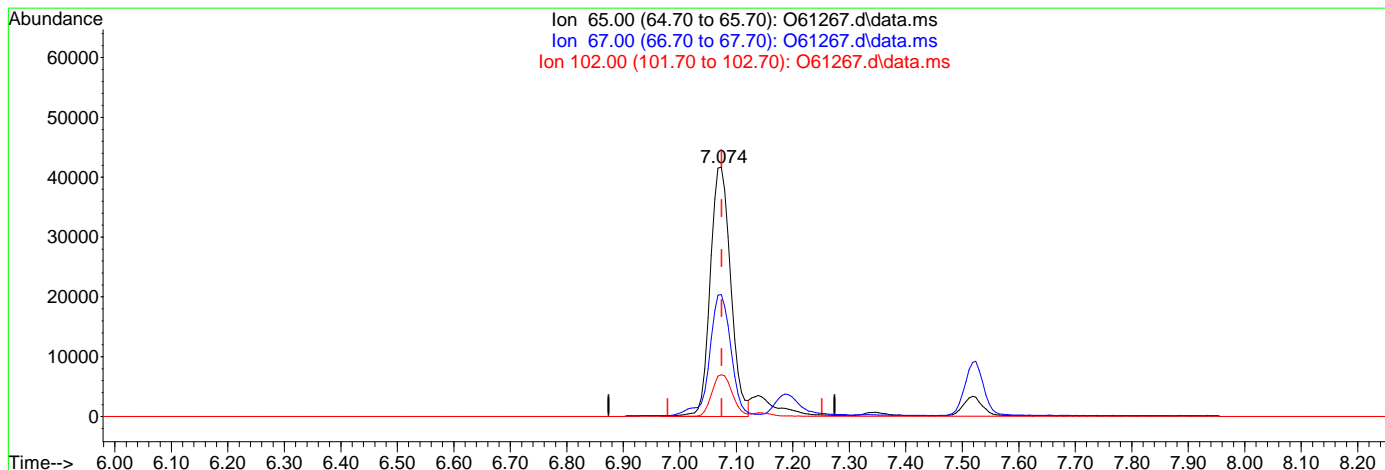
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.91
0.00	0.00	0.00
0.00	0.00	0.00

7.4.1.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78571-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.074min (-0.000) 5.01ug/L m

response 105641

Ion	Exp%	Act%
-----	------	------

65.00	100	100
-------	-----	-----

67.00	53.50	48.89
-------	-------	-------

102.00	16.10	16.74
--------	-------	-------

0.00	0.00	0.00
------	------	------

7.4.1.5  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78570-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 03:17:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

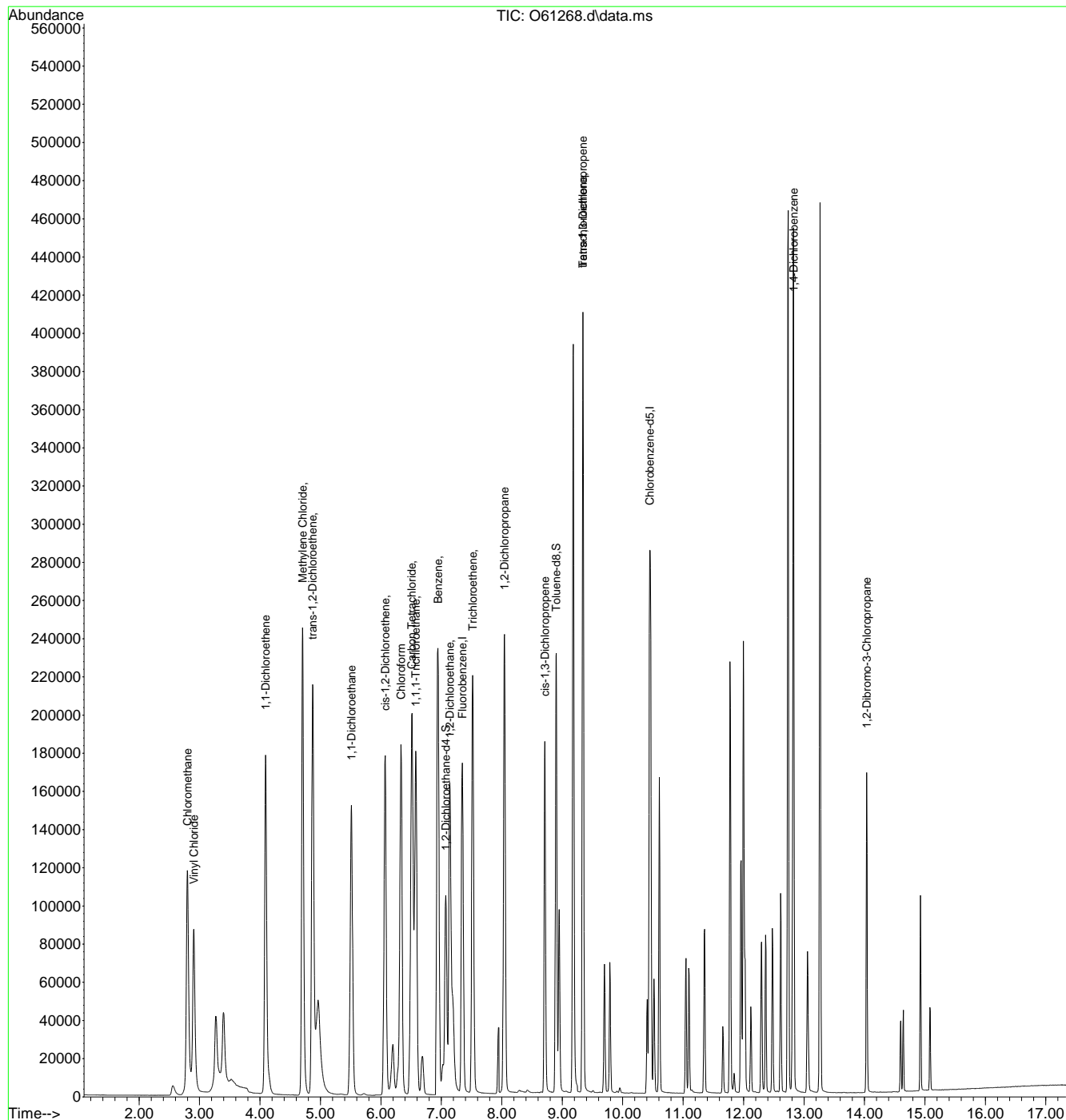
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	275372	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	218380	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	110712m	4.98	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.60%		
19) Toluene-d8	8.896	98	230869	4.69	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	93.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	164694	5.36	ug/L		98
3) Chloromethane	2.799	50	239744	5.32	ug/L		95
4) 1,1-Dichloroethene	4.092	61	219762	5.77	ug/L		91
5) Methylene Chloride	4.703	49	326581	5.48	ug/L		97
6) trans-1,2-Dichloroethene	4.869	61	243234	5.54	ug/L		84
7) 1,1-Dichloroethane	5.514	63	278814	5.46	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	128535	5.09	ug/L		83
9) Chloroform	6.333	83	227746	5.18	ug/L		96
10) Carbon Tetrachloride	6.510	117	158225	5.28	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	175574	5.18	ug/L		92
12) Benzene	6.943	78	461760m	5.43	ug/L		
14) 1,2-Dichloroethane	7.139	62	214292	5.16	ug/L		92
15) Trichloroethene	7.518	95	130484	5.04	ug/L		88
16) 1,2-Dichloropropane	8.043	63	155112	5.46	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	138354	4.70	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	135023	4.70	ug/L		99
21) Tetrachloroethene	9.343	166	129195	5.40	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	266540	5.27	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.037	75	38990	4.34	ug/L		88
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78570-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 03:17:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.4.2  
7

# Manual Integration Approval Summary

**Sample Number:** FA78570-1MSD      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61268.D      **Analyst approved:** 09/15/20 20:03 Edessa Sumagaysay  
**Injection Time:** 09/12/20 04:58      **Supervisor approved:** 09/16/20 09:18 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloroethane-D4	17060-07-0		7.07	Overlapping peak

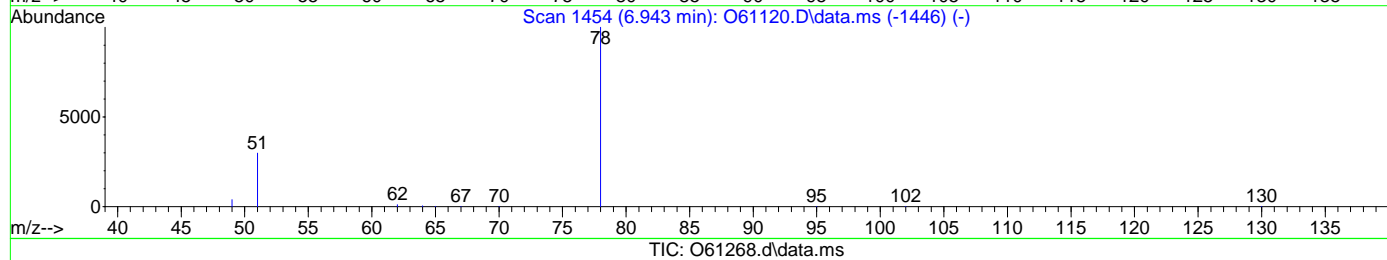
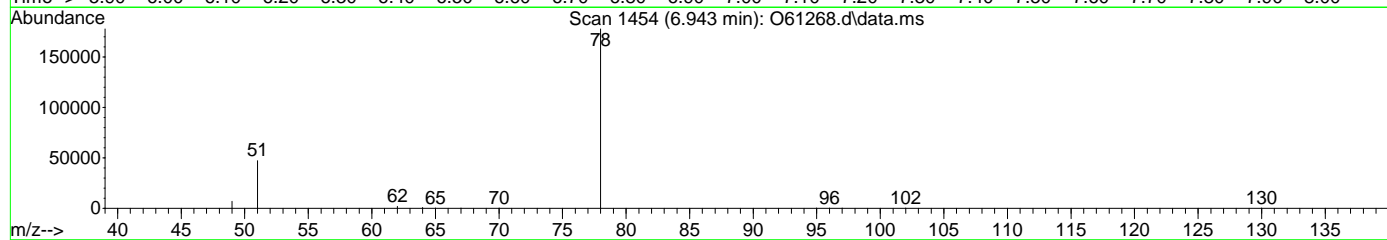
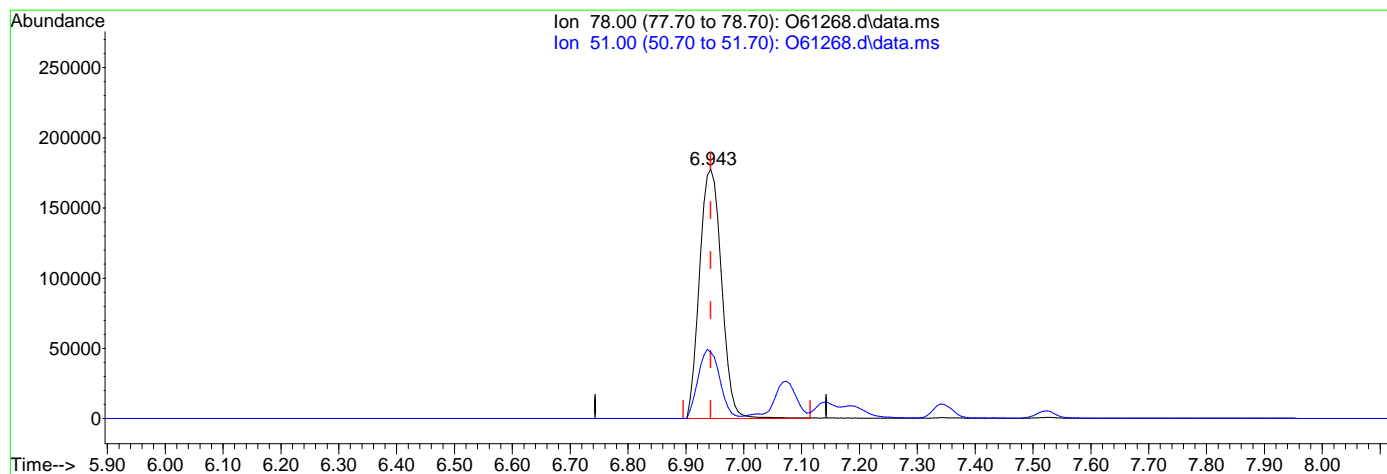
7.4.2.1

7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78571-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 02:56:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.54ug/L

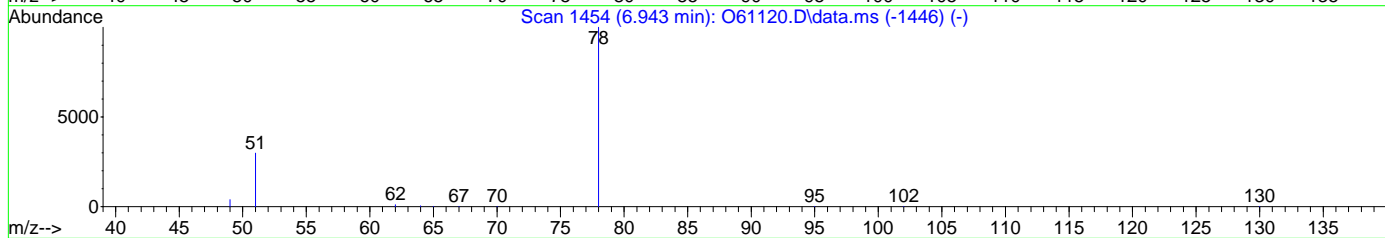
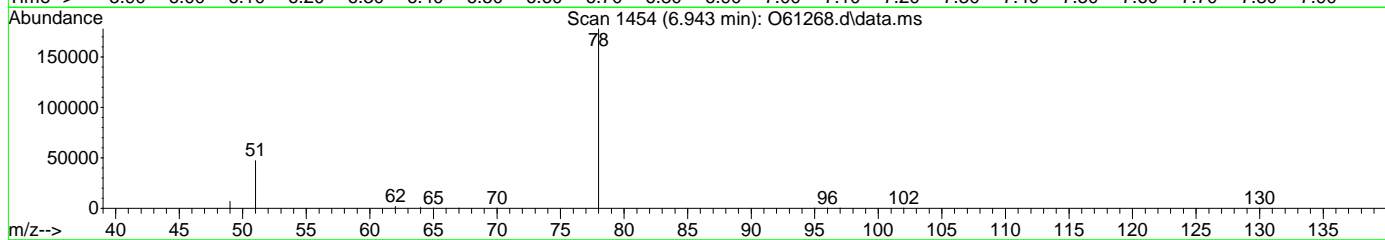
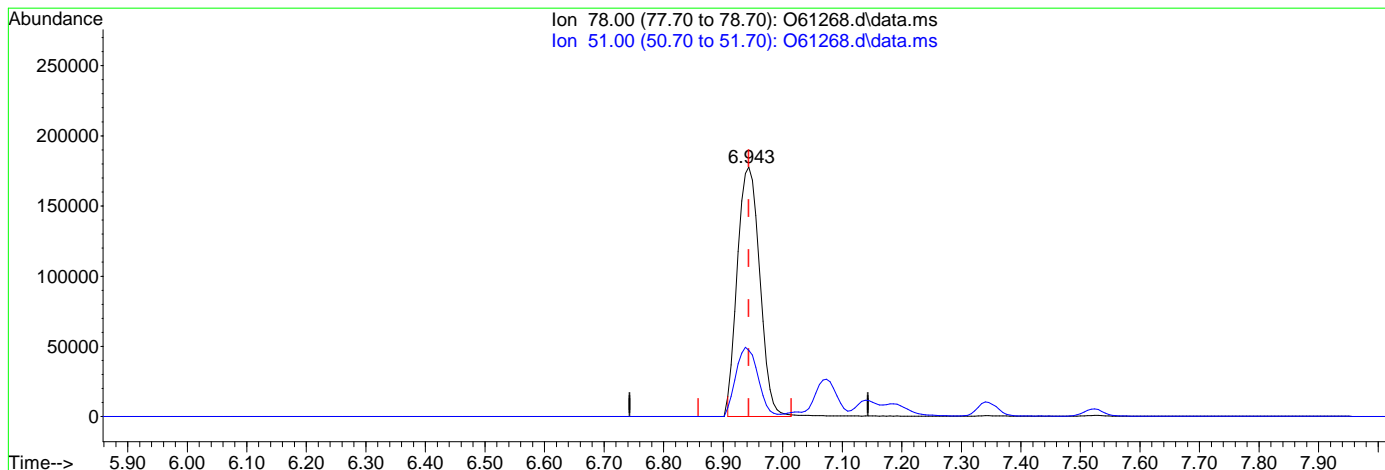
response 470784

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78571-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 02:56:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.43ug/L m

response 461760

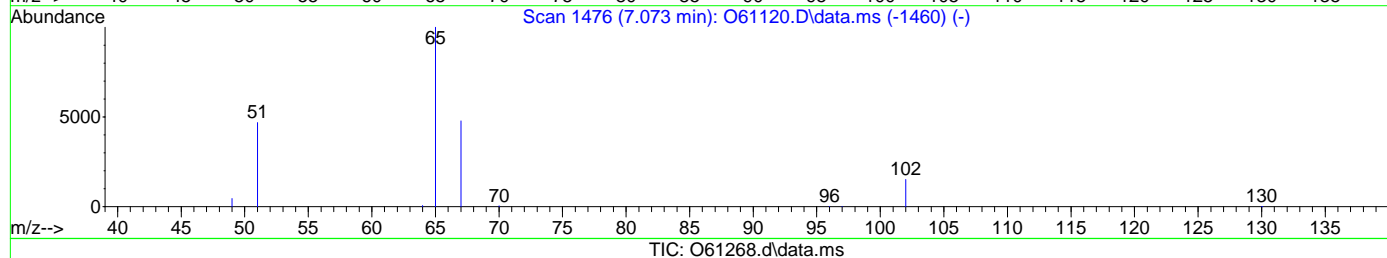
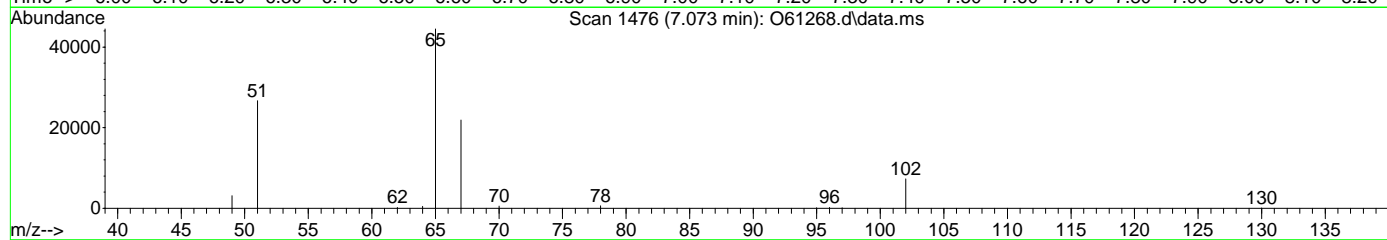
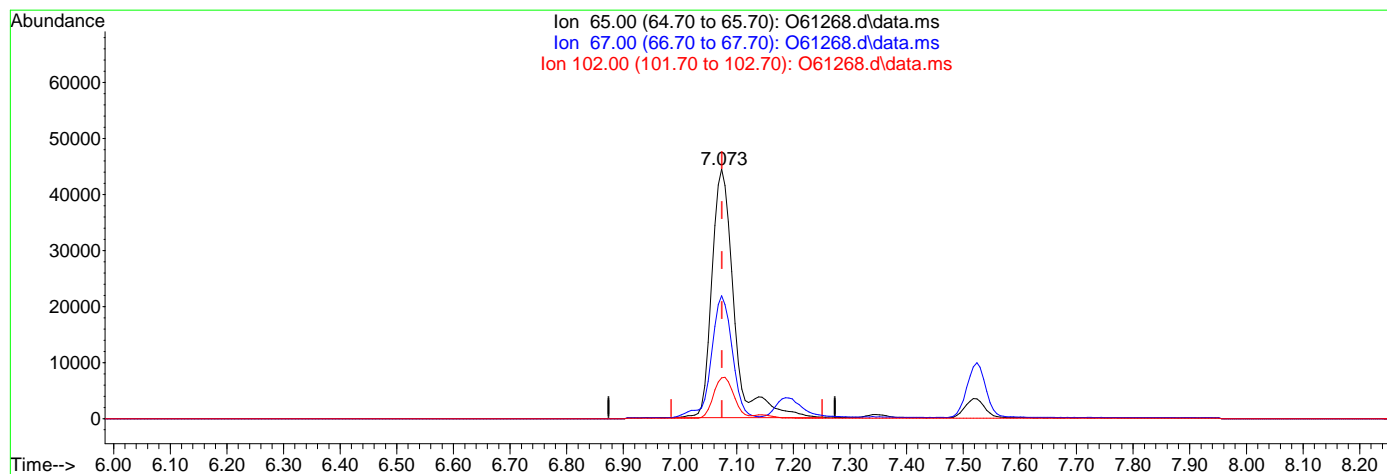
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.57
0.00	0.00	0.00
0.00	0.00	0.00

7.4.2.3  
7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78571-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 02:56:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.073min (-0.001) 5.45ug/L

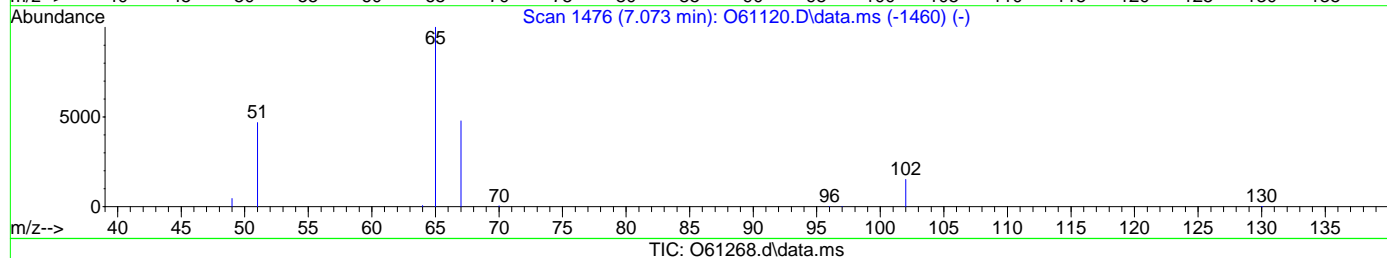
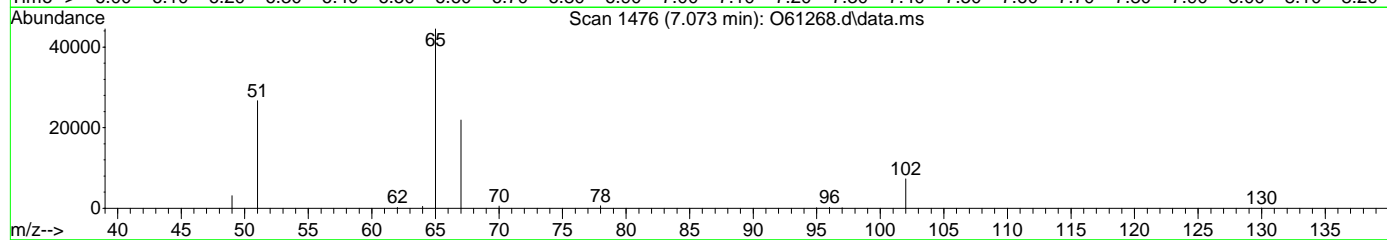
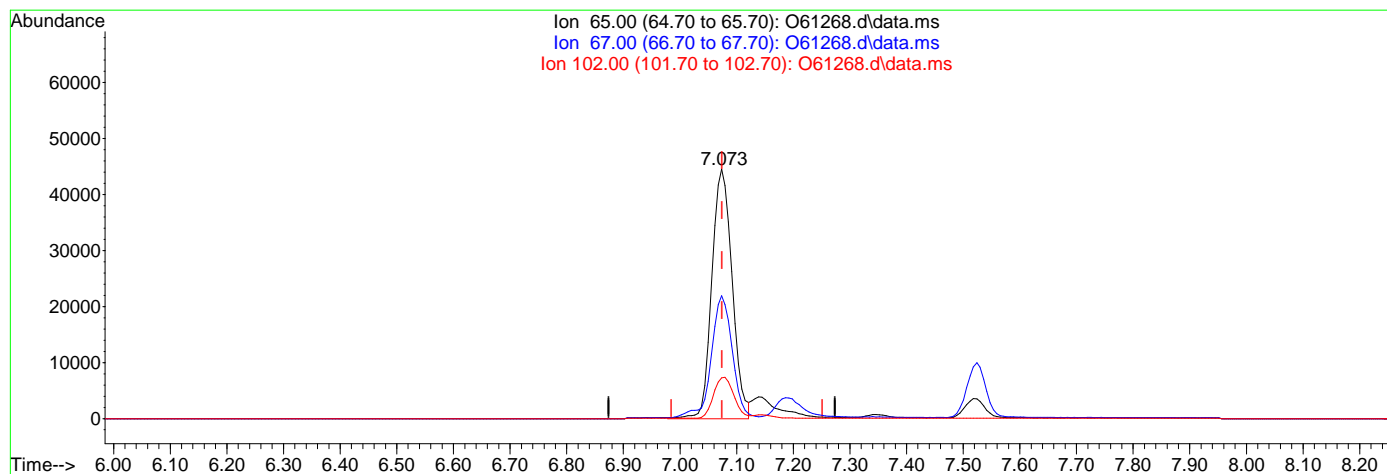
response 121252

Ion	Exp%	Act%
65.00	100	100
67.00	53.50	48.94
102.00	16.10	16.28
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78571-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 02:56:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



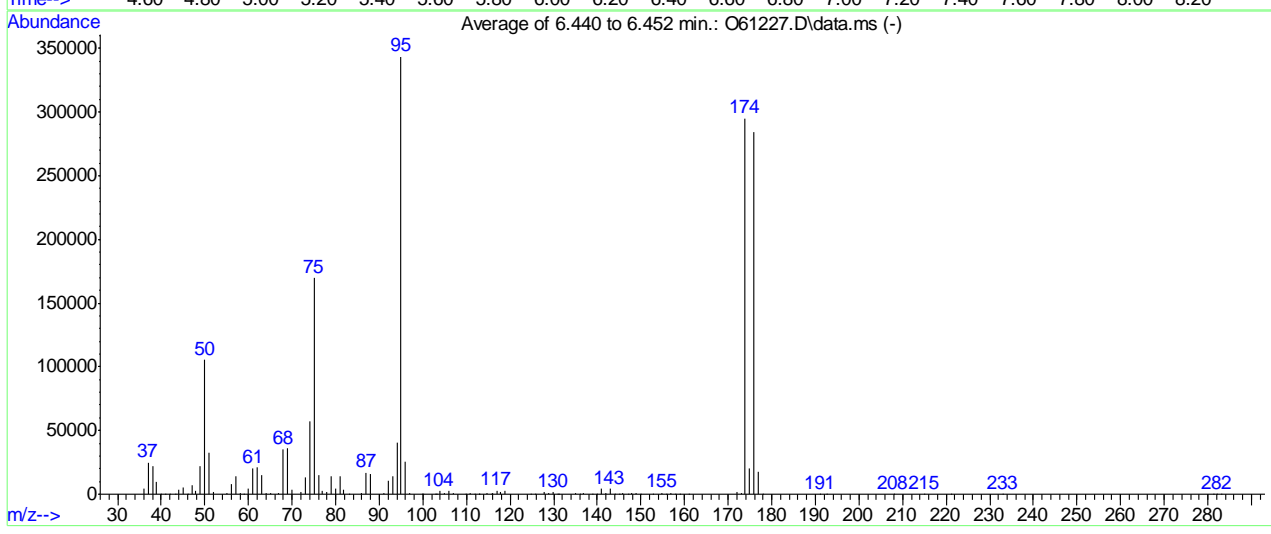
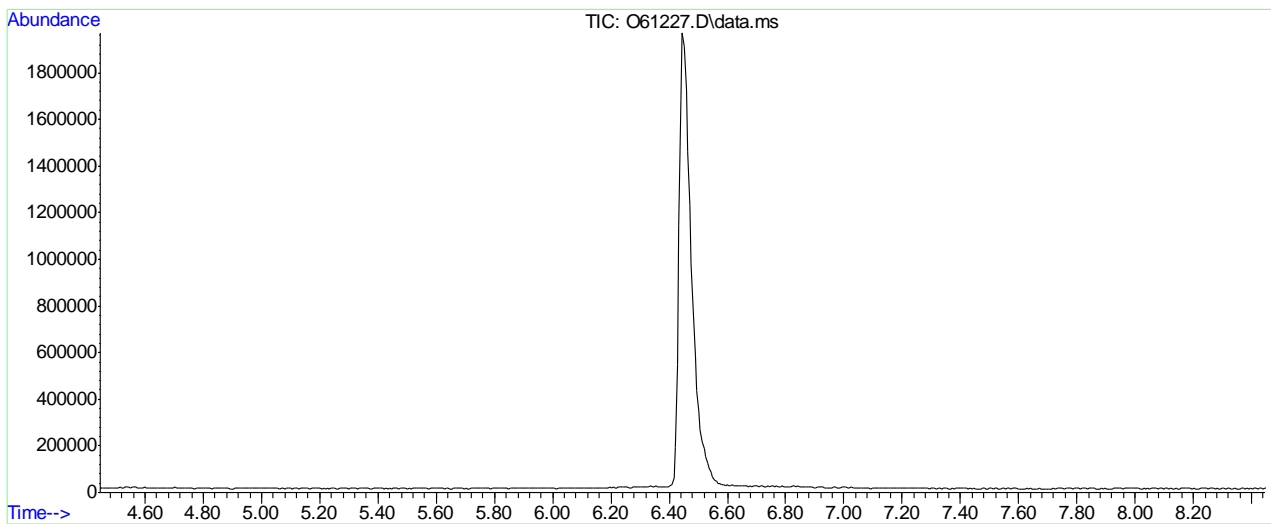
(13) 1,2-Dichloroethane-d4 (S)

7.073min (-0.001) 4.98ug/L m

response 110712

Ion	Exp%	Act%
65.00	100	100
67.00	53.50	49.17
102.00	16.10	16.37
0.00	0.00	0.00

Methods: SW-846 8260B  
 Data File : C:\msdchem\2\data\091120\O61227.D Vial: 100  
 Acq On : 11 Sep 2020 2:01 pm Operator: stutip  
 Sample : BFB Inst : MSVOA12  
 Misc : MS47183,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 460

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.7	105346	PASS
75	95	30	60	49.4	169774	PASS
95	95	100	100	100.0	343616	PASS
96	95	5	9	7.4	25531	PASS
173	174	0.00	2	0.5	1340	PASS
174	95	50	100	85.8	294848	PASS
175	174	5	9	7.0	20565	PASS
176	174	95	101	96.4	284096	PASS
177	176	5	9	6.2	17677	PASS

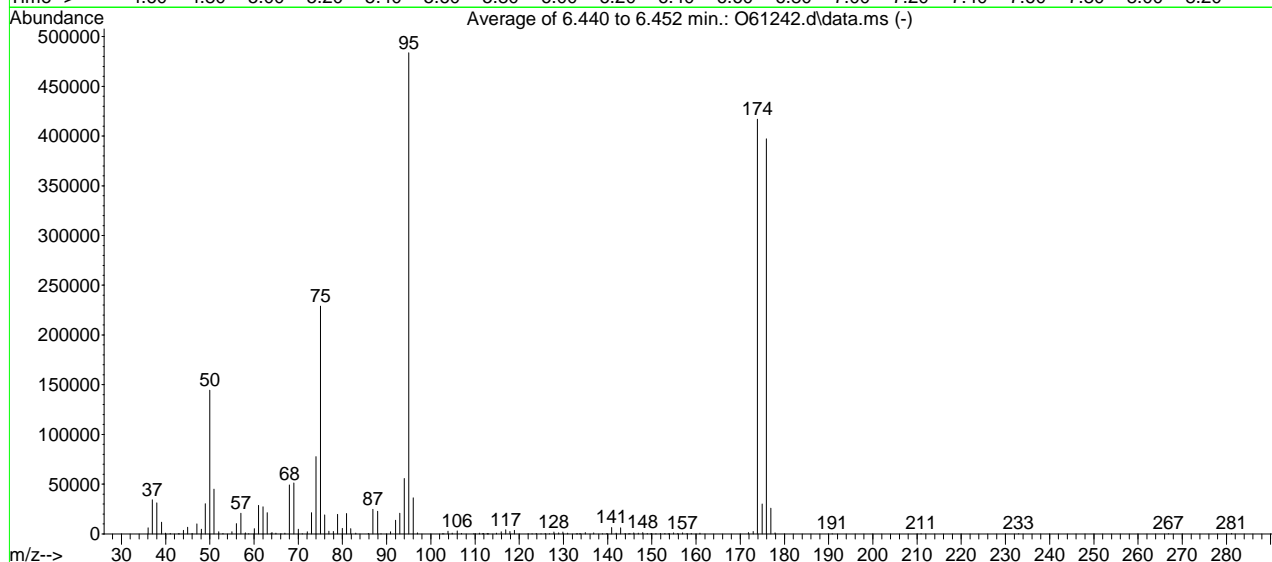
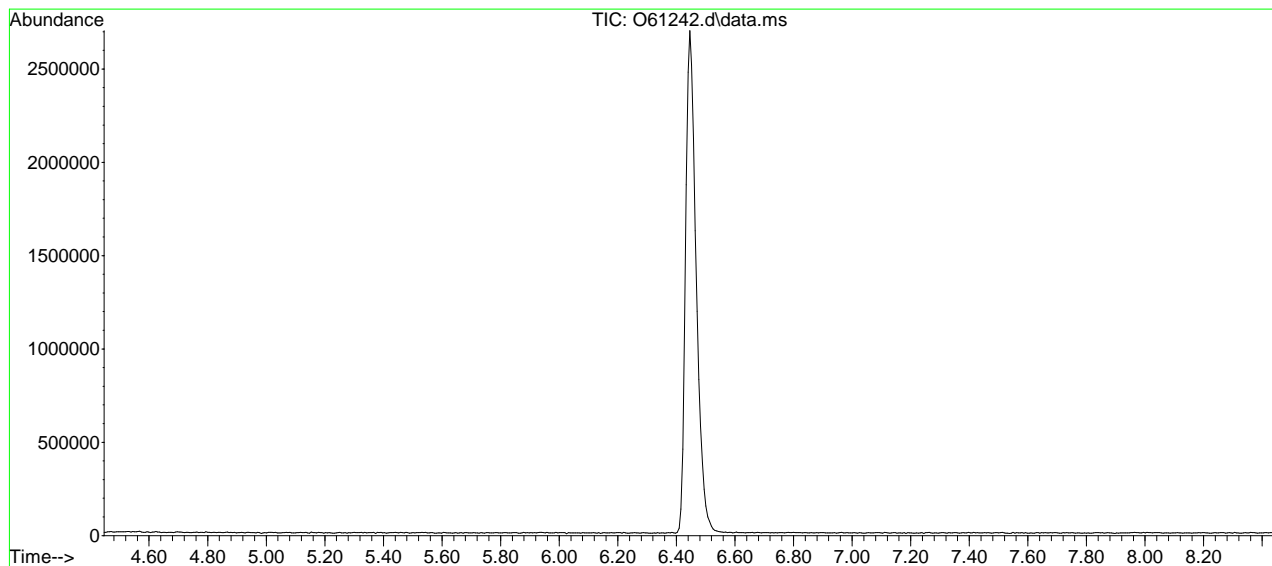
7.5.1  
7



Methods: SW-846 8260B

Data File : C:\msdchem\1\data\ed...-2020\vo2357\O61242.d Vial: 4  
 Acq On : 11 Sep 2020 7:53 pm Operator: stutip  
 Sample : BFB Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 459

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.9	144405	PASS
75	95	30	60	47.4	229077	PASS
95	95	100	100	100.0	483691	PASS
96	95	5	9	7.5	36268	PASS
173	174	0.00	2	0.6	2367	PASS
174	95	50	100	86.2	416875	PASS
175	174	5	9	7.2	29891	PASS
176	174	95	101	95.3	397163	PASS
177	176	5	9	6.5	25669	PASS

O61242.d SIMCL091120.M Mon Sep 14 02:54:09 2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	316238	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.441	117	240066	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	128832	4.64	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%	
19) Toluene-d8	8.896	98	278677	4.75	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.905	62	3529	0.11	ug/L	100
3) Chloromethane	2.799	50	8825m	0.19	ug/L	
4) 1,1-Dichloroethene	4.089	61	4096	0.10	ug/L	83
5) Methylene Chloride	4.700	49	136057	1.74	ug/L	97
6) trans-1,2-Dichloroethene	4.869	61	5203	0.10	ug/L	83
7) 1,1-Dichloroethane	5.514	63	5816	0.10	ug/L	97
8) cis-1,2-Dichloroethene	6.072	96	2981	0.11	ug/L	88
9) Chloroform	6.333	83	5313	0.11	ug/L	81
10) Carbon Tetrachloride	6.505	117	3177	0.11	ug/L	80
11) 1,1,1-Trichloroethane	6.576	97	3749	0.11	ug/L	92
12) Benzene	6.943	78	10630m	0.11	ug/L	
14) 1,2-Dichloroethane	7.139	62	4857	0.09	ug/L	92
15) Trichloroethene	7.512	95	2945	0.11	ug/L	89
16) 1,2-Dichloropropane	8.040	63	3248m	0.09	ug/L	
17) cis-1,3-Dichloropropene	8.711	75	3070	0.08	ug/L	97
20) trans-1,3-Dichloropropene	9.343	75	2765	0.08	ug/L	91
21) Tetrachloroethene	9.343	166	2702m	0.12	ug/L	
22) 1,4-Dichlorobenzene	12.827	146	5272	0.10	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.038	75	1605m	0.12	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

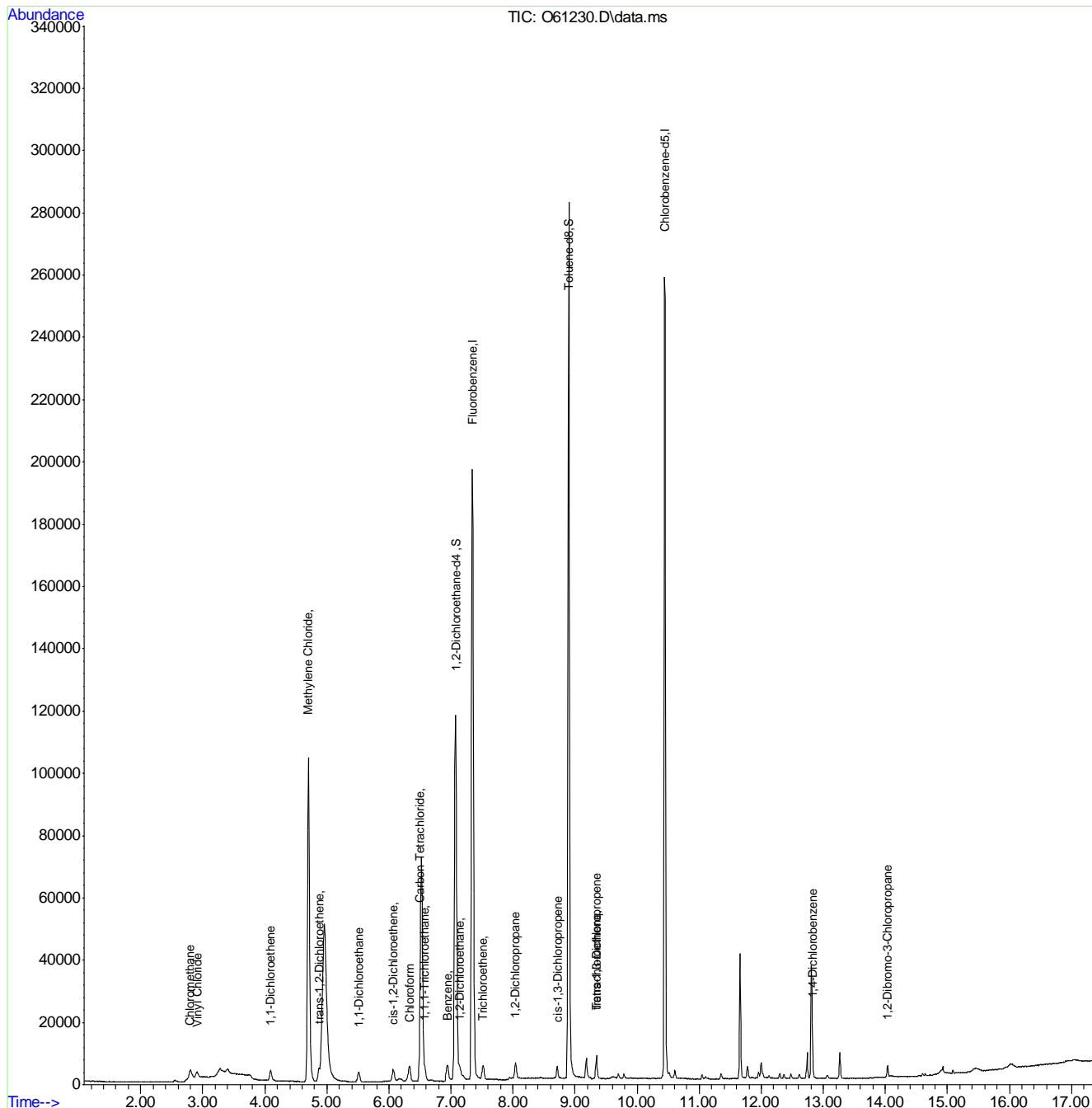
7.6.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.9.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61230.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:34      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.80	Poor instrument integration
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloropropane	78-87-5		8.04	Poor instrument integration
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration
1,2-Dibromo-3-chloropropane	96-12-8		14.04	Poor instrument integration

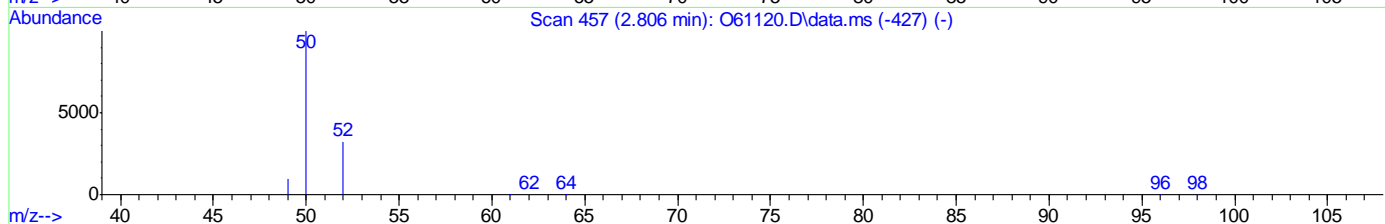
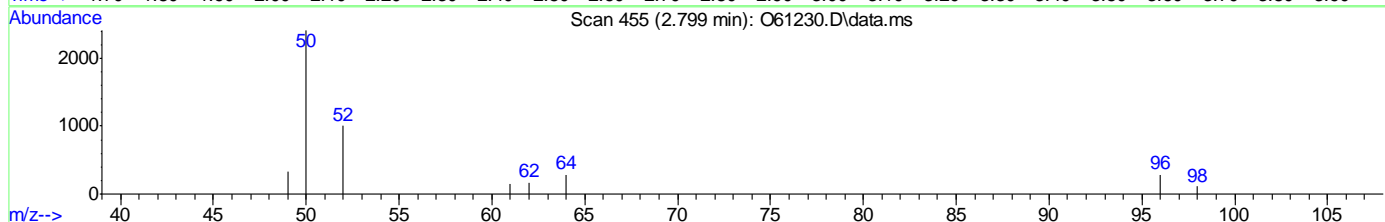
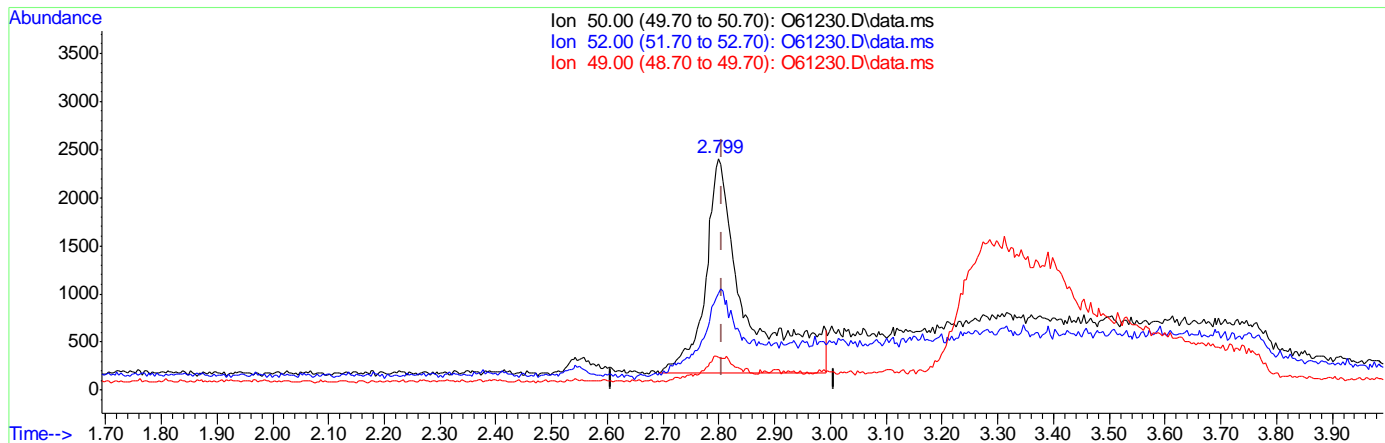
7.6.1.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.24ug/L

response 11047

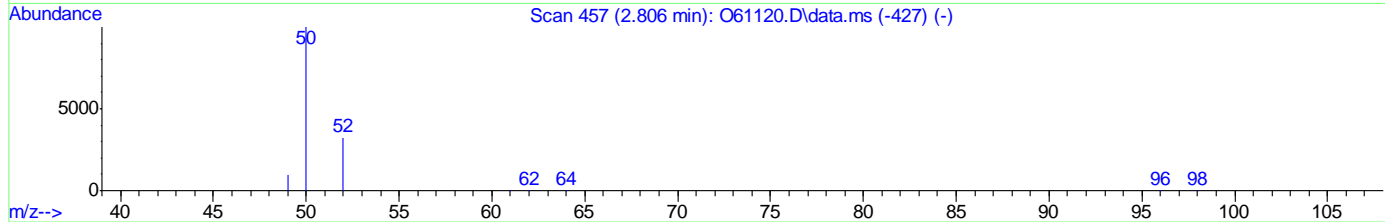
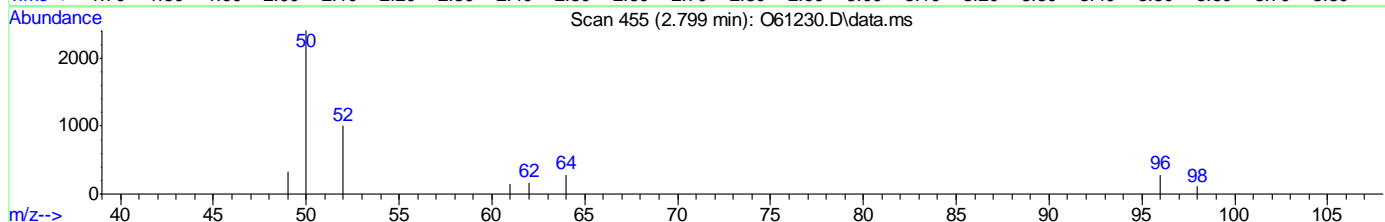
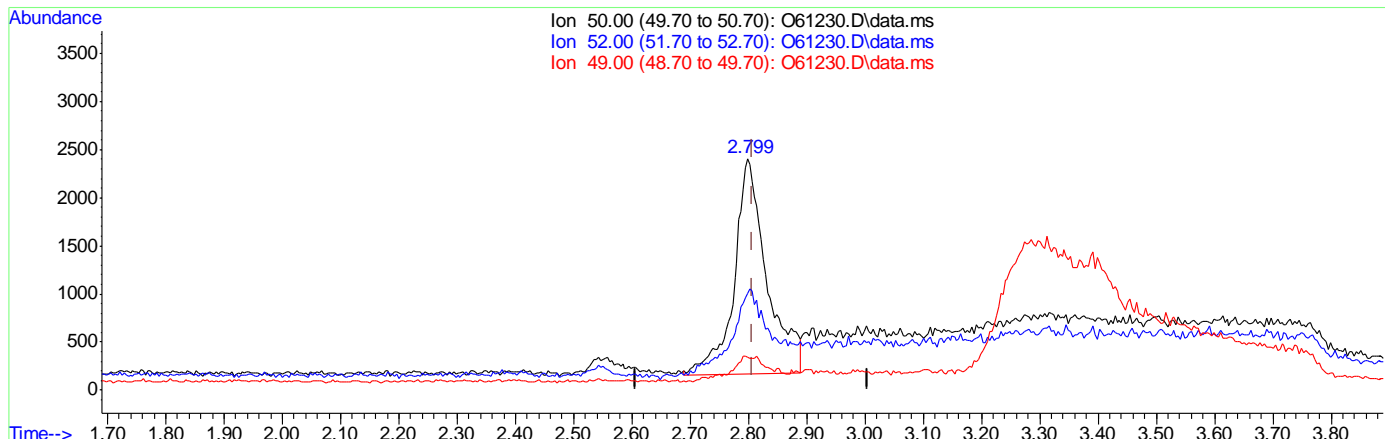
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	37.05
49.00	10.50	11.15
0.00	0.00	0.00

7.6.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane  
 2.799min (-0.007) 0.19ug/L m  
 response 8787

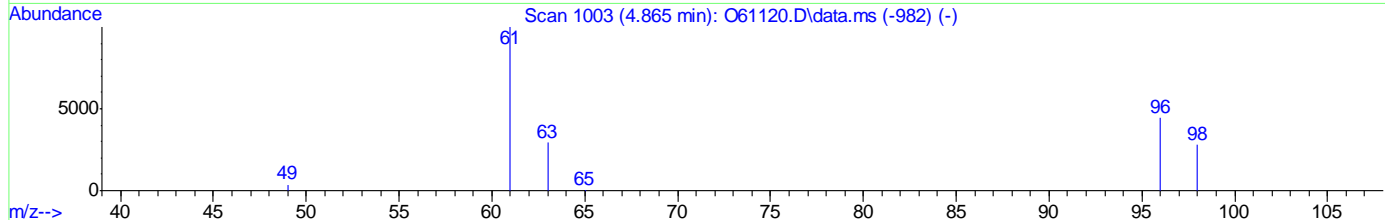
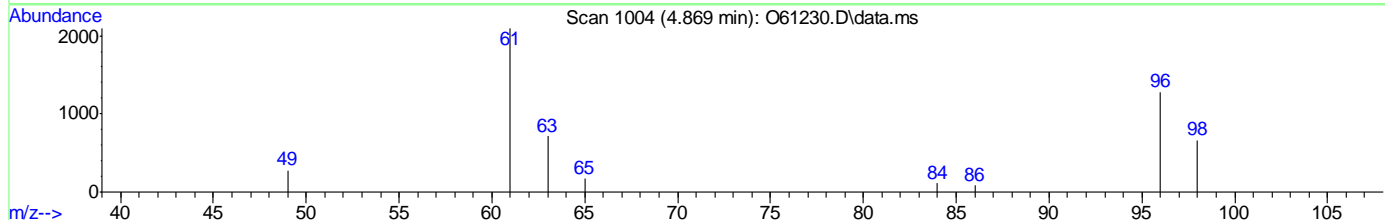
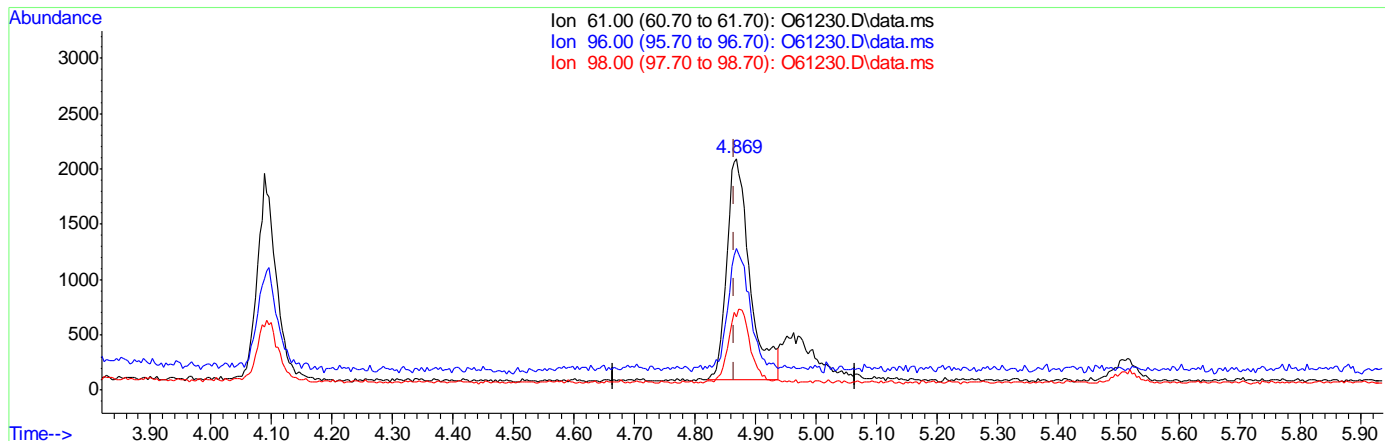
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

7.6.1.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(6) trans-1,2-Dichloroethene ( )

4.869min (+0.004) 0.10ug/L

response 5203

Ion	Exp%	Act%
61.00	100	100
96.00	66.90	54.30
98.00	41.10	28.92
0.00	0.00	0.00

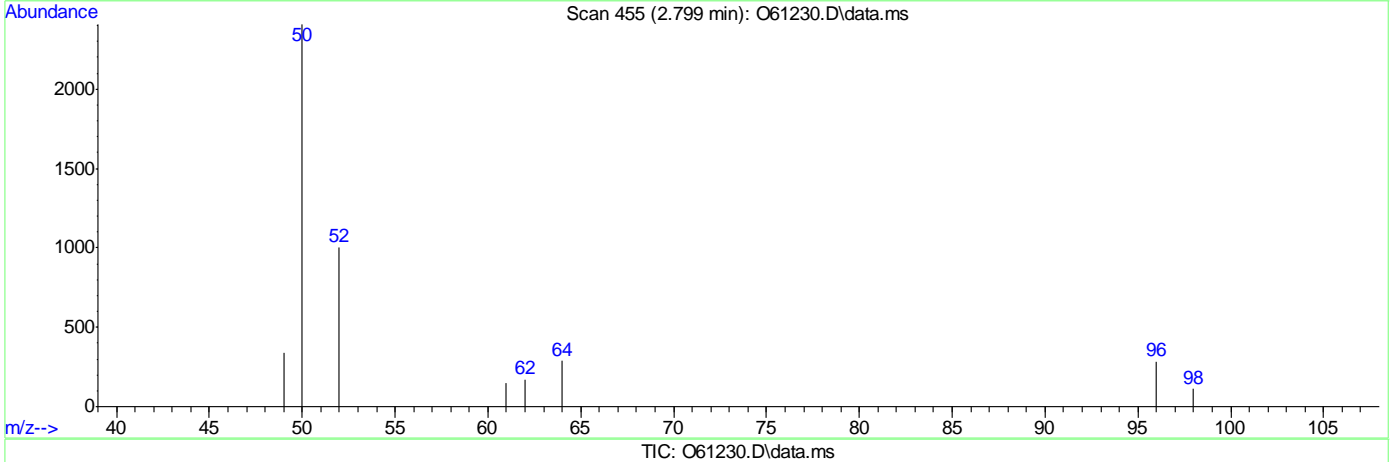
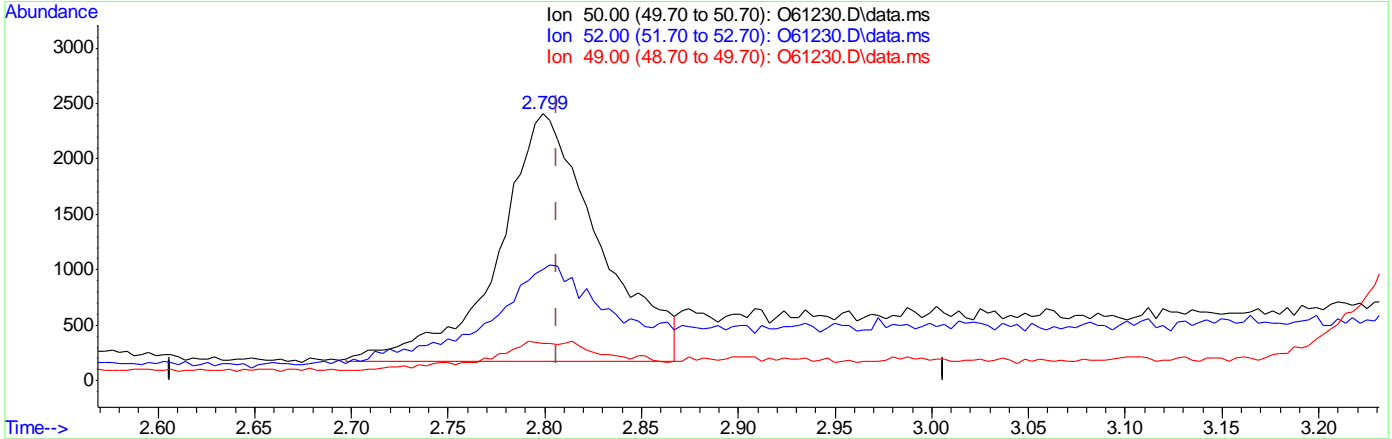
7.6.1.4

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.17ug/L m

response 8061

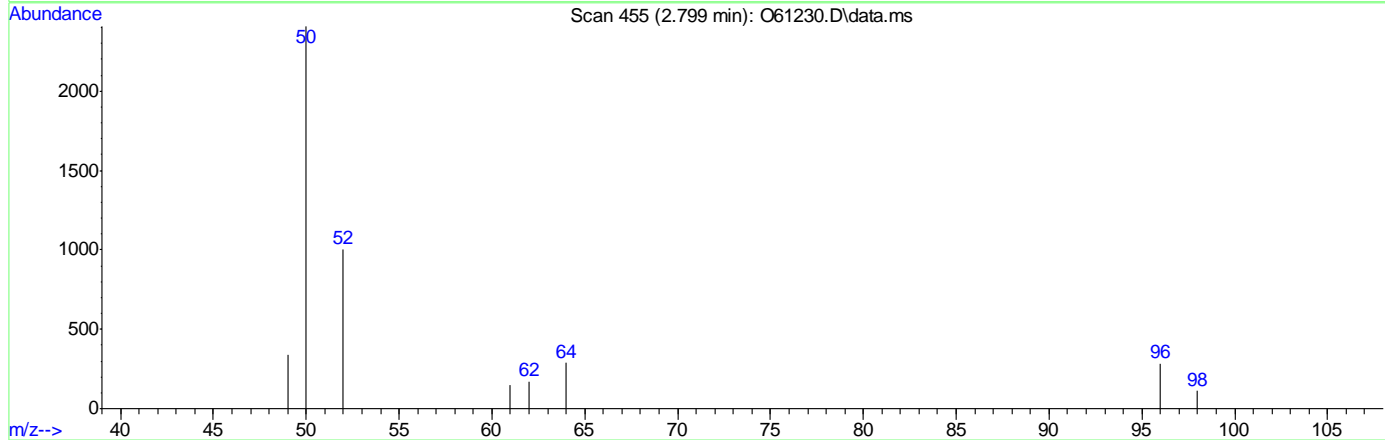
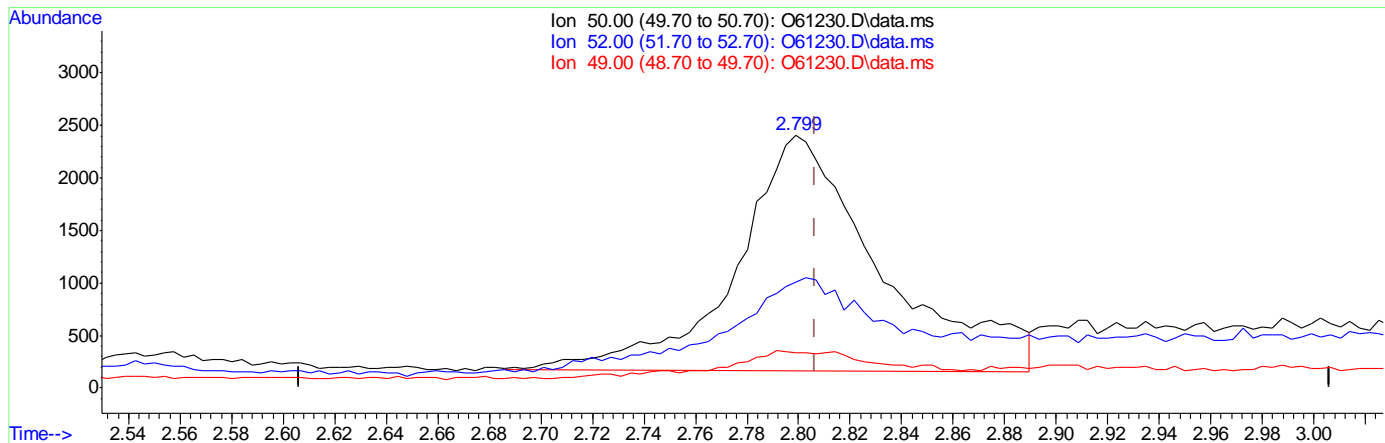
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.19ug/L m

response 8825

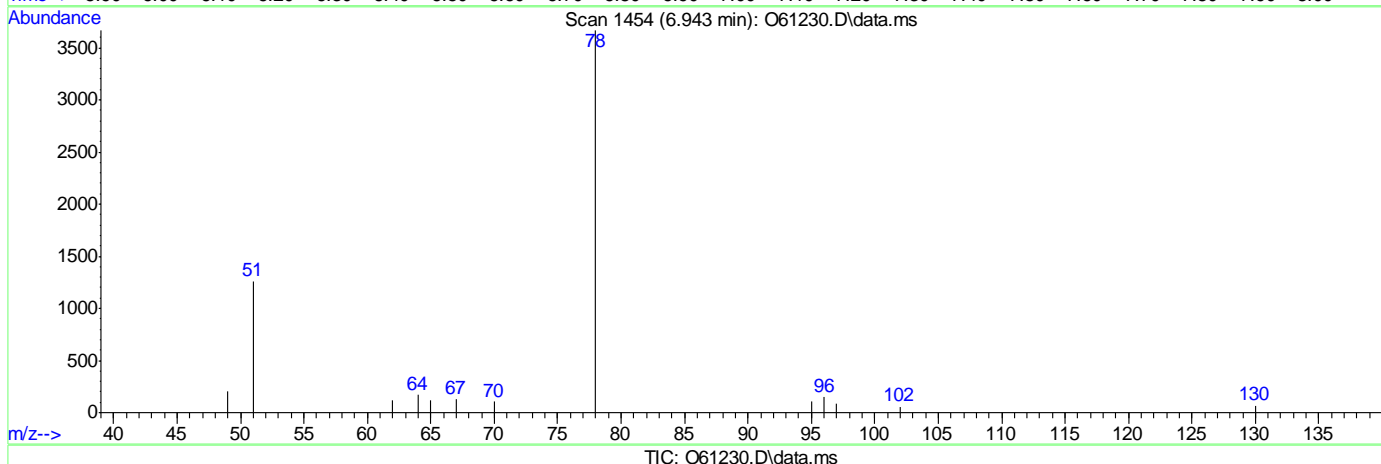
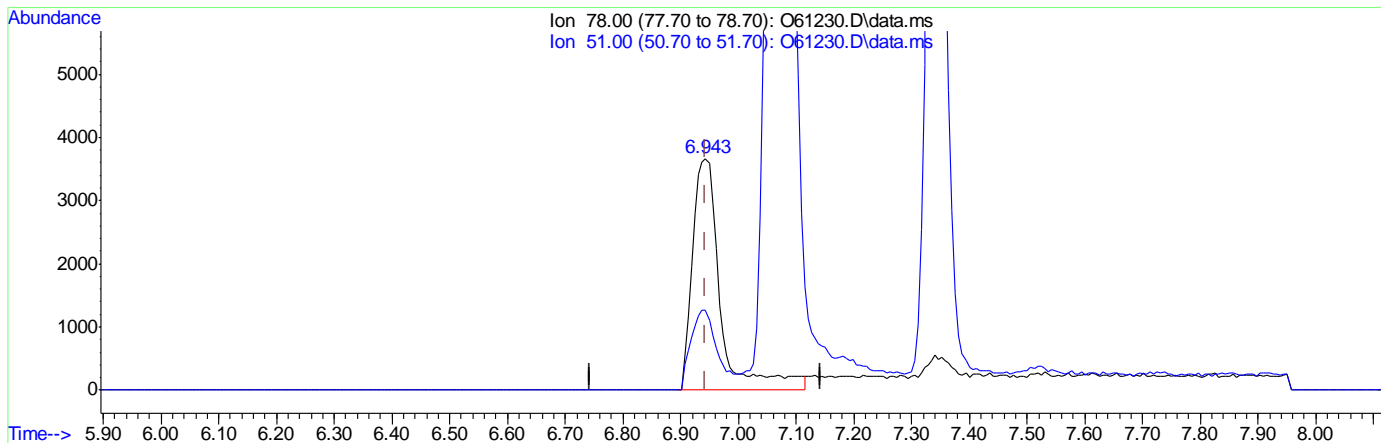
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

7.6.1.6  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.13ug/L  
 response 12135

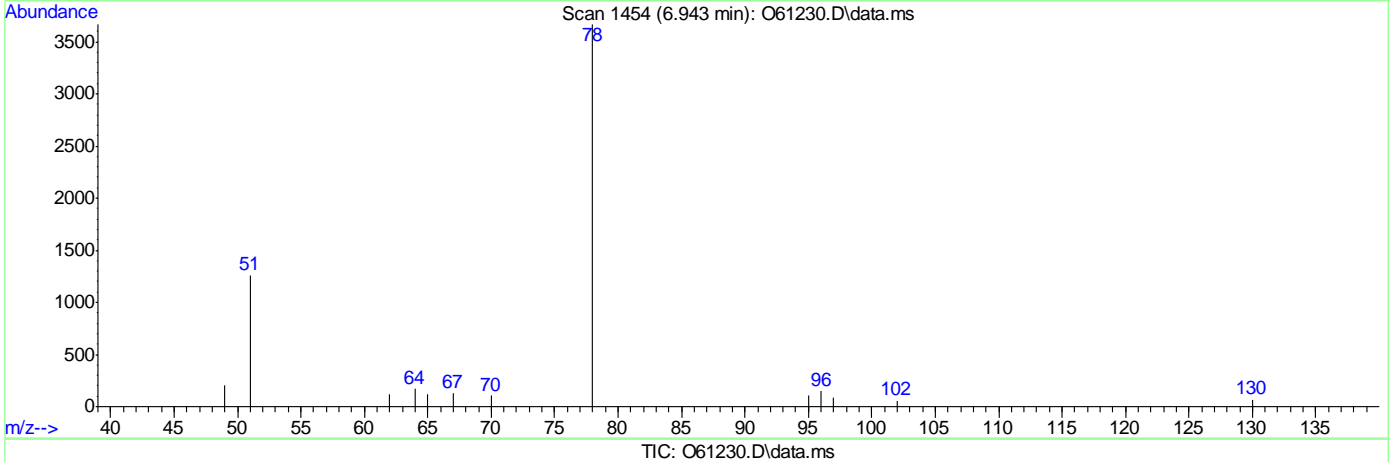
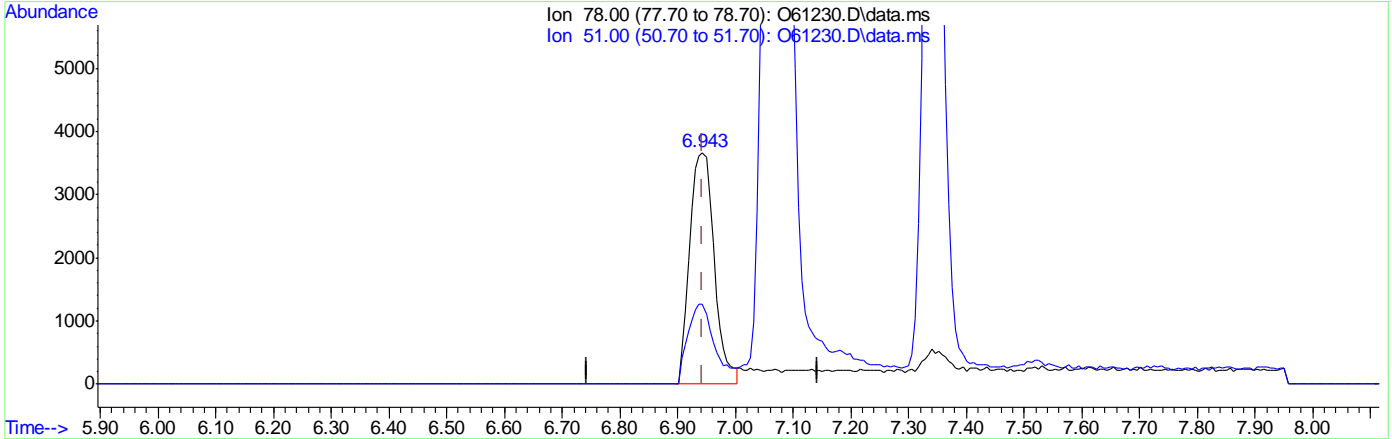
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

7.6.1.7  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



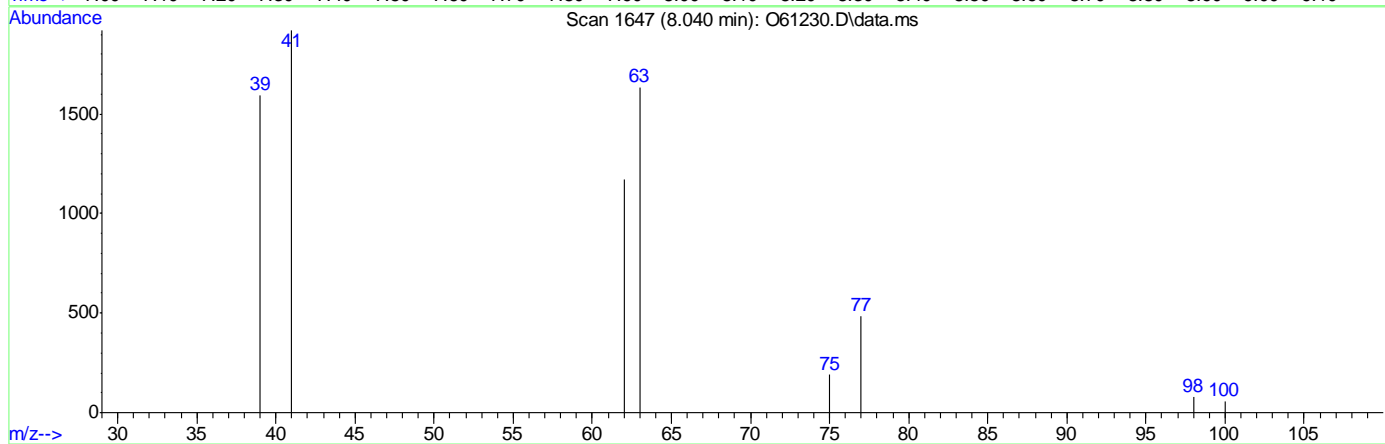
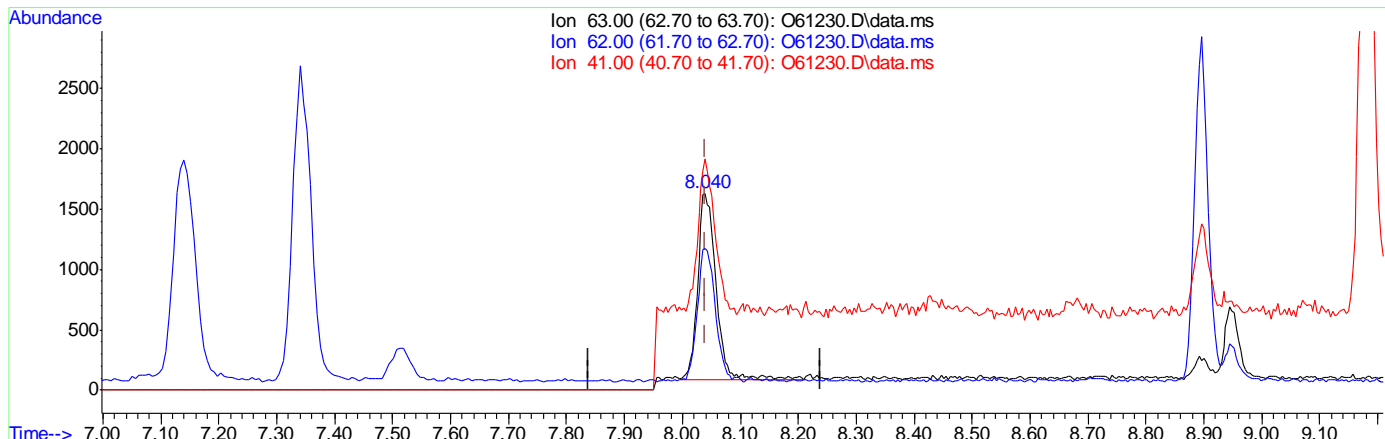
(12) Benzene ( )  
 6.943min (+0.000) 0.11ug/L m  
 response 10630

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.10ug/L  
 response 3437

Ion	Exp%	Act%
63.00	100	100
62.00	72.70	70.53
41.00	84.50	81.61
0.00	0.00	0.00

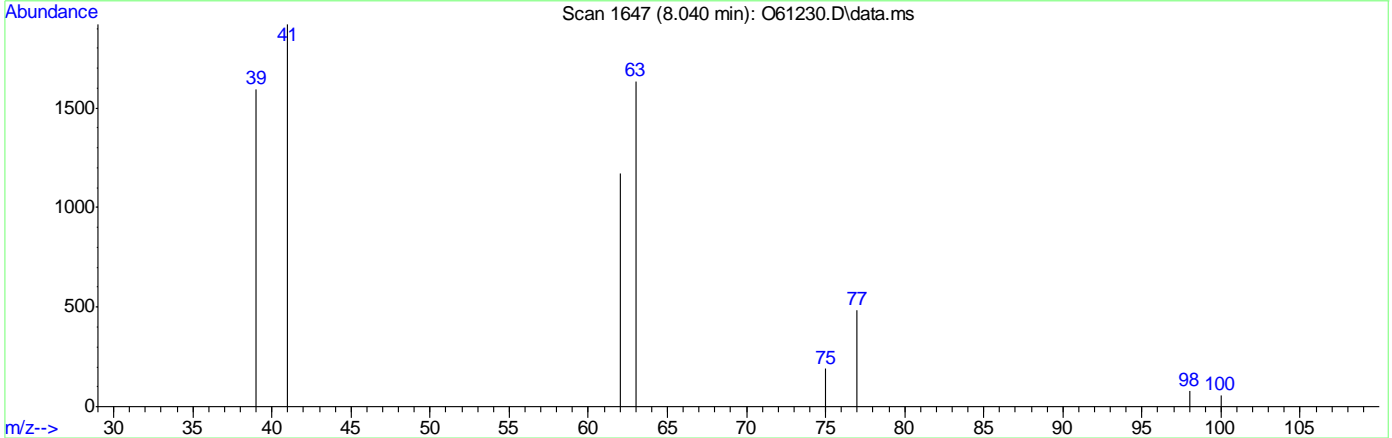
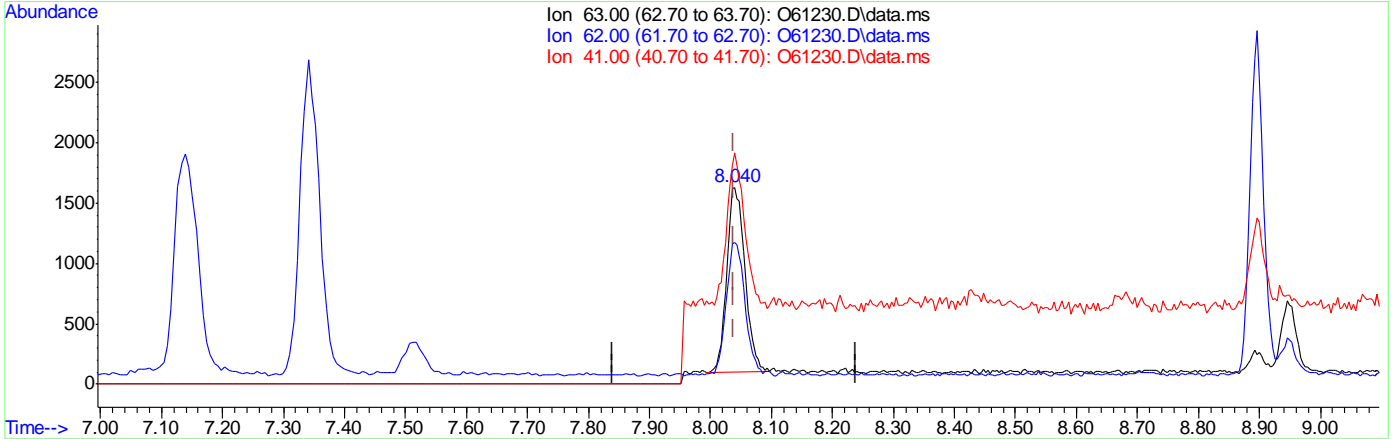
7.6.1.9  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.09ug/L m  
 response 3248

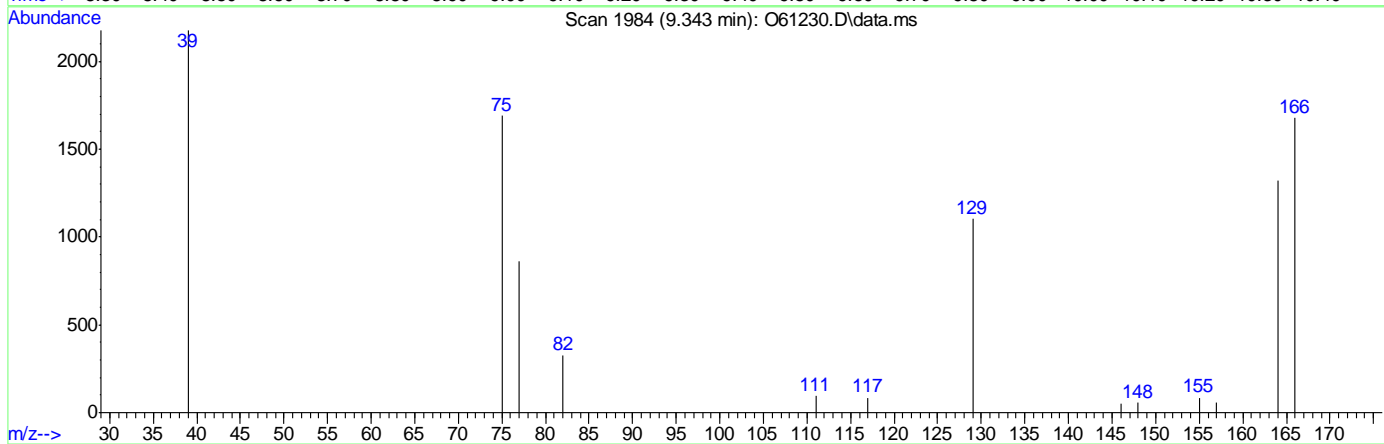
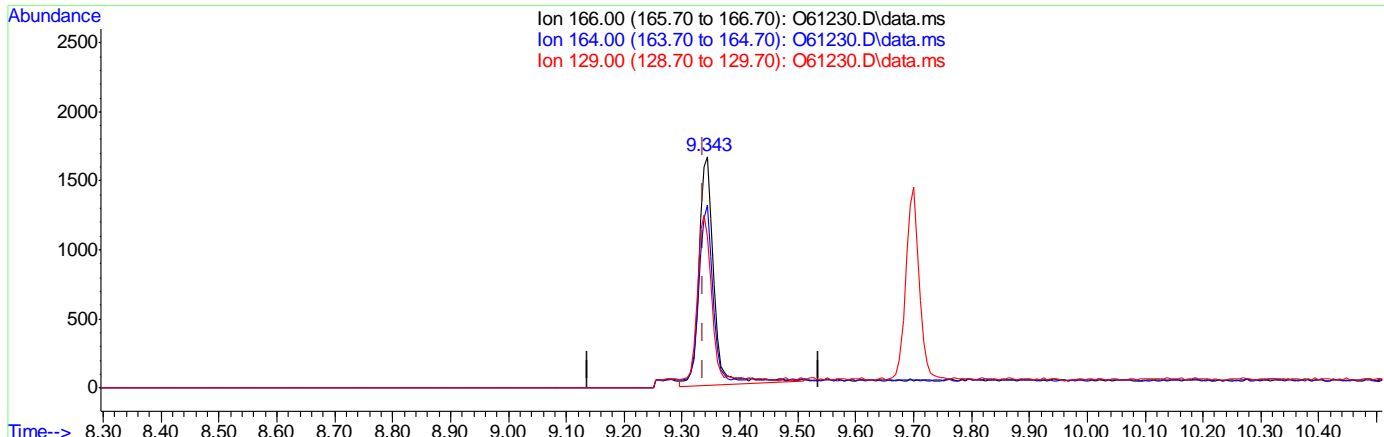
Ion	Exp%	Act%
63.00	100	100
62.00	72.70	71.77
41.00	84.50	117.58#
0.00	0.00	0.00

7.6.1.10  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )  
 9.343min (+0.006) 0.13ug/L  
 response 2993

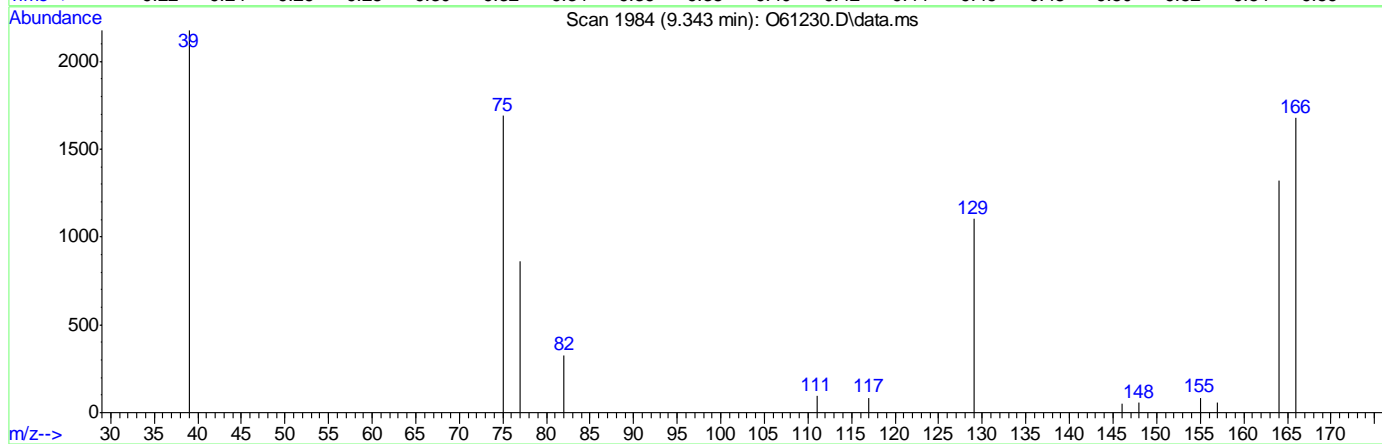
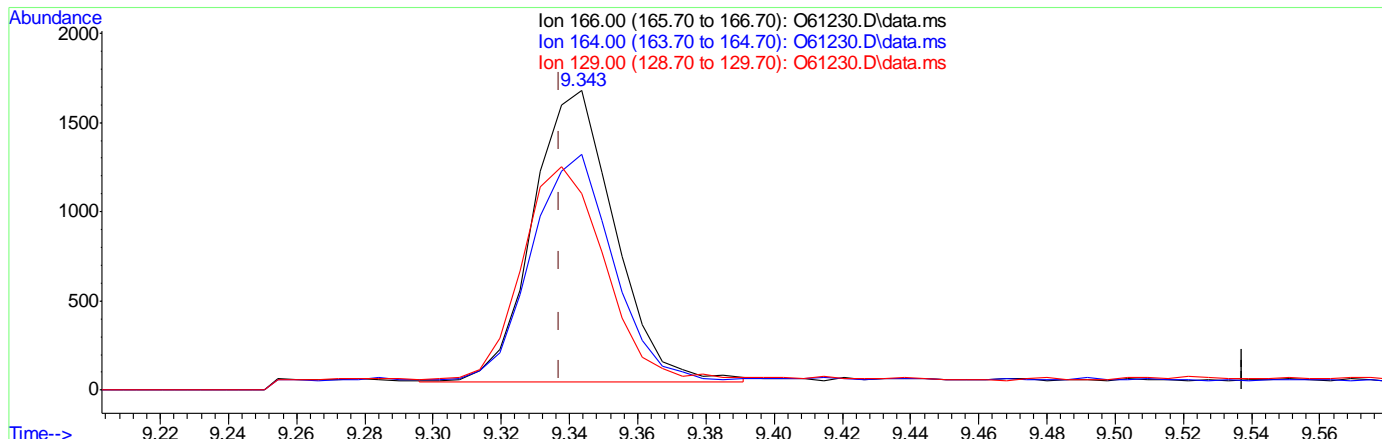
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	77.82
129.00	67.50	64.20
0.00	0.00	0.00

7.6.1.11  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.006) 0.12ug/L m

response 2702

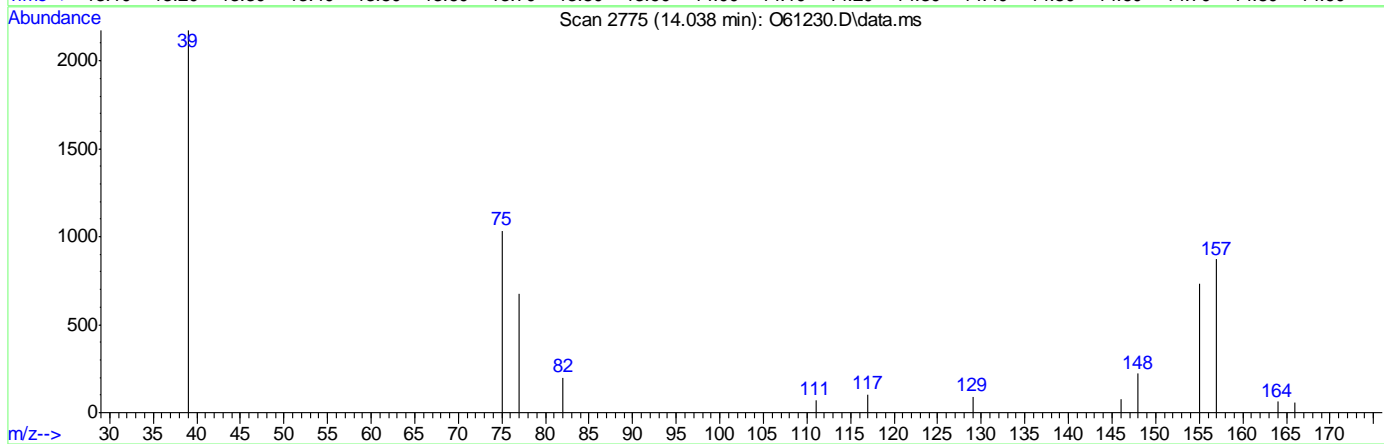
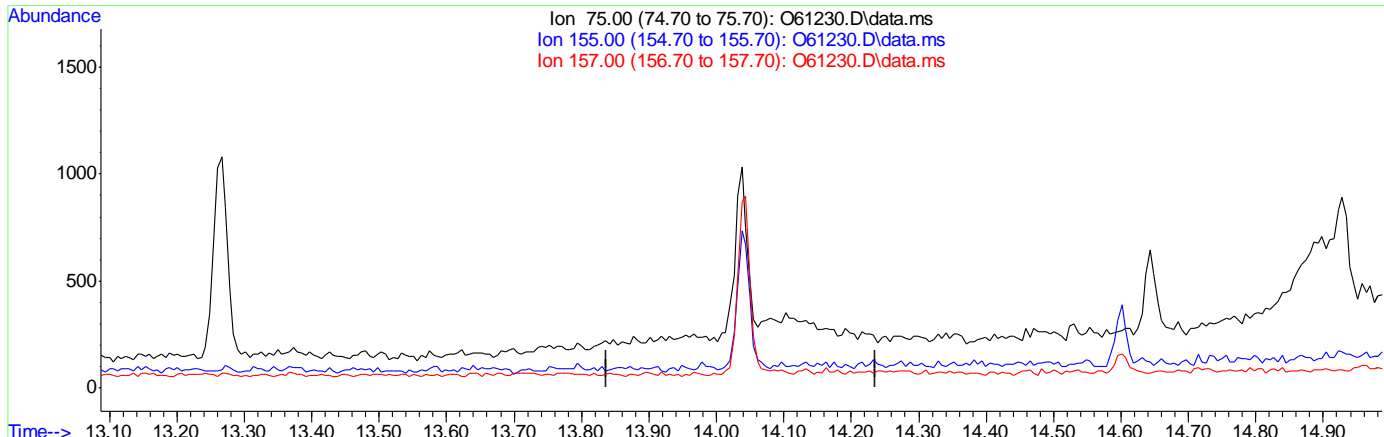
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	78.83
129.00	67.50	65.71
0.00	0.00	0.00

7.6.1.12  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.037min (-14.037) 0.00ug/L

response 0

Ion	Exp%	Act%
75.00	100	0.00
155.00	88.00	0.00#
157.00	106.80	0.00#
0.00	0.00	0.00

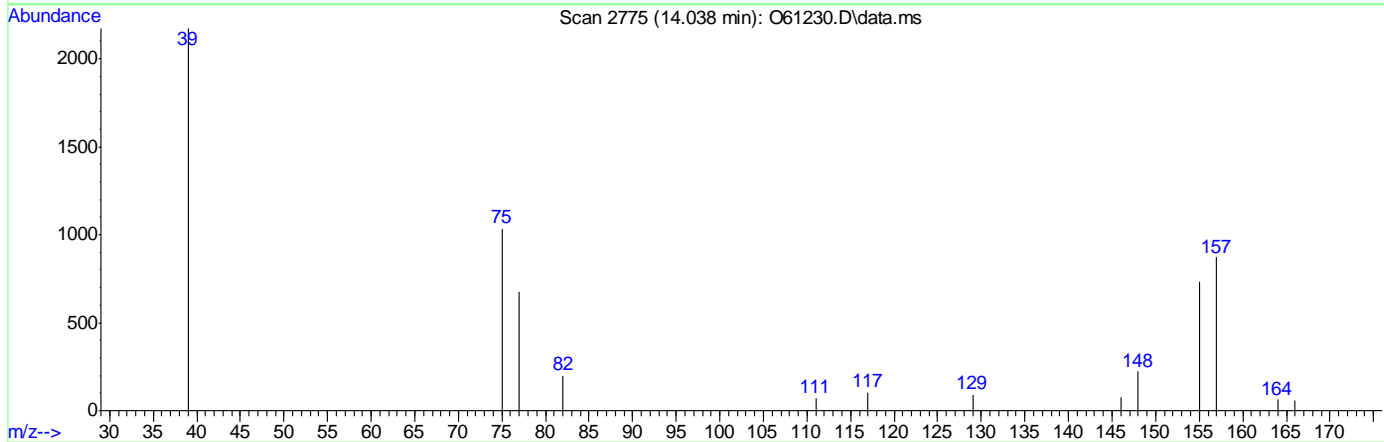
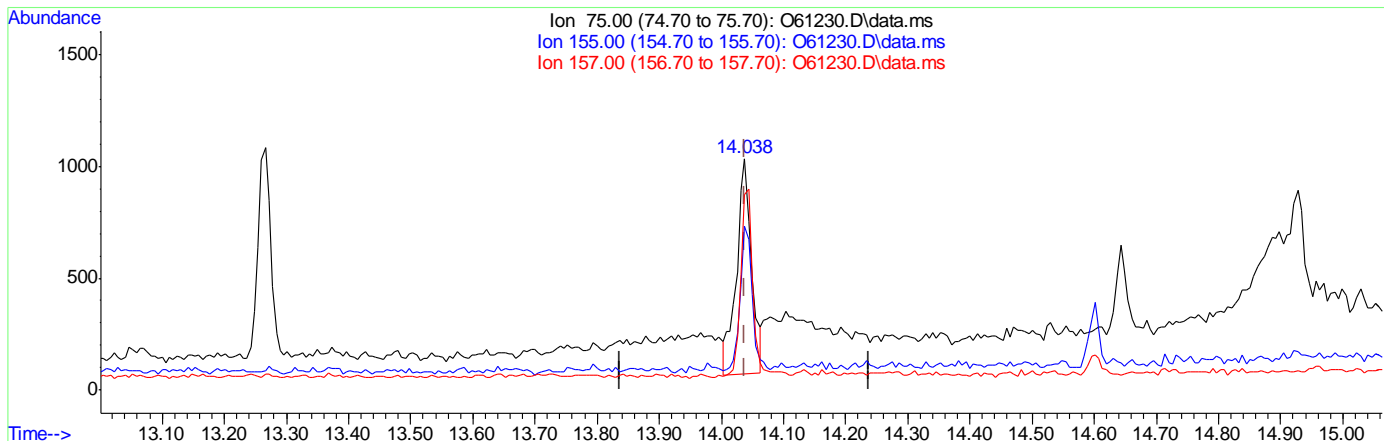
7.6.1.13  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.038min (+0.000) 0.12ug/L m

response 1605

Ion	Exp%	Act%
75.00	100	100
155.00	88.00	70.99
157.00	106.80	84.43#
0.00	0.00	0.00

7.6.1.14  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : stutip  
 Sample : IC2356-2 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 18:02:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	308238	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	234700	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	125580	4.64	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%		
19) Toluene-d8	8.896	98	269907	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	19507	0.64	ug/L		96
3) Chloromethane	2.799	50	33695	0.75	ug/L		90
4) 1,1-Dichloroethene	4.092	61	22337	0.54	ug/L		92
5) Methylene Chloride	4.703	49	128834	1.69	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	28030	0.55	ug/L		84
7) 1,1-Dichloroethane	5.514	63	30310	0.52	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	14558	0.56	ug/L #		80
9) Chloroform	6.333	83	26026	0.55	ug/L		94
10) Carbon Tetrachloride	6.510	117	17328	0.59	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	19399	0.57	ug/L		89
12) Benzene	6.943	78	51252m	0.56	ug/L		
14) 1,2-Dichloroethane	7.139	62	24323	0.48	ug/L		91
15) Trichloroethene	7.512	95	15009	0.56	ug/L		93
16) 1,2-Dichloropropane	8.040	63	17486	0.52	ug/L		93
17) cis-1,3-Dichloropropene	8.711	75	15877	0.42	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	14216	0.40	ug/L		98
21) Tetrachloroethene	9.337	166	14813	0.65	ug/L		90
22) 1,4-Dichlorobenzene	12.827	146	27579	0.56	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	6106	0.47	ug/L		98

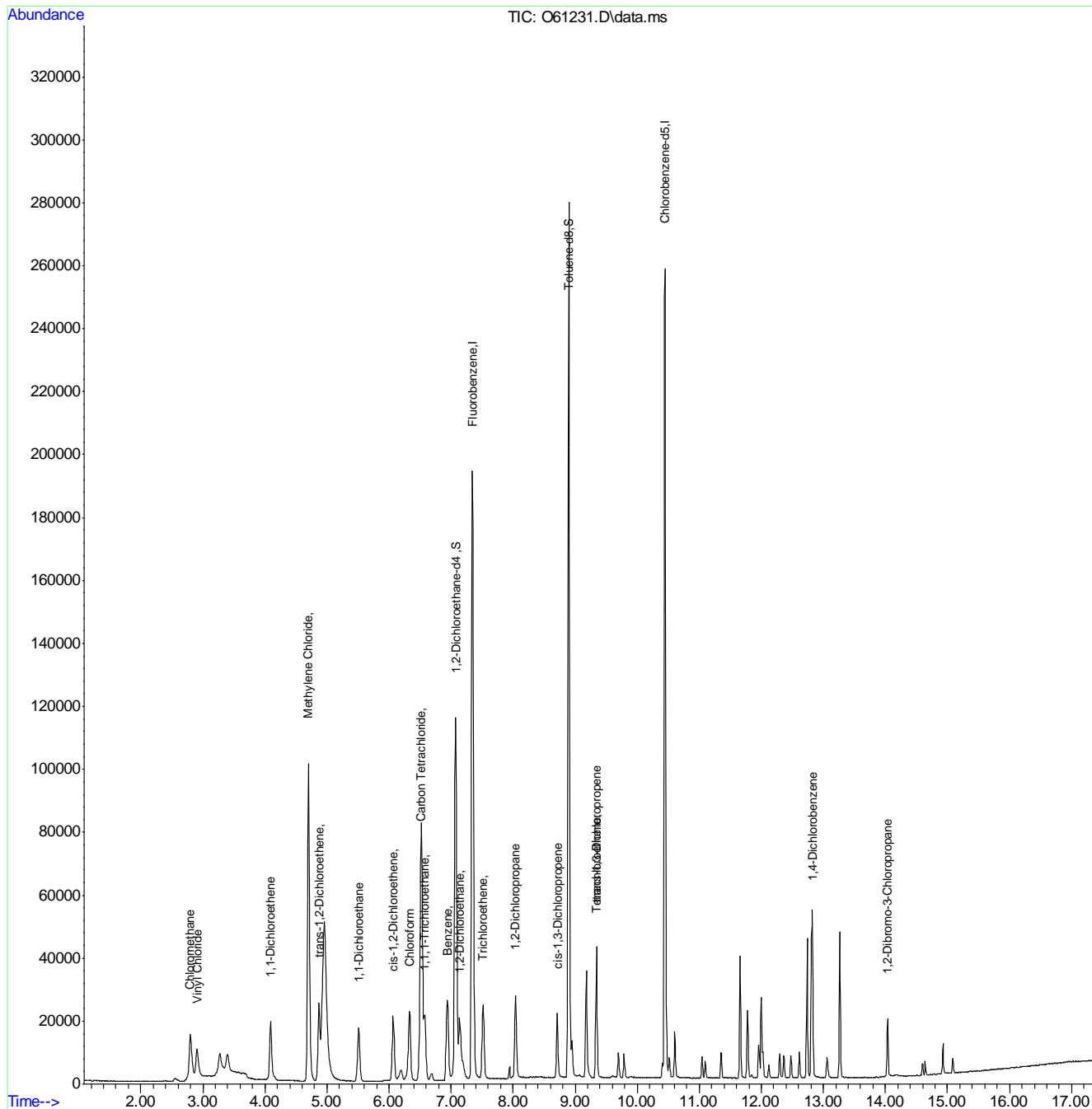
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : stutip  
 Sample : IC2356-2  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:02:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61231.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:54      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.2.1

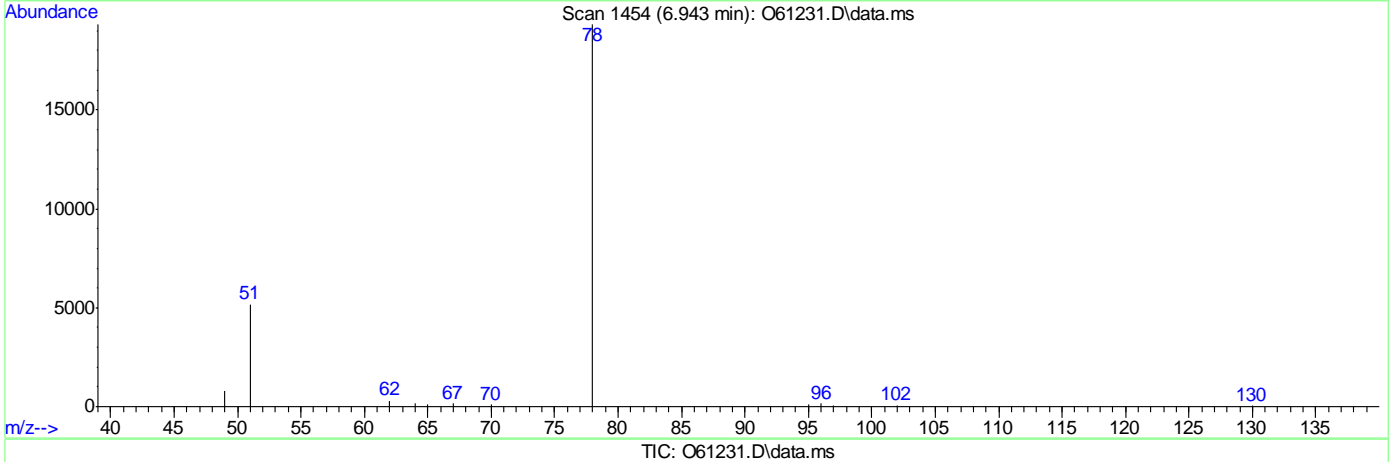
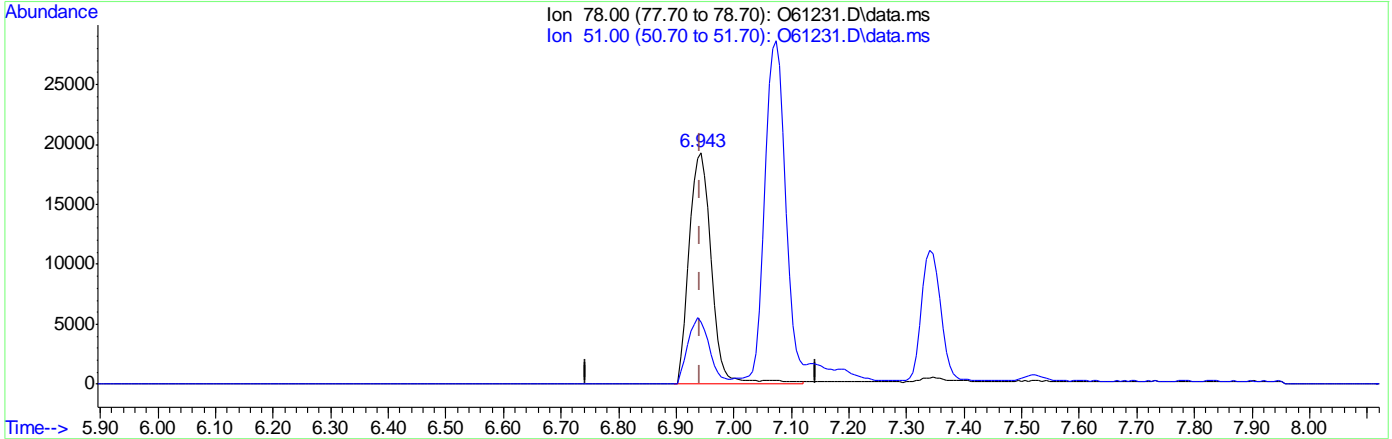
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.58ug/L  
 response 53149

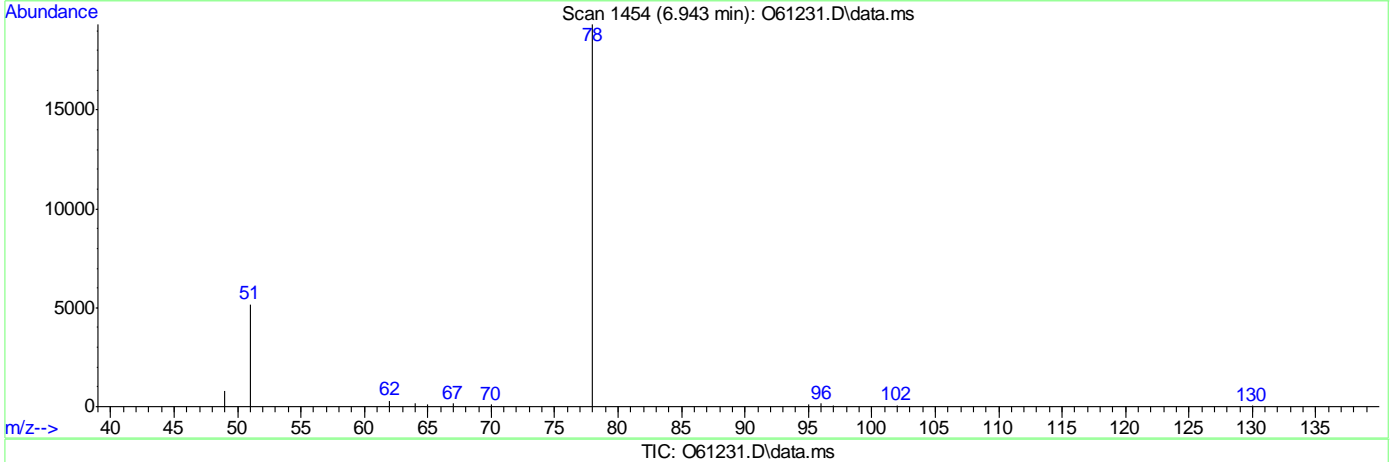
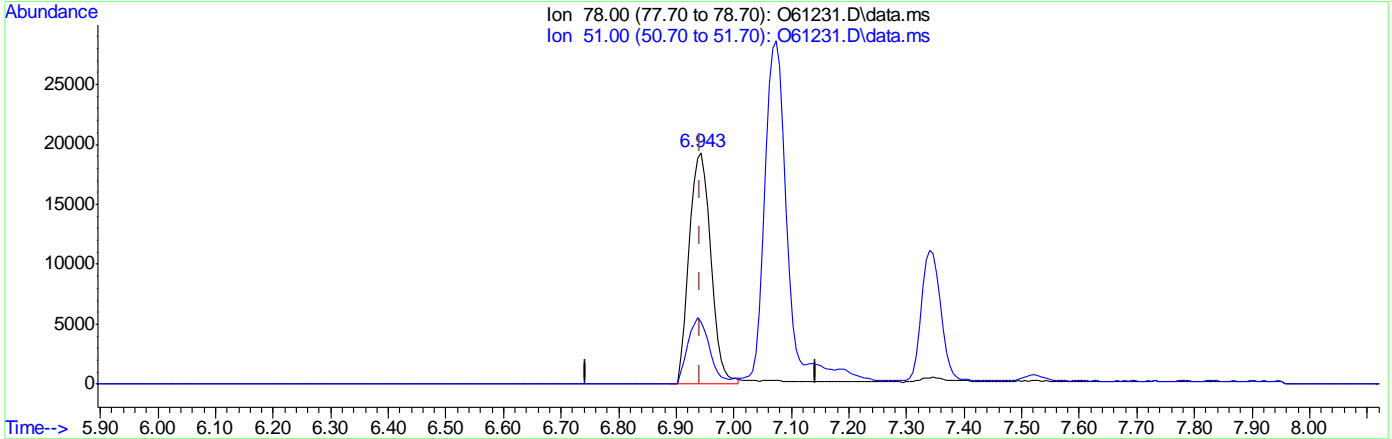
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.56ug/L m  
 response 51252

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	317169	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	244669	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	131106	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	94.20%		
19) Toluene-d8	8.900	98	274860	4.60	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.912	62	72414	2.35	ug/L		97
3) Chloromethane	2.810	50	108758	2.40	ug/L		94
4) 1,1-Dichloroethene	4.100	61	84017	1.96	ug/L		92
5) Methylene Chloride	4.707	49	235781	3.07	ug/L		98
6) trans-1,2-Dichloroethene	4.873	61	98273	1.88	ug/L		82
7) 1,1-Dichloroethane	5.518	63	114595	1.92	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	55181	2.08	ug/L #		81
9) Chloroform	6.339	83	96882	2.01	ug/L		96
10) Carbon Tetrachloride	6.510	117	64256	2.13	ug/L		87
11) 1,1,1-Trichloroethane	6.582	97	73085	2.10	ug/L		93
12) Benzene	6.943	78	190849m	2.02	ug/L		
14) 1,2-Dichloroethane	7.145	62	94612	1.82	ug/L		91
15) Trichloroethene	7.518	95	56329	2.04	ug/L		86
16) 1,2-Dichloropropane	8.043	63	65843	1.91	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	63086	1.64	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	59845	1.60	ug/L		98
21) Tetrachloroethene	9.343	166	52774	2.22	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	108631	2.11	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	18565	1.37	ug/L		96

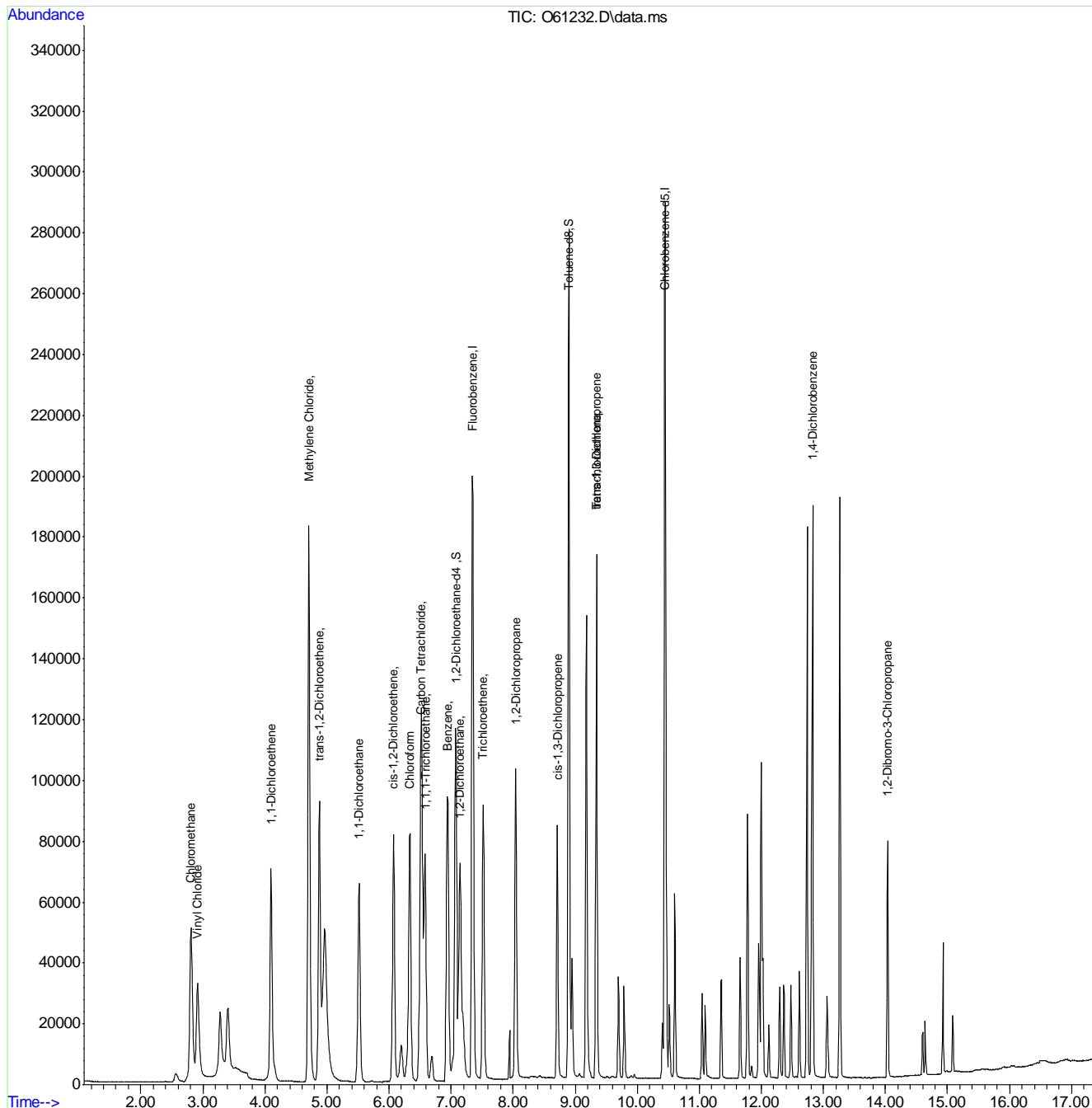
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.3  
7



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61232.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:14      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.3.1

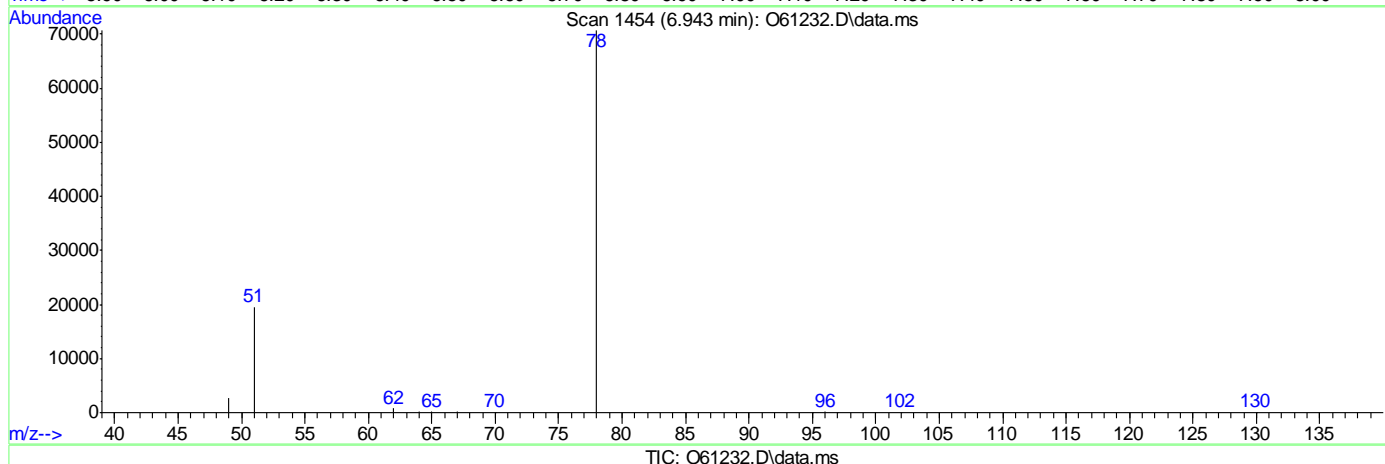
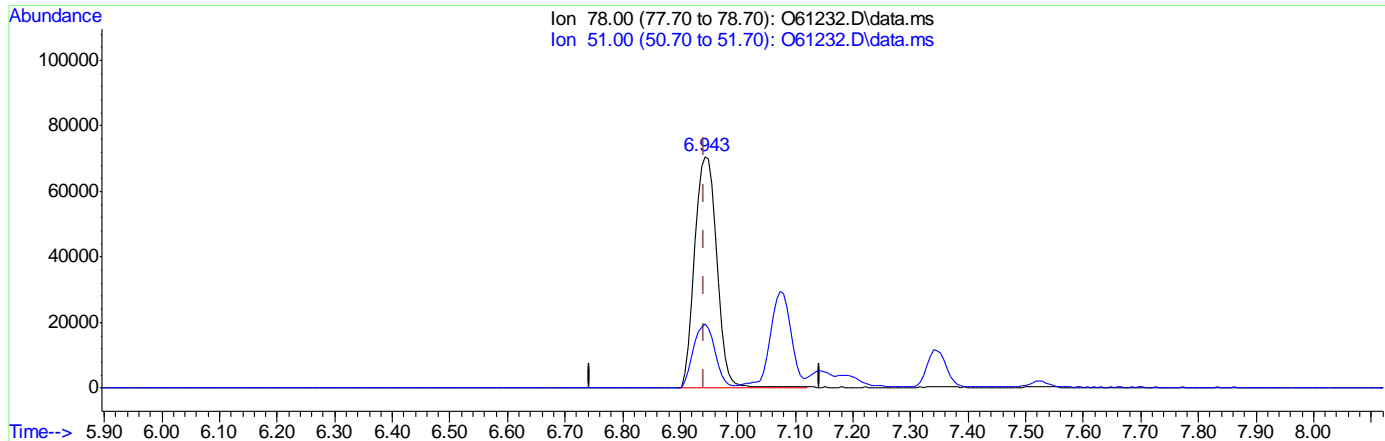
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 2.05ug/L  
 response 193530

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

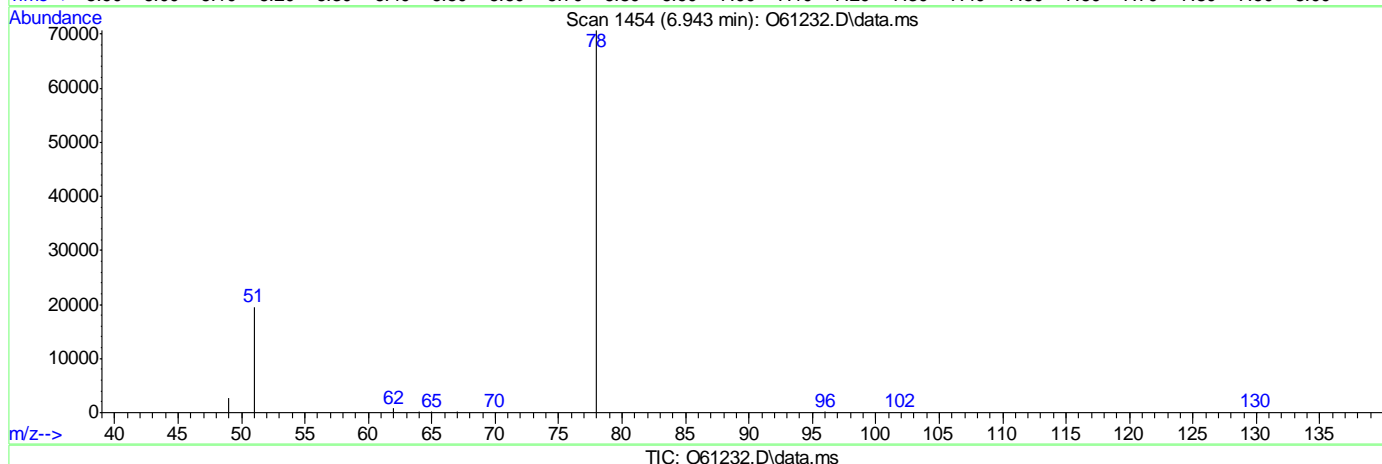
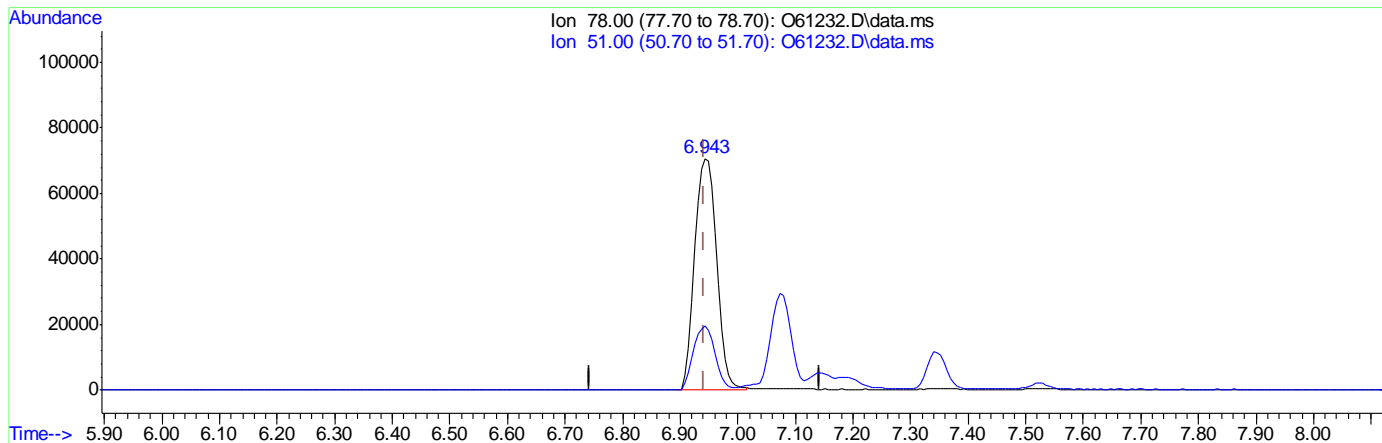
7.6.3.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 2.02ug/L m

response 190849

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

7.63.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	331492	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	258539	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	143850	4.94	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.80%	
19) Toluene-d8	8.900	98	286563	4.53	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.60%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.916	62	189960	6.08	ug/L	98
3) Chloromethane	2.810	50	274617	5.99	ug/L	94
4) 1,1-Dichloroethene	4.100	61	243476	5.42	ug/L	92
5) Methylene Chloride	4.707	49	387657	4.95	ug/L	99
6) trans-1,2-Dichloroethene	4.873	61	280716	5.19	ug/L	83
7) 1,1-Dichloroethane	5.518	63	322308	5.17	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	156323	5.64	ug/L #	81
9) Chloroform	6.339	83	274074	5.43	ug/L	96
10) Carbon Tetrachloride	6.517	117	189329	6.01	ug/L	88
11) 1,1,1-Trichloroethane	6.582	97	213837	5.87	ug/L	93
12) Benzene	6.943	78	539806m	5.49	ug/L	
14) 1,2-Dichloroethane	7.145	62	258506	4.75	ug/L	90
15) Trichloroethene	7.518	95	161314	5.59	ug/L	88
16) 1,2-Dichloropropane	8.044	63	181717	5.06	ug/L	93
17) cis-1,3-Dichloropropene	8.711	75	182931	4.54	ug/L	99
20) trans-1,3-Dichloropropene	9.343	75	176190	4.47	ug/L	99
21) Tetrachloroethene	9.343	166	150705	6.02	ug/L	98
22) 1,4-Dichlorobenzene	12.827	146	311628	5.72	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	52936	3.70	ug/L	90

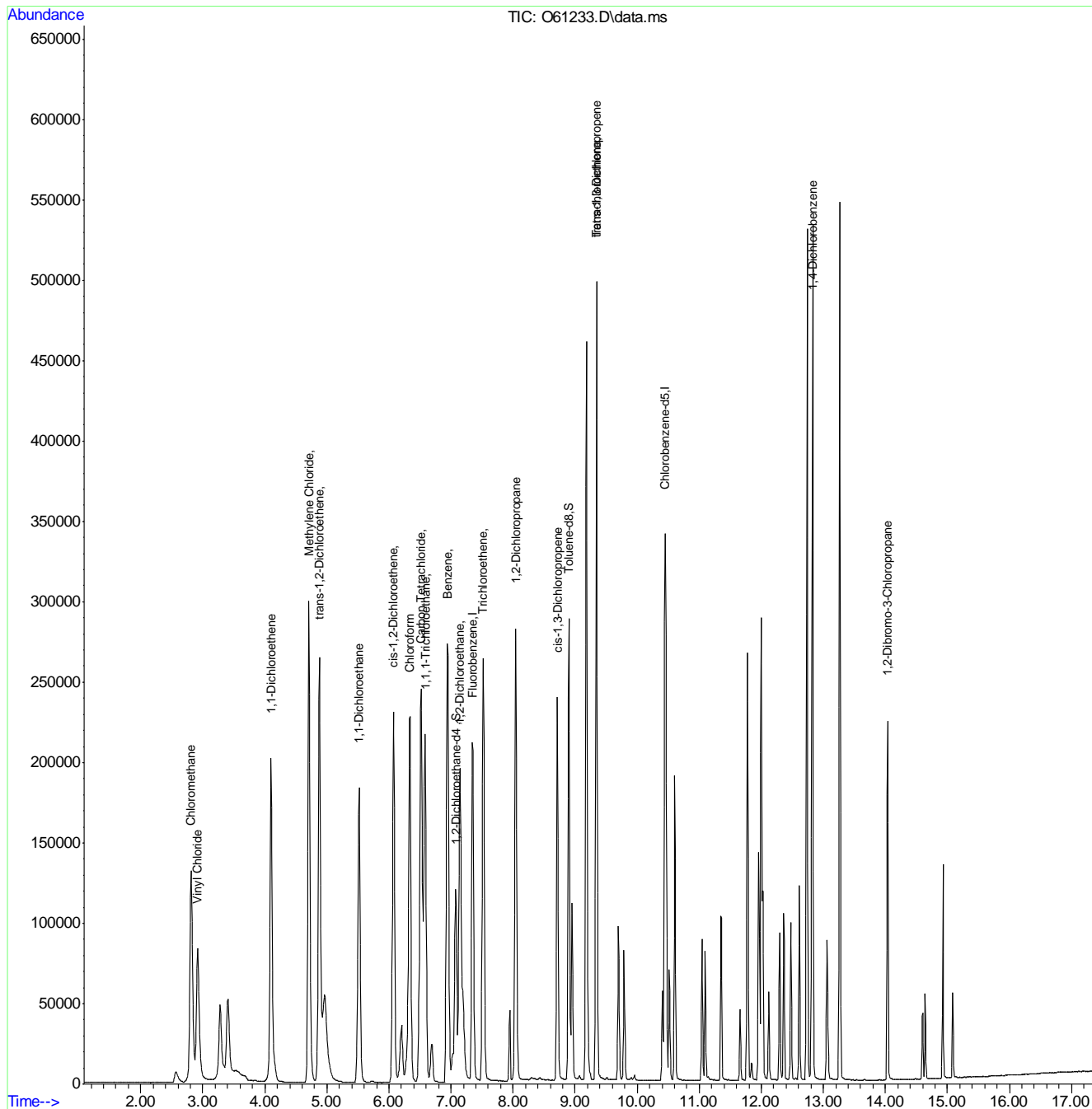
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61233.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:35      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

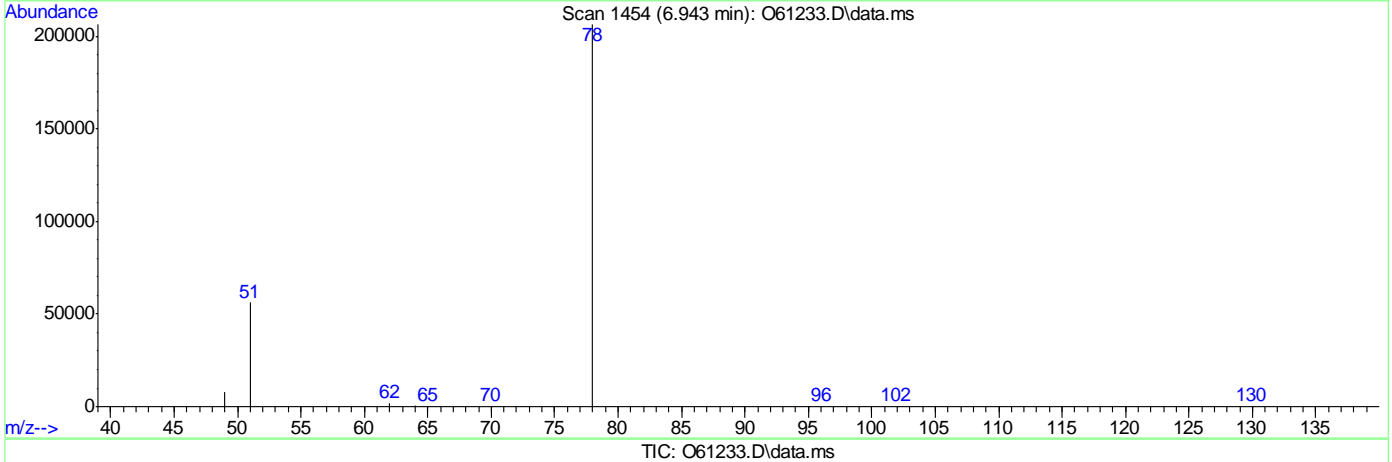
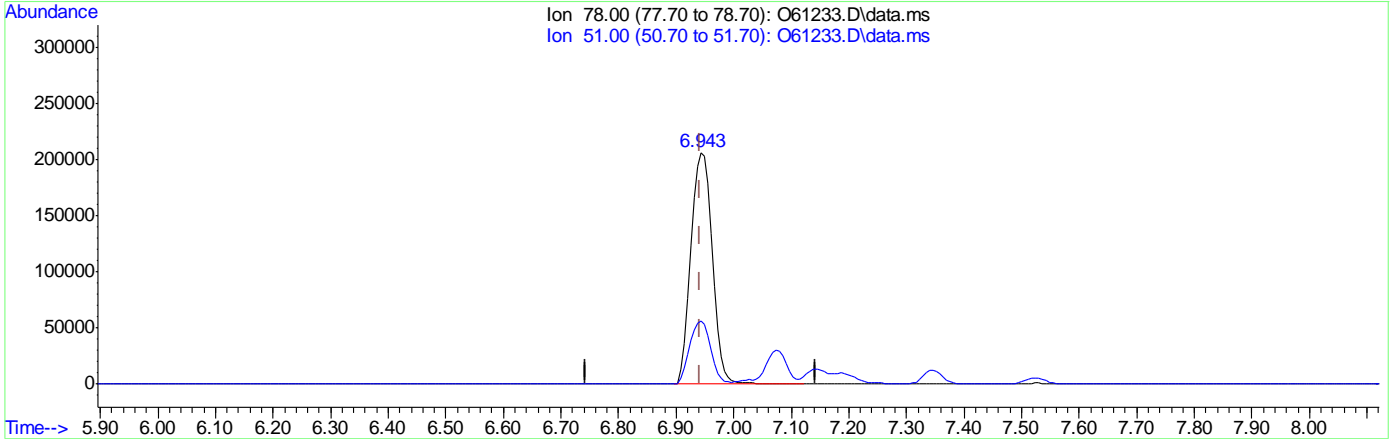
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 5.54ug/L  
 response 544298

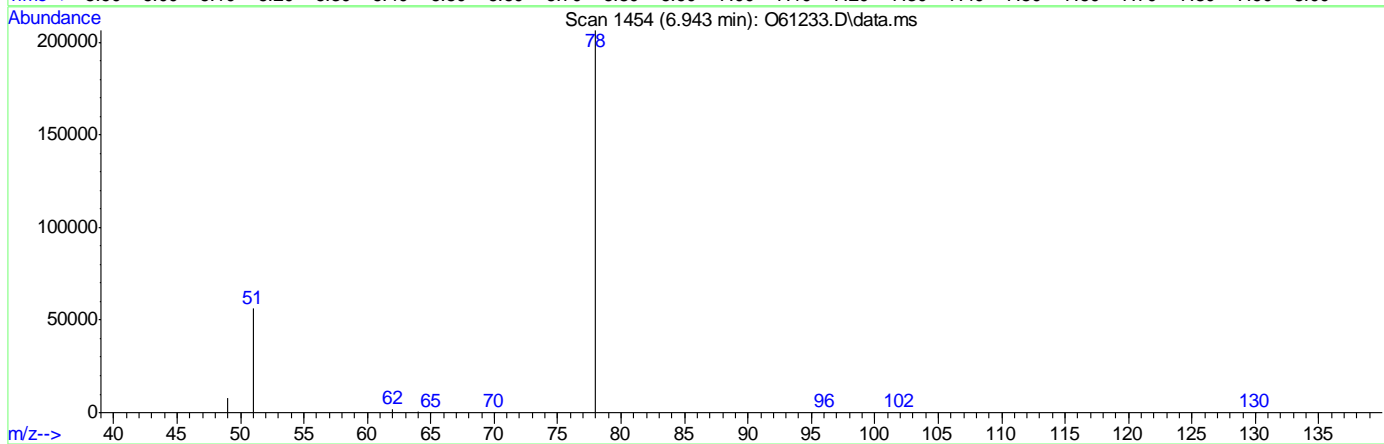
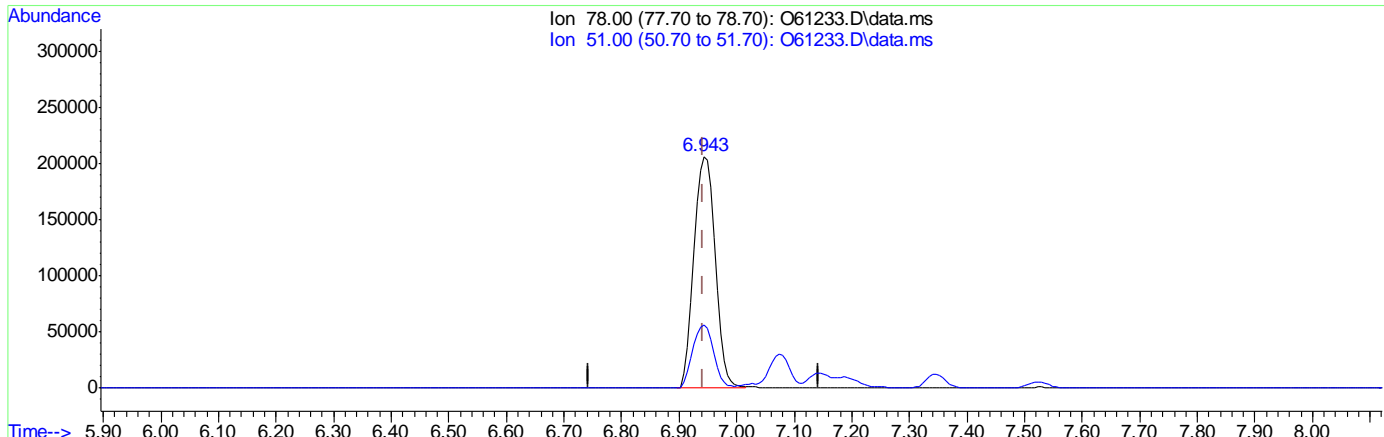
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.49ug/L m

response 539806

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.4.3  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICC2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	367891	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	288681	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	143276	4.43	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%		
19) Toluene-d8	8.900	98	317520	4.50	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	385419	11.68	ug/L		97
3) Chloromethane	2.807	50	542034	11.18	ug/L		93
4) 1,1-Dichloroethene	4.096	61	516893	10.38	ug/L		93
5) Methylene Chloride	4.703	49	746865	9.11	ug/L		99
6) trans-1,2-Dichloroethene	4.873	61	592225	10.01	ug/L		86
7) 1,1-Dichloroethane	5.514	63	676382	9.78	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	333880	10.85	ug/L		84
9) Chloroform	6.333	83	573497	10.24	ug/L		97
10) Carbon Tetrachloride	6.511	117	409043	11.71	ug/L		87
11) 1,1,1-Trichloroethane	6.582	97	456875	11.31	ug/L		94
12) Benzene	6.943	78	1143203m	10.51	ug/L		
14) 1,2-Dichloroethane	7.145	62	542073	8.97	ug/L		90
15) Trichloroethene	7.518	95	346969	10.84	ug/L		88
16) 1,2-Dichloropropane	8.043	63	380072	9.56	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	405529	9.07	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	393915	8.95	ug/L		97
21) Tetrachloroethene	9.343	166	320442	11.51	ug/L		98
22) 1,4-Dichlorobenzene	12.827	146	679269	11.17	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.038	75	120855	7.57	ug/L		87

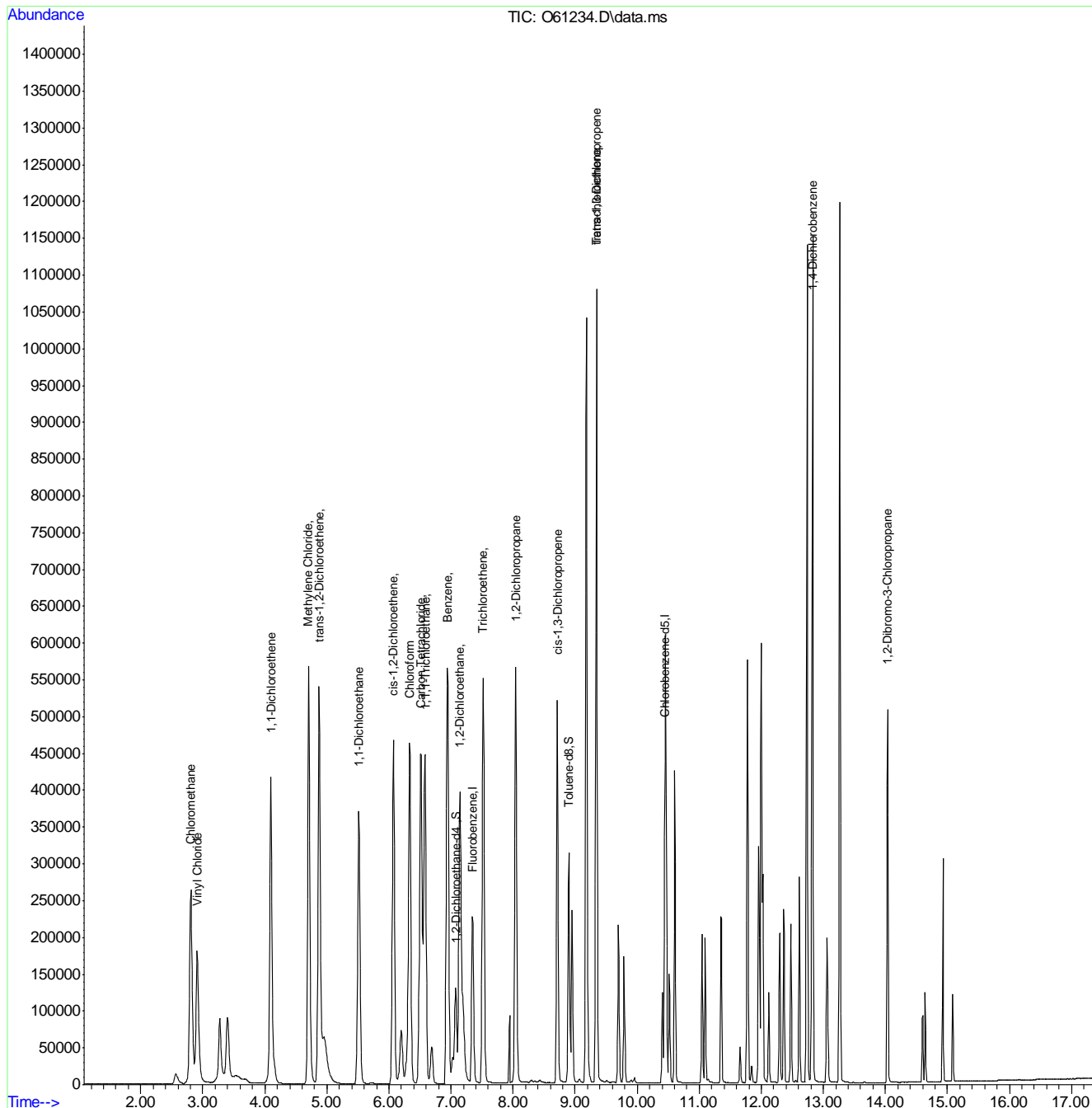
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICc2356-5  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.5  
7

# Manual Integration Approval Summary

**Sample Number:** VO2356-ICC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61234.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:55      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

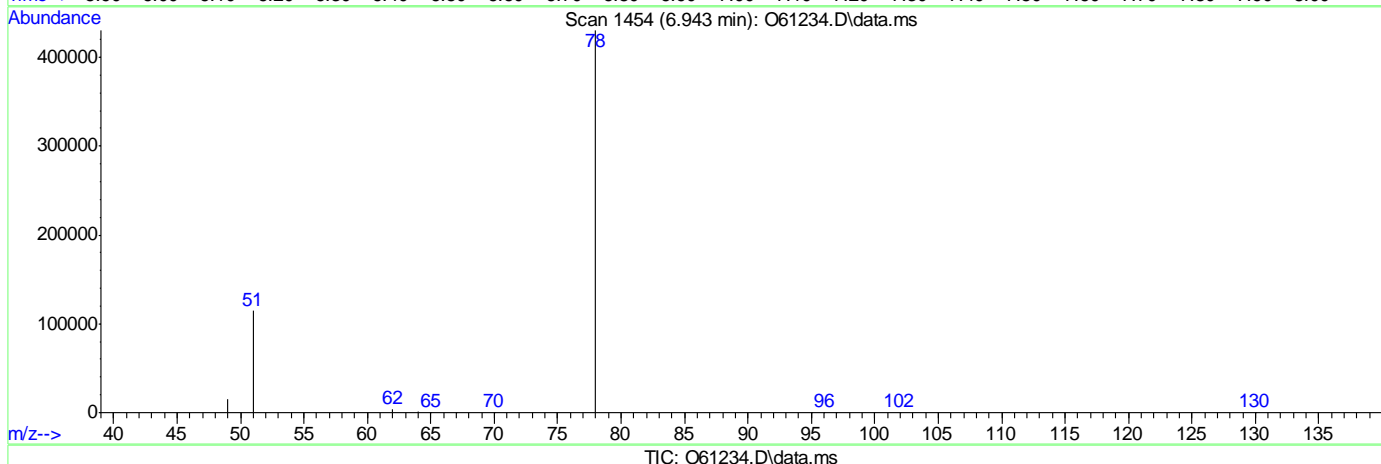
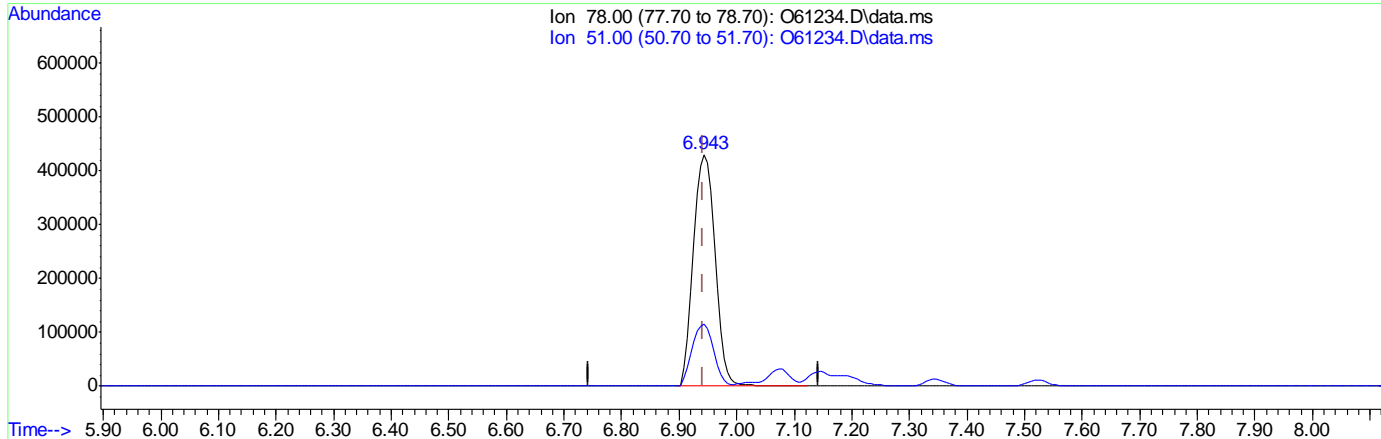
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 10.57ug/L

response 1149895

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

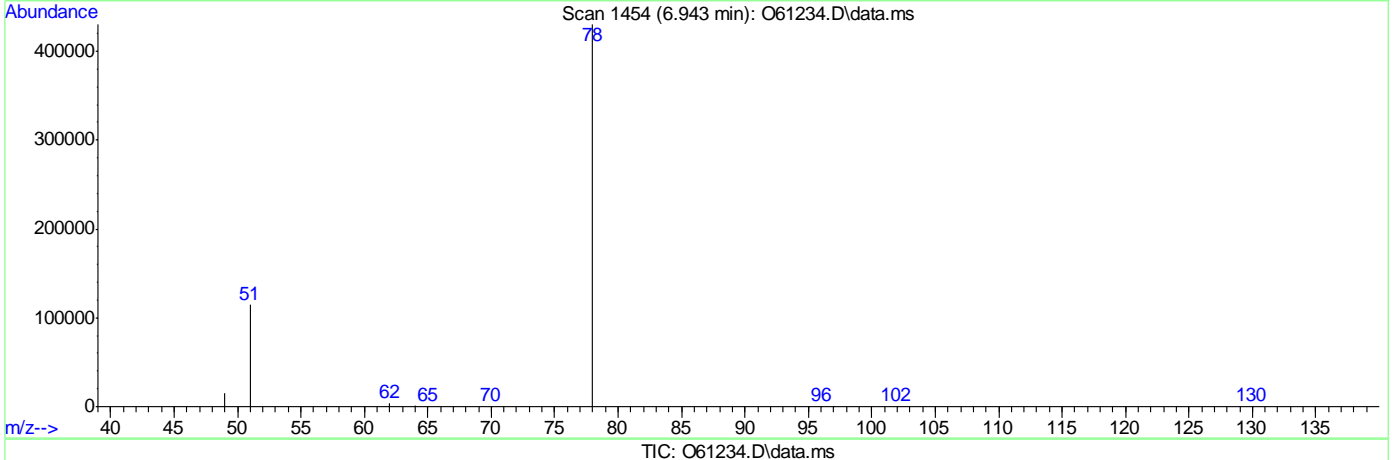
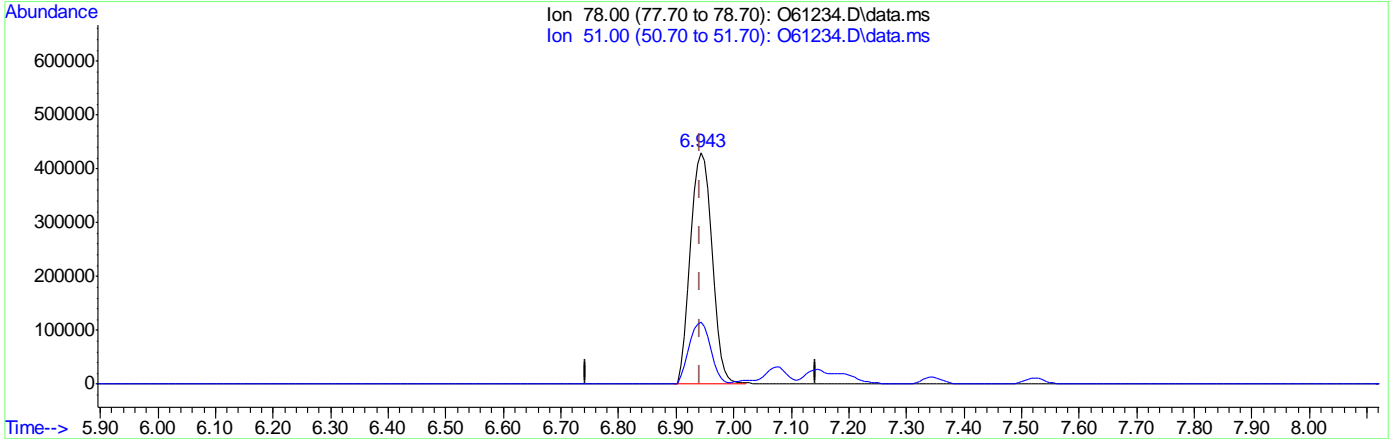
7.6.5.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.51ug/L m  
 response 1143203

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	393958	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	307376	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	153155	4.43	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%		
19) Toluene-d8	8.896	98	343376	4.57	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	581790	17.36	ug/L		98
3) Chloromethane	2.791	50	805942	16.33	ug/L		94
4) 1,1-Dichloroethene	4.085	61	794045	14.88	ug/L		93
5) Methylene Chloride	4.696	49	1121963	13.69	ug/L		100
6) trans-1,2-Dichloroethene	4.861	61	919410	14.72	ug/L		84
7) 1,1-Dichloroethane	5.506	63	1045292	14.12	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	524339	15.91	ug/L		84
9) Chloroform	6.333	83	891365	14.86	ug/L		97
10) Carbon Tetrachloride	6.505	117	634944	16.97	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	713480	16.49	ug/L		94
12) Benzene	6.943	78	1776329m	15.29	ug/L		
14) 1,2-Dichloroethane	7.139	62	860563	13.30	ug/L		90
15) Trichloroethene	7.512	95	544590	15.88	ug/L		90
16) 1,2-Dichloropropane	8.040	63	594236	13.99	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	663239	13.85	ug/L		93
20) trans-1,3-Dichloropropene	9.343	75	651125	13.89	ug/L		95
21) Tetrachloroethene	9.337	166	499062	16.90	ug/L		92
22) 1,4-Dichlorobenzene	12.827	146	1064594	16.45	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	202684	11.92	ug/L		90

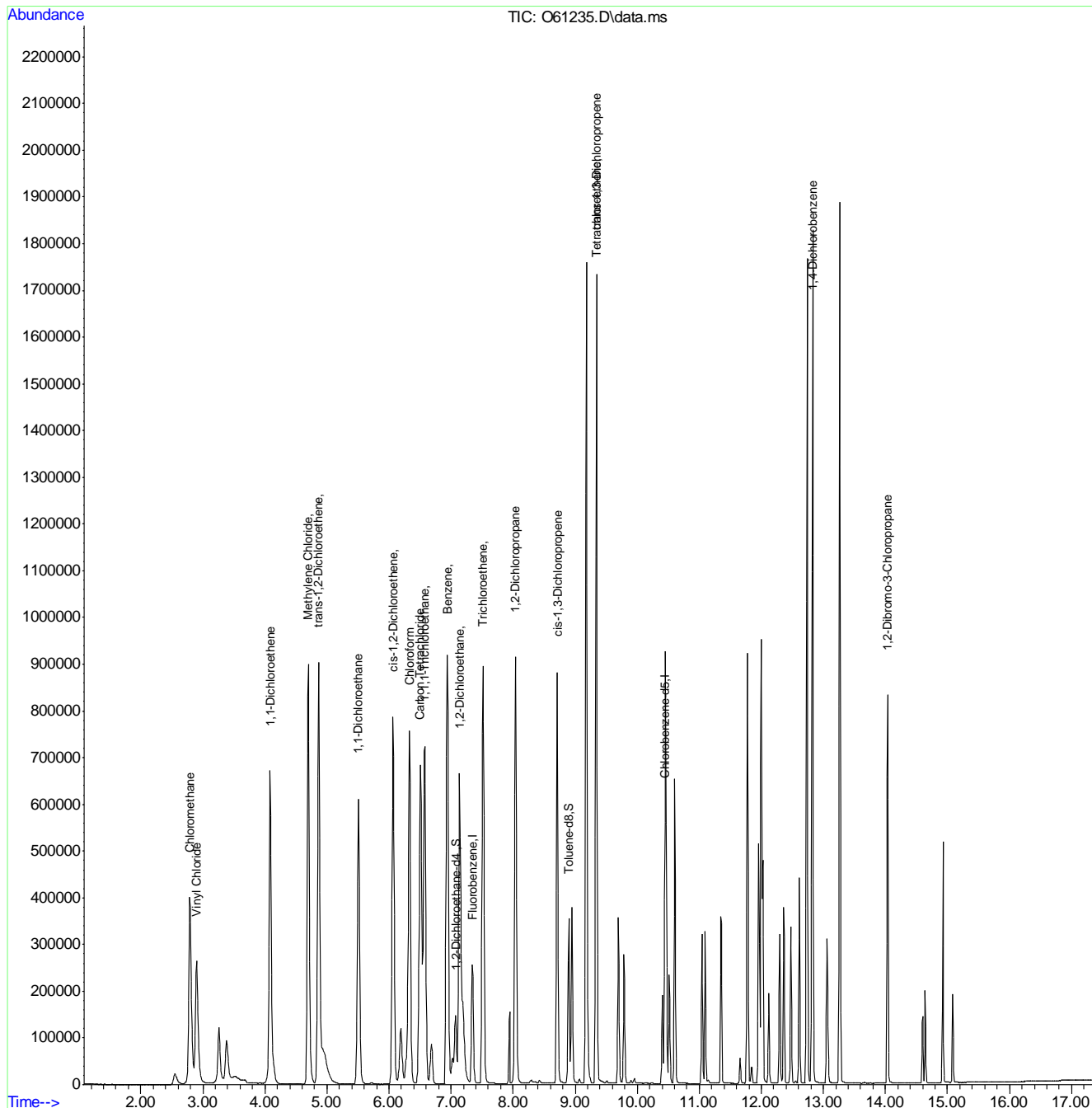
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



9.9.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61235.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:15      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.6.1

7

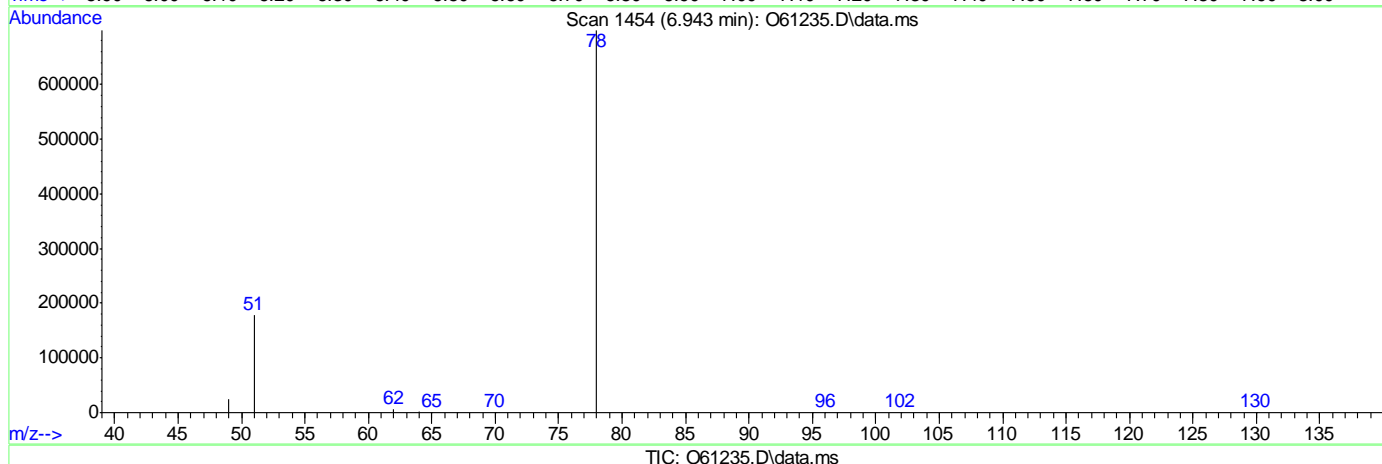
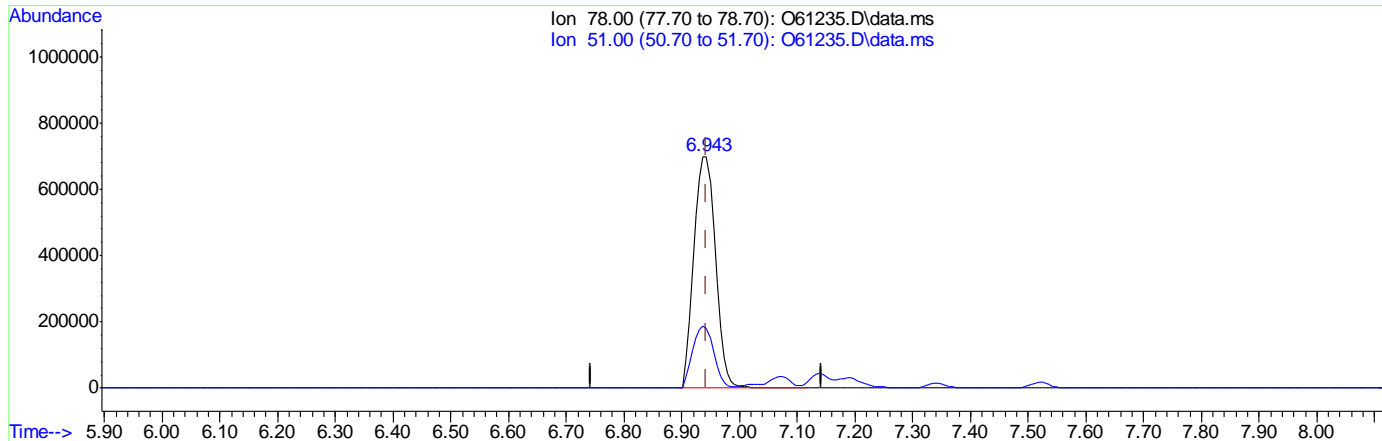


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 15.36ug/L

response 1784608

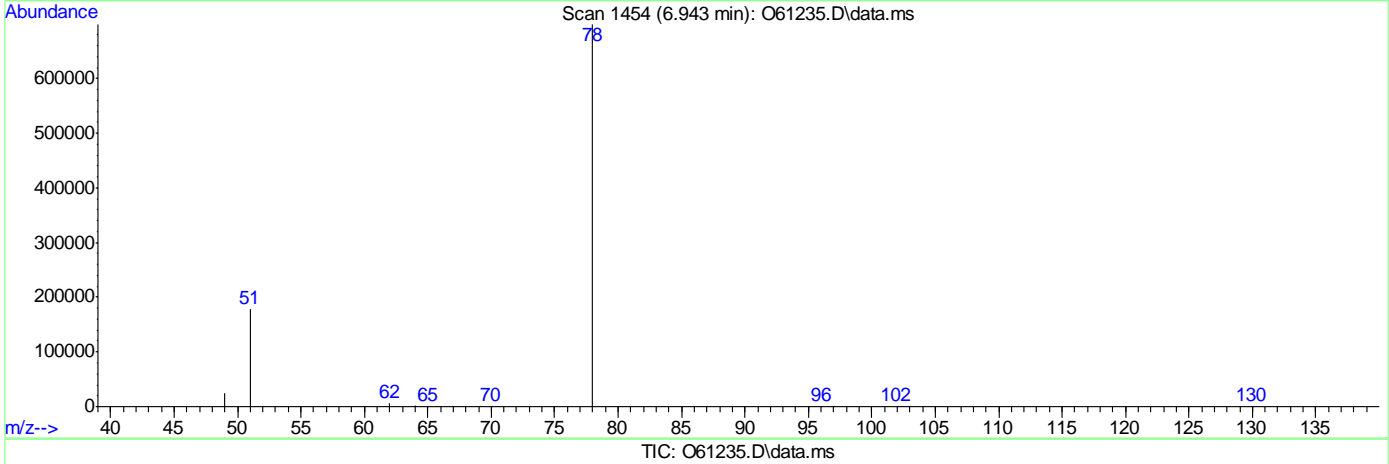
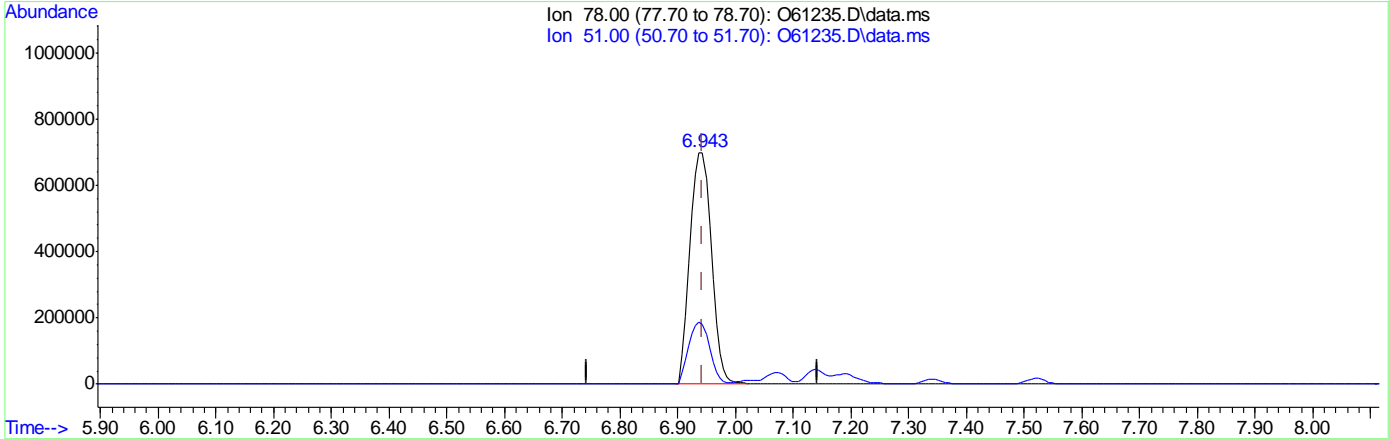
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00

7.6.6.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 15.29ug/L m  
 response 1776329

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.352	96	430313	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	330631	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	166372	4.40	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.00%		
19) Toluene-d8	8.900	98	374232	4.63	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	814030	23.66	ug/L		98
3) Chloromethane	2.803	50	1116385	21.95	ug/L		94
4) 1,1-Dichloroethene	4.092	61	1194148	20.49	ug/L		94
5) Methylene Chloride	4.703	49	1613536	19.98	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	1391011	20.75	ug/L		85
7) 1,1-Dichloroethane	5.514	63	1560149	19.30	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	791148	21.98	ug/L		85
9) Chloroform	6.333	83	1332932	20.34	ug/L		97
10) Carbon Tetrachloride	6.510	117	982791	24.05	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	1094990	23.17	ug/L		95
12) Benzene	6.943	78	2670290m	21.11	ug/L		
14) 1,2-Dichloroethane	7.145	62	1260966	17.85	ug/L		89
15) Trichloroethene	7.518	95	818610	21.86	ug/L		88
16) 1,2-Dichloropropane	8.043	63	893916	19.34	ug/L		91
17) cis-1,3-Dichloropropene	8.711	75	1001044	19.14	ug/L		95
20) trans-1,3-Dichloropropene	9.343	75	975862	19.36	ug/L		94
21) Tetrachloroethene	9.343	166	748457	23.68	ug/L		97
22) 1,4-Dichlorobenzene	12.827	146	1570512	22.56	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	297989	16.29	ug/L		91

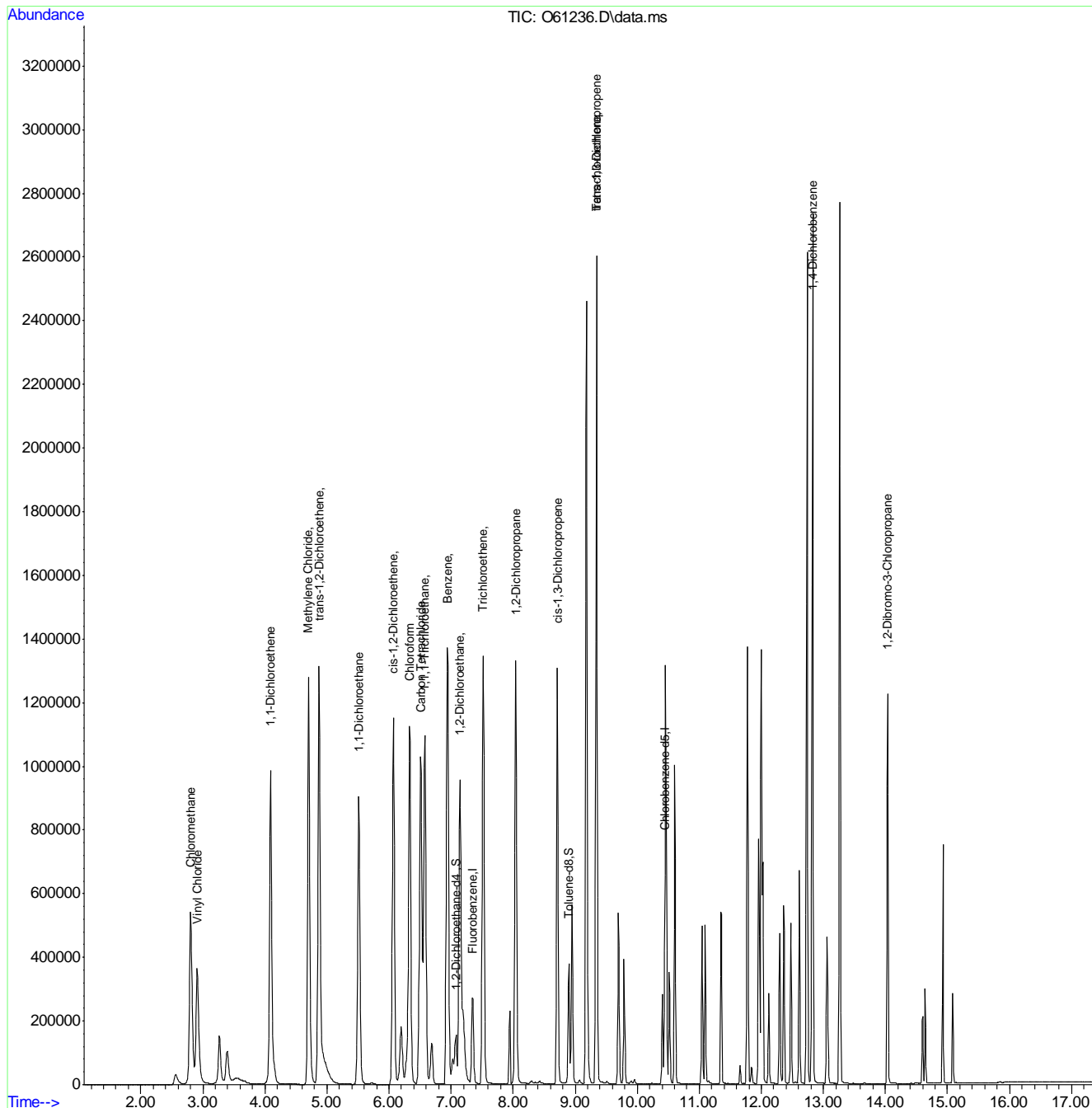
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61236.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:36      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

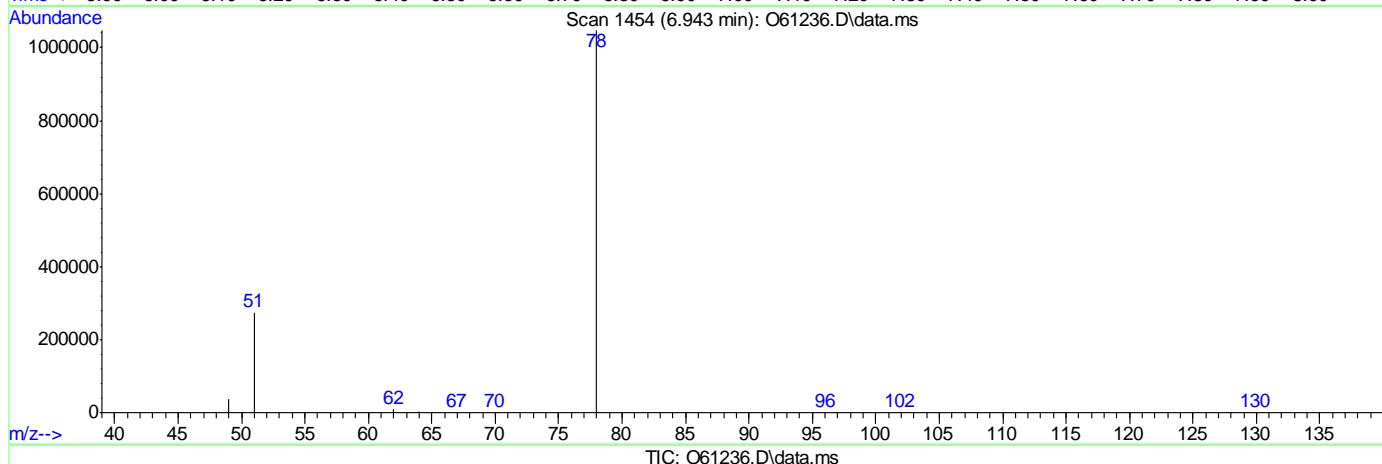
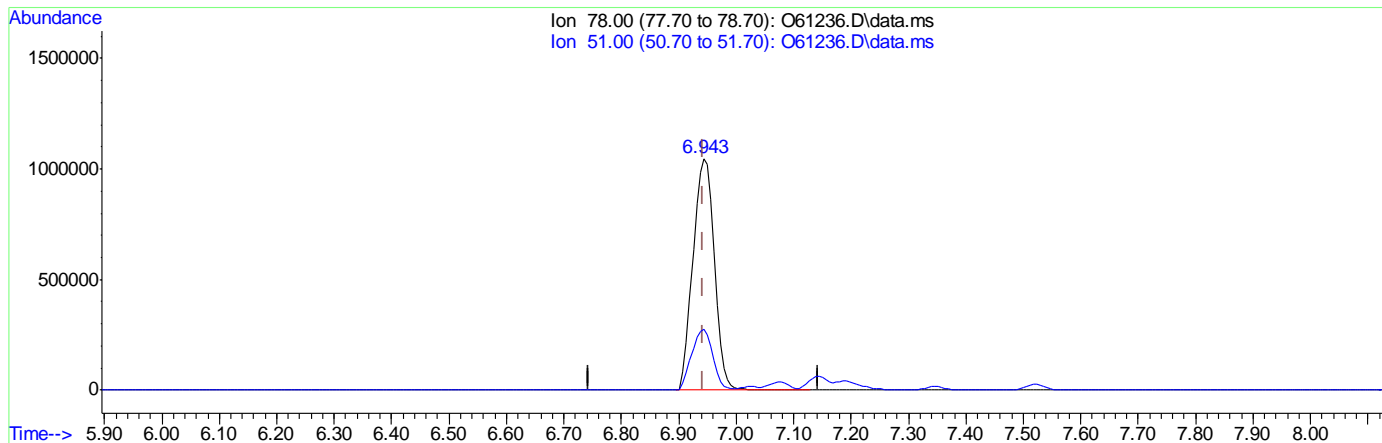
7.6.7.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (-0.000) 21.23ug/L

response 2686132

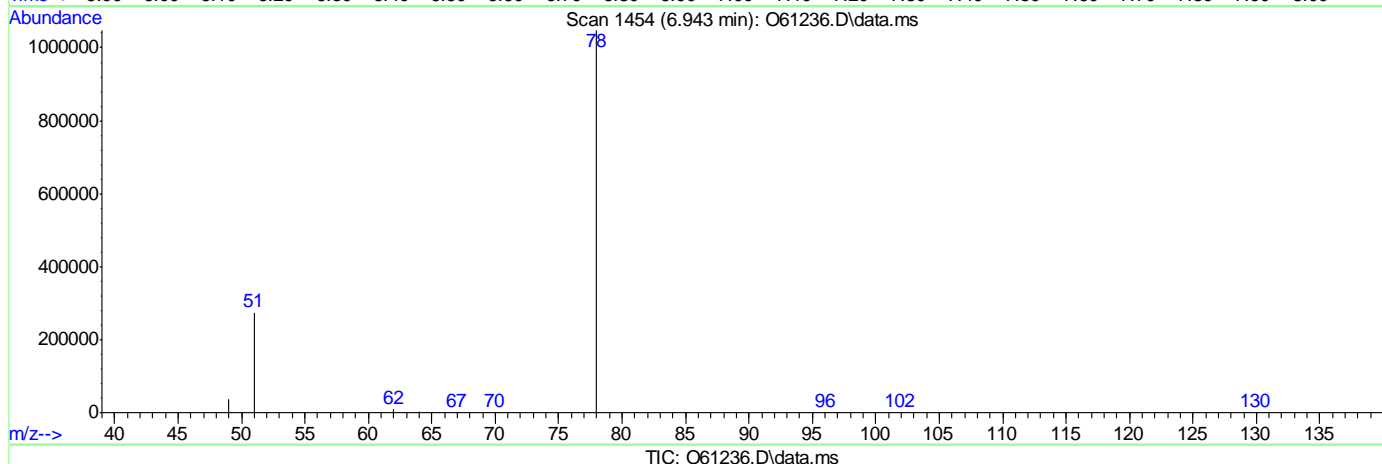
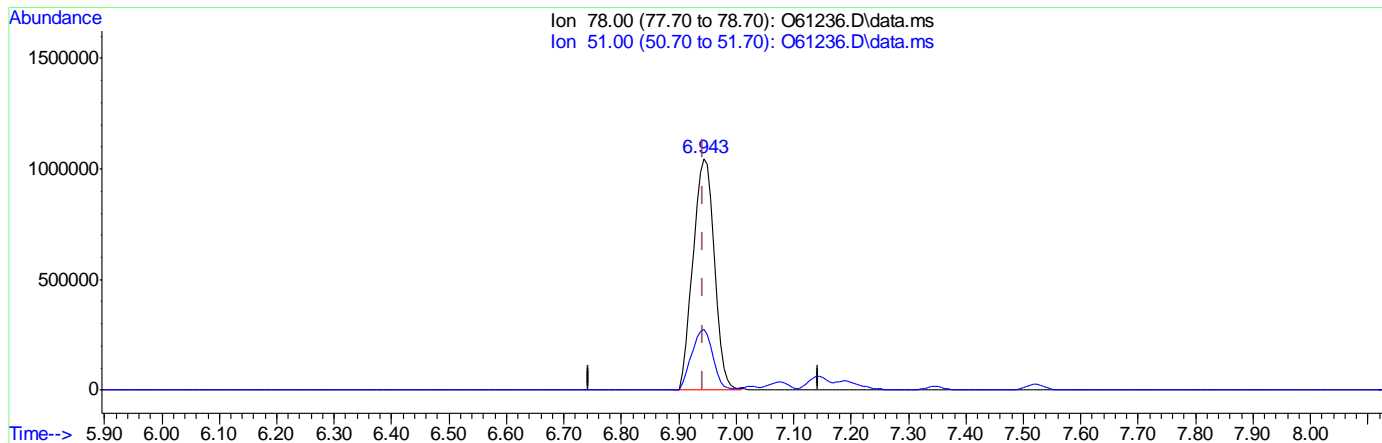
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (-0.000) 21.11ug/L m  
 response 2670290

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	392529	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	305591	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	151418	4.78	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	95.60%		
19) Toluene-d8	8.896	98	341369	4.95	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.905	62	359054	8.49	ug/L		98
3) Chloromethane	2.803	50	507353	8.27	ug/L		94
4) 1,1-Dichloroethene	4.092	61	507491	9.35	ug/L		91
5) Methylene Chloride	4.703	49	755284	8.89	ug/L		99
6) trans-1,2-Dichloroethene	4.869	61	597300	9.53	ug/L		84
7) 1,1-Dichloroethane	5.514	63	694519	9.54	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	347499	9.66	ug/L		85
9) Chloroform	6.333	83	585017	9.34	ug/L		97
10) Carbon Tetrachloride	6.511	117	409874	9.60	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	455396	9.43	ug/L		94
12) Benzene	6.943	78	1221796	10.10	ug/L		100
14) 1,2-Dichloroethane	7.139	62	581587	9.82	ug/L		90
15) Trichloroethene	7.518	95	365705	9.91	ug/L		88
16) 1,2-Dichloropropane	8.043	63	408716	10.10	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	449848	10.71	ug/L		94
20) trans-1,3-Dichloropropene	9.343	75	443597	11.04	ug/L		95
21) Tetrachloroethene	9.343	166	323529	9.60	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	714911	10.10	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	131759	10.13	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.8  
7

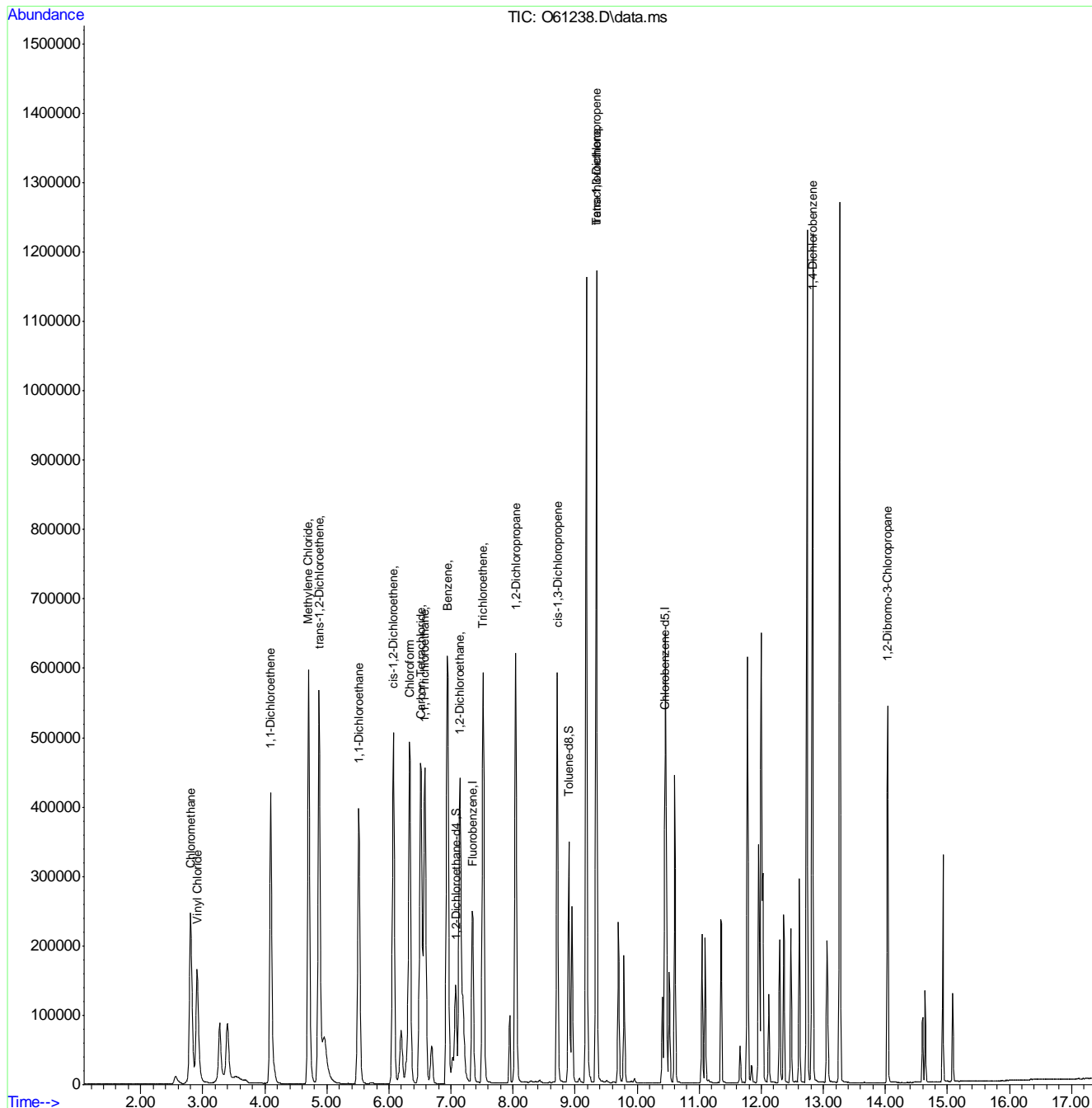


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

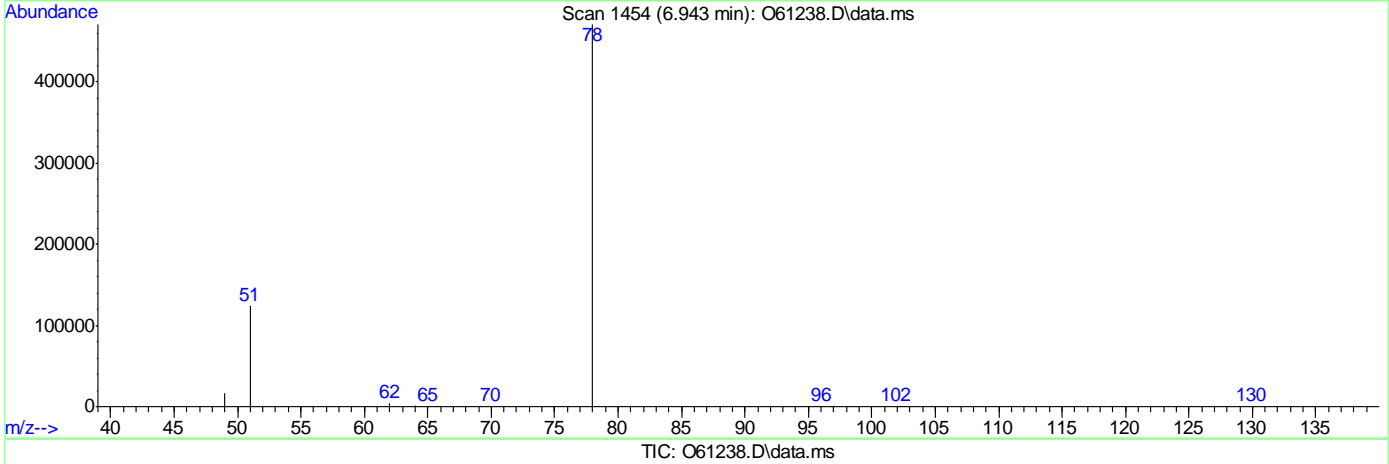
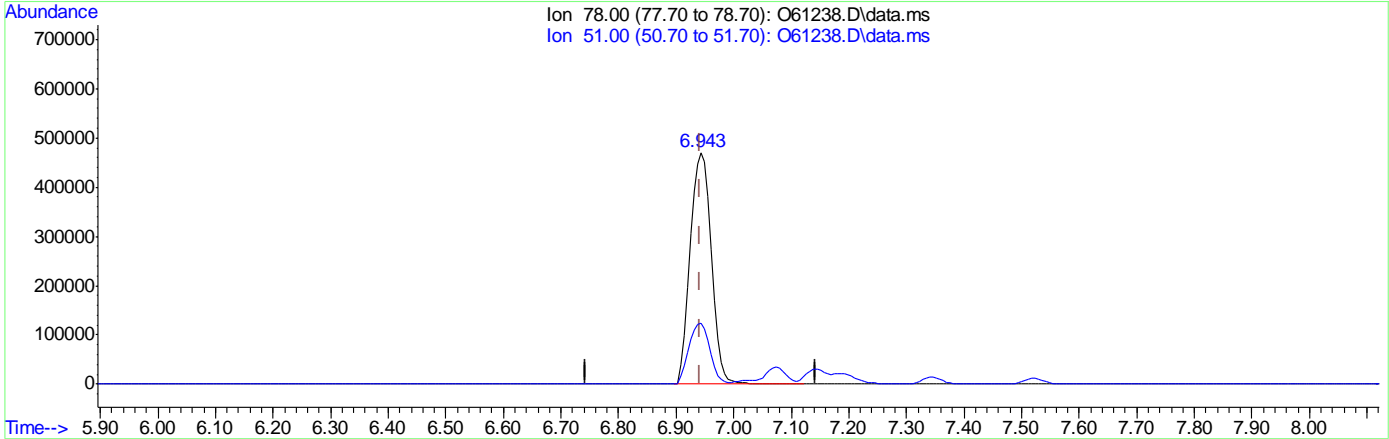


8'9'7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.10ug/L  
 response 1221796

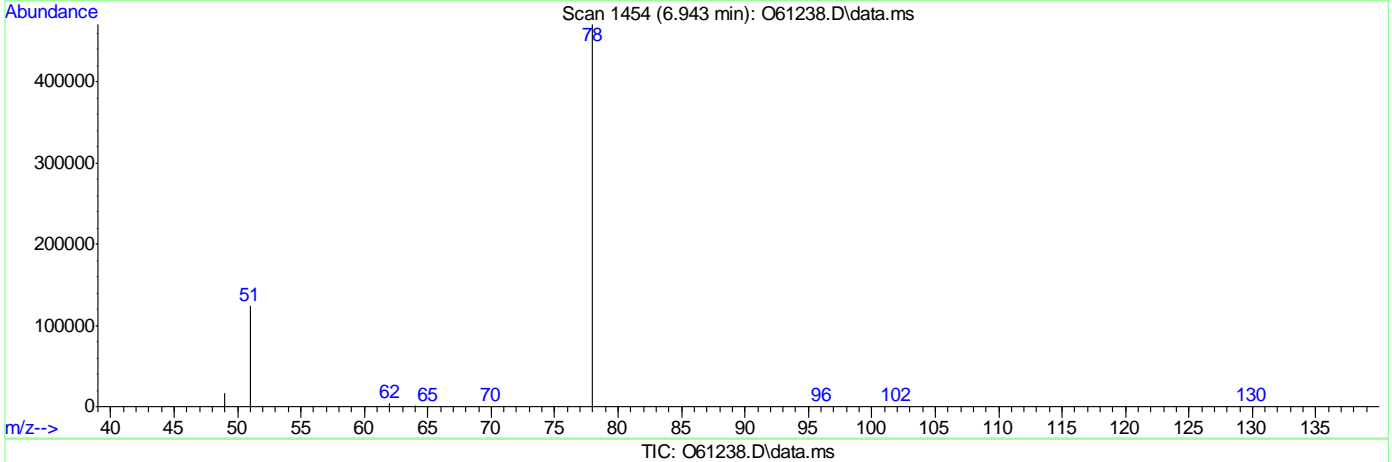
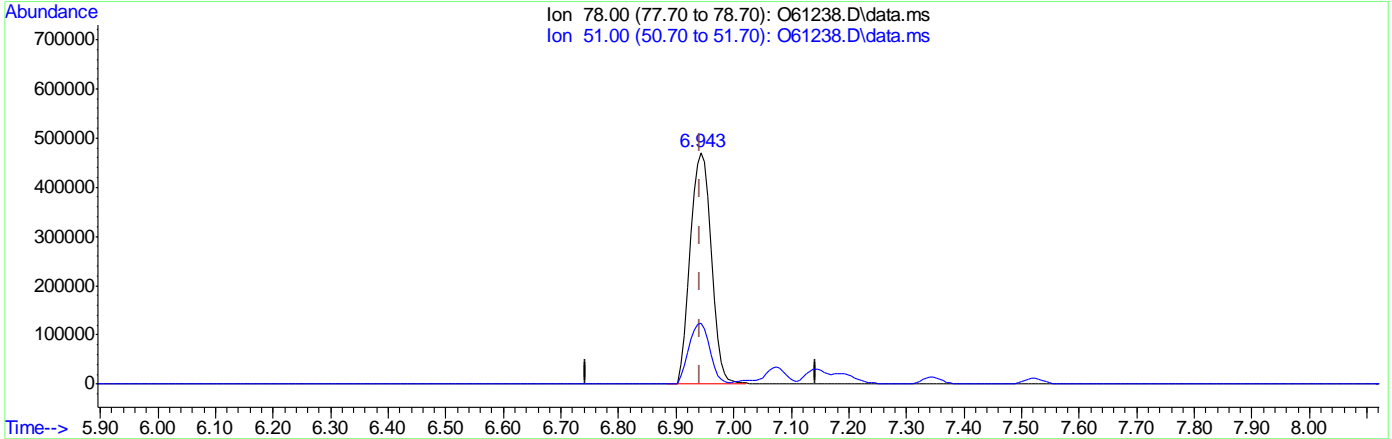
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00

7.68.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.04ug/L m  
 response 1214827

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61243.d  
 Acq On : 11 Sep 2020 8:15 pm  
 Operator : stutip  
 Sample : CC2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 03:05:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	355114	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	279352	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	137830	4.81	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	96.20%		
19) Toluene-d8	8.896	98	308526	4.90	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	333565	8.74	ug/L		98
3) Chloromethane	2.799	50	483381	8.78	ug/L		93
4) 1,1-Dichloroethene	4.089	61	435965	8.88	ug/L		93
5) Methylene Chloride	4.699	49	646373	8.41	ug/L		99
6) trans-1,2-Dichloroethene	4.865	61	501887	8.86	ug/L		86
7) 1,1-Dichloroethane	5.506	63	583989	8.87	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	291316	8.95	ug/L		84
9) Chloroform	6.327	83	500267	8.83	ug/L		97
10) Carbon Tetrachloride	6.505	117	342419	8.87	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	388294	8.89	ug/L		94
12) Benzene	6.943	78	988180m	9.02	ug/L		
14) 1,2-Dichloroethane	7.139	62	484904	9.05	ug/L		90
15) Trichloroethene	7.512	95	296096	8.87	ug/L		90
16) 1,2-Dichloropropane	8.040	63	337355	9.22	ug/L		93
17) cis-1,3-Dichloropropene	8.707	75	361622	9.52	ug/L		97
20) trans-1,3-Dichloropropene	9.343	75	352705	9.60	ug/L		96
21) Tetrachloroethene	9.337	166	273554	8.89	ug/L		94
22) 1,4-Dichlorobenzene	12.821	146	596843	9.22	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	107851	9.13	ug/L		88
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

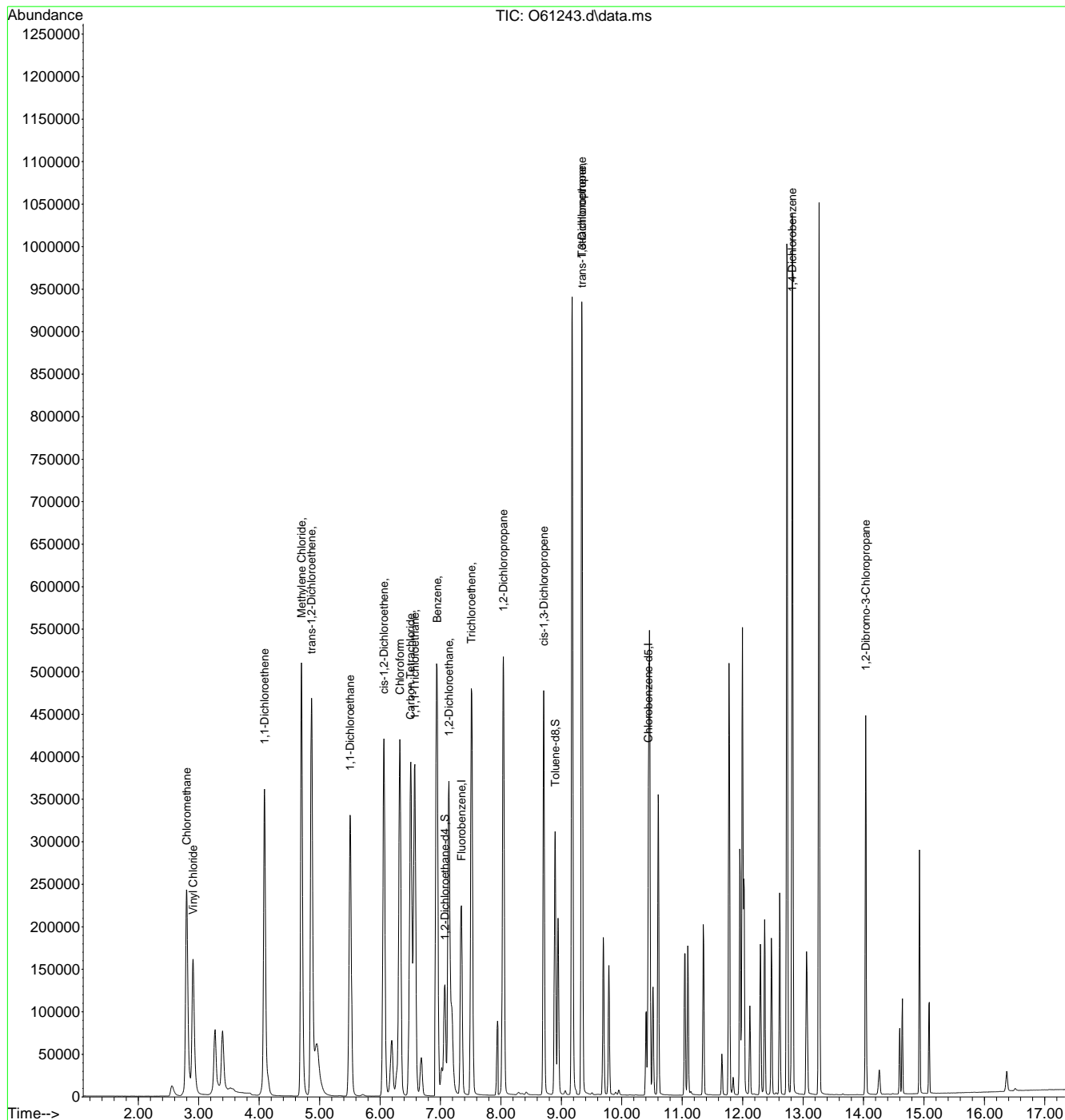
7.6.9  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61243.d  
 Acq On : 11 Sep 2020 8:15 pm  
 Operator : stutip  
 Sample : CC2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 03:05:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



6.9.7



# Manual Integration Approval Summary

**Sample Number:** VO2357-CC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61243.D      **Analyst approved:** 09/14/20 03:32 Edessa Sumagaysay  
**Injection Time:** 09/11/20 20:15      **Supervisor approved:** 09/14/20 14:12 Melissa Mangual

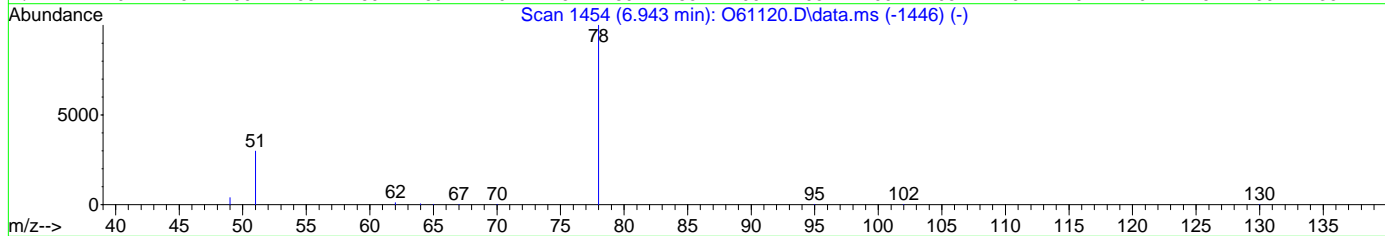
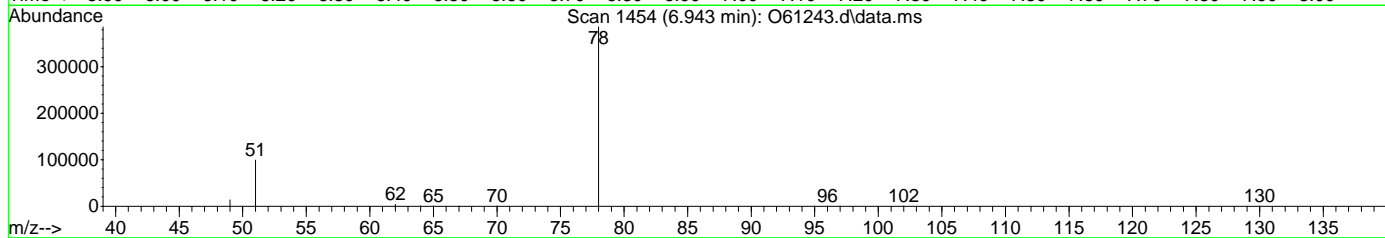
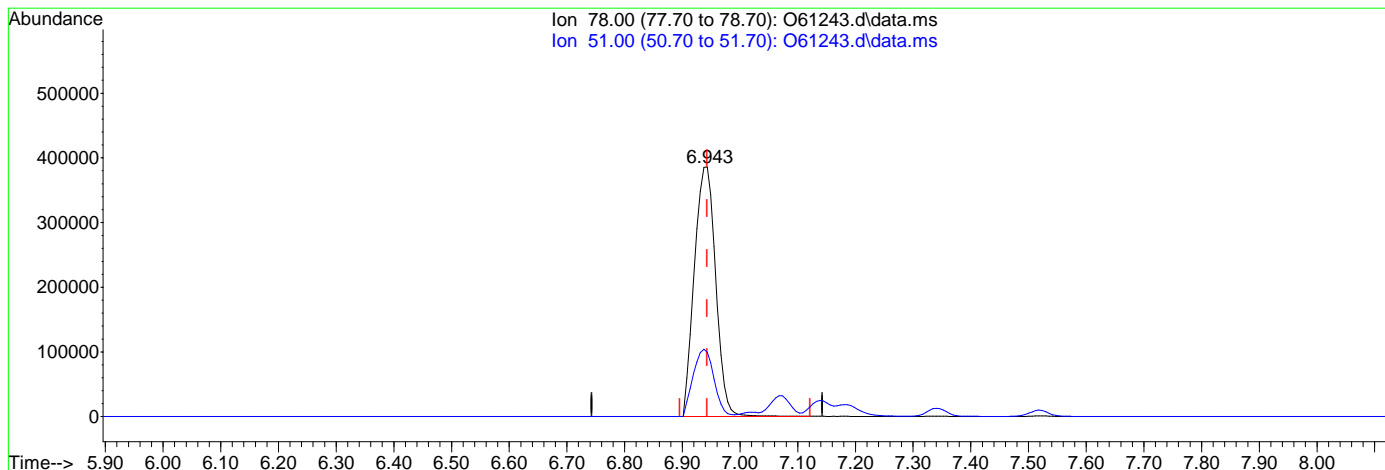
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.9.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61243.d  
 Acq On : 11 Sep 2020 8:15 pm  
 Operator : stutip  
 Sample : CC2356-5  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 02:55:13 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 9.07ug/L

response 993457

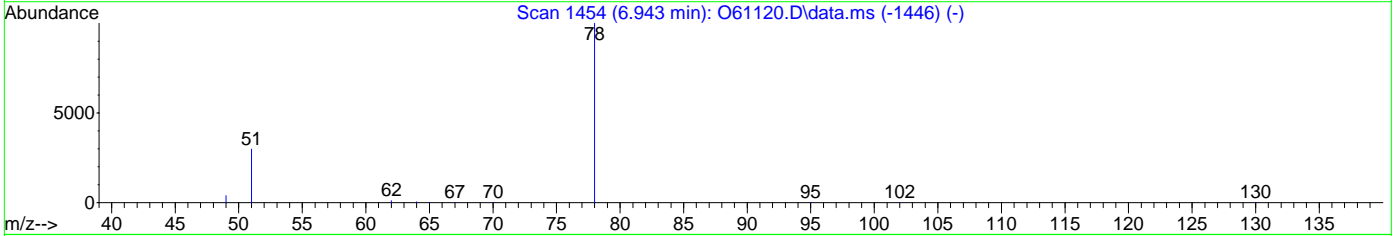
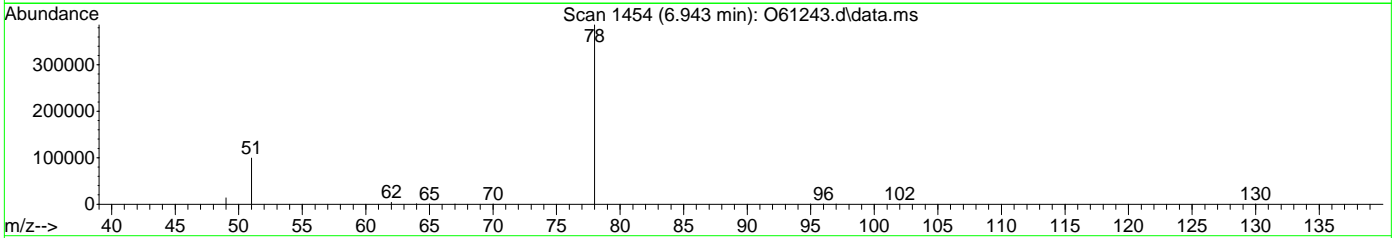
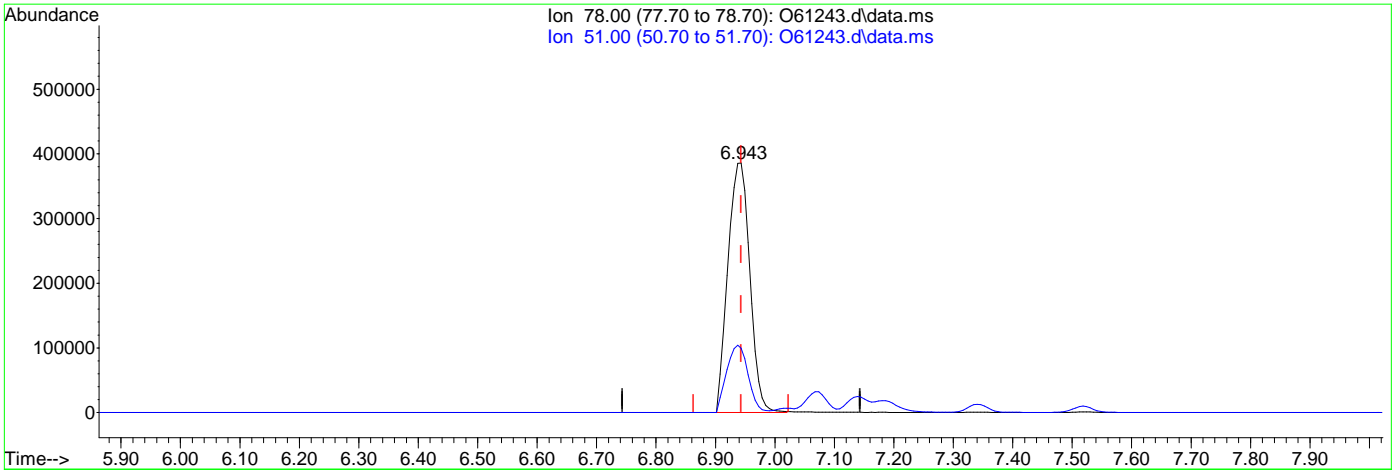
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.76
0.00	0.00	0.00
0.00	0.00	0.00

7.69.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61243.d  
 Acq On : 11 Sep 2020 8:15 pm  
 Operator : stutip  
 Sample : CC2356-5  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 02:55:13 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 9.02ug/L m  
 response 988180

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.76
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61269.d  
 Acq On : 12 Sep 2020 5:18 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 03:18:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	311282	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	243812	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	121203	4.82	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	96.40%		
19) Toluene-d8	8.900	98	261895	4.76	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	338069	10.29	ug/L		98
3) Chloromethane	2.799	50	498654	10.66	ug/L		95
4) 1,1-Dichloroethene	4.089	61	447843	10.41	ug/L		92
5) Methylene Chloride	4.703	49	685977	10.18	ug/L		99
6) trans-1,2-Dichloroethene	4.869	61	522924	10.52	ug/L		85
7) 1,1-Dichloroethane	5.514	63	603923	10.47	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	292076	10.24	ug/L		84
9) Chloroform	6.333	83	506697	10.20	ug/L		96
10) Carbon Tetrachloride	6.511	117	336035	9.93	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	381810	9.97	ug/L		92
12) Benzene	6.943	78	998401m	10.40	ug/L		
14) 1,2-Dichloroethane	7.139	62	489024	10.41	ug/L		92
15) Trichloroethene	7.518	95	296948	10.14	ug/L		87
16) 1,2-Dichloropropane	8.043	63	338578	10.55	ug/L		93
17) cis-1,3-Dichloropropene	8.711	75	335691	10.08	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	331132	10.33	ug/L		98
21) Tetrachloroethene	9.343	166	264326	9.83	ug/L		98
22) 1,4-Dichlorobenzene	12.827	146	593079	10.50	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.038	75	103897	10.02	ug/L		88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

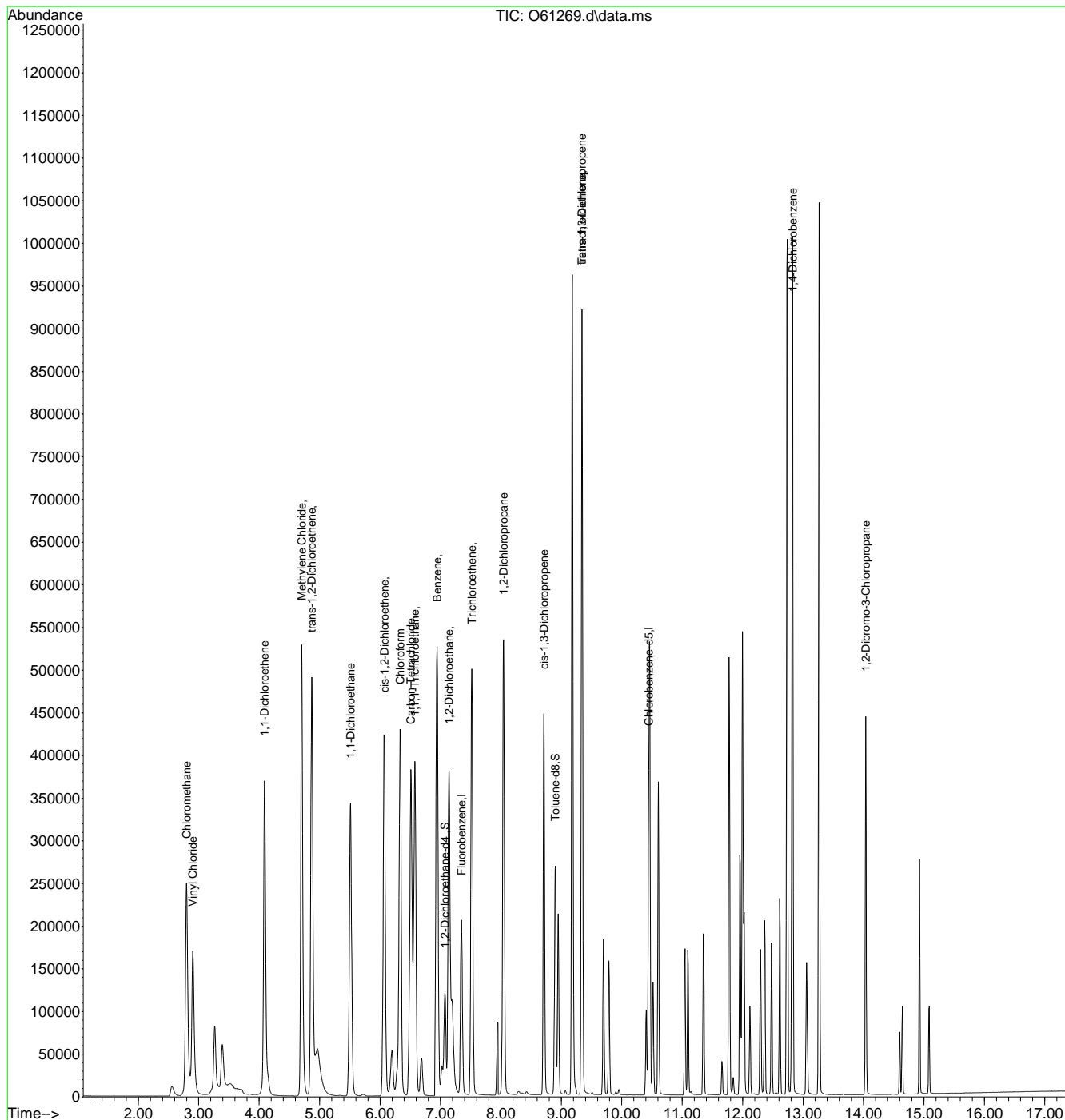
7.6.10  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61269.d  
 Acq On : 12 Sep 2020 5:18 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 03:18:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.6.10  
7



# Manual Integration Approval Summary

**Sample Number:** VO2357-ECC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61269.D      **Analyst approved:** 09/14/20 03:30 Edessa Sumagaysay  
**Injection Time:** 09/12/20 05:18      **Supervisor approved:** 09/14/20 14:17 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

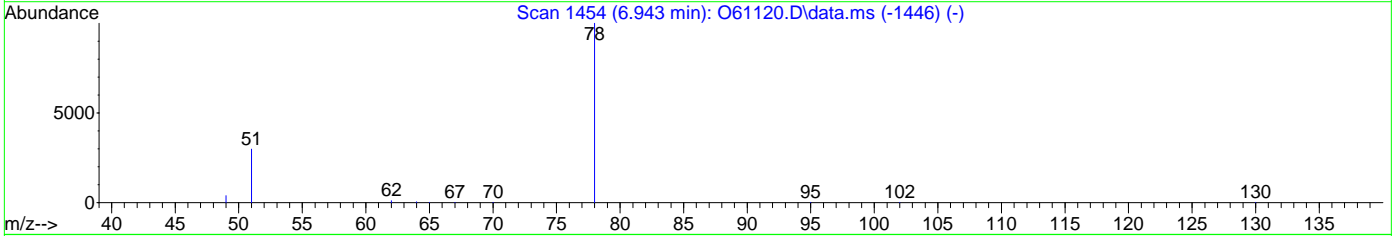
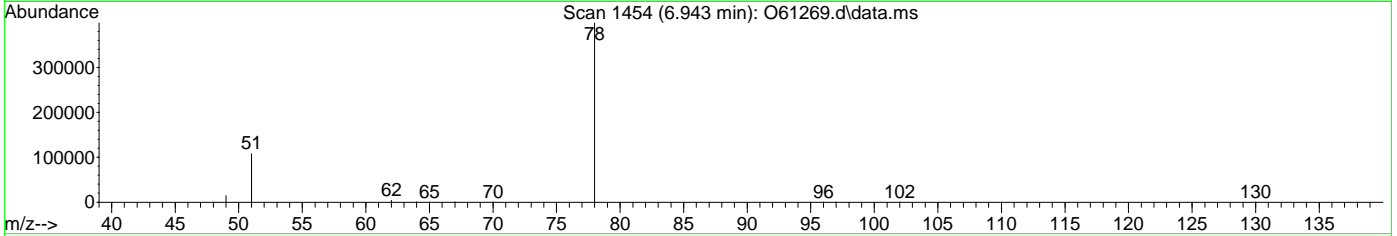
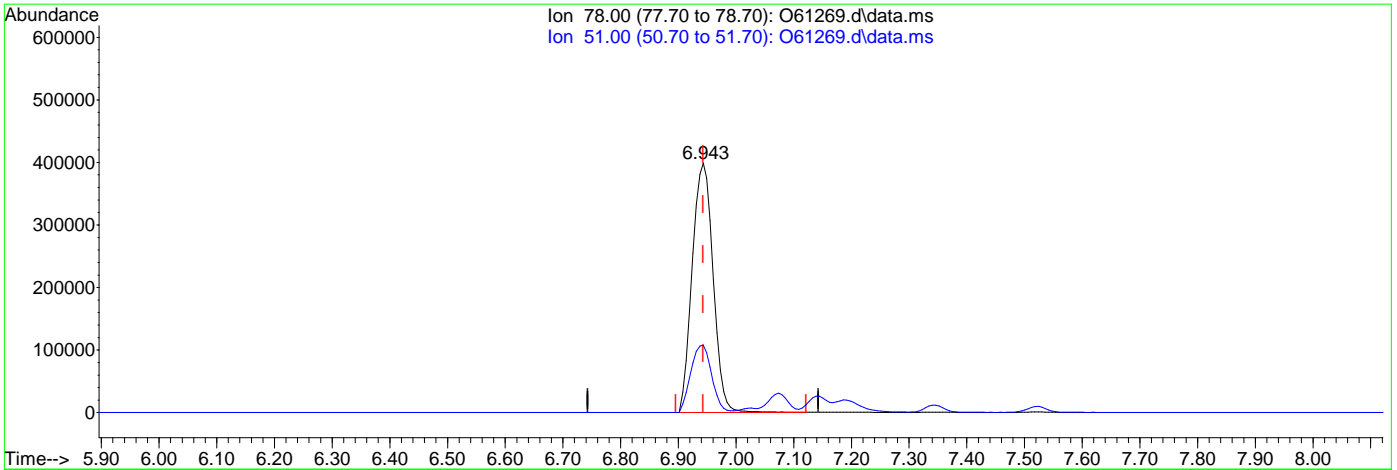
7.6.10.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61269.d  
 Acq On : 12 Sep 2020 5:18 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 02:56:03 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61269.d\data.ms

(12) Benzene ( )

6.943min (+0.000) 10.48ug/L

response 1005851

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.04
0.00	0.00	0.00
0.00	0.00	0.00

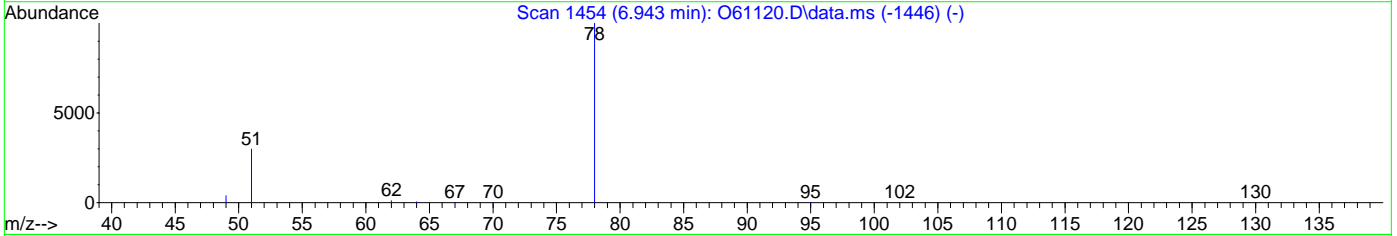
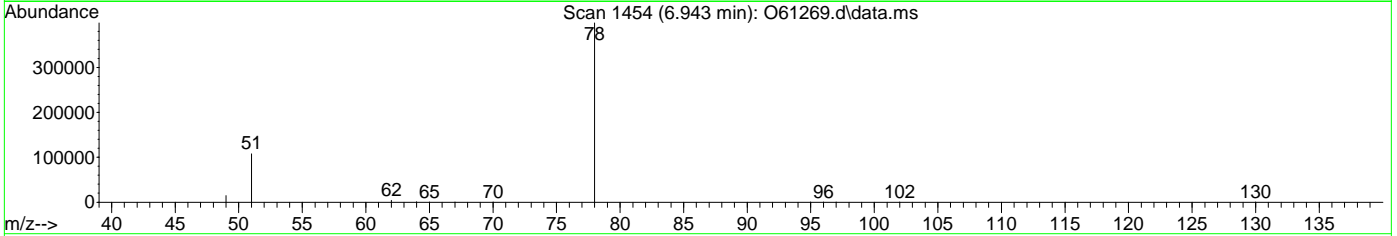
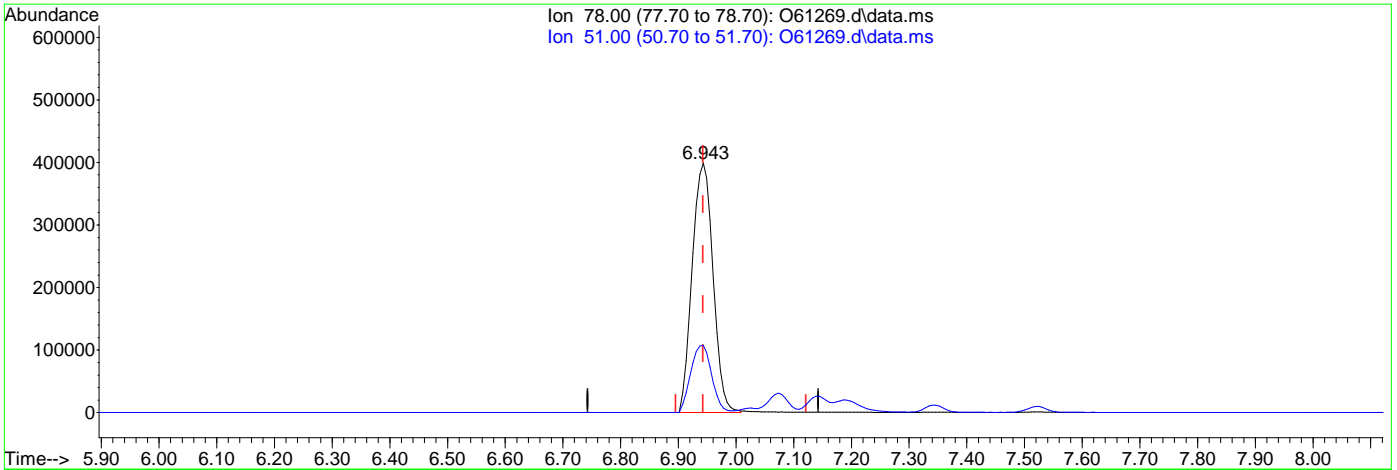
7.6.10.2

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61269.d  
 Acq On : 12 Sep 2020 5:18 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 02:56:03 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61269.d\data.ms

(12) Benzene ( )

6.943min (+0.000) 10.40ug/L m

response 998401

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.04
0.00	0.00	0.00
0.00	0.00	0.00

7.6.10.3

7

Date: 9/11/2020  
 COLUMN TYPE: RTX VMS  
 DETECTOR: 5975 MSD  
 INSTRUMENT: MSVOA12-O  
 PURGE PRESSURE: 8.4PSI  
 PURGE VOLUME: 5 mL  
 ANALYST: AKARI(Gstutip)

METHODS\*: SIMCLm  
 METHOD FILE: SIMCL091120.M  
 CALIB. DATE: 9/11/2020  
 EM VOLTAGE: 1424v  
 BFB RESPONSE: 6052279  
 RUN ID: VO2356

BFB: V25942b  
 ICAL/JC: V25806, VS0804  
 ISTD/SUR: VS0799  
 ICV/QC: VS0805 VS0802  
 data reviewed by: stutip

PH LOT1-12 :230814  
 ph lot 0.0-3.0 : 220416a  
 KI PAPER LOT:030317  
 SAMPLE ID VERIFIED BY:  
 stutip  
 DATE VERIFIED: 09/14/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
O61211	BLANK	-	-	w	1	ACQ_SIMCL		-	?		
O61212	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61213	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61214	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61215	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61216	COND. STD.	-	-	w	2	ACQ_SIMCL		-	-		
O61217	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61218	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61219	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, returned
O61220	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61221	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61222	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61223	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61224	BFB	-	-	w	100	BFB		-	-		autofind 2ul passed
O61225	CC2352-5	-	-	w	2	ACQ_SIMCL		-	-		50ul -> 50ml passed
O61226	BS	-	-	w	3	ACQ_SIMCL		-	-		20ul -> vial passed
O61227	BFB	-	-	w	100	BFB		-	-		pass autofind 2ul
O61228	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61229	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61230	IC2356-1	-	-	w	2	ACQ_SIMCL	pii-3,12,16,21,30	-	-		1ul -> 100ml
O61231	IC2356-2	-	-	w	3	ACQ_SIMCL	pii-12	-	-		5ul -> 100ml
O61232	IC2356-3	-	-	w	4	ACQ_SIMCL	pii-12	-	-		10ul -> 50ml
O61233	IC2356-4	-	-	w	5	ACQ_SIMCL	pii-12	-	-		25ul -> 50ml
O61234	ICe2356-5	-	-	w	6	ACQ_SIMCL	pii-12	-	-		50ul -> 50ml
O61235	IC2356-6	-	-	w	7	ACQ_SIMCL	pii-12	-	-		75ul -> 50ml
O61236	IC2356-7	-	-	w	8	ACQ_SIMCL	pii-12	-	-		100ul -> 50ml
O61237	BLANK	-	-	w	9	ACQ_SIMCL		-	-		
O61238	iev2356-5	-	-	w	10	ACQ_SIMCL	pii-12	-	-		50ul-50ml

\* For NELAC purposes, Method 8280 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

Date:	9/11/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSV0A12-O
PURGE PRESSURE:	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	stufp

METHODS:*	SIMCLM
METHOD FILE:	SIMCL091120.M
CALIB. DATE:	9/11/2020
EM VOLTAGE:	1424v
BFB RESPONSE	6826166
RUN ID:	VO2357

BFB:	V25942b
ICAL/CC:	V25606, VS0804
ISTD/SUR:	VS0799
ICV/CQ:	VS0805, VS0802

PH LOT1-12.230814
ph lot 0.0-3.0 : 220416a
KI PAPER LOT:030317
PROCESSED BY:Edassas
SAMPLE ID VERIFIED BY:
stufp
DATE VERIFIED: 09/11/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL ?	RR	COMMENTS
061239	BLK	-	-	w	1	ACQ_SIMCL		-	-		
061240	BLK	-	-	w	2	ACQ_SIMCL		-	-		
061241	BLK	-	-	w	3	ACQ_SIMCL		-	-		
061242	BFB	-	-	w	4	bfb		-	-		pass autofind
061243	CC2356-5	-	-	w	5	ACQ_SIMCL	#12(P11)	-	-		50ul-50ml
061244	bs	-	-	w	6	ACQ_SIMCL		-	-		20ul-40ml
061245	mb	-	-	w	7	ACQ_SIMCL		-	-		XNot used
061246	mb	-	-	w	8	ACQ_SIMCL		-	-		ND✓
061247	fa78570-1	-	1	w	9	ACQ_SIMCL		-	-		ND✓
061248	fa78570-2	-	1	w	10	ACQ_SIMCL	#3(P11)	1	n		ND✓
061249	fa78570-3	-	1	w	11	ACQ_SIMCL		1	n		✓
061250	fa78570-4	-	1	w	12	ACQ_SIMCL		1	n		✓
061251	fa78570-5	-	1	w	13	ACQ_SIMCL		1	n		✓
061252	fa78571-1	-	1	w	14	ACQ_SIMCL		1	n		✓
061253	fa78571-2	-	1	w	15	ACQ_SIMCL	#21(P11)	1	n		✓
061254	fa78571-3	-	1	w	16	ACQ_SIMCL	#21(P11)	1	n		✓
061255	fa78571-4	-	1	w	17	ACQ_SIMCL	#21(P11)	1	n		✓
061256	fa78571-5	-	1	w	18	ACQ_SIMCL		1	n		✓
061257	fa78571-6	-	1	w	19	ACQ_SIMCL		1	n		ND✓
061258	fa78571-7	-	1	w	20	ACQ_SIMCL		1	n		ND✓
061259	fa78571-8	-	1	w	21	ACQ_SIMCL		1	n		✓
061260	fa78571-9	-	1	w	22	ACQ_SIMCL		1	n		✓
061261	fa78571-10	-	1	w	23	ACQ_SIMCL	#3,21(P11)	1	n		✓
061262	fa78571-11	-	1	w	24	ACQ_SIMCL		1	n		✓
061263	fa78571-12	-	1	w	25	ACQ_SIMCL	#21(P11)	1	n		✓
061264	fa78571-13	-	1	w	26	ACQ_SIMCL	#21(P11)	1	n		✓
061265	fa78571-14	-	1	w	27	ACQ_SIMCL		1	n		✓
061266	fa78571-15	-	1	w	28	ACQ_SIMCL		1	n		✓
061267	fa78570-1.ms_10	-	1	w	29	ACQ_SIMCL	5ml-50ml #12(P11)#13(OP)	1	n		20ul-40ml
061268	fa78570-1.msdl_10	-	1	w	30	ACQ_SIMCL	5ml-50ml #12(P11)#13(OP)	1	n		20ul-40ml
061269	ecc2356-5	-	1	w	31	ACQ_SIMCL	#12(P11)	1	n		50ul-50ml

\* For NELAC purposes, Method 8260 Includes analyses by SOP MS005 Matrix: Designate "w" for Water, "o" for Oil, "l" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
Manual Integration, Rational SOP QA029, MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PI Poor Instrument

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWMP - OUCTP Lower)

SGS Job Number: FA78571

Sampling Dates: 09/02/20 - 09/03/20



Report to:

Ahtna Global, LLC  
9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
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hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: **326**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.



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## Sample Summary

Ahtna Global, LLC

**Job No:** FA78571

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP Lower)

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA78571-1	09/03/20	07:45	AMSB 09/09/20	AQ	Ground Water	2036Z0BW229F
FA78571-2	09/03/20	07:55	AMSB 09/09/20	AQ	Ground Water	2036Z0BW230F
FA78571-3	09/03/20	08:00	AMSB 09/09/20	AQ	Ground Water	2036Z0BW231D
FA78571-4	09/03/20	08:15	AMSB 09/09/20	AQ	Ground Water	2036Z0BW232F
FA78571-5	09/03/20	08:30	AMSB 09/09/20	AQ	Ground Water	2036Z0BW233F
FA78571-6	09/03/20	09:00	AMSB 09/09/20	AQ	Trip Blank Water	2036Z0BW234A
FA78571-7	09/02/20	09:05	THLH 09/09/20	AQ	Trip Blank Water	2036W0BW097A
FA78571-8	09/02/20	09:15	THLH 09/09/20	AQ	Ground Water	2036W0BW098F
FA78571-9	09/02/20	09:25	THLH 09/09/20	AQ	Ground Water	2036W0BW099F
FA78571-10	09/02/20	10:30	THLH 09/09/20	AQ	Ground Water	2036W0BW102F
FA78571-11	09/02/20	11:25	THLH 09/09/20	AQ	Ground Water	2036W0BW103F
FA78571-12	09/02/20	14:00	THLH 09/09/20	AQ	Ground Water	2036W0BW104F
FA78571-13	09/02/20	14:02	THLH 09/09/20	AQ	Ground Water	2036W0BW105D



## Sample Summary

(continued)

Ahtna Global, LLC

**Job No:** FA78571

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP Lower)

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA78571-14	09/02/20	14:15	THLH 09/09/20	AQ	Ground Water	2036W0BW106F
FA78571-15	09/02/20	14:30	THLH 09/09/20	AQ	Ground Water	2036W0BW107F
FA78571-16	09/02/20	14:32	THLH 09/09/20	AQ	Ground Water	2036W0BW108D
FA78571-17	09/02/20	14:45	THLH 09/09/20	AQ	Ground Water	2036W0BW109F
FA78571-18	09/02/20	15:00	THLH 09/09/20	AQ	Ground Water	2036W0BW110C
FA78571-19	09/02/20	14:10	TSLB 09/09/20	AQ	Ground Water	2036Y0BW415F
FA78571-20	09/02/20	14:15	TSLB 09/09/20	AQ	Ground Water	2036Y0BW416D
FA78571-21	09/02/20	15:25	TSLB 09/09/20	AQ	Ground Water	2036YOU2421F
FA78571-22	09/02/20	15:38	TSLB 09/09/20	AQ	Ground Water	2036YOU2422F

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78571

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/18/2020 12:40:05

20 Sample(s), 2 Trip Blank(s) and 0 Field Blank(s) were collected on between 09/02/2020 and 09/03/2020 and were received at SGS North America Inc - Orlando on 09/09/2020 properly preserved, at 1.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA78571. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ **Batch ID:** VO2357

All samples were analyzed within the recommended method holding time.  
Sample(s) FA78570-1MS, FA78570-1MSD were used as the QC samples indicated.  
All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** VZ2415

All samples were analyzed within the recommended method holding time.  
Sample(s) FA78571-16MS, FA78571-16MSD were used as the QC samples indicated.  
All method blanks for this batch meet method specific criteria.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA78571  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20 thru 09/03/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
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**FA78571-1      2036Z0BW229F**

Carbon Tetrachloride	0.21 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	0.45 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78571-2      2036Z0BW230F**

Carbon Tetrachloride	0.13 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	0.84	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78571-3      2036Z0BW231D**

Carbon Tetrachloride	0.14 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	0.84	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78571-4      2036Z0BW232F**

Carbon Tetrachloride	0.15 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	1.8	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78571-5      2036Z0BW233F**

Carbon Tetrachloride	0.36 J	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78571-6      2036Z0BW234A**

No hits reported in this sample.

**FA78571-7      2036W0BW097A**

No hits reported in this sample.

**FA78571-8      2036W0BW098F**

Trichloroethylene	1.6	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78571-9      2036W0BW099F**

Carbon Tetrachloride	0.95	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78571-10      2036W0BW102F**

Trichloroethylene	1.1	0.50	0.25	ug/l	SW846 8260B BY SIM
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## Summary of Hits

**Job Number:** FA78571  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20 thru 09/03/20



Lab Sample ID	Client Sample ID	Result/ Analyte	LOQ	LOD	Units	Method	
<b>FA78571-11</b>	<b>2036W0BW103F</b>						
		Carbon Tetrachloride	0.13 J	0.50	0.25	ug/l	SW846 8260B BY SIM
		Trichloroethylene	1.3	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78571-12</b>	<b>2036W0BW104F</b>						
		Trichloroethylene	3.7	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78571-13</b>	<b>2036W0BW105D</b>						
		Trichloroethylene	3.2	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78571-14</b>	<b>2036W0BW106F</b>						
		Trichloroethylene	0.39 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78571-15</b>	<b>2036W0BW107F</b>						
		Carbon Tetrachloride	2.2	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78571-16</b>	<b>2036W0BW108D</b>						
		Carbon Tetrachloride	1.4	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78571-17</b>	<b>2036W0BW109F</b>						
		Carbon Tetrachloride	0.17 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78571-18</b>	<b>2036W0BW110C</b>						
		No hits reported in this sample.					
<b>FA78571-19</b>	<b>2036Y0BW415F</b>						
		Carbon Tetrachloride	0.10 J	0.50	0.25	ug/l	SW846 8260B BY SIM
		Trichloroethylene	9.8	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78571-20</b>	<b>2036Y0BW416D</b>						
		Trichloroethylene	8.9	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78571-21</b>	<b>2036YOU2421F</b>						
		Trichloroethylene	2.2	0.50	0.25	ug/l	SW846 8260B BY SIM

## Summary of Hits

**Job Number:** FA78571  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20 thru 09/03/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
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**FA78571-22**      **2036YOU2422F**

Trichloroethylene	3.0	0.50	0.25	ug/l	SW846 8260B BY SIM
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Sample Results

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Report of Analysis

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SGS North America Inc.

## Report of Analysis

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<b>Client Sample ID:</b>	2036Z0BW229F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78571-1	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61252.D	1	09/11/20 23:33	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.21	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.45	0.50	0.25	0.10	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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<b>Client Sample ID:</b>	2036Z0BW230F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78571-2	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61253.D	1	09/11/20 23:53	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.13	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.84	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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# Report of Analysis

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<b>Client Sample ID:</b> 2036Z0BW231D	
<b>Lab Sample ID:</b> FA78571-3	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61254.D	1	09/12/20 00:14	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.14	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.84	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036Z0BW232F	
<b>Lab Sample ID:</b> FA78571-4	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61255.D	1	09/12/20 00:34	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.15	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	1.8	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.4  
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# Report of Analysis

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<b>Client Sample ID:</b> 2036Z0BW233F	
<b>Lab Sample ID:</b> FA78571-5	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61256.D	1	09/12/20 00:54	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.36	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.5  
4

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# Report of Analysis

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<b>Client Sample ID:</b> 2036Z0BW234A	
<b>Lab Sample ID:</b> FA78571-6	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Trip Blank Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61257.D	1	09/12/20 01:15	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036W0BW097A	
<b>Lab Sample ID:</b> FA78571-7	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Trip Blank Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61258.D	1	09/12/20 01:35	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.7  
4



SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036W0BW098F	
<b>Lab Sample ID:</b> FA78571-8	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61259.D	1	09/12/20 01:55	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	1.6	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.8  
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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036W0BW099F	
<b>Lab Sample ID:</b> FA78571-9	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61260.D	1	09/12/20 02:15	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.95	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036W0BW102F	
<b>Lab Sample ID:</b> FA78571-10	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61261.D	1	09/12/20 02:35	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	1.1	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		74-125%
2037-26-5	Toluene-D8	96%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.10  
4

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036W0BW103F	
<b>Lab Sample ID:</b> FA78571-11	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61262.D	1	09/12/20 02:56	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.13	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	1.3	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.11  
4

# Report of Analysis

<b>Client Sample ID:</b> 2036W0BW104F	
<b>Lab Sample ID:</b> FA78571-12	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61263.D	1	09/12/20 03:16	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	3.7	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW105D	
<b>Lab Sample ID:</b> FA78571-13	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61264.D	1	09/12/20 03:36	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	3.2	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.13  
4

SGS North America Inc.

## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	2036W0BW106F	<b>Date Sampled:</b>	09/02/20
<b>Lab Sample ID:</b>	FA78571-14	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61265.D	1	09/12/20 03:57	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.39	0.50	0.25	0.10	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> 2036W0BW107F	
<b>Lab Sample ID:</b> FA78571-15	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61266.D	1	09/12/20 04:17	SP	n/a	n/a	VO2357
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	2.2	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> 2036W0BW108D	
<b>Lab Sample ID:</b> FA78571-16	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62247.D	1	09/12/20 13:47	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	1.4	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> 2036W0BW109F	
<b>Lab Sample ID:</b> FA78571-17	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62248.D	1	09/12/20 14:06	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.17	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.17  
4

SGS North America Inc.

## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	2036W0BW110C		
<b>Lab Sample ID:</b>	FA78571-18	<b>Date Sampled:</b>	09/02/20
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b>	09/09/20
<b>Method:</b>	SW846 8260B BY SIM	<b>Percent Solids:</b>	n/a
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62249.D	1	09/12/20 14:25	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036Y0BW415F	
<b>Lab Sample ID:</b> FA78571-19	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62250.D	1	09/12/20 14:44	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.10	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	9.8	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.19  
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SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036Y0BW416D	
<b>Lab Sample ID:</b> FA78571-20	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62251.D	1	09/12/20 15:04	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	8.9	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.20  
4

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036YOU2421F	
<b>Lab Sample ID:</b> FA78571-21	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62252.D	1	09/12/20 15:23	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	2.2	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.21  
4

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036YOU2422F	
<b>Lab Sample ID:</b> FA78571-22	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62253.D	1	09/12/20 15:44	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	3.0	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.22  
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Misc. Forms

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits



CADS 2032  
Ahtna

CHAIN OF CUSTODY

FA785 71  
WATER / SOIL

Chain of Custody #: 0141  
Carbon Copies: White - Laboratory Yellow - Ahtna

1 of 3

Project Information:										Analysis Requested			Lab Sample Receipt				
Project Location: Former Fort Ord, CA			Sampler/s: <i>A. Munch / S. Bennett</i>							VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery				
Project Name: <i>FEO GWMP</i>			Report To: <i>Derek Lieberman</i>										Group #:				
Project Number: 21065.000.01.0000			E-Mail: <i>dlieberman@ahntna.net</i>										Custody Seal:				
Sampling Event/Site: <i>3Q 20</i>			Laboratory: <i>SGS</i>										Temp (°C):				
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles								Notes			
	Sample Number/Description	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>		None	Other	
1	203620BW229F	9/3/20	0745	X			3									X	
2	203620BW230F	9/3/20	0755	X			3									X	
3	203620BW231F	9/3/20	0900	X			3									X	
4	203620BW232F	9/3/20	0915	X			3									X	
5	203620BW233F	9/3/20	0930	X			3									X	
6	203620BW234F	9/3/20	0940	X			2									X	

INITIALS *SG*  
LABEL VERIFICATION *YED*

Turnaround Time:  Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush  
 Comments:   
 Shipment: Method: Tracking ID:

*DUCTP - Lower*

Chain of Custody Tracking:			
Relinquished By: <i>[Signature]</i>	Date/Time: <i>9/3/20 1035</i>	Received By: <i>Lee Bantz</i>	Date/Time: <i>9/3/20 1040</i>
Relinquished By: <i>Lee Bantz</i>	Date/Time: <i>9/3/20 1500</i>	Received By: <i>Fedex</i>	Date/Time: <i>9/3/20 1500</i>
Relinquished By: <i>Fedex</i>	Date/Time: <i>9/9/20 10:15</i>	Received By Laboratory: <i>[Signature]</i>	Date/Time:

*1.2*



5.1  
5

CA052032  
Ahtna

CHAIN OF CUSTODY

FA78571  
WATER / SOIL

20F3  
Chain of Custody #: 0131  
Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:										Analysis Requested			Lab Sample Receipt					
Project Location: <u>Former Fort Ord, CA</u>			Sampler/s: <u>T. Hoay, L. Henderson</u>							VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery					
Project Name: <u>FFO GWMP</u>			Report To: <u>Derek Lieberman</u>										Group #: _____					
Project Number: <u>21065.000.01.0000</u>			E-Mail: <u>dlieberman@ahntna.net</u>										Custody Seal: _____					
Sampling Event/Site: <u>3Q2020</u>			Laboratory: <u>SGS</u>										Temp (°C): _____					
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles										Notes		
	Sample Number/Description	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other			
7	2036 WQ BW 1097A	09/02/20	0905	X			2	2								X		
8	2036 WQ BW 1098F		0915	X			3	3								X		
9	2036 WQ BW 1099F		0925	X			3	3								X		
<del>2036 WQ BW 1100F</del>																		
10	2036 WQ BW 1102F		1050	X			3	3								X		
11	2036 WQ BW 1103F		1125	X			3	3								X		
12	2036 WQ BW 1104F		1400	X			3	3								X		
13	2036 WQ BW 1105D		1402	X			3	3								X		
14	2036 WQ BW 1106F		1415	X			3	3								X		
15	2036 WQ BW 1107F		1430	X			3	3								X		
16	2036 WQ BW 1108D		1432	X			3	3								X		
17	2036 WQ BW 1109F		1445	X			3	3								X		
18	2036 WQ BW 1110C		1500	X			3	3								X		

Turnaround Time:  Standard  3-5 Day Rush \_\_\_\_\_ : 48 Hour Rush \_\_\_\_\_ : 24 Hour Rush \_\_\_\_\_

Comments: \_\_\_\_\_

DUCTP-Lower 180

Chain of Custody Tracking:			
Relinquished By Sampler:	Date/Time:	Received By:	Date/Time:
<i>[Signature]</i>	09/02/20 - 1600	<i>[Signature]</i>	9/2/20 1605
Relinquished By:	Date/Time:	Received By:	Date/Time:
<i>[Signature]</i>	9/3/20 1035	<i>[Signature]</i>	9/3/20 1040
Relinquished By:	Date/Time:	Received By Laboratory:	Date/Time:
<i>[Signature]</i>	9/8/20 1500	PEDEX	9/8/20 1500

FA78571: Chain of Custody

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5.1  
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CAIOS 2032  
Ahtna

FA 78571  
WATER / SOIL

30F3  
Chain of Custody #: 0126  
Carbon Copies: White - Laboratory Yellow - Ahtna

CHAIN OF CUSTODY

Project Information:										Analysis Requested					Lab Sample Receipt	
Project Location: Former Fort Ord, CA			Sampler/s: <u>Thomas Street/Lineasy Berger</u>							VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery			
Project Name: <u>Rosewide Gwmp</u>			Report To: <u>Derek Lieberman</u>										Group #: _____			
Project Number: <u>21065.000.01.0000</u>			E-Mail: <u>dlieberman@ahтна.net</u>										Custody Seal: _____			
Sampling Event/Site: <u>FPO Gwmp 3Q 2020</u>			Laboratory: <u>SGS</u>										Temp (°C): _____			
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles										Notes
	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other		
19	203640BW415F	9/2/20	1410	X		3	X								X	
20	203640BW416D	9/2/20	1415	X		2	X								X	
21	203640U2421F	9/2/20	<del>1420</del>	X		3	X								X	
22	203640U2422F	9/2/20	1538	X		3	X								X	

Turnaround Time:  Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush

Comments: OUCTP LOWER

Chain of Custody Tracking:

Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/2/2020 1613</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/2/20 1615</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/7/20 1035</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/2/20 1040</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/8/20 1500</u>	Received By Laboratory: <u>FPOBTS</u>	Date/Time: <u>9/8/20 1500</u>

FA78571: Chain of Custody

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## SGS Sample Receipt Summary

Job Number: FA78571

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP Lower

Date / Time Received: 9/9/2020 10:15:00 AM

Delivery Method: FedEx

Airbill #: 771472263859

Therm ID: IR 1;	Therm CF: -0.2;	# of Coolers: 1
Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);		
Cooler Temps (Corrected) °C: Cooler 1: (1.8);		

Cooler Information	Y	or	N
1. Custody Seals Present	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Temp criteria achieved	<input checked="" type="checkbox"/>		<input type="checkbox"/>
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

3. Type Of TB Received	W	or	S	N/A
	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Samples preserved properly	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Sufficient volume/containers recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Condition of sample	Intact			
5. Sample recvd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
6. Dates/Times/IDs on COC match Sample Label	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
7. VOCs have headspace	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Voa Soil Kits/Jars received past 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Misc. Information			
Number of Encores: 25-Gram _____	5-Gram _____	Number of 5035 Field Kits: _____	Number of Lab Filtered Metals: _____
Test Strip Lot #: pH 0-3 _____	230315 _____	pH 10-12 _____	219813A _____
Residual Chlorine Test Strip Lot #: _____		Other: (Specify) _____	

Comments

SM001 Rev. Date 05/24/17      Technician: ADAMK      Date: 9/9/2020 10:15:00 AM      Reviewer: PH      Date: 9/10/2020

5.1  
5

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78571  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20 thru 09/03/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
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VO2357 SW846 8260B BY SIM

VO2357-BS	56-23-5	Carbon Tetrachloride	BSP	REC	118	%	72-136
VO2357-BS	107-06-2	1,2-Dichloroethane	BSP	REC	108	%	73-128
VO2357-BS	79-01-6	Trichloroethylene	BSP	REC	114	%	79-123
VO2357-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	81-118
VO2357-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	89-112
FA78570-1MS*	56-23-5	Carbon Tetrachloride	MS	REC	99	%	72-136
FA78570-1MS*	107-06-2	1,2-Dichloroethane	MS	REC	98	%	73-128
FA78570-1MS*	79-01-6	Trichloroethylene	MS	REC	95	%	79-123
FA78570-1MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	100	%	81-118
FA78570-1MS*	2037-26-5	Toluene-D8	MS	SURR	93	%	89-112
FA78570-1MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	106	%	72-136
FA78570-1MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	7	%	20
FA78570-1MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	103	%	73-128
FA78570-1MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	5	%	20
FA78570-1MSD*	79-01-6	Trichloroethylene	MSD	REC	101	%	79-123
FA78570-1MSD*	79-01-6	Trichloroethylene	MSD	RPD	6	%	20
FA78570-1MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	100	%	81-118
FA78570-1MSD*	2037-26-5	Toluene-D8	MSD	SURR	94	%	89-112
VO2357-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	100	%	81-118
VO2357-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	89-112
FA78571-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA78571-1	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78571-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA78571-2	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78571-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FA78571-3	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78571-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA78571-4	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78571-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA78571-5	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78571-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FA78571-6	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78571-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FA78571-7	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78571-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FA78571-8	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78571-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FA78571-9	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78571-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FA78571-10	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FA78571-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FA78571-11	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112

\* Sample used for QC is not from job FA78571

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78571  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20 thru 09/03/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78571-12	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FA78571-12	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78571-13	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FA78571-13	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78571-14	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	109	%	81-118
FA78571-14	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FA78571-15	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FA78571-15	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
VZ2415	SW846 8260B BY SIM						
VZ2415-BS	56-23-5	Carbon Tetrachloride	BSP	REC	118	%	72-136
VZ2415-BS	107-06-2	1,2-Dichloroethane	BSP	REC	108	%	73-128
VZ2415-BS	79-01-6	Trichloroethylene	BSP	REC	114	%	79-123
VZ2415-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
VZ2415-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	89-112
FA78571-16MS	56-23-5	Carbon Tetrachloride	MS	REC	100	%	72-136
FA78571-16MS	107-06-2	1,2-Dichloroethane	MS	REC	108	%	73-128
FA78571-16MS	79-01-6	Trichloroethylene	MS	REC	111	%	79-123
FA78571-16MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	106	%	81-118
FA78571-16MS	2037-26-5	Toluene-D8	MS	SURR	100	%	89-112
FA78571-16MSD	56-23-5	Carbon Tetrachloride	MSD	REC	103	%	72-136
FA78571-16MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	2	%	20
FA78571-16MSD	107-06-2	1,2-Dichloroethane	MSD	REC	111	%	73-128
FA78571-16MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	3	%	20
FA78571-16MSD	79-01-6	Trichloroethylene	MSD	REC	115	%	79-123
FA78571-16MSD	79-01-6	Trichloroethylene	MSD	RPD	3	%	20
FA78571-16MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	105	%	81-118
FA78571-16MSD	2037-26-5	Toluene-D8	MSD	SURR	100	%	89-112
VZ2415-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	102	%	81-118
VZ2415-MB	2037-26-5	Toluene-D8	MB	SURR	102	%	89-112
FA78571-16	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA78571-16	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78571-17	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA78571-17	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78571-18	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78571-18	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78571-19	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FA78571-19	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78571-20	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FA78571-20	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78571-21	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FA78571-21	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78571-22	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FA78571-22	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112

\* Sample used for QC is not from job FA78571

## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2357-MB	O61245.D	1	09/11/20	SP	n/a	n/a	VO2357

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78571-1, FA78571-2, FA78571-3, FA78571-4, FA78571-5, FA78571-6, FA78571-7, FA78571-8, FA78571-9, FA78571-10, FA78571-11, FA78571-12, FA78571-13, FA78571-14, FA78571-15

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	100%	74-125%
2037-26-5	Toluene-D8	103%	88-111%



**Method Blank Summary**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2415-MB	Z62242.D	1	09/12/20	SP	n/a	n/a	VZ2415

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78571-16, FA78571-17, FA78571-18, FA78571-19, FA78571-20, FA78571-21, FA78571-22

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	102%	74-125%
2037-26-5	Toluene-D8	102%	88-111%

**Blank Spike Summary**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2357-BS	O61244.D	1	09/11/20	SP	n/a	n/a	VO2357

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78571-1, FA78571-2, FA78571-3, FA78571-4, FA78571-5, FA78571-6, FA78571-7, FA78571-8, FA78571-9, FA78571-10, FA78571-11, FA78571-12, FA78571-13, FA78571-14, FA78571-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.9	118	76-136
107-06-2	1,2-Dichloroethane	5	5.4	108	75-125
79-01-6	Trichloroethylene	5	5.7	114	81-126

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2415-BS	Z62240.D	1	09/12/20	SP	n/a	n/a	VZ2415

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78571-16, FA78571-17, FA78571-18, FA78571-19, FA78571-20, FA78571-21, FA78571-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.9	118	76-136
107-06-2	1,2-Dichloroethane	5	5.4	108	75-125
79-01-6	Trichloroethylene	5	5.7	114	81-126

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	74-125%
2037-26-5	Toluene-D8	102%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78570-1MS	O61267.D	10	09/12/20	SP	n/a	n/a	VO2357
FA78570-1MSD	O61268.D	10	09/12/20	SP	n/a	n/a	VO2357
FA78570-1	O61247.D	1	09/11/20	SP	n/a	n/a	VO2357

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78571-1, FA78571-2, FA78571-3, FA78571-4, FA78571-5, FA78571-6, FA78571-7, FA78571-8, FA78571-9, FA78571-10, FA78571-11, FA78571-12, FA78571-13, FA78571-14, FA78571-15

CAS No.	Compound	FA78570-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	50	49.4	99	50	52.8	106	7	76-136/23
107-06-2	1,2-Dichloroethane	0.50 U	50	48.9	98	50	51.6	103	5	75-125/14
79-01-6	Trichloroethylene	0.11 J	50	47.4	95	50	50.4	101	6	81-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA78570-1	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	100%	101%	74-125%
2037-26-5	Toluene-D8	93%	94%	101%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78571-16MS	Z62254.D	10	09/12/20	SP	n/a	n/a	VZ2415
FA78571-16MSD	Z62255.D	10	09/12/20	SP	n/a	n/a	VZ2415
FA78571-16	Z62247.D	1	09/12/20	SP	n/a	n/a	VZ2415

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78571-16, FA78571-17, FA78571-18, FA78571-19, FA78571-20, FA78571-21, FA78571-22

CAS No.	Compound	FA78571-16 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	1.4	50	51.6	100	50	52.8	103	2	76-136/23
107-06-2	1,2-Dichloroethane	0.50 U	50	53.8	108	50	55.5	111	3	75-125/14
79-01-6	Trichloroethylene	0.50 U	50	55.6	111	50	57.4	115	3	81-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA78571-16 Limits
17060-07-0	1,2-Dichloroethane-D4	106%	105%	104% 74-125%
2037-26-5	Toluene-D8	100%	100%	101% 88-111%

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2356-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61227.D	<b>Injection Time:</b> 14:01
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	105346	30.7	Pass
75	30.0 - 60.0% of mass 95	169774	49.4	Pass
95	Base peak, 100% relative abundance	343616	100.0	Pass
96	5.0 - 9.0% of mass 95	25531	7.43	Pass
173	Less than 2.0% of mass 174	1340	0.39 (0.45) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	294848	85.8	Pass
175	5.0 - 9.0% of mass 174	20565	5.98 (6.97) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	284096	82.7 (96.4) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	17677	5.14 (6.22) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2356-IC2356	O61230.D	09/11/20	15:34	01:33	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20	15:54	01:53	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20	16:14	02:13	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20	16:35	02:34	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20	16:55	02:54	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20	17:15	03:14	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20	17:36	03:35	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20	18:16	04:15	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2357-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61242.D	<b>Injection Time:</b> 19:53
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	144405	29.9	Pass
75	30.0 - 60.0% of mass 95	229077	47.4	Pass
95	Base peak, 100% relative abundance	483691	100.0	Pass
96	5.0 - 9.0% of mass 95	36268	7.50	Pass
173	Less than 2.0% of mass 174	2367	0.49 (0.57) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	416875	86.2	Pass
175	5.0 - 9.0% of mass 174	29891	6.18 (7.17) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	397163	82.1 (95.3) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	25669	5.31 (6.46) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2357-CC2356	O61243.D	09/11/20	20:15	00:22	Continuing cal 5
VO2357-BS	O61244.D	09/11/20	20:51	00:58	Blank Spike
VO2357-MB	O61245.D	09/11/20	21:11	01:18	Method Blank
FA78570-1	O61247.D	09/11/20	21:52	01:59	(used for QC only; not part of job FA78571)
ZZZZZZ	O61248.D	09/11/20	22:12	02:19	(unrelated sample)
ZZZZZZ	O61249.D	09/11/20	22:32	02:39	(unrelated sample)
ZZZZZZ	O61250.D	09/11/20	22:53	03:00	(unrelated sample)
ZZZZZZ	O61251.D	09/11/20	23:13	03:20	(unrelated sample)
FA78571-1	O61252.D	09/11/20	23:33	03:40	2036Z0BW229F
FA78571-2	O61253.D	09/11/20	23:53	04:00	2036Z0BW230F
FA78571-3	O61254.D	09/12/20	00:14	04:21	2036Z0BW231D
FA78571-4	O61255.D	09/12/20	00:34	04:41	2036Z0BW232F
FA78571-5	O61256.D	09/12/20	00:54	05:01	2036Z0BW233F
FA78571-6	O61257.D	09/12/20	01:15	05:22	2036Z0BW234A
FA78571-7	O61258.D	09/12/20	01:35	05:42	2036W0BW097A
FA78571-8	O61259.D	09/12/20	01:55	06:02	2036W0BW098F
FA78571-9	O61260.D	09/12/20	02:15	06:22	2036W0BW099F
FA78571-10	O61261.D	09/12/20	02:35	06:42	2036W0BW102F
FA78571-11	O61262.D	09/12/20	02:56	07:03	2036W0BW103F
FA78571-12	O61263.D	09/12/20	03:16	07:23	2036W0BW104F
FA78571-13	O61264.D	09/12/20	03:36	07:43	2036W0BW105D
FA78571-14	O61265.D	09/12/20	03:57	08:04	2036W0BW106F
FA78571-15	O61266.D	09/12/20	04:17	08:24	2036W0BW107F
FA78570-1MS	O61267.D	09/12/20	04:37	08:44	Matrix Spike

# Instrument Performance Check (BFB)

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2357-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61242.D	<b>Injection Time:</b> 19:53
<b>Instrument ID:</b> GCMSO	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78570-1MSD	O61268.D	09/12/20	04:58	09:05	Matrix Spike Duplicate
VO2357-ECC2356	O61269.D	09/12/20	05:18	09:25	Ending cal 5

6.4.2  
6



**Instrument Performance Check (BFB)**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2414-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> Z62205.D	<b>Injection Time:</b> 17:20
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	24546	21.4	Pass
75	30.0 - 60.0% of mass 95	61341	53.4	Pass
95	Base peak, 100% relative abundance	114880	100.0	Pass
96	5.0 - 9.0% of mass 95	7912	6.89	Pass
173	Less than 2.0% of mass 174	429	0.37 (0.48) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	89573	78.0	Pass
175	5.0 - 9.0% of mass 174	6903	6.01 (7.71) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	89128	77.6 (99.5) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	5541	4.82 (6.22) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2414-IC2414	Z62207.D	09/11/20	18:15	00:55	Initial cal 1
VZ2414-IC2414	Z62208.D	09/11/20	18:34	01:14	Initial cal 2
VZ2414-IC2414	Z62209.D	09/11/20	18:53	01:33	Initial cal 3
VZ2414-IC2414	Z62210.D	09/11/20	19:13	01:53	Initial cal 4
VZ2414-ICC2414	Z62211.D	09/11/20	19:32	02:12	Initial cal 5
VZ2414-IC2414	Z62212.D	09/11/20	19:51	02:31	Initial cal 6
VZ2414-IC2414	Z62213.D	09/11/20	20:13	02:53	Initial cal 7
VZ2414-ICV2414	Z62215.D	09/11/20	20:51	03:31	Initial cal verification 5
VZ2414-BS	Z62216.D	09/11/20	21:10	03:50	Blank Spike
VZ2414-MB	Z62218.D	09/11/20	21:49	04:29	Method Blank
FA78573-1	Z62219.D	09/11/20	22:08	04:48	(used for QC only; not part of job FA78571)
ZZZZZZ	Z62220.D	09/11/20	22:27	05:07	(unrelated sample)
ZZZZZZ	Z62221.D	09/11/20	22:47	05:27	(unrelated sample)
ZZZZZZ	Z62222.D	09/11/20	23:06	05:46	(unrelated sample)
ZZZZZZ	Z62223.D	09/11/20	23:26	06:06	(unrelated sample)
ZZZZZZ	Z62224.D	09/11/20	23:45	06:25	(unrelated sample)
ZZZZZZ	Z62225.D	09/12/20	00:04	06:44	(unrelated sample)
ZZZZZZ	Z62226.D	09/12/20	00:23	07:03	(unrelated sample)
ZZZZZZ	Z62227.D	09/12/20	00:42	07:22	(unrelated sample)
ZZZZZZ	Z62228.D	09/12/20	01:02	07:42	(unrelated sample)
ZZZZZZ	Z62229.D	09/12/20	01:21	08:01	(unrelated sample)
ZZZZZZ	Z62230.D	09/12/20	01:40	08:20	(unrelated sample)
ZZZZZZ	Z62231.D	09/12/20	02:00	08:40	(unrelated sample)
ZZZZZZ	Z62232.D	09/12/20	02:19	08:59	(unrelated sample)

# Instrument Performance Check (BFB)

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2414-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> Z62205.D	<b>Injection Time:</b> 17:20
<b>Instrument ID:</b> GCMSZ	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78573-1MS	Z62233.D	09/12/20	02:38	09:18	Matrix Spike
FA78573-1MSD	Z62234.D	09/12/20	02:57	09:37	Matrix Spike Duplicate
VZ2414-ECC2414	Z62235.D	09/12/20	03:16	09:56	Ending cal 5

6.4.3

6

**Instrument Performance Check (BFB)**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2415-BFB	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> Z62238.D	<b>Injection Time:</b> 10:44
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	31960	23.2	Pass
75	30.0 - 60.0% of mass 95	78448	57.0	Pass
95	Base peak, 100% relative abundance	137600	100.0	Pass
96	5.0 - 9.0% of mass 95	9223	6.70	Pass
173	Less than 2.0% of mass 174	456	0.33 (0.39) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	116125	84.4	Pass
175	5.0 - 9.0% of mass 174	7682	5.58 (6.62) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	112669	81.9 (97.0) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	7473	5.43 (6.63) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2415-CC2414	Z62239.D	09/12/20	11:07	00:23	Continuing cal 5
VZ2415-BS	Z62240.D	09/12/20	11:32	00:48	Blank Spike
VZ2415-MB	Z62242.D	09/12/20	12:11	01:27	Method Blank
ZZZZZZ	Z62243.D	09/12/20	12:30	01:46	(unrelated sample)
ZZZZZZ	Z62244.D	09/12/20	12:49	02:05	(unrelated sample)
ZZZZZZ	Z62245.D	09/12/20	13:08	02:24	(unrelated sample)
ZZZZZZ	Z62246.D	09/12/20	13:27	02:43	(unrelated sample)
FA78571-16	Z62247.D	09/12/20	13:47	03:03	2036W0BW108D
FA78571-17	Z62248.D	09/12/20	14:06	03:22	2036W0BW109F
FA78571-18	Z62249.D	09/12/20	14:25	03:41	2036W0BW110C
FA78571-19	Z62250.D	09/12/20	14:44	04:00	2036Y0BW415F
FA78571-20	Z62251.D	09/12/20	15:04	04:20	2036Y0BW416D
FA78571-21	Z62252.D	09/12/20	15:23	04:39	2036YOU2421F
FA78571-22	Z62253.D	09/12/20	15:44	05:00	2036YOU2422F
FA78571-16MS	Z62254.D	09/12/20	16:03	05:19	Matrix Spike
FA78571-16MSD	Z62255.D	09/12/20	16:22	05:38	Matrix Spike Duplicate
VZ2415-ECC2414	Z62256.D	09/12/20	16:41	05:57	Ending cal 5

# Internal Standard Area Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b>	VO2357-CC2356	<b>Injection Date:</b>	09/11/20
<b>Lab File ID:</b>	O61243.D	<b>Injection Time:</b>	20:15
<b>Instrument ID:</b>	GCMSO	<b>Method:</b>	SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	367891	7.35	288681	10.45
Check Std <sup>b</sup>	355114	7.35	279352	10.44
Upper Limit <sup>c</sup>	710228	7.52	558704	10.61
Lower Limit <sup>d</sup>	177557	7.18	139676	10.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VO2357-BS	355590	7.35	275951	10.44
VO2357-MB	333237	7.35	252324	10.45
FA78570-1	301847	7.35	230671	10.45
ZZZZZZ	287790	7.35	223685	10.45
ZZZZZZ	289291	7.35	227658	10.45
ZZZZZZ	279323	7.35	218320	10.45
ZZZZZZ	278097	7.35	218871	10.45
FA78571-1	266661	7.35	206650	10.45
FA78571-2	263877	7.35	204000	10.45
FA78571-3	257708	7.35	200773	10.45
FA78571-4	255254	7.35	197117	10.45
FA78571-5	253043	7.35	196127	10.45
FA78571-6	244967	7.35	190937	10.45
FA78571-7	243121	7.35	190999	10.45
FA78571-8	239548	7.35	186723	10.45
FA78571-9	236035	7.35	184781	10.45
FA78571-10	230901	7.35	186288	10.45
FA78571-11	230121	7.35	181695	10.45
FA78571-12	228713	7.35	178454	10.45
FA78571-13	222709	7.35	173214	10.45
FA78571-14	220887	7.35	173708	10.45
FA78571-15	217007	7.35	170113	10.45
FA78570-1MS	260902	7.35	207790	10.45
FA78570-1MSD	275372	7.35	218380	10.45
VO2357-ECC2356311282		7.35	243812	10.45

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2356-ICC2356 O61234.D 09/11/20 16:55
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

6.5.1  
6

# Internal Standard Area Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2415-CC2414	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> Z62239.D	<b>Injection Time:</b> 11:07
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
	<b>AREA</b>		<b>AREA</b>	
Initial Cal <sup>a</sup>	1875869	7.40	1507669	10.51
Check Std <sup>b</sup>	2158555	7.40	1730511	10.51
Upper Limit <sup>c</sup>	4317110	7.57	3461022	10.68
Lower Limit <sup>d</sup>	1079278	7.23	865256	10.34

<b>Lab</b>	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
<b>Sample ID</b>	<b>AREA</b>		<b>AREA</b>	
VZ2415-BS	2094740	7.40	1674222	10.51
VZ2415-MB	2135397	7.40	1690689	10.51
ZZZZZZ	2059475	7.40	1634767	10.51
ZZZZZZ	1985616	7.40	1581206	10.51
ZZZZZZ	1911999	7.40	1511547	10.51
ZZZZZZ	1985392	7.40	1575798	10.51
FA78571-16	1929512	7.40	1517908	10.51
FA78571-17	1948772	7.40	1545447	10.51
FA78571-18	1889628	7.40	1501530	10.51
FA78571-19	1752541	7.40	1388998	10.51
FA78571-20	1869808	7.40	1482729	10.51
FA78571-21	1832083	7.40	1453974	10.51
FA78571-22	1868484	7.40	1476265	10.51
FA78571-16MS	1916862	7.40	1548625	10.51
FA78571-16MSD	1780202	7.40	1433451	10.51
VZ2415-ECC2414	1867030	7.40	1507510	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2414-ICC2414 Z62211.D 09/11/20 19:32
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Surrogate Recovery Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA78571-1	O61252.D	104	101
FA78571-2	O61253.D	104	100
FA78571-3	O61254.D	105	100
FA78571-4	O61255.D	104	101
FA78571-5	O61256.D	104	100
FA78571-6	O61257.D	106	100
FA78571-7	O61258.D	105	99
FA78571-8	O61259.D	107	99
FA78571-9	O61260.D	106	99
FA78571-10	O61261.D	107	96
FA78571-11	O61262.D	107	98
FA78571-12	O61263.D	107	99
FA78571-13	O61264.D	108	99
FA78571-14	O61265.D	109	98
FA78571-15	O61266.D	108	98
FA78571-16	Z62247.D	104	101
FA78571-17	Z62248.D	104	101
FA78571-18	Z62249.D	103	101
FA78571-19	Z62250.D	105	102
FA78571-20	Z62251.D	105	102
FA78571-21	Z62252.D	106	101
FA78571-22	Z62253.D	107	102
FA78570-1MS	O61267.D	100	93
FA78570-1MSD	O61268.D	100	94
FA78571-16MS	Z62254.D	106	100
FA78571-16MSD	Z62255.D	105	100
VO2357-BS	O61244.D	97	99
VO2357-MB	O61245.D	100	103
VZ2415-BS	Z62240.D	100	102
VZ2415-MB	Z62242.D	102	102

<b>Surrogate Compounds</b>	<b>Recovery Limits</b>
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S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

# Initial Calibration Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

## Response Factor Report MSVOA12

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

### Calibration Files

1 =O61230.D 2 =O61231.D 3 =O61232.D 4 =O61233.D  
 5 =O61234.D 6 =O61235.D 7 =O61236.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
-----									
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.558	0.633	0.571	0.573	0.524	0.492	0.473	0.546	9.96
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.59060 *A + -0.03053 *A^2								
3) Chloromethane	1.395	1.093	0.857	0.828	0.737	0.682	0.649	0.892	29.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.88497 *A + -0.06257 *A^2								
4) 1,1-Dichloroethen	0.648	0.725	0.662	0.734	0.703	0.672	0.694	0.691	4.67
5) Methylene Chlorid	2.151	0.418	0.186	0.117	0.102	0.095	0.094	0.452	E1 167.87
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9916								
	Response Ratio = 0.00000 + 1.08258 *A								
6) trans-1,2-Dichlor	0.823	0.909	0.775	0.847	0.805	0.778	0.808	0.821	5.65
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.79595 *A + 0.00117 *A^2								
7) 1,1-Dichloroethan	0.920	0.983	0.903	0.972	0.919	0.884	0.906	0.927	3.97
8) cis-1,2-Dichloroe	0.471	0.472	0.435	0.472	0.454	0.444	0.460	0.458	3.24
9) Chloroform	0.840	0.844	0.764	0.827	0.779	0.754	0.774	0.798	4.79
10) Carbon Tetrachlor	0.502	0.562	0.506	0.571	0.556	0.537	0.571	0.544	5.38
11) 1,1,1-Trichloroet	0.593	0.629	0.576	0.645	0.621	0.604	0.636	0.615	4.06
12) Benzene	1.681	1.663	1.504	1.628	1.554	1.503	1.551	1.583	4.64
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 1.54480 *A + -0.00157 *A^2								
13)S 1,2-Dichloroethan	0.407	0.407	0.413	0.434	0.389	0.389	0.387	0.404	4.23
14) 1,2-Dichloroethan	0.768	0.789	0.746	0.780	0.737	0.728	0.733	0.754	3.24
15) Trichloroethene	0.466	0.487	0.444	0.487	0.472	0.461	0.476	0.470	3.22
16) 1,2-Dichloropropa	0.514	0.567	0.519	0.548	0.517	0.503	0.519	0.527	4.30
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 0.51595 *A + -0.00029 *A^2								
17) cis-1,3-Dichlorop	0.485	0.515	0.497	0.552	0.551	0.561	0.582	0.535	6.69
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.161	1.150	1.123	1.108	1.100	1.117	1.132	1.127	1.95
20) trans-1,3-Dichlor	0.576	0.606	0.611	0.681	0.682	0.706	0.738	0.657	9.10
21) Tetrachloroethene	0.563	0.631	0.539	0.583	0.555	0.541	0.566	0.568	5.54
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.54272 *A + 0.00447 *A^2								
22) 1,4-Dichlorobenze	1.098	1.175	1.110	1.205	1.177	1.154	1.188	1.158	3.46
23) 1,2-Dibromo-3-Chl	0.334	0.260	0.190	0.205	0.209	0.220	0.225	0.235	20.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								

6.7.1  
6

# Initial Calibration Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

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$$\text{Response Ratio} = 0.00000 + 0.20028 *A + 0.00615 *A^2$$

-----  
(#) = Out of Range

SIMCL091120.M

Sun Sep 13 19:41:25 2020



## Initial Calibration Verification

Job Number: FA78571  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2356-ICV2356  
 Lab FileID: O61238.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\091120\O61238.D Vial: 10  
 Acq On : 11 Sep 2020 6:16 pm Operator: stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00	7.35
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	8.489	15.1	93	0.00	2.90
3	Chloromethane	10.000	8.270	17.3	94	0.00	2.80
	----- AvgRF	CCRF	%Dev	-----			
4	1,1-Dichloroethene	0.691	0.646	6.5	98	0.00	4.09
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	8.887	11.1	101	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	9.532	4.7	101	0.00	4.87
	----- AvgRF	CCRF	%Dev	-----			
7	1,1-Dichloroethane	0.927	0.885	4.5	103	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.443	3.3	104	0.00	6.07
9	Chloroform	0.798	0.745	6.6	102	0.00	6.33
10	Carbon Tetrachloride	0.544	0.522	4.0	100	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.580	5.7	100	0.00	6.58
	----- Amount	Calc.	%Drift	-----			
12	Benzene	10.000	10.095	-1.0	107	0.00	6.94
	----- AvgRF	CCRF	%Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.386	4.5	106	0.00	7.07
14	1,2-Dichloroethane	0.754	0.741	1.7	107	0.00	7.14
15	Trichloroethene	0.470	0.466	0.9	105	0.00	7.52
	----- Amount	Calc.	%Drift	-----			
16	1,2-Dichloropropane	10.000	10.102	-1.0	108	0.00	8.04
	----- AvgRF	CCRF	%Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.573	-7.1	111	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	10.45
19 S	Toluene-d8	1.127	1.117	0.9	108	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.726	-10.5	113	0.00	9.34
	----- Amount	Calc.	%Drift	-----			
21	Tetrachloroethene	10.000	9.602	4.0	101	0.00	9.34
	----- AvgRF	CCRF	%Dev	-----			

# Initial Calibration Verification

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICV2356  
**Lab FileID:** O61238.D

22	1,4-Dichlorobenzene	1.158	1.170	-1.0	105	0.00	12.83
		-----	Amount	Calc.	%Drift	-----	
23	1,2-Dibromo-3-Chloropropa	10.000	10.133	-1.3	109	0.00	14.04
		-----				-----	

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Sun Sep 13 19:41:09 2020

6.7.2  
 6

## Continuing Calibration Summary

Job Number: FA78571  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2357-CC2356  
 Lab FileID: O61243.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\vo2357\O61243.d Vial: 1  
 Acq On : 11 Sep 2020 8:15 pm Operator: stutip  
 Sample : CC2356-5 Inst : MSVOA12  
 Misc : MS47191,VO2357,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	97	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	8.742	12.6	87	0.00	2.90
3	Chloromethane	10.000	8.781	12.2	89	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.614	11.1	84	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	8.407	15.9	87	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	8.855	11.4	85	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.822	11.3	86	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.410	10.5	87	0.00	6.07
9	Chloroform	0.798	0.704	11.8	87	0.00	6.33
10	Carbon Tetrachloride	0.544	0.482	11.4	84	0.00	6.50
11	1,1,1-Trichloroethane	0.615	0.547	11.1	85	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	9.023	9.8	86	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.388	4.0	96	0.00	7.07
14	1,2-Dichloroethane	0.754	0.683	9.4	89	0.00	7.14
15	Trichloroethene	0.470	0.417	11.3	85	0.00	7.51
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	9.216	7.8	89	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.509	4.9	89	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00	10.44
19 S	Toluene-d8	1.127	1.104	2.0	97	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.631	4.0	90	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	8.891	11.1	85	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2357-CC2356  
**Lab FileID:** O61243.D

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22	1,4-Dichlorobenzene	1.158	1.068	7.8	88	0.00	12.82
----	---------------------	-------	-------	-----	----	------	-------

	----- True	Calc.	% Drift	-----			
23	1,2-Dibromo-3-Chloropropa	10.000	9.126	8.7	89	0.00	14.04

-----  
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(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 03:06:23 2020

6.7.3

6

**Continuing Calibration Summary**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2357-ECC2356  
**Lab FileID:** O61269.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\vo2357\O61269.d Vial: 26  
 Acq On : 12 Sep 2020 5:18 am Operator: stutip  
 Sample : ecc2356-5 Inst : MSVOA12  
 Misc : MS47191,VO2357,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	85	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.289	-2.9	88	0.00	2.90
3	Chloromethane	10.000	10.657	-6.6	92	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.719	-4.1	87	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	10.178	-1.8	92	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	10.520	-5.2	88	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.970	-4.6	89	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.469	-2.4	87	0.00	6.07
9	Chloroform	0.798	0.814	-2.0	88	0.00	6.33
10	Carbon Tetrachloride	0.544	0.540	0.7	82	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.613	0.3	84	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	10.403	-4.0	87	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.389	3.7	85	0.00	7.07
14	1,2-Dichloroethane	0.754	0.785	-4.1	90	0.00	7.14
15	Trichloroethene	0.470	0.477	-1.5	86	0.00	7.52
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	10.553	-5.5	89	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.539	-0.7	83	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	10.45
19 S	Toluene-d8	1.127	1.074	4.7	82	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.679	-3.3	84	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	9.829	1.7	82	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2357-ECC2356  
**Lab FileID:** O61269.D

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22	1,4-Dichlorobenzene	1.158	1.216	-5.0	87	0.00	12.83
----	---------------------	-------	-------	------	----	------	-------

	----- True      Calc.      % Drift      -----						
23	1,2-Dibromo-3-Chloropropa	10.000	10.021	-0.2	86	0.00	14.04

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(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M              Mon Sep 14 03:18:41 2020

6.7.4

6

# Initial Calibration Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICC2414  
**Lab FileID:** Z62211.D

## Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

### Calibration Files

1 =Z62207.D 2 =Z62208.D 3 =Z62209.D 4 =Z62210.D  
 5 =Z62211.D 6 =Z62212.D 7 =Z62213.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.745	0.530	0.472	0.398	0.398	0.410	0.429	0.483	25.87
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983								
	Response Ratio = 0.00000 + 0.41463 *A + 0.00115 *A^2								
3) Chloromethane	0.663	0.498	0.481	0.368	0.359	0.379	0.420	0.453	23.78
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980								
	Response Ratio = 0.00000 + 0.31946 *A + 0.02378 *A^2								
4) 1,1-Dichloroethen	0.306	0.298	0.281	0.309	0.292	0.302	0.306	0.299	3.29
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.30297 *A								
5) Methylene Chlorid	2.740	0.838	0.457	0.451	0.392	0.409	0.402	0.813	106.36
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9908								
	Response Ratio = 0.00000 + 0.49775 *A + -0.02806 *A^2								
6)T trans-1,2-Dichlor	0.358	0.379	0.341	0.385	0.360	0.379	0.382	0.369	4.44
7) 1,1-Dichloroethan	0.575	0.661	0.582	0.662	0.612	0.647	0.644	0.626	5.82
8) cis-1,2-Dichloroe	0.419	0.429	0.375	0.427	0.391	0.416	0.414	0.410	4.85
9) Chloroform	0.777	0.786	0.680	0.784	0.718	0.760	0.756	0.752	5.23
10) Carbon Tetrachlor	0.498	0.489	0.462	0.529	0.514	0.540	0.540	0.510	5.69
11) 1,1,1-Trichloroet	0.636	0.660	0.612	0.687	0.654	0.683	0.676	0.658	4.12
12) Benzene	1.341	1.460	1.286	1.457	1.351	1.425	1.421	1.392	4.75
13)S 1,2-Dichloroethan	0.304	0.310	0.307	0.309	0.314	0.310	0.310	0.309	0.92
14) 1,2-Dichloroethan	0.501	0.562	0.476	0.554	0.506	0.539	0.534	0.525	5.98
15) Trichloroethene	0.414	0.428	0.389	0.442	0.415	0.440	0.460	0.427	5.41
16) 1,2-Dichloropropa	0.344	0.377	0.320	0.372	0.342	0.363	0.361	0.354	5.62
17) cis-1,3-Dichlorop	0.353	0.328	0.296	0.411	0.409	0.472	0.460	0.390	17.03
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9970								
	Response Ratio = 0.00000 + 0.35911 *A + 0.02868 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.254	1.248	1.248	1.237	1.232	1.224	1.055	1.214	5.83
20)T trans-1,3-Dichlor	0.334	0.340	0.304	0.429	0.428	0.497	0.416	0.393	17.45
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9900								
	Response Ratio = 0.00000 + 0.41206 *A + 0.00891 *A^2								
21) Tetrachloroethene	0.505	0.538	0.491	0.550	0.516	0.540	0.467	0.515	5.78
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9961								
	Response Ratio = 0.00000 + 0.59840 *A + -0.03017 *A^2								

(#) = Out of Range

# Initial Calibration Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICC2414  
**Lab FileID:** Z62211.D

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SIMCL091120.M

Sun Sep 13 14:24:15 2020



# Initial Calibration Verification

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICV2414  
**Lab FileID:** Z62215.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\091120\Z62215.D Vial: 10  
 Acq On : 11 Sep 2020 8:51 pm Operator: SHANICAO  
 Sample : ICV2414-5 Inst : MSVOA15  
 Misc : MS47171,VZ2414,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I Fluorobenzene	1.000	1.000	0.0	102	0.00	7.40
----- Amount Calc. %Drift -----						
2 Vinyl Chloride	10.000	10.131	-1.3	108	0.00	2.84
3 Chloromethane	10.000	9.964	0.4	104	0.00	2.73
4 1,1-Dichloroethene	10.000	10.988	-9.9	116	0.00	4.08
5 Methylene Chloride	10.000	9.188	8.1	107	0.00	4.71
----- AvgRF CCRF %Dev -----						
6 T trans-1,2-Dichloroethene	0.369	0.379	-2.7	108	0.00	4.89
7 1,1-Dichloroethane	0.626	0.649	-3.7	108	0.00	5.55
8 cis-1,2-Dichloroethene	0.410	0.412	-0.5	108	0.00	6.11
9 Chloroform	0.752	0.748	0.5	106	0.00	6.38
10 Carbon Tetrachloride	0.510	0.540	-5.9	107	0.00	6.54
11 1,1,1-Trichloroethane	0.658	0.683	-3.8	107	0.00	6.61
12 Benzene	1.392	1.466	-5.3	111	0.00	6.99
13 S 1,2-Dichloroethane-d4	0.309	0.315	-1.9	102	0.00	7.13
14 1,2-Dichloroethane	0.525	0.541	-3.0	109	0.00	7.20
15 Trichloroethene	0.427	0.446	-4.4	110	0.00	7.57
16 1,2-Dichloropropane	0.354	0.368	-4.0	110	0.00	8.11
----- Amount Calc. %Drift -----						
17 cis-1,3-Dichloropropene	10.000	10.889	-8.9	115	0.00	8.77
----- AvgRF CCRF %Dev -----						
18 I Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.51
19 S Toluene-d8	1.214	1.231	-1.4	102	0.00	8.96
----- Amount Calc. %Drift -----						
20 T trans-1,3-Dichloropropene	10.000	11.393	-13.9	117	0.00	9.41
21 Tetrachloroethene	10.000	10.356	-3.6	109	0.00	9.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 Z62211.D SIMCL091120.M Sun Sep 13 14:23:50 2020

6.7.6  
6

# Continuing Calibration Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2415-CC2414  
**Lab FileID:** Z62239.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vz2415\Z62239.d Vial: 3  
 Acq On : 12 Sep 2020 11:07 am Operator: stutip  
 Sample : CC2414-5 Inst : MSVOA15  
 Misc : MS47183,VZ2415,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	115	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	11.613	-16.1	140	0.00	2.84
3	Chloromethane	10.000	11.923	-19.2	144	0.00	2.73
4	1,1-Dichloroethene	10.000	11.021	-10.2	131	0.00	4.08
5	Methylene Chloride	10.000	11.521	-15.2	146	0.00	4.71
	----- AvgRF	CCRF	% Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.436	-18.2	139	0.00	4.89
7	1,1-Dichloroethane	0.626	0.756	-20.8#	142	0.00	5.54
8	cis-1,2-Dichloroethene	0.410	0.478	-16.6	141	0.00	6.10
9	Chloroform	0.752	0.866	-15.2	139	0.00	6.37
10	Carbon Tetrachloride	0.510	0.584	-14.5	131	0.00	6.54
11	1,1,1-Trichloroethane	0.658	0.759	-15.3	134	0.00	6.61
12	Benzene	1.392	1.642	-18.0	140	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.306	1.0	112	0.00	7.12
14	1,2-Dichloroethane	0.525	0.602	-14.7	137	0.00	7.19
15	Trichloroethene	0.427	0.470	-10.1	130	0.00	7.56
16	1,2-Dichloropropane	0.354	0.412	-16.4	139	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	12.973	-29.7#	158	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	115	0.00	10.51
19 S	Toluene-d8	1.214	1.228	-1.2	114	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	13.662	-36.6#	160	0.00	9.41
21	Tetrachloroethene	10.000	11.329	-13.3	134	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62211.D    SIMCL091120.M              Mon Sep 14 06:36:46 2020

6.7.7  
6

# Continuing Calibration Summary

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2415-ECC2414  
**Lab FileID:** Z62256.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vz2415\Z62256.d Vial: 17  
 Acq On : 12 Sep 2020 4:41 pm Operator: stutip  
 Sample : ecc2414-5 Inst : MSVOA15  
 Misc : MS47192,VZ2415,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	12.629	-26.3	132	0.00	2.84
3	Chloromethane	10.000	12.345	-23.5	129	0.00	2.73
4	1,1-Dichloroethene	10.000	11.546	-15.5	119	0.00	4.09
5	Methylene Chloride	10.000	11.605	-16.1	127	0.00	4.72
	----- AvgRF	CCRF	% Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.444	-20.3	123	0.00	4.89
7	1,1-Dichloroethane	0.626	0.779	-24.4	127	0.00	5.55
8	cis-1,2-Dichloroethene	0.410	0.490	-19.5	125	0.00	6.11
9	Chloroform	0.752	0.914	-21.5	127	0.00	6.38
10	Carbon Tetrachloride	0.510	0.571	-12.0	111	0.00	6.55
11	1,1,1-Trichloroethane	0.658	0.785	-19.3	120	0.00	6.62
12	Benzene	1.392	1.702	-22.3	125	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.324	-4.9	103	0.00	7.13
14	1,2-Dichloroethane	0.525	0.667	-27.0	131	0.00	7.20
15	Trichloroethene	0.427	0.520	-21.8	124	0.00	7.57
16	1,2-Dichloropropane	0.354	0.436	-23.2	127	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	10.570	-5.7	108	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	10.51
19 S	Toluene-d8	1.214	1.210	0.3	98	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	10.586	-5.9	106	0.00	9.41
21	Tetrachloroethene	10.000	11.883	-18.8	121	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62211.D    SIMCL091120.M              Mon Sep 14 06:37:11 2020

**Run Sequence Report**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2356	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VO2356-BFB	O61227.D	09/11/20 14:01	n/a	BFB Tune
VO2356-IC2356	O61230.D	09/11/20 15:34	n/a	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20 15:54	n/a	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20 16:14	n/a	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20 16:35	n/a	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20 16:55	n/a	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20 17:15	n/a	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20 17:36	n/a	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20 18:16	n/a	Initial cal verification 5

**Run Sequence Report**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2357	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2357-BFB	O61242.D	09/11/20 19:53	n/a	BFB Tune
VO2357-CC2356	O61243.D	09/11/20 20:15	n/a	Continuing cal 5
VO2357-BS	O61244.D	09/11/20 20:51	n/a	Blank Spike
VO2357-MB	O61245.D	09/11/20 21:11	n/a	Method Blank
FA78570-1	O61247.D	09/11/20 21:52	n/a	(used for QC only; not part of job FA78571)
ZZZZZZ	O61248.D	09/11/20 22:12	n/a	(unrelated sample)
ZZZZZZ	O61249.D	09/11/20 22:32	n/a	(unrelated sample)
ZZZZZZ	O61250.D	09/11/20 22:53	n/a	(unrelated sample)
ZZZZZZ	O61251.D	09/11/20 23:13	n/a	(unrelated sample)
FA78571-1	O61252.D	09/11/20 23:33	n/a	2036Z0BW229F
FA78571-2	O61253.D	09/11/20 23:53	n/a	2036Z0BW230F
FA78571-3	O61254.D	09/12/20 00:14	n/a	2036Z0BW231D
FA78571-4	O61255.D	09/12/20 00:34	n/a	2036Z0BW232F
FA78571-5	O61256.D	09/12/20 00:54	n/a	2036Z0BW233F
FA78571-6	O61257.D	09/12/20 01:15	n/a	2036Z0BW234A
FA78571-7	O61258.D	09/12/20 01:35	n/a	2036W0BW097A
FA78571-8	O61259.D	09/12/20 01:55	n/a	2036W0BW098F
FA78571-9	O61260.D	09/12/20 02:15	n/a	2036W0BW099F
FA78571-10	O61261.D	09/12/20 02:35	n/a	2036W0BW102F
FA78571-11	O61262.D	09/12/20 02:56	n/a	2036W0BW103F
FA78571-12	O61263.D	09/12/20 03:16	n/a	2036W0BW104F
FA78571-13	O61264.D	09/12/20 03:36	n/a	2036W0BW105D
FA78571-14	O61265.D	09/12/20 03:57	n/a	2036W0BW106F
FA78571-15	O61266.D	09/12/20 04:17	n/a	2036W0BW107F
FA78570-1MS	O61267.D	09/12/20 04:37	n/a	Matrix Spike
FA78570-1MSD	O61268.D	09/12/20 04:58	n/a	Matrix Spike Duplicate
VO2357-ECC2356	O61269.D	09/12/20 05:18	n/a	Ending cal 5

## Run Sequence Report

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2414      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2414-BFB	Z62205.D	09/11/20 17:20	n/a	BFB Tune
VZ2414-IC2414	Z62207.D	09/11/20 18:15	n/a	Initial cal 1
VZ2414-IC2414	Z62208.D	09/11/20 18:34	n/a	Initial cal 2
VZ2414-IC2414	Z62209.D	09/11/20 18:53	n/a	Initial cal 3
VZ2414-IC2414	Z62210.D	09/11/20 19:13	n/a	Initial cal 4
VZ2414-ICC2414	Z62211.D	09/11/20 19:32	n/a	Initial cal 5
VZ2414-IC2414	Z62212.D	09/11/20 19:51	n/a	Initial cal 6
VZ2414-IC2414	Z62213.D	09/11/20 20:13	n/a	Initial cal 7
VZ2414-ICV2414	Z62215.D	09/11/20 20:51	n/a	Initial cal verification 5
VZ2414-BS	Z62216.D	09/11/20 21:10	n/a	Blank Spike
VZ2414-MB	Z62218.D	09/11/20 21:49	n/a	Method Blank
FA78573-1	Z62219.D	09/11/20 22:08	n/a	(used for QC only; not part of job FA78571)
ZZZZZZ	Z62220.D	09/11/20 22:27	n/a	(unrelated sample)
ZZZZZZ	Z62221.D	09/11/20 22:47	n/a	(unrelated sample)
ZZZZZZ	Z62222.D	09/11/20 23:06	n/a	(unrelated sample)
ZZZZZZ	Z62223.D	09/11/20 23:26	n/a	(unrelated sample)
ZZZZZZ	Z62224.D	09/11/20 23:45	n/a	(unrelated sample)
ZZZZZZ	Z62225.D	09/12/20 00:04	n/a	(unrelated sample)
ZZZZZZ	Z62226.D	09/12/20 00:23	n/a	(unrelated sample)
ZZZZZZ	Z62227.D	09/12/20 00:42	n/a	(unrelated sample)
ZZZZZZ	Z62228.D	09/12/20 01:02	n/a	(unrelated sample)
ZZZZZZ	Z62229.D	09/12/20 01:21	n/a	(unrelated sample)
ZZZZZZ	Z62230.D	09/12/20 01:40	n/a	(unrelated sample)
ZZZZZZ	Z62231.D	09/12/20 02:00	n/a	(unrelated sample)
ZZZZZZ	Z62232.D	09/12/20 02:19	n/a	(unrelated sample)
FA78573-1MS	Z62233.D	09/12/20 02:38	n/a	Matrix Spike
FA78573-1MSD	Z62234.D	09/12/20 02:57	n/a	Matrix Spike Duplicate
VZ2414-ECC2414	Z62235.D	09/12/20 03:16	n/a	Ending cal 5

**Run Sequence Report**

**Job Number:** FA78571  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2415	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2415-BFB	Z62238.D	09/12/20 10:44	n/a	BFB Tune
VZ2415-CC2414	Z62239.D	09/12/20 11:07	n/a	Continuing cal 5
VZ2415-BS	Z62240.D	09/12/20 11:32	n/a	Blank Spike
VZ2415-MB	Z62242.D	09/12/20 12:11	n/a	Method Blank
ZZZZZZ	Z62243.D	09/12/20 12:30	n/a	(unrelated sample)
ZZZZZZ	Z62244.D	09/12/20 12:49	n/a	(unrelated sample)
ZZZZZZ	Z62245.D	09/12/20 13:08	n/a	(unrelated sample)
ZZZZZZ	Z62246.D	09/12/20 13:27	n/a	(unrelated sample)
FA78571-16	Z62247.D	09/12/20 13:47	n/a	2036W0BW108D
FA78571-17	Z62248.D	09/12/20 14:06	n/a	2036W0BW109F
FA78571-18	Z62249.D	09/12/20 14:25	n/a	2036W0BW110C
FA78571-19	Z62250.D	09/12/20 14:44	n/a	2036Y0BW415F
FA78571-20	Z62251.D	09/12/20 15:04	n/a	2036Y0BW416D
FA78571-21	Z62252.D	09/12/20 15:23	n/a	2036YOU2421F
FA78571-22	Z62253.D	09/12/20 15:44	n/a	2036YOU2422F
FA78571-16MS	Z62254.D	09/12/20 16:03	n/a	Matrix Spike
FA78571-16MSD	Z62255.D	09/12/20 16:22	n/a	Matrix Spike Duplicate
VZ2415-ECC2414	Z62256.D	09/12/20 16:41	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61252.d  
Acq On : 11 Sep 2020 11:33 pm  
Operator : stutip  
Sample : fa78571-1  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 03:00:49 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	266661	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	206650	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	111681	5.19	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	103.80%	
19) Toluene-d8	8.900	98	234338	5.03	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	100.60%	
Target Compounds						
5) Methylene Chloride	4.699	49	5457	0.09	ug/L	98
8) cis-1,2-Dichloroethene	6.072	96	1000	0.04	ug/L	98
9) Chloroform	6.333	83	2719	0.06	ug/L #	62
10) Carbon Tetrachloride	6.510	117	6153	0.21	ug/L	92
15) Trichloroethene	7.518	95	11186	0.45	ug/L	89
-----						

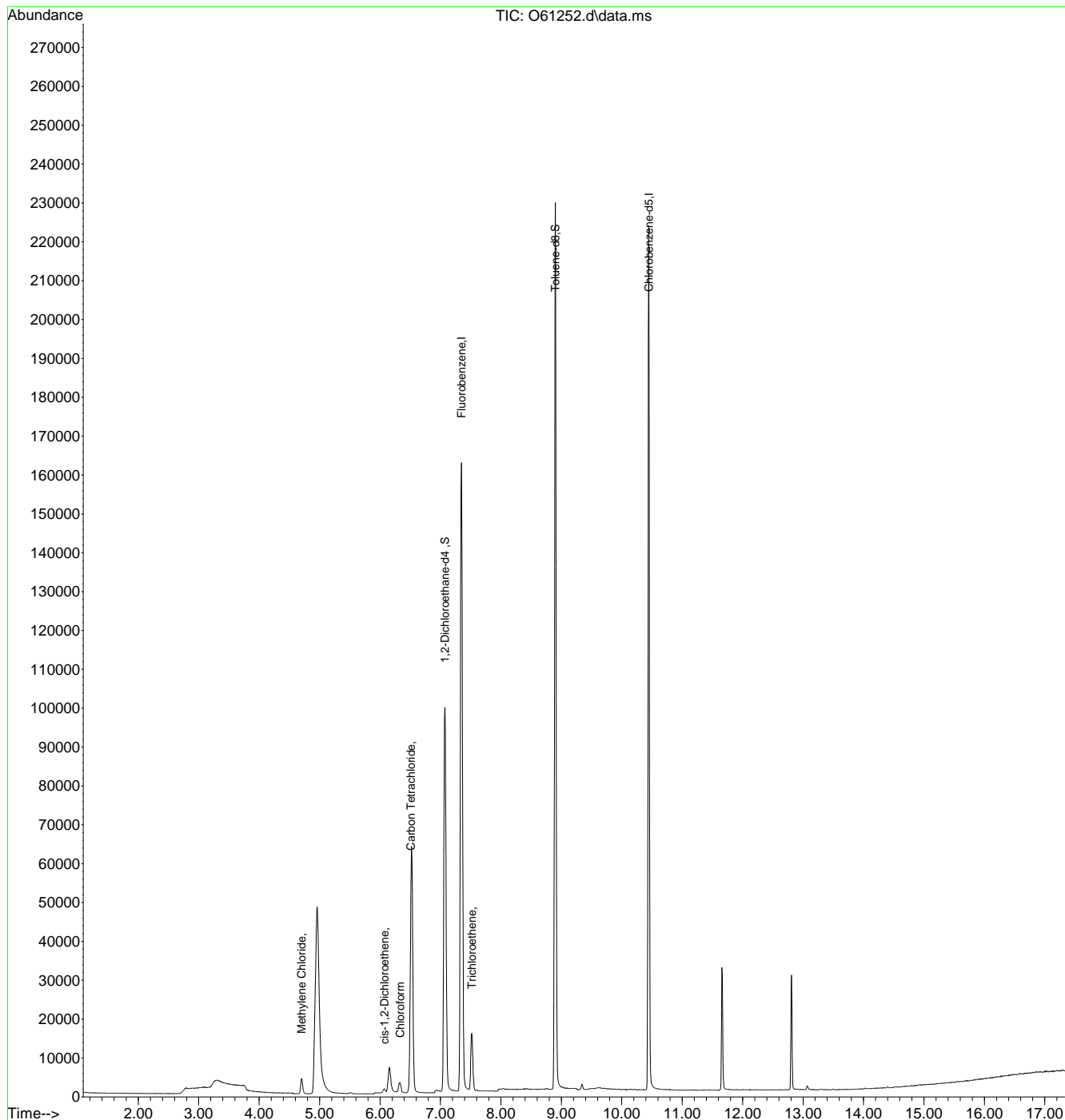
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1  
7

Quantitation Report (QT Reviewed)

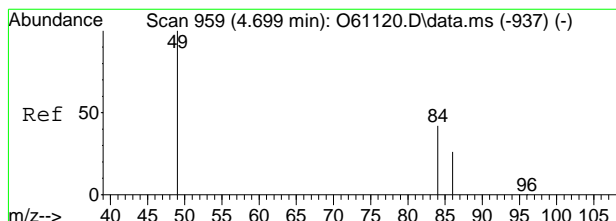
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61252.d  
 Acq On : 11 Sep 2020 11:33 pm  
 Operator : stutip  
 Sample : fa78571-1  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 03:00:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.1

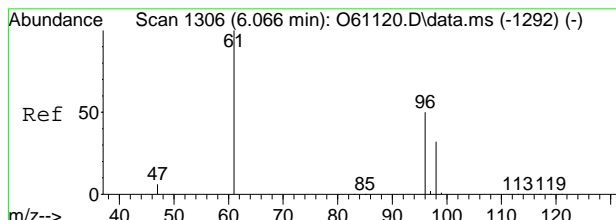
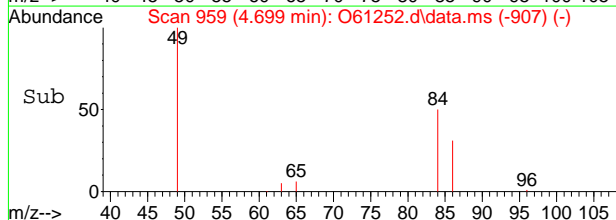
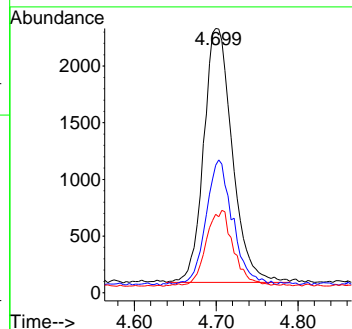
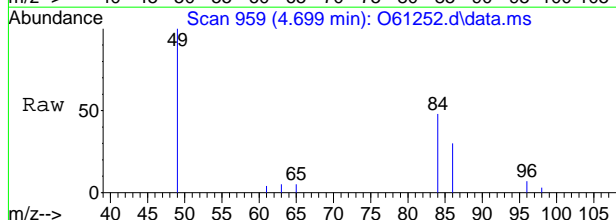




#5  
 Methylene Chloride  
 Concen: 0.09 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.004 min  
 Lab File: O61252.d  
 Acq: 11 Sep 2020 11:33 pm

Tgt Ion: 49 Resp: 5457

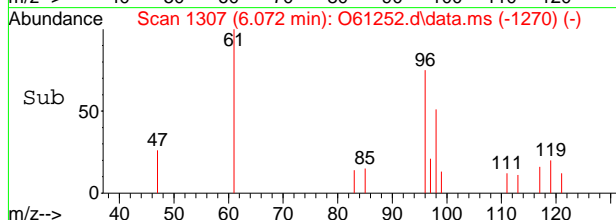
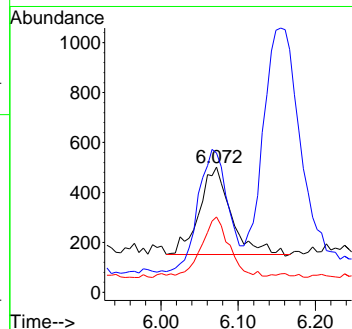
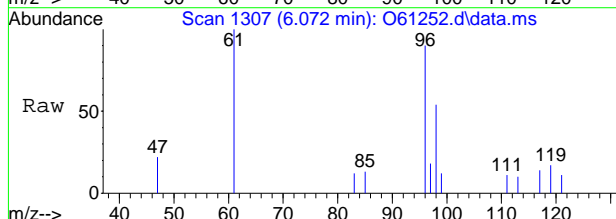
Ion	Ratio	Lower	Upper
49	100		
84	46.7	17.9	77.9
86	27.9	0.0	59.8



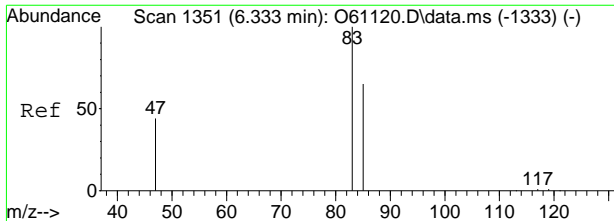
#8  
 cis-1,2-Dichloroethene  
 Concen: 0.04 ug/L  
 RT: 6.072 min Scan# 1307  
 Delta R.T. -0.000 min  
 Lab File: O61252.d  
 Acq: 11 Sep 2020 11:33 pm

Tgt Ion: 96 Resp: 1000

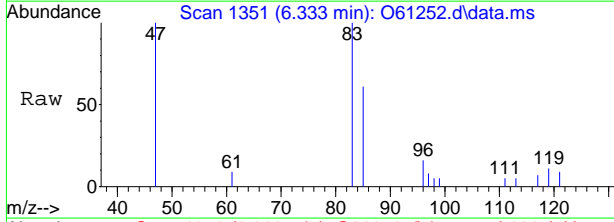
Ion	Ratio	Lower	Upper
96	100		
61	135.3	107.0	167.0
98	67.2	34.1	94.1



7.1.1  
7

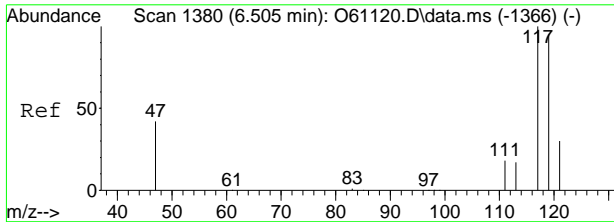
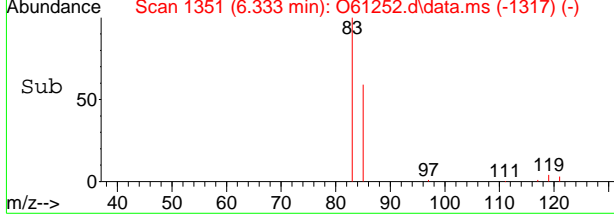
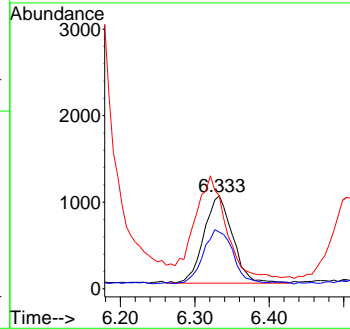


#9  
 Chloroform  
 Concen: 0.06 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61252.d  
 Acq: 11 Sep 2020 11:33 pm

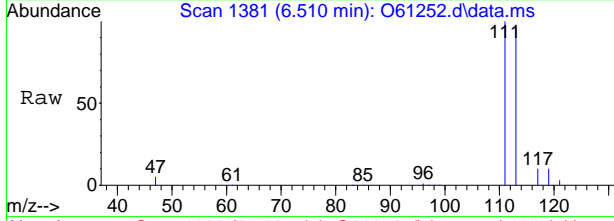


Tgt Ion: 83 Resp: 2719

Ion	Ratio	Lower	Upper
83	100		
85	57.9	33.0	93.0
47	92.2	8.1	68.1#

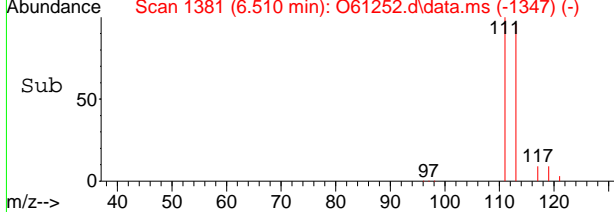
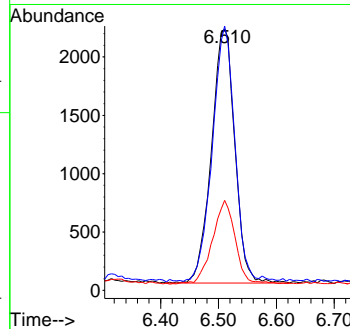


#10  
 Carbon Tetrachloride  
 Concen: 0.21 ug/L  
 RT: 6.510 min Scan# 1381  
 Delta R.T. -0.001 min  
 Lab File: O61252.d  
 Acq: 11 Sep 2020 11:33 pm

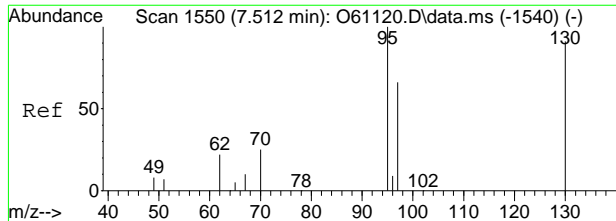


Tgt Ion: 117 Resp: 6153

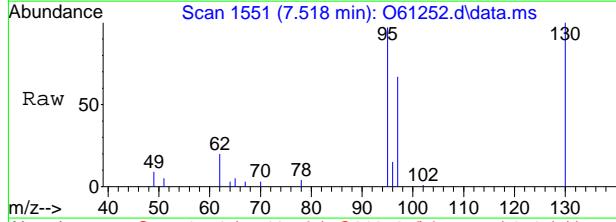
Ion	Ratio	Lower	Upper
117	100		
119	100.7	80.9	140.9
121	32.6	4.1	64.1



7.1.1  
7

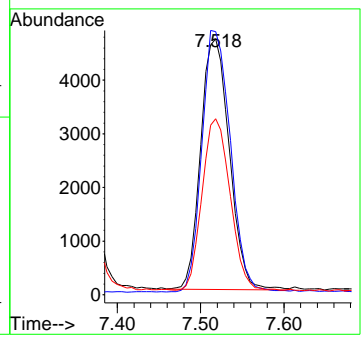
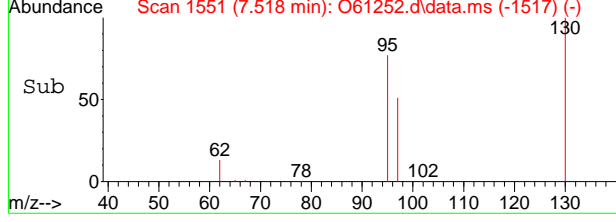


#15  
 Trichloroethene  
 Concen: 0.45 ug/L  
 RT: 7.518 min Scan# 1551  
 Delta R.T. 0.000 min  
 Lab File: O61252.d  
 Acq: 11 Sep 2020 11:33 pm



Tgt Ion: 95 Resp: 11186

Ion	Ratio	Lower	Upper
95	100		
130	104.2	60.4	120.4
97	68.4	34.6	94.6



7.1.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61253.d  
Acq On : 11 Sep 2020 11:53 pm  
Operator : stutip  
Sample : fa78571-2  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 03:01:24 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	263877	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	204000	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	110705	5.19	ug/L	0.00	
Spiked Amount	5.000	Range	74 - 125	Recovery	=	103.80%	
19) Toluene-d8	8.900	98	230805	5.02	ug/L	0.00	
Spiked Amount	5.000	Range	88 - 111	Recovery	=	100.40%	
Target Compounds							
5) Methylene Chloride	4.707	49	5236	0.09	ug/L	95	Qvalue
8) cis-1,2-Dichloroethene	6.066	96	3698	0.15	ug/L	85	
9) Chloroform	6.333	83	3557	0.08	ug/L #	68	
10) Carbon Tetrachloride	6.510	117	3844	0.13	ug/L	90	
15) Trichloroethene	7.518	95	20799	0.84	ug/L	86	
21) Tetrachloroethene	9.343	166	2927m	0.13	ug/L		
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

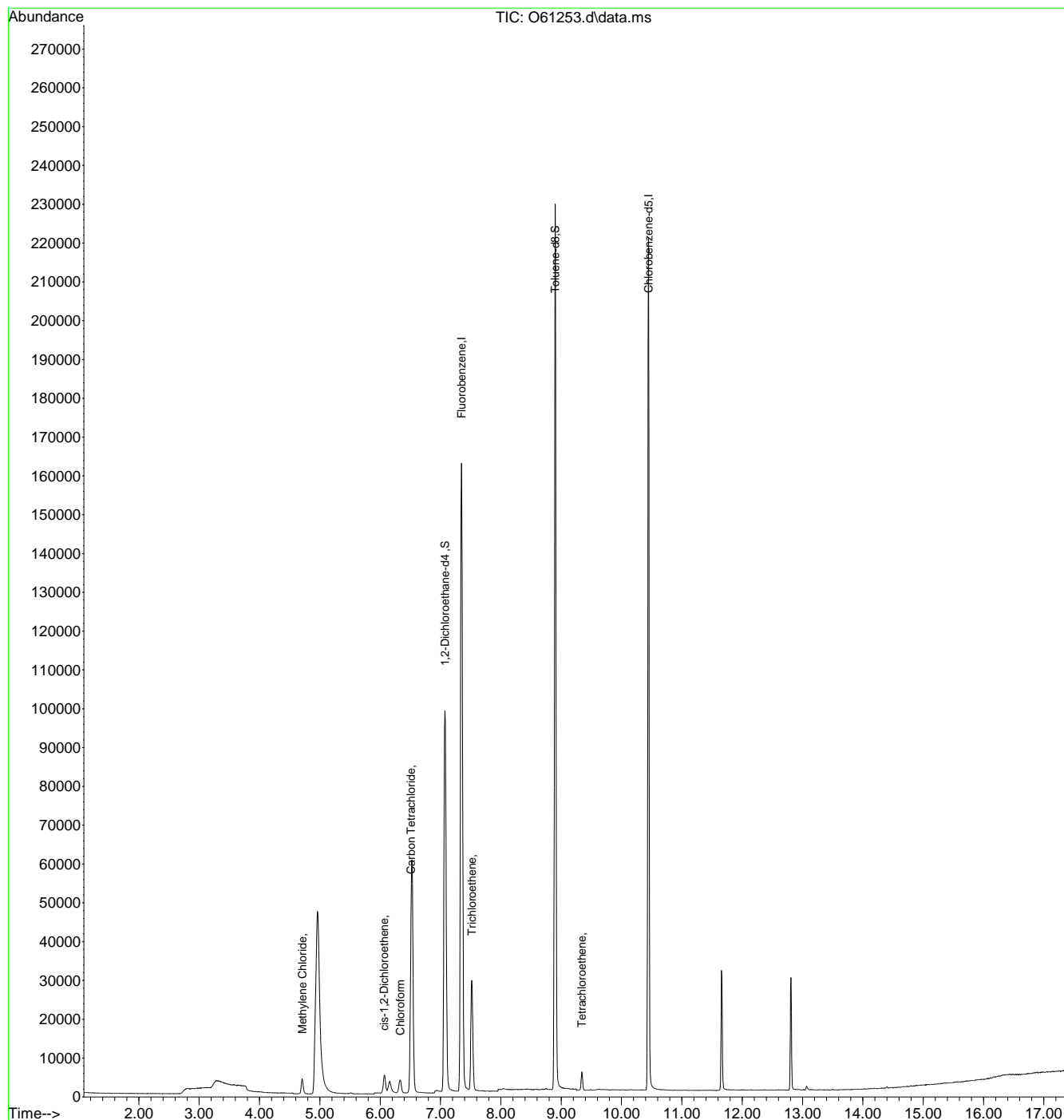
7.12  
7



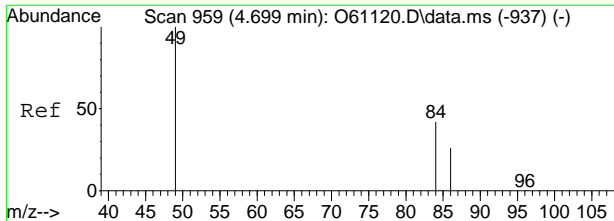
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61253.d  
 Acq On : 11 Sep 2020 11:53 pm  
 Operator : stutip  
 Sample : fa78571-2  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 03:01:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



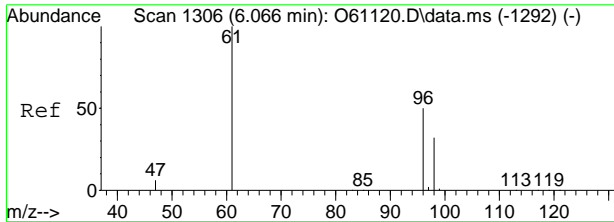
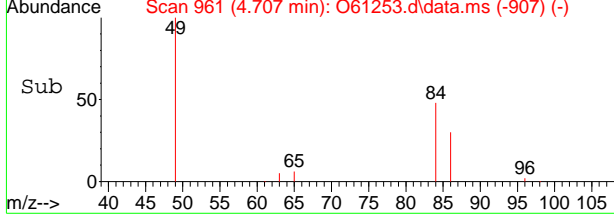
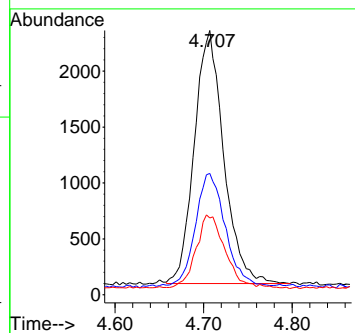
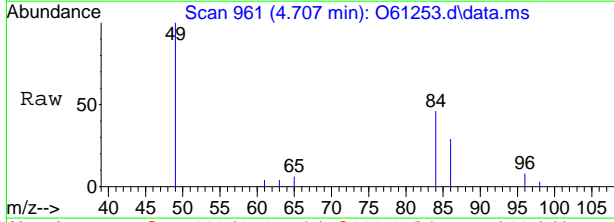
7.1.2  
7



#5  
 Methylene Chloride  
 Concen: 0.09 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61253.d  
 Acq: 11 Sep 2020 11:53 pm

Tgt Ion: 49 Resp: 5236

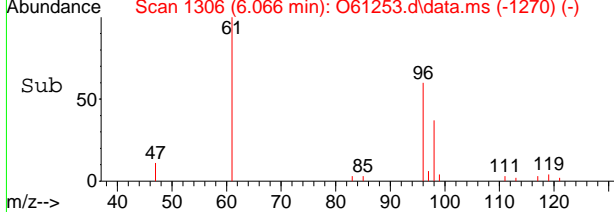
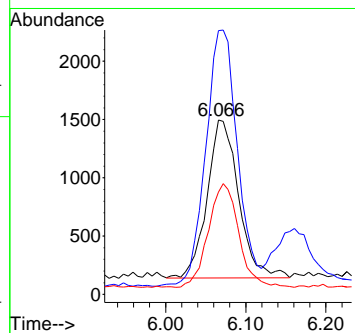
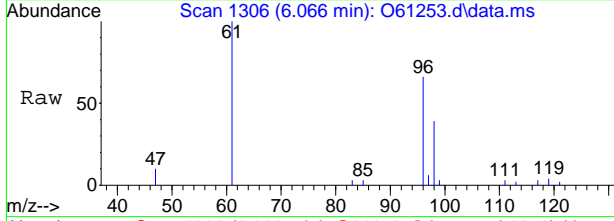
Ion	Ratio	Lower	Upper
49	100		
84	44.2	17.9	77.9
86	27.9	0.0	59.8



#8  
 cis-1,2-Dichloroethene  
 Concen: 0.15 ug/L  
 RT: 6.066 min Scan# 1306  
 Delta R.T. -0.006 min  
 Lab File: O61253.d  
 Acq: 11 Sep 2020 11:53 pm

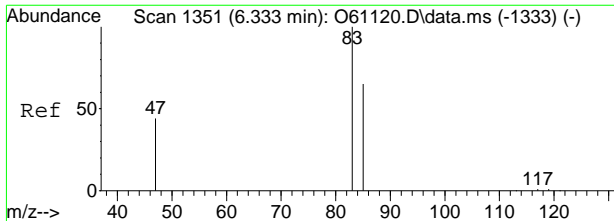
Tgt Ion: 96 Resp: 3698

Ion	Ratio	Lower	Upper
96	100		
61	160.8	107.0	167.0
98	60.0	34.1	94.1



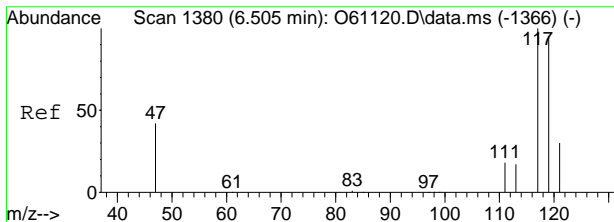
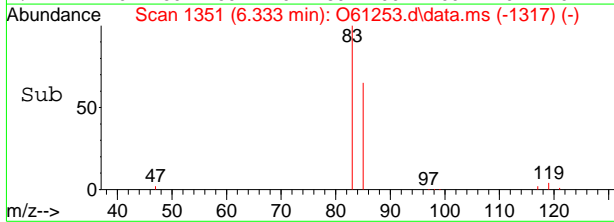
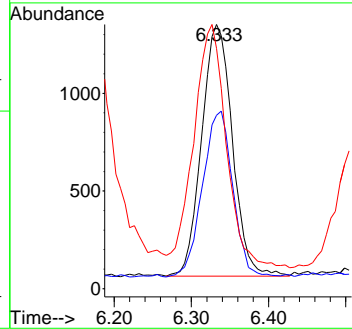
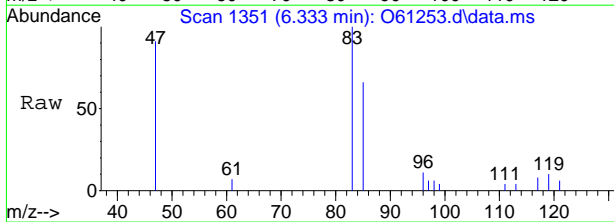
7.12  
7





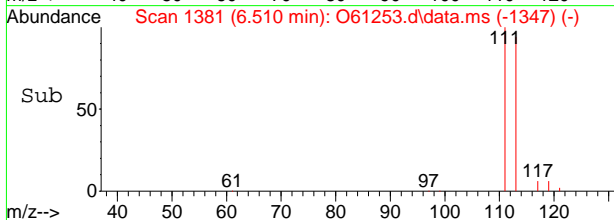
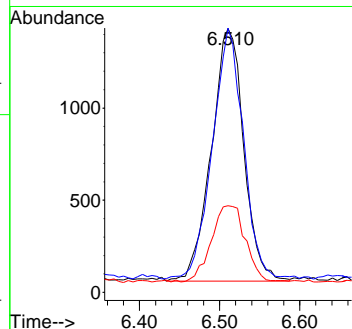
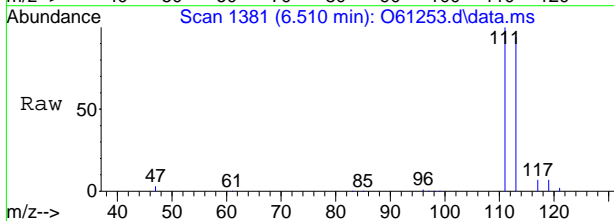
#9  
 Chloroform  
 Concen: 0.08 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61253.d  
 Acq: 11 Sep 2020 11:53 pm

Tgt Ion	Resp	Lower	Upper
83	3557	100	
85	64.3	33.0	93.0
47	87.2	8.1	68.1#

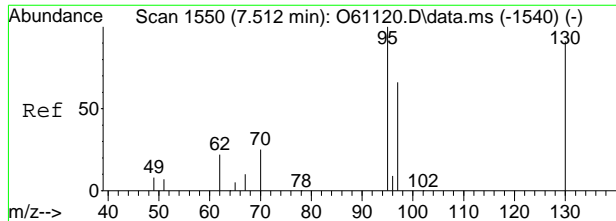


#10  
 Carbon Tetrachloride  
 Concen: 0.13 ug/L  
 RT: 6.510 min Scan# 1381  
 Delta R.T. -0.001 min  
 Lab File: O61253.d  
 Acq: 11 Sep 2020 11:53 pm

Tgt Ion	Resp	Lower	Upper
117	3844	100	
119	99.2	80.9	140.9
121	29.9	4.1	64.1



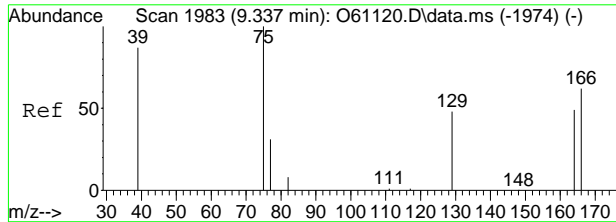
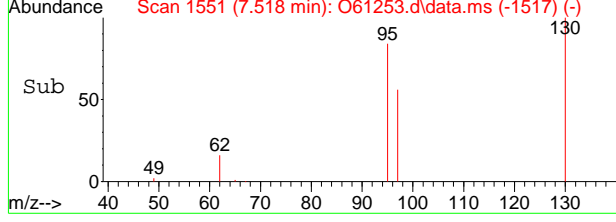
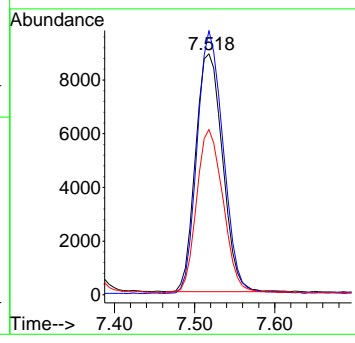
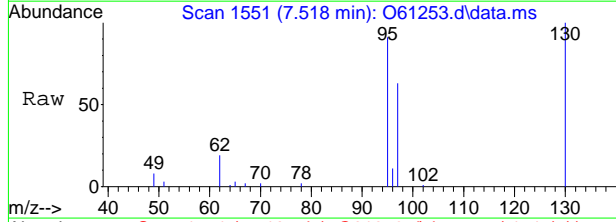
7.12  
7



#15  
 Trichloroethene  
 Concen: 0.84 ug/L  
 RT: 7.518 min Scan# 1551  
 Delta R.T. -0.000 min  
 Lab File: O61253.d  
 Acq: 11 Sep 2020 11:53 pm

Tgt Ion: 95 Resp: 20799

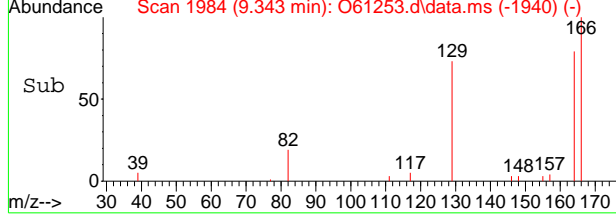
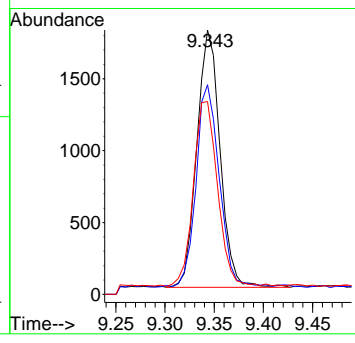
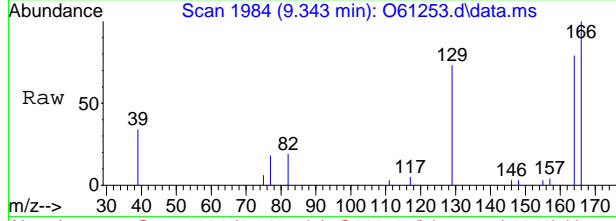
Ion	Ratio	Lower	Upper
95	100		
130	110.4	60.4	120.4
97	68.4	34.6	94.6



#21  
 Tetrachloroethene  
 Concen: 0.13 ug/L m  
 RT: 9.343 min Scan# 1984  
 Delta R.T. 0.000 min  
 Lab File: O61253.d  
 Acq: 11 Sep 2020 11:53 pm

Tgt Ion: 166 Resp: 2927

Ion	Ratio	Lower	Upper
166	100		
164	79.2	47.3	107.3
129	72.9	37.5	97.5



7.12  
7



# Manual Integration Approval Summary

**Sample Number:** FA78571-2      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61253.D      **Analyst approved:** 09/14/20 14:11 Akari Giraldo  
**Injection Time:** 09/11/20 23:53      **Supervisor approved:** 09/14/20 14:15 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration

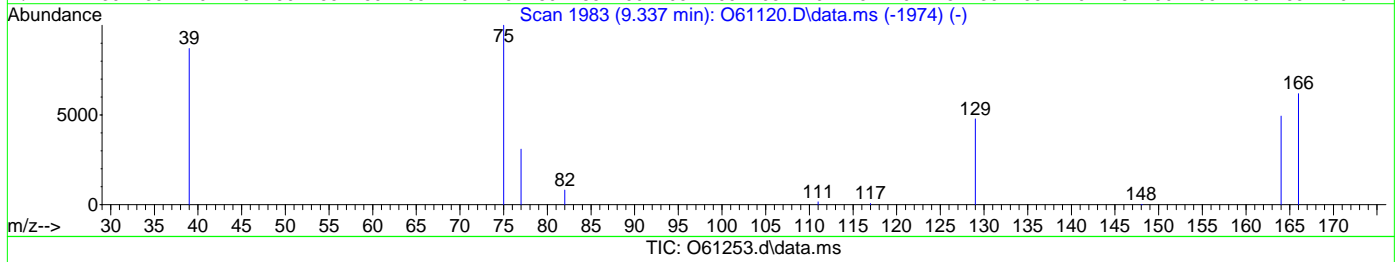
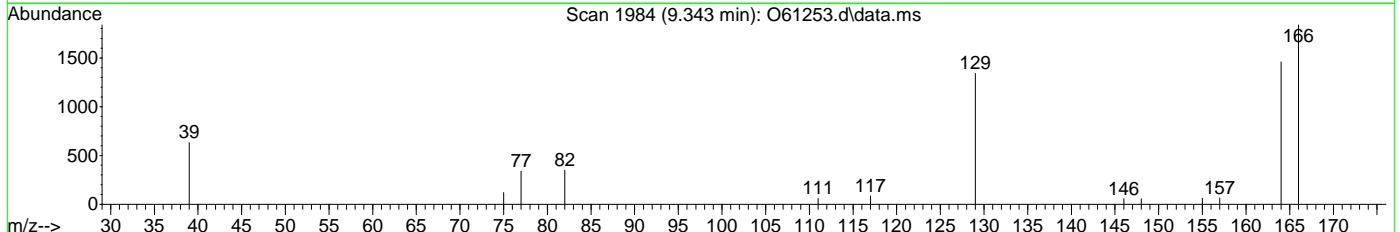
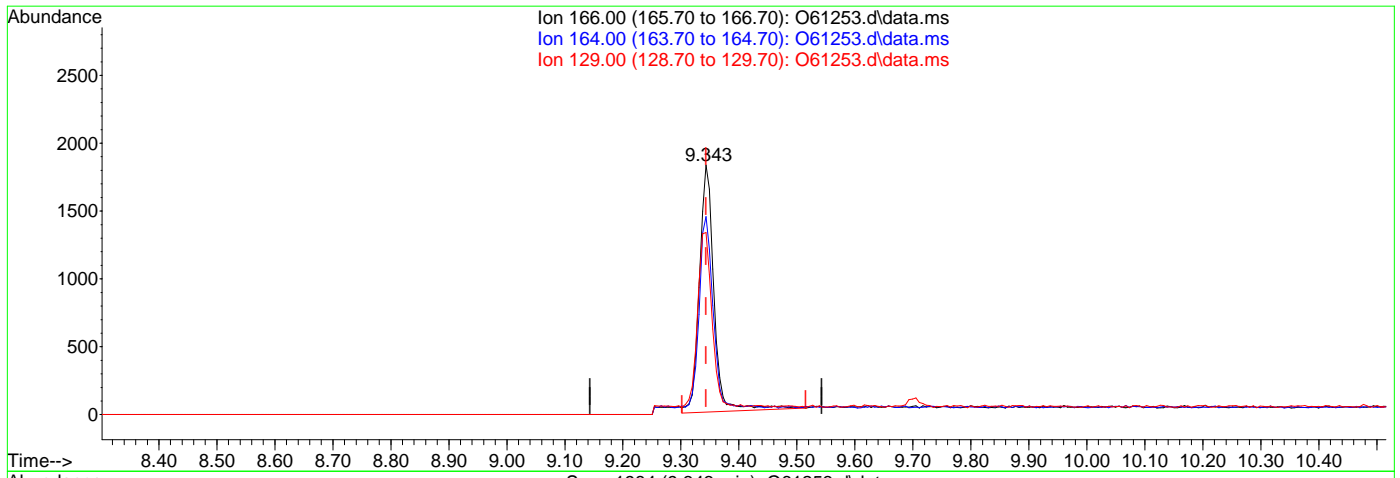
7.1.2.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61253.d  
Acq On : 11 Sep 2020 11:53 pm  
Operator : stutip  
Sample : fa78571-2  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 02:55:30 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(21) Tetrachloroethene ( )  
9.343min (+0.000) 0.14ug/L  
response 3211  
Ion Exp% Act%  
166.00 100 100  
164.00 77.30 78.06  
129.00 67.50 71.86  
0.00 0.00 0.00

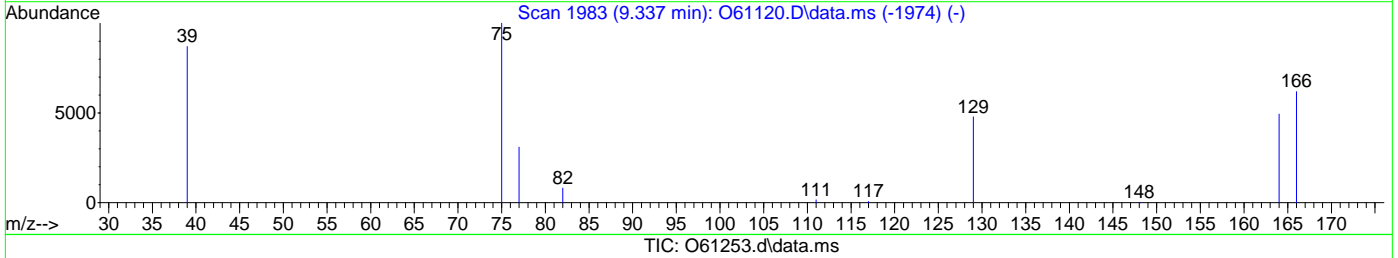
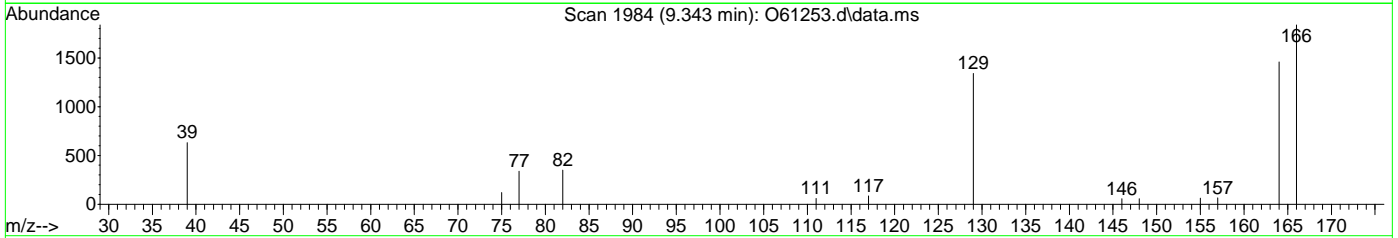
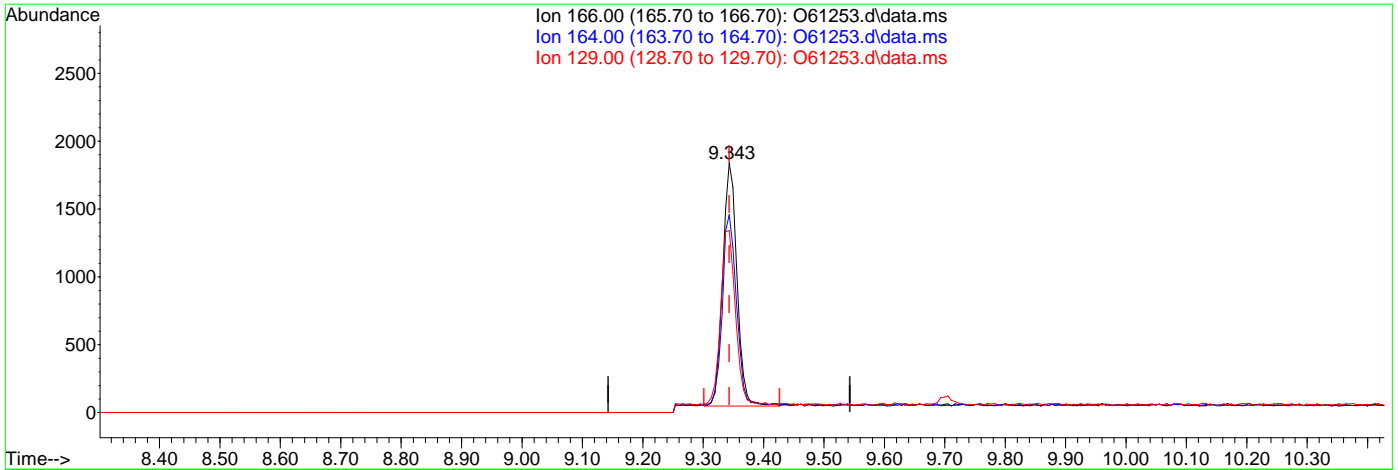


7.1.2.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61253.d  
 Acq On : 11 Sep 2020 11:53 pm  
 Operator : stutip  
 Sample : fa78571-2  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 02:55:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.13ug/L m

response 2927

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	79.24
129.00	67.50	72.93
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61254.d  
Acq On : 12 Sep 2020 12:14 am  
Operator : stutip  
Sample : fa78571-3  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 03:02:27 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	257708	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	200773	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	108854	5.23	ug/L	0.00	
Spiked Amount	5.000	Range	74 - 125	Recovery	=	104.60%	
19) Toluene-d8	8.896	98	226551	5.00	ug/L	0.00	
Spiked Amount	5.000	Range	88 - 111	Recovery	=	100.00%	
Target Compounds							
5) Methylene Chloride	4.699	49	5155	0.09	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	3633	0.15	ug/L		84
9) Chloroform	6.333	83	3469	0.08	ug/L		79
10) Carbon Tetrachloride	6.511	117	3813	0.14	ug/L		83
15) Trichloroethene	7.512	95	20366	0.84	ug/L		87
21) Tetrachloroethene	9.337	166	2855m	0.13	ug/L		
-----							

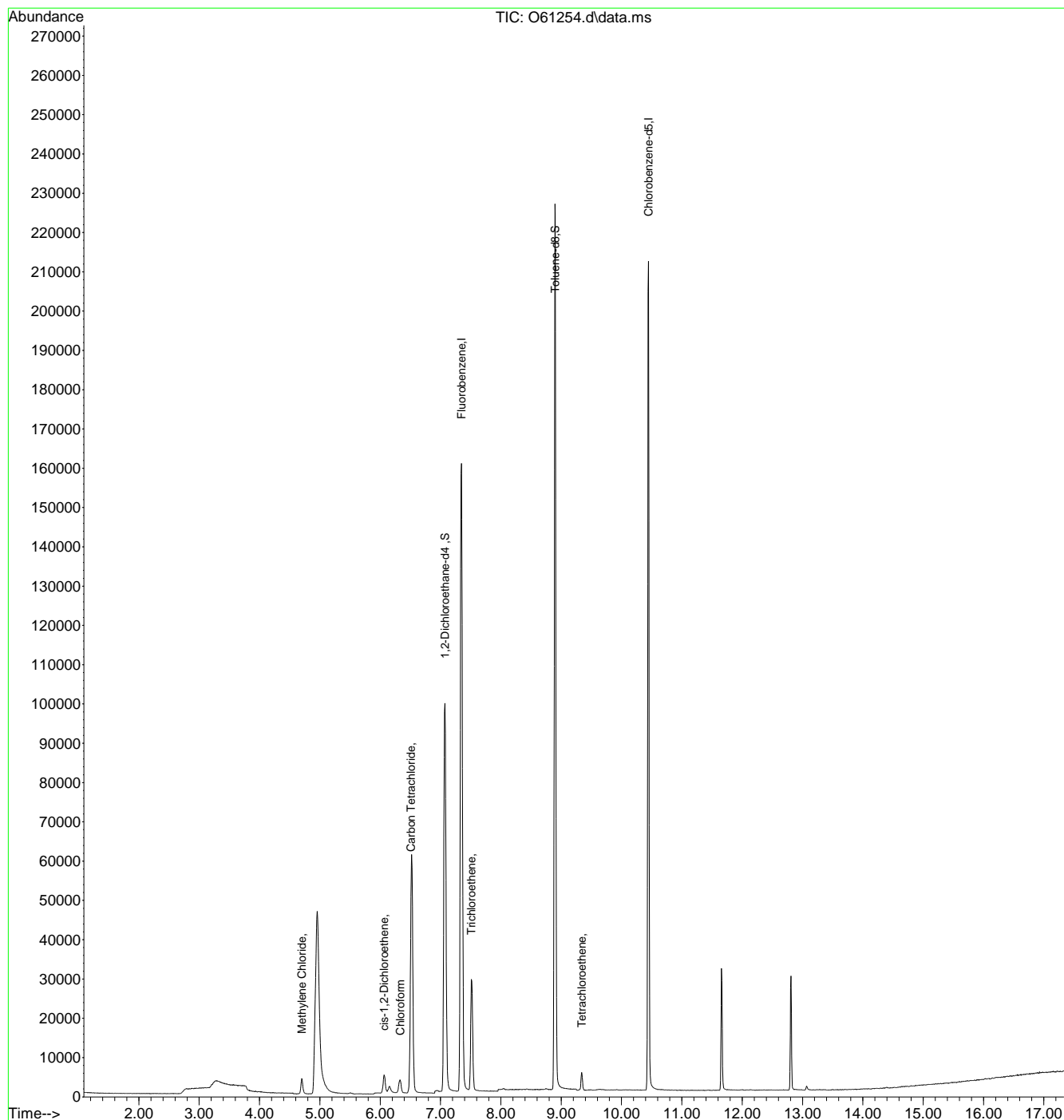
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.3  
7

Quantitation Report (QT Reviewed)

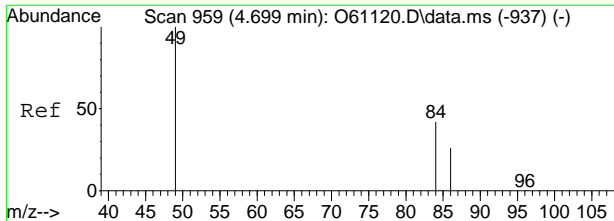
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61254.d  
 Acq On : 12 Sep 2020 12:14 am  
 Operator : stutip  
 Sample : fa78571-3  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 03:02:27 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



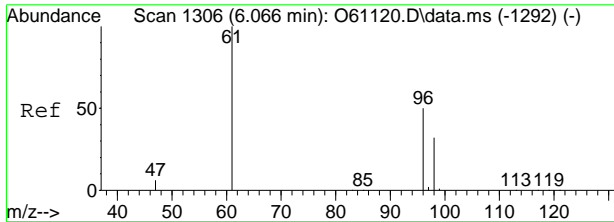
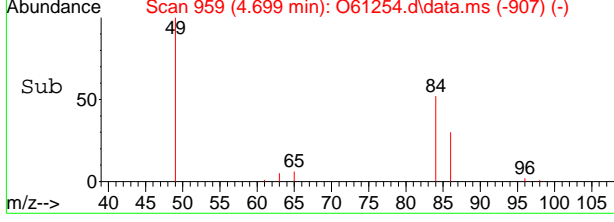
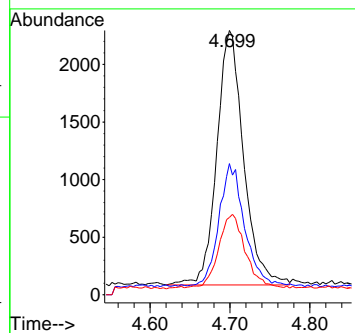
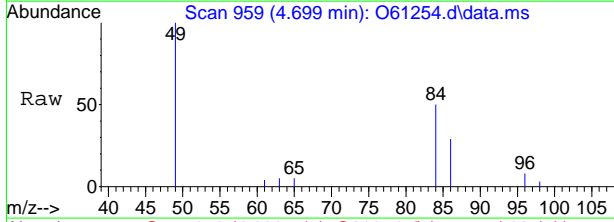
7.1.3  
7





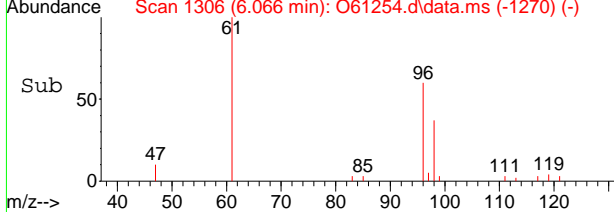
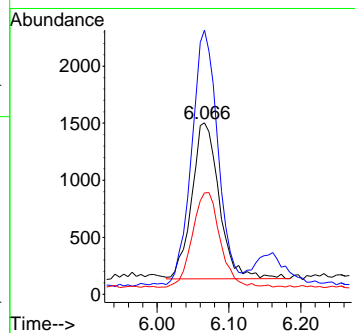
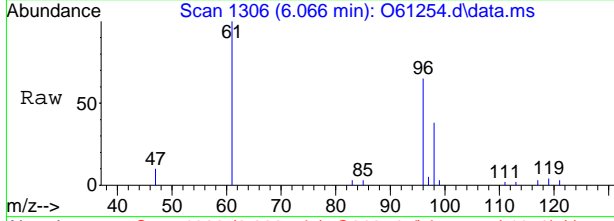
#5  
 Methylene Chloride  
 Concen: 0.09 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.004 min  
 Lab File: O61254.d  
 Acq: 12 Sep 2020 12:14 am

Tgt Ion	Ratio	Lower	Upper
49	100		
84	47.6	17.9	77.9
86	28.0	0.0	59.8



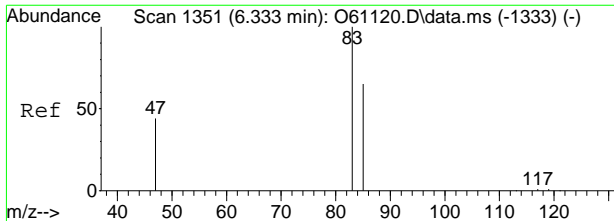
#8  
 cis-1,2-Dichloroethene  
 Concen: 0.15 ug/L  
 RT: 6.066 min Scan# 1306  
 Delta R.T. -0.006 min  
 Lab File: O61254.d  
 Acq: 12 Sep 2020 12:14 am

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.3	107.0	167.0
98	60.5	34.1	94.1



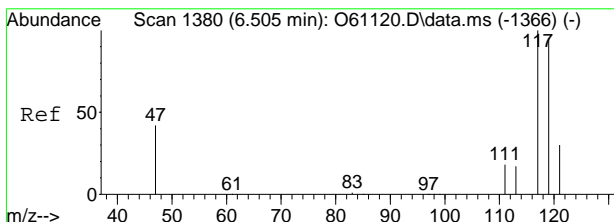
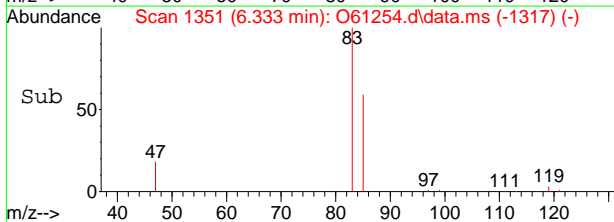
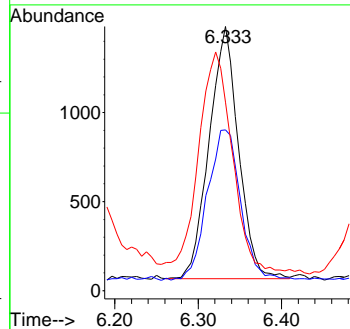
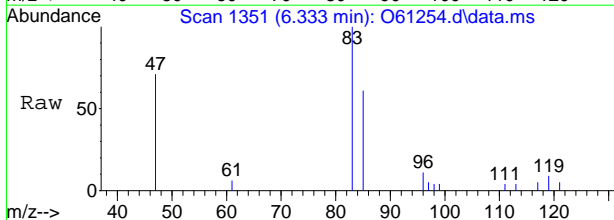
7.1.3  
 7





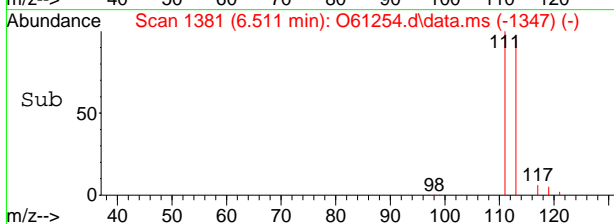
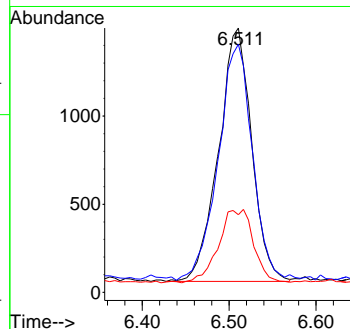
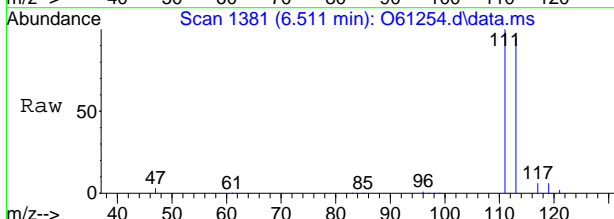
#9  
 Chloroform  
 Concen: 0.08 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61254.d  
 Acq: 12 Sep 2020 12:14 am

Tgt Ion	Resp	Lower	Upper
83	3469		
85	58.7	33.0	93.0
47	66.3	8.1	68.1

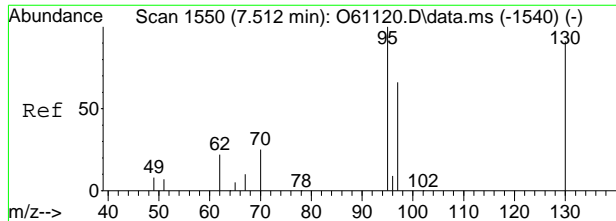


#10  
 Carbon Tetrachloride  
 Concen: 0.14 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. -0.000 min  
 Lab File: O61254.d  
 Acq: 12 Sep 2020 12:14 am

Tgt Ion	Resp	Lower	Upper
117	3813		
119	92.1	80.9	140.9
121	26.7	4.1	64.1

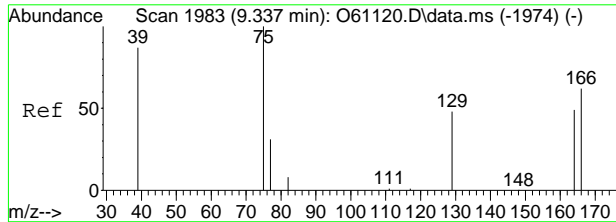
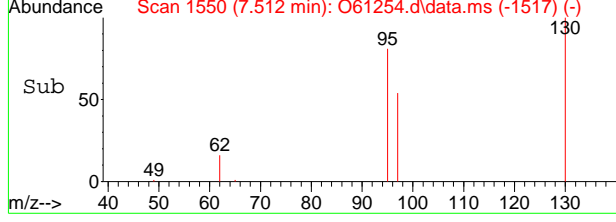
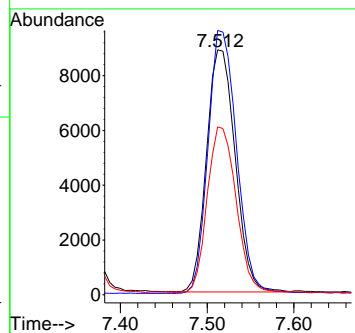
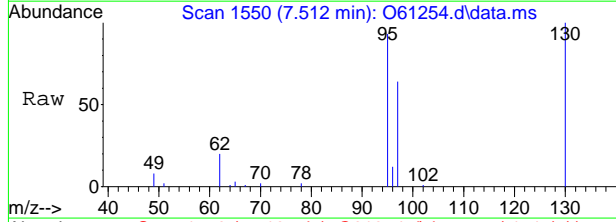


7.1.3  
7



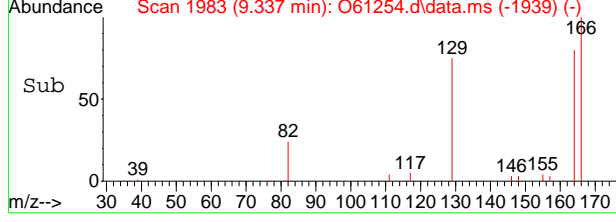
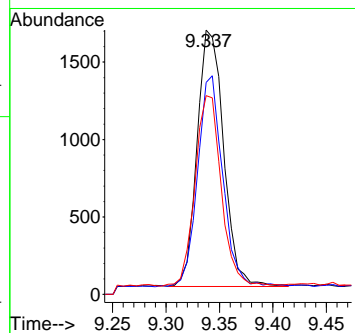
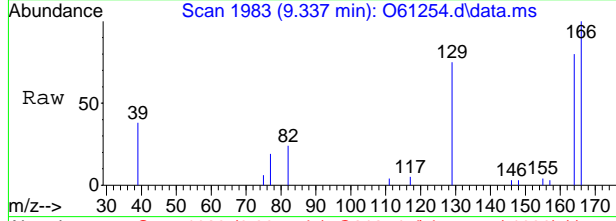
#15  
 Trichloroethene  
 Concen: 0.84 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61254.d  
 Acq: 12 Sep 2020 12:14 am

Tgt Ion	Resp	Lower	Upper
95	20366		
130	108.7	60.4	120.4
97	68.3	34.6	94.6



#21  
 Tetrachloroethene  
 Concen: 0.13 ug/L m  
 RT: 9.337 min Scan# 1983  
 Delta R.T. -0.006 min  
 Lab File: O61254.d  
 Acq: 12 Sep 2020 12:14 am

Tgt Ion	Resp	Lower	Upper
166	2855		
164	80.2	47.3	107.3
129	75.1	37.5	97.5



7.1.3  
7



# Manual Integration Approval Summary

**Sample Number:** FA78571-3      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61254.D      **Analyst approved:** 09/14/20 14:11 Akari Giraldo  
**Injection Time:** 09/12/20 00:14      **Supervisor approved:** 09/14/20 14:15 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration

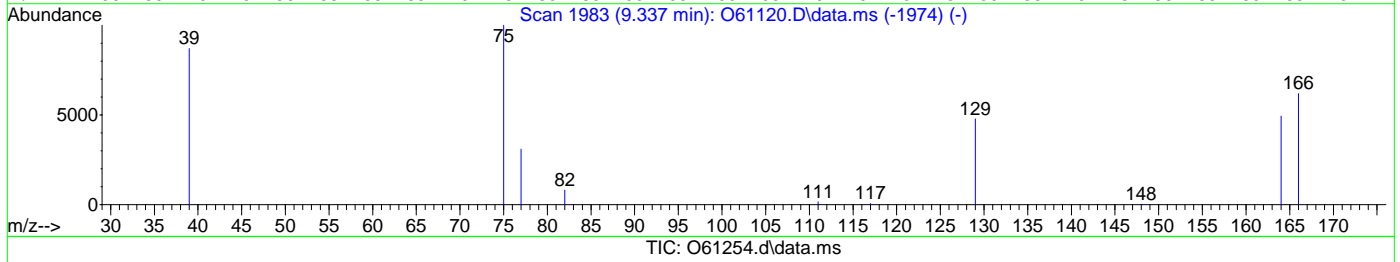
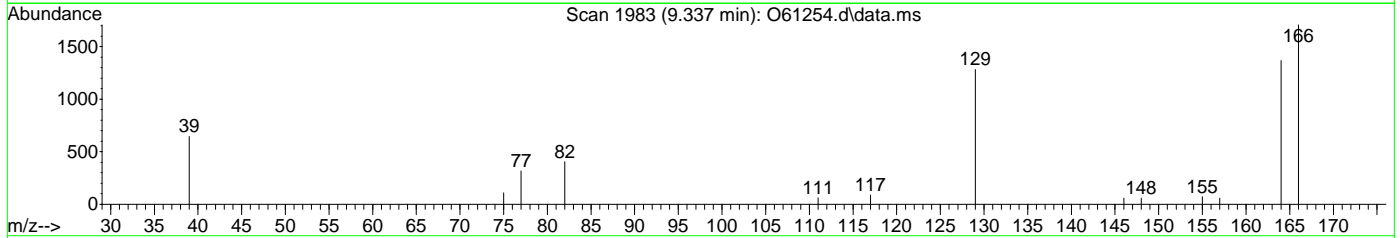
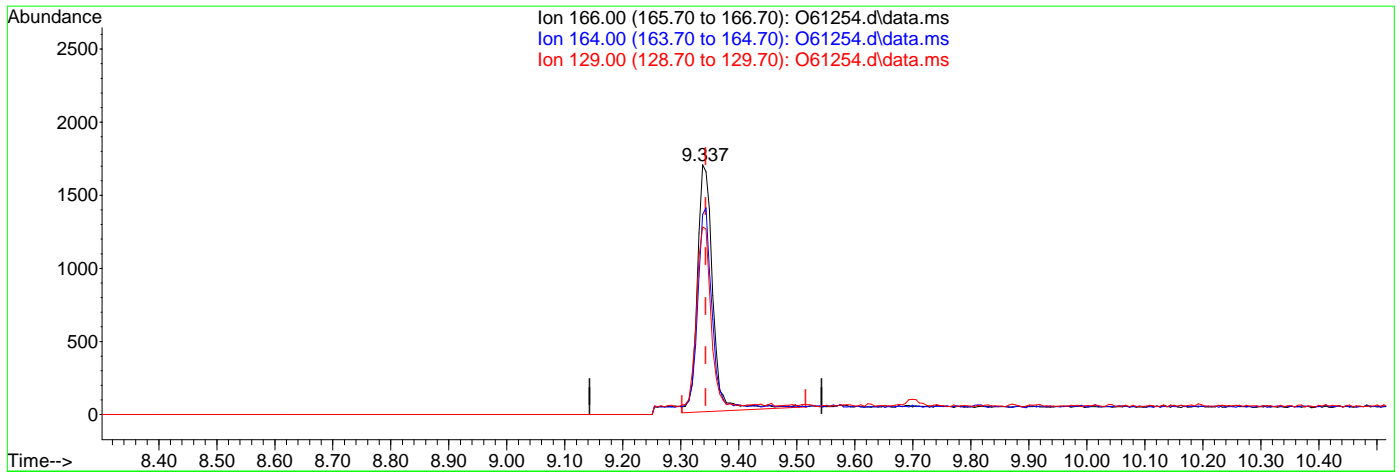
7.1.3.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61254.d  
Acq On : 12 Sep 2020 12:14 am  
Operator : stutip  
Sample : fa78571-3  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 02:55:32 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.337min (-0.006) 0.14ug/L

response 3139

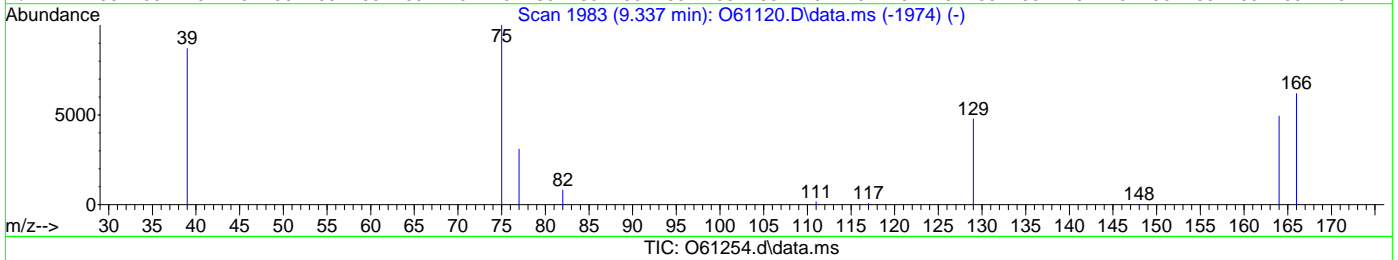
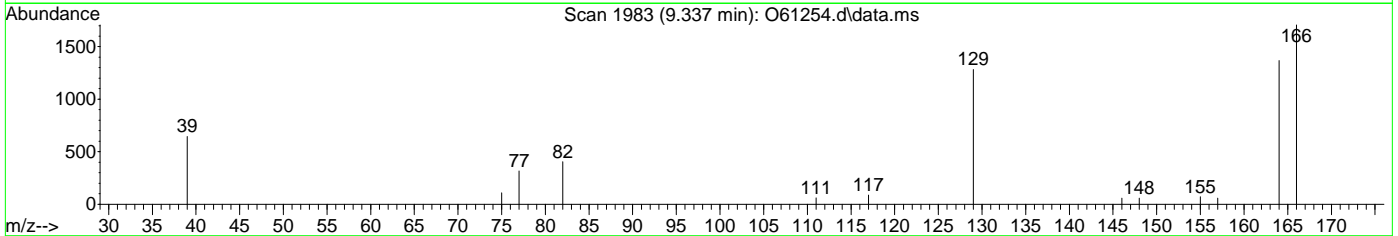
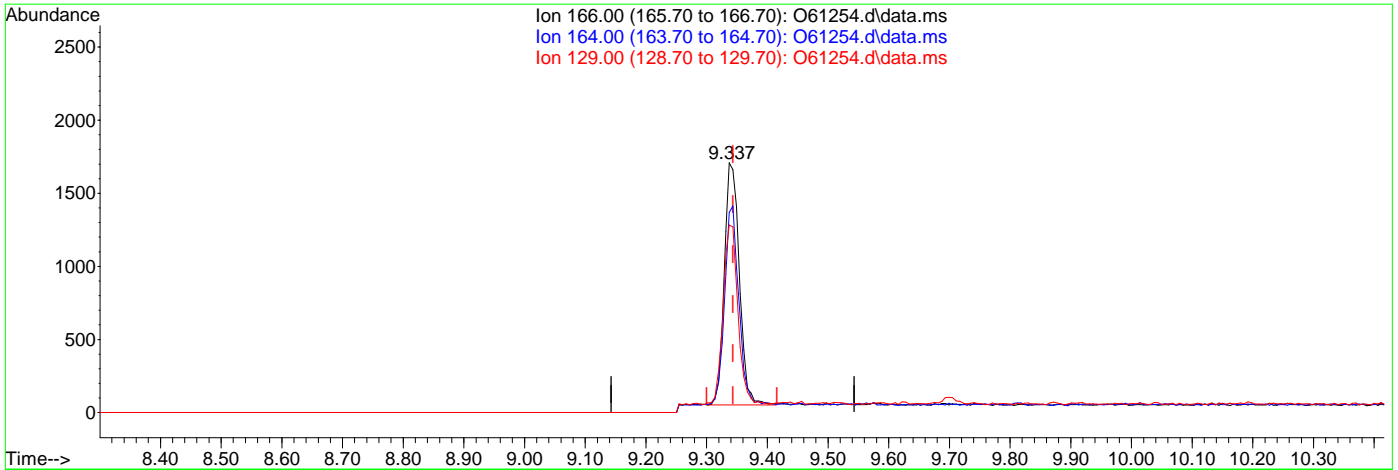
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	79.46
129.00	67.50	73.60
0.00	0.00	0.00

7.1.3.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61254.d  
 Acq On : 12 Sep 2020 12:14 am  
 Operator : stutip  
 Sample : fa78571-3  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 02:55:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.337min (-0.006) 0.13ug/L m

response 2855

Ion Exp% Act%

166.00 100 100

164.00 77.30 80.15

129.00 67.50 75.12

0.00 0.00 0.00

7.1.3.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61255.d  
Acq On : 12 Sep 2020 12:34 am  
Operator : stutip  
Sample : fa78571-4  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 03:03:02 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	255254	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	197117	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	107710	5.22	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	104.40%		
19) Toluene-d8	8.896	98	224008	5.04	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	100.80%		
Target Compounds							
5) Methylene Chloride	4.696	49	5315	0.10	ug/L	93	
8) cis-1,2-Dichloroethene	6.066	96	7895	0.34	ug/L	85	
9) Chloroform	6.327	83	6350	0.16	ug/L	82	
10) Carbon Tetrachloride	6.505	117	4113	0.15	ug/L	82	
15) Trichloroethene	7.512	95	43182	1.80	ug/L	88	
21) Tetrachloroethene	9.338	166	7610m	0.36	ug/L		
-----							

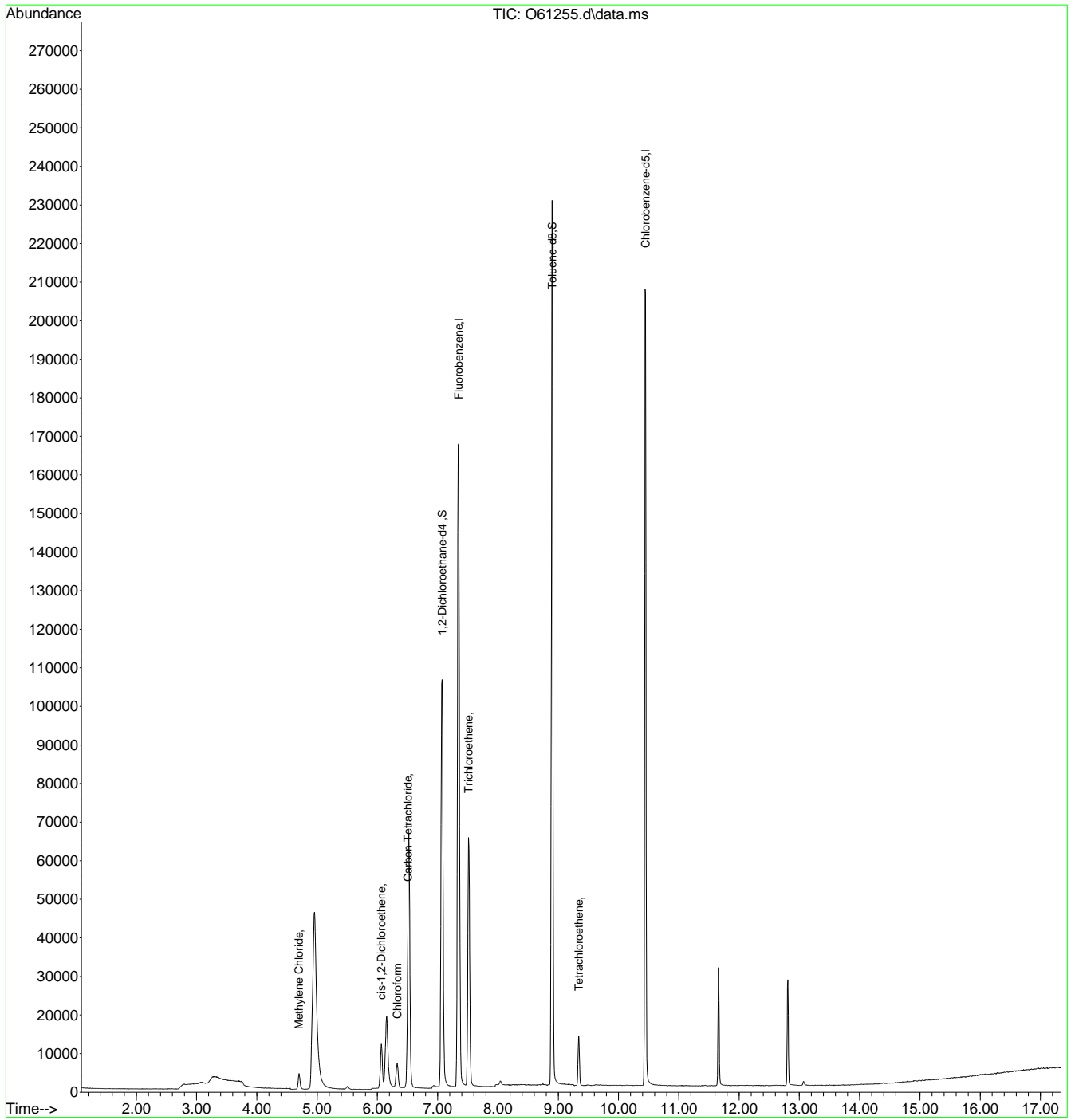
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.14  
7

Quantitation Report (QT Reviewed)

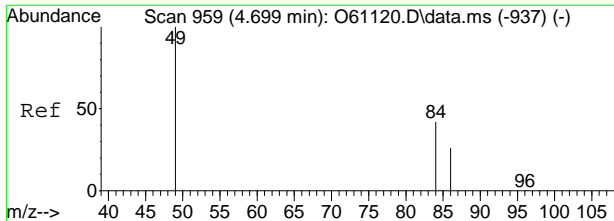
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61255.d  
Acq On : 12 Sep 2020 12:34 am  
Operator : stutip  
Sample : fa78571-4  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 03:03:02 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



7.14  
7

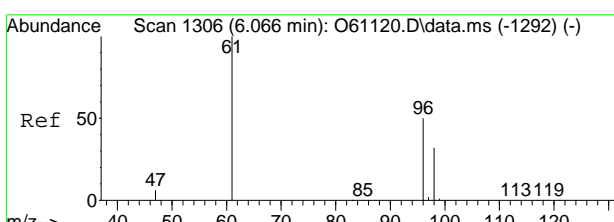
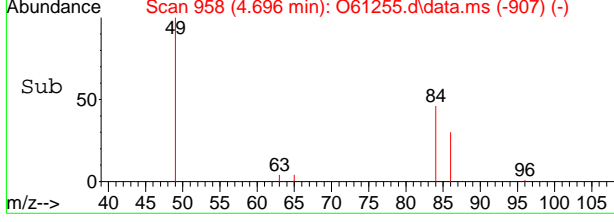
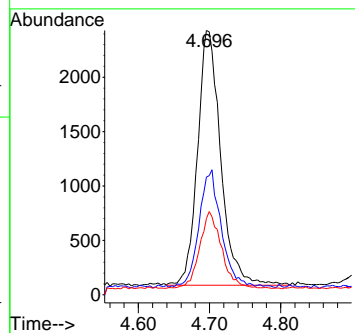
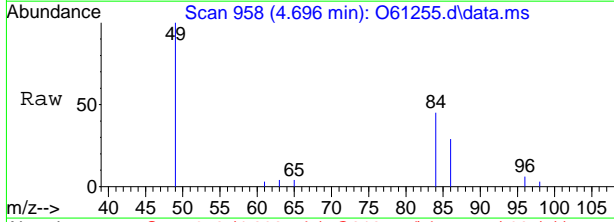




#5  
 Methylene Chloride  
 Concen: 0.10 ug/L  
 RT: 4.696 min Scan# 958  
 Delta R.T. -0.007 min  
 Lab File: O61255.d  
 Acq: 12 Sep 2020 12:34 am

Tgt Ion: 49 Resp: 5315

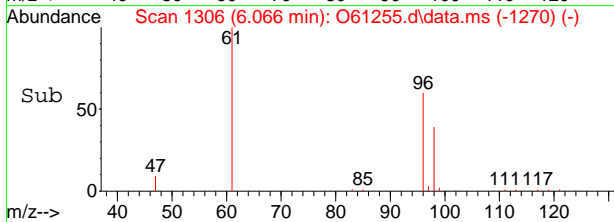
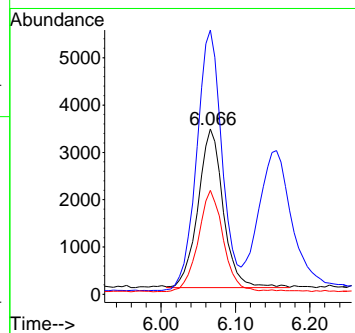
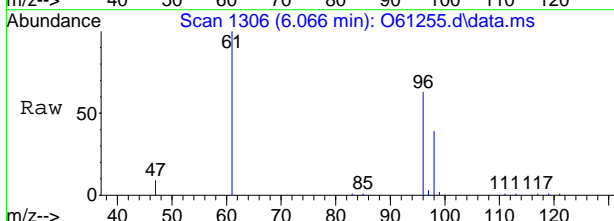
Ion	Ratio	Lower	Upper
49	100		
84	42.6	17.9	77.9
86	27.3	0.0	59.8



#8  
 cis-1,2-Dichloroethene  
 Concen: 0.34 ug/L  
 RT: 6.066 min Scan# 1306  
 Delta R.T. -0.006 min  
 Lab File: O61255.d  
 Acq: 12 Sep 2020 12:34 am

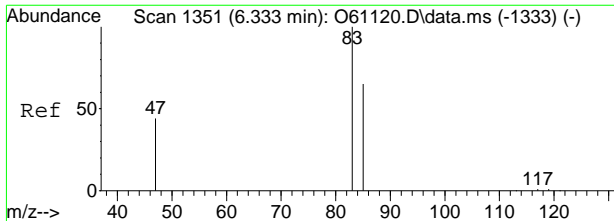
Tgt Ion: 96 Resp: 7895

Ion	Ratio	Lower	Upper
96	100		
61	164.2	107.0	167.0
98	63.9	34.1	94.1



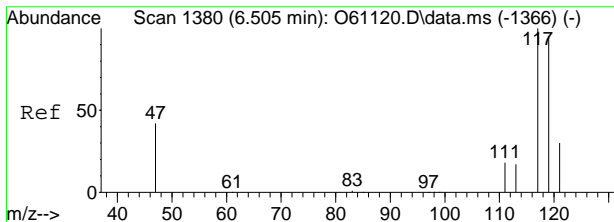
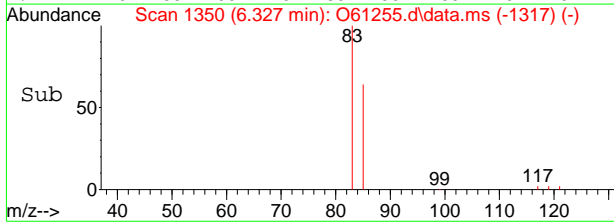
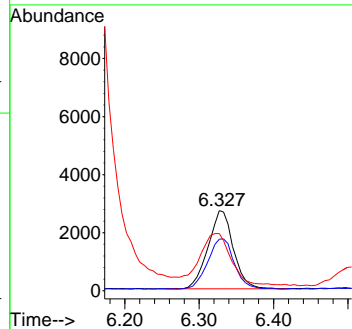
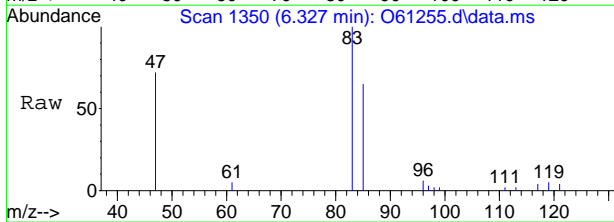
7.14  
7





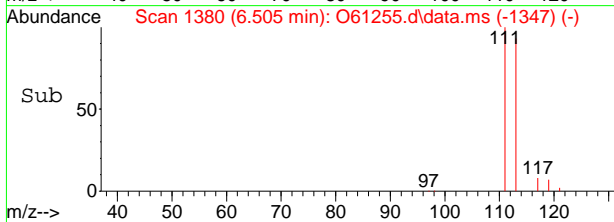
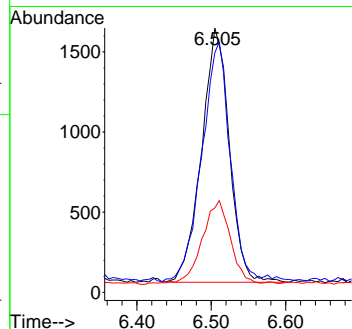
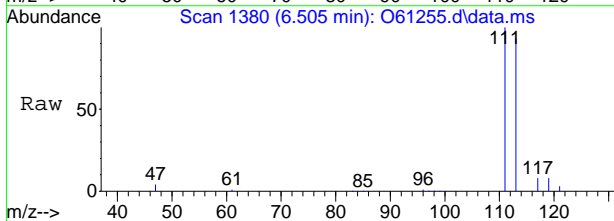
#9  
 Chloroform  
 Concen: 0.16 ug/L  
 RT: 6.327 min Scan# 1350  
 Delta R.T. -0.006 min  
 Lab File: O61255.d  
 Acq: 12 Sep 2020 12:34 am

Tgt Ion	Resp	Lower	Upper
83	6350		
85	63.5	33.0	93.0
47	66.4	8.1	68.1

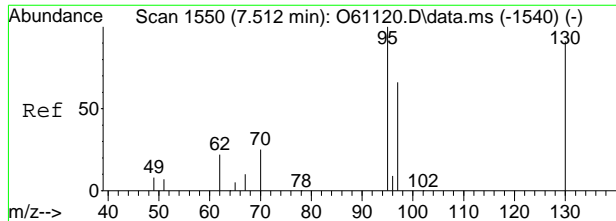


#10  
 Carbon Tetrachloride  
 Concen: 0.15 ug/L  
 RT: 6.505 min Scan# 1380  
 Delta R.T. -0.006 min  
 Lab File: O61255.d  
 Acq: 12 Sep 2020 12:34 am

Tgt Ion	Resp	Lower	Upper
117	4113		
119	89.1	80.9	140.9
121	29.4	4.1	64.1

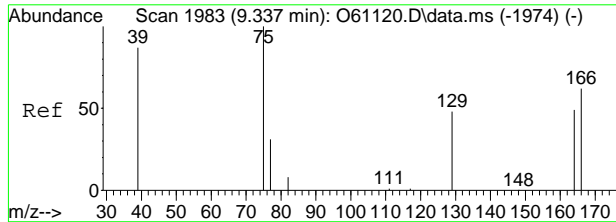
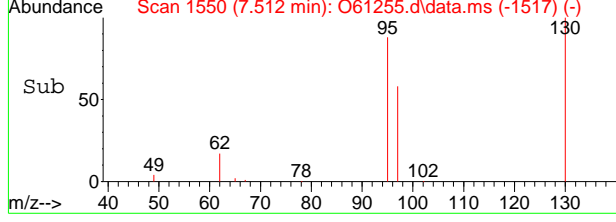
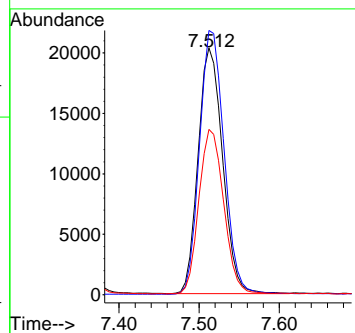
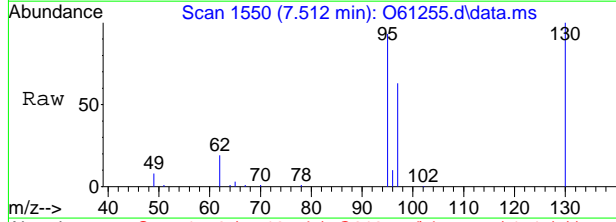


7.14  
7



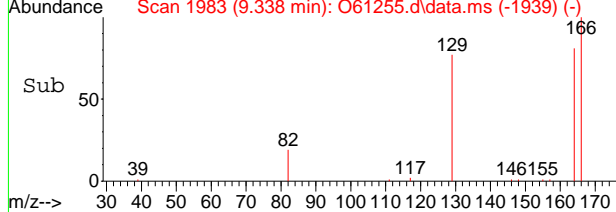
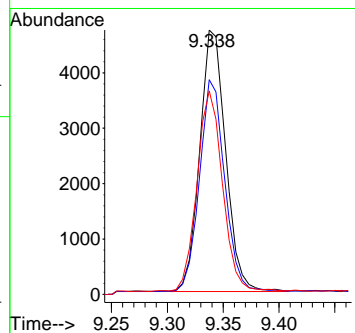
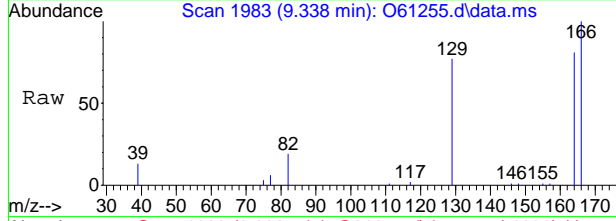
#15  
 Trichloroethene  
 Concen: 1.80 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61255.d  
 Acq: 12 Sep 2020 12:34 am

Tgt Ion	Resp	Lower	Upper
95	43182	100	
130	107.3	60.4	120.4
97	66.9	34.6	94.6



#21  
 Tetrachloroethene  
 Concen: 0.36 ug/L m  
 RT: 9.338 min Scan# 1983  
 Delta R.T. -0.005 min  
 Lab File: O61255.d  
 Acq: 12 Sep 2020 12:34 am

Tgt Ion	Resp	Lower	Upper
166	7610	100	
164	81.2	47.3	107.3
129	76.9	37.5	97.5



7.14  
7



# Manual Integration Approval Summary

**Sample Number:** FA78571-4      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61255.D      **Analyst approved:** 09/14/20 14:11 Akari Giraldo  
**Injection Time:** 09/12/20 00:34      **Supervisor approved:** 09/14/20 14:15 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration

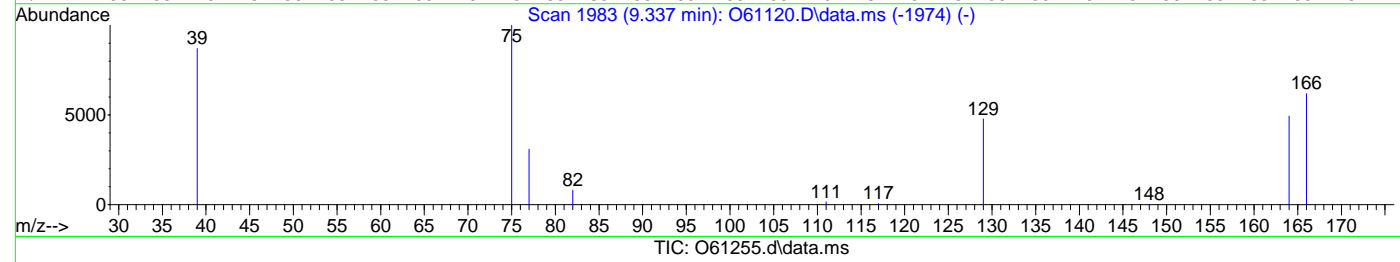
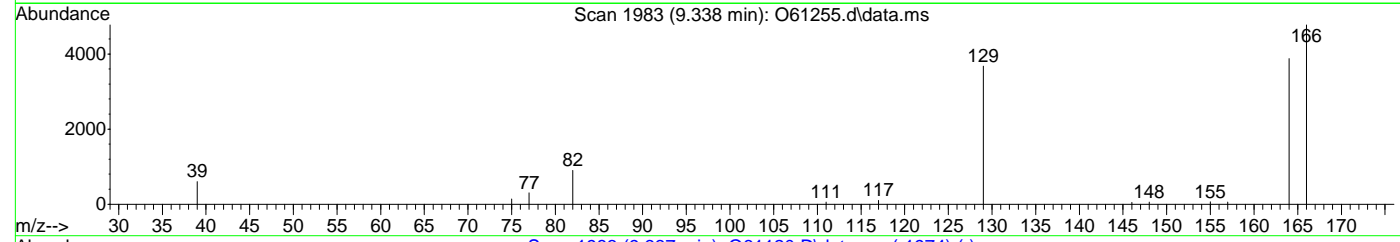
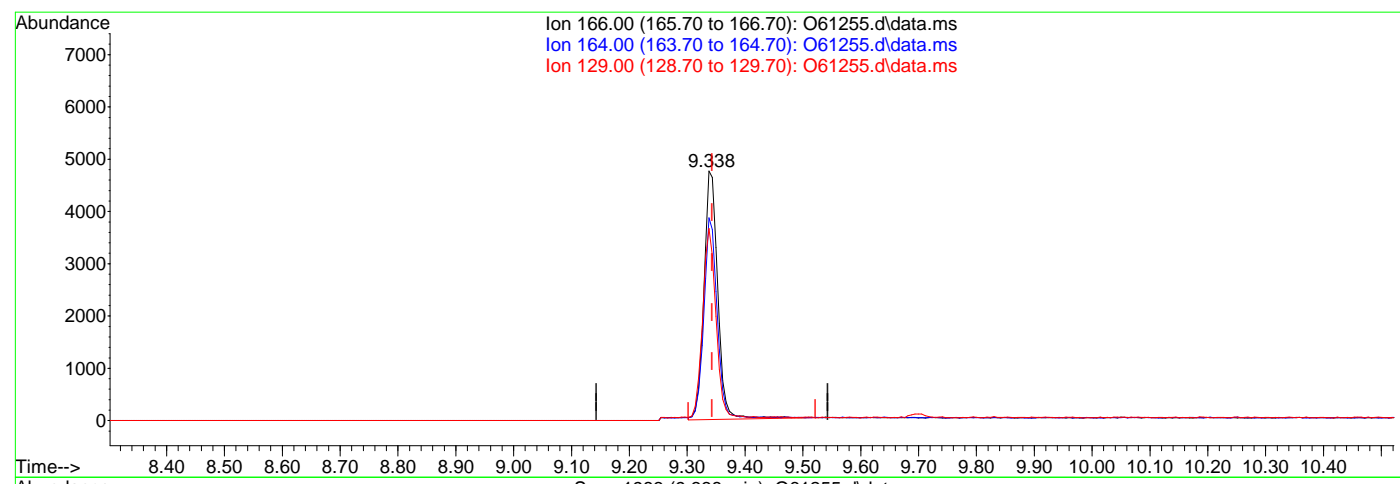
7.1.4.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61255.d  
Acq On : 12 Sep 2020 12:34 am  
Operator : stutip  
Sample : fa78571-4  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 02:55:34 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.338min (-0.005) 0.37ug/L

response 7913

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	80.95
129.00	67.50	76.74
0.00	0.00	0.00

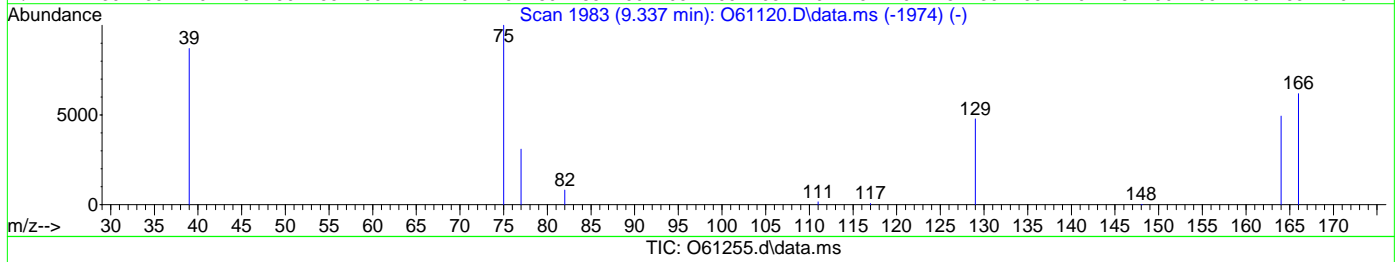
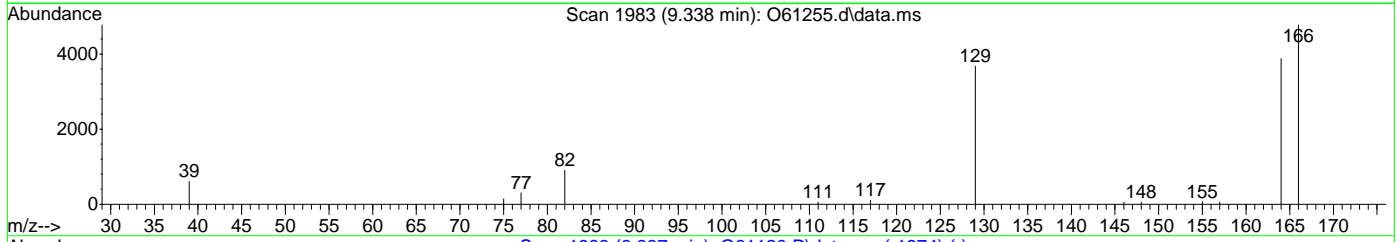
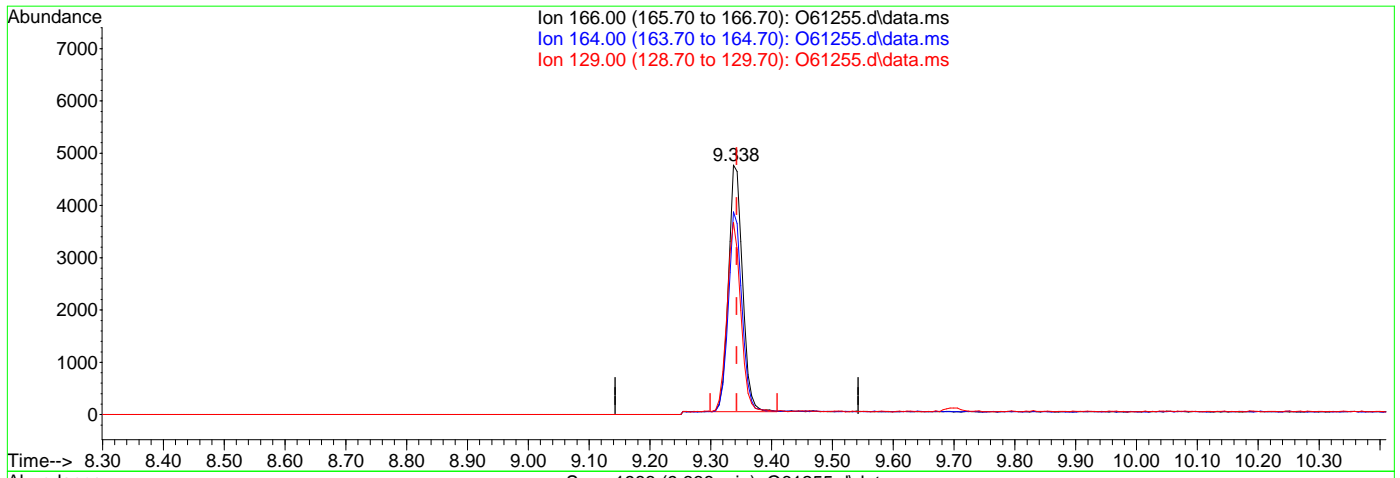


7.1.4.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61255.d  
Acq On : 12 Sep 2020 12:34 am  
Operator : stutip  
Sample : fa78571-4  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 02:55:34 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.338min (-0.005) 0.36ug/L m

response 7610

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	81.18
129.00	67.50	76.91
0.00	0.00	0.00



7.1.4.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61256.d  
Acq On : 12 Sep 2020 12:54 am  
Operator : stutip  
Sample : fa78571-5  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 03:03:23 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	253043	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	196127	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	106578	5.21	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	104.20%	
19) Toluene-d8	8.896	98	221473	5.01	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	100.20%	
Target Compounds						
5) Methylene Chloride	4.703	49	4571	0.08	ug/L	97
9) Chloroform	6.333	83	3178	0.08	ug/L #	72
10) Carbon Tetrachloride	6.511	117	9795	0.36	ug/L	87
-----						

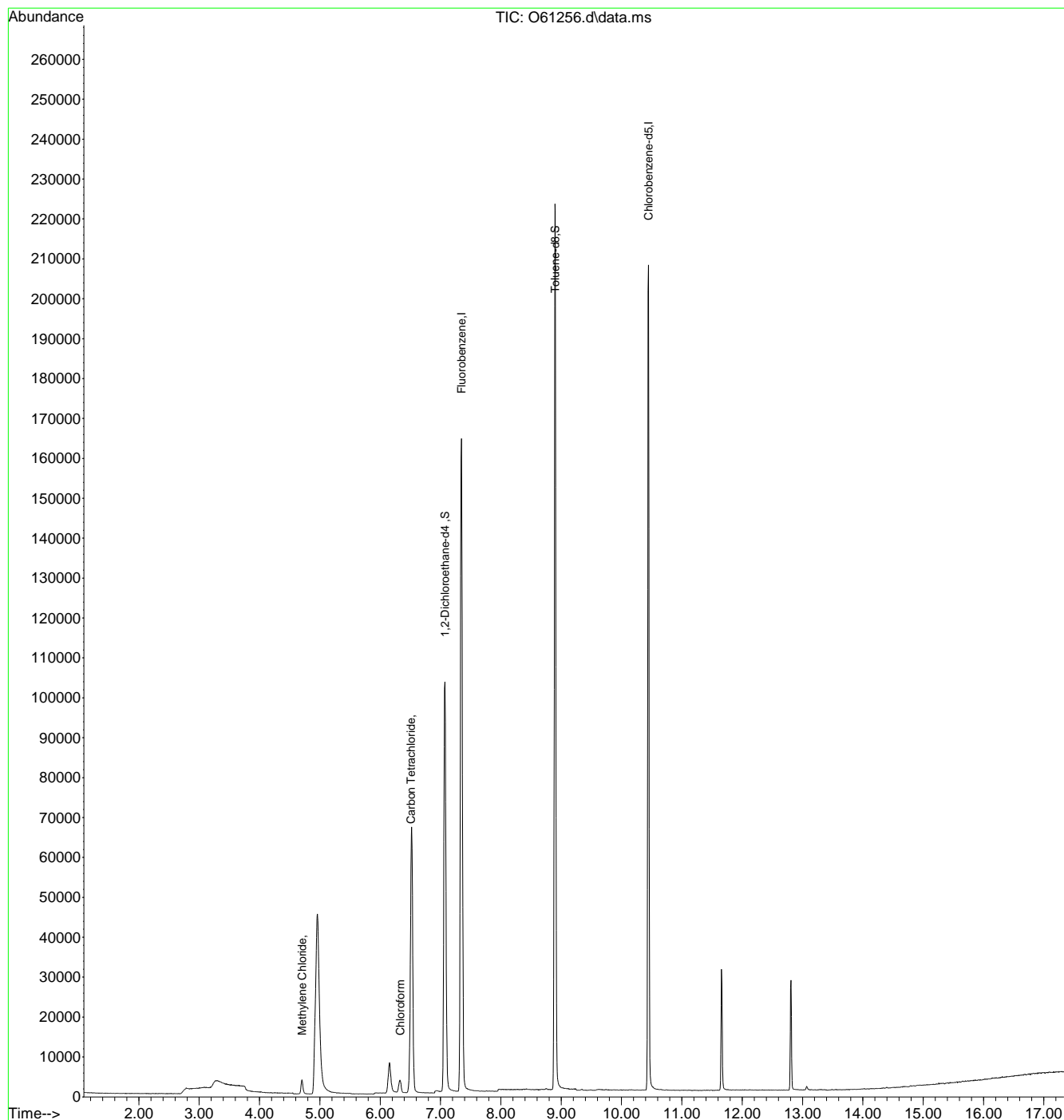
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.15  
7

Quantitation Report (QT Reviewed)

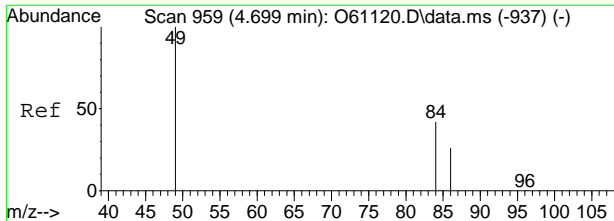
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61256.d  
 Acq On : 12 Sep 2020 12:54 am  
 Operator : stutip  
 Sample : fa78571-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 03:03:23 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



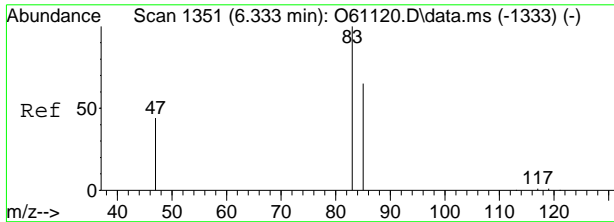
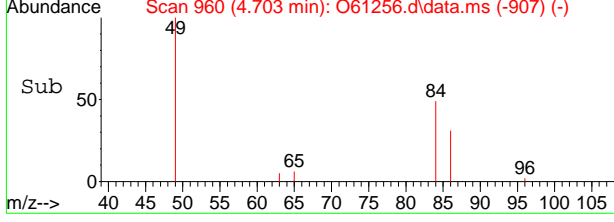
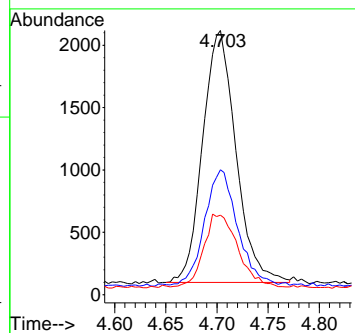
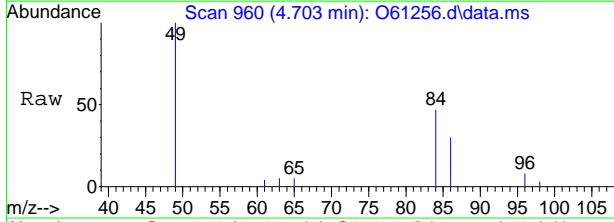
7.1.5  
7





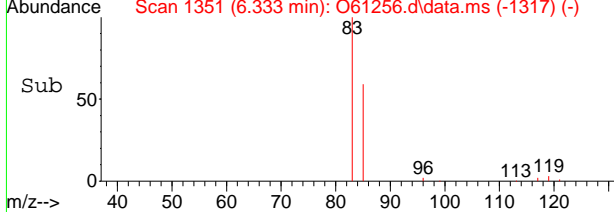
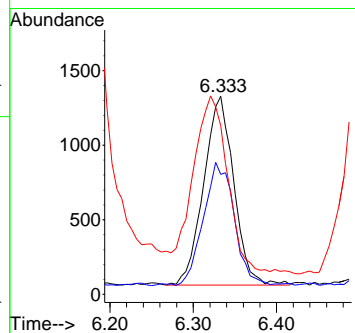
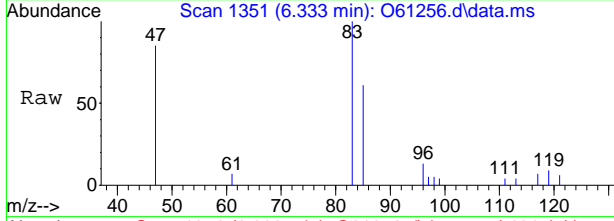
#5  
 Methylene Chloride  
 Concen: 0.08 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.000 min  
 Lab File: O61256.d  
 Acq: 12 Sep 2020 12:54 am

Tgt Ion	Resp	Lower	Upper
49	4571		
84	45.7	17.9	77.9
86	28.5	0.0	59.8



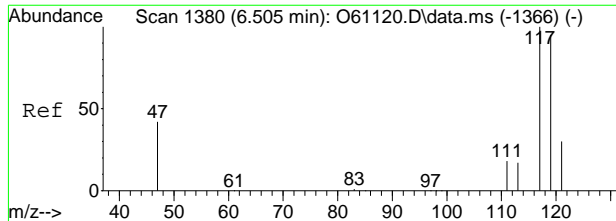
#9  
 Chloroform  
 Concen: 0.08 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61256.d  
 Acq: 12 Sep 2020 12:54 am

Tgt Ion	Resp	Lower	Upper
83	3178		
85	58.2	33.0	93.0
47	77.4	8.1	68.1#



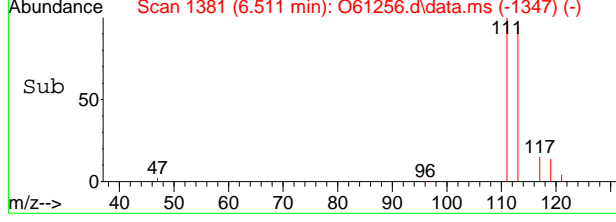
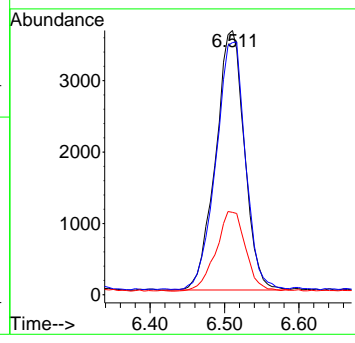
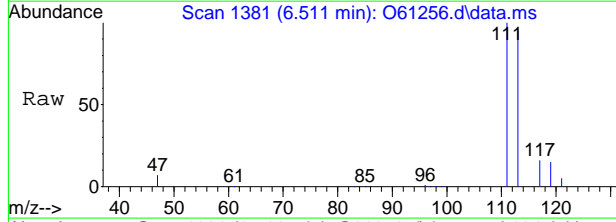
7.15  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.36 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. -0.000 min  
 Lab File: O61256.d  
 Acq: 12 Sep 2020 12:54 am

Tgt Ion	Resp	Lower	Upper
117	9795		
119	94.9	80.9	140.9
121	30.2	4.1	64.1



7.1.5  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61257.d  
Acq On : 12 Sep 2020 1:15 am  
Operator : stutip  
Sample : fa78571-6  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 03:03:43 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	244967	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	190937	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	104440	5.28	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	105.60%	
19) Toluene-d8	8.900	98	214296	4.98	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.60%	
Target Compounds						
5) Methylene Chloride	4.707	49	4731	0.09	ug/L	95
9) Chloroform	6.339	83	952	0.02	ug/L #	38
-----						

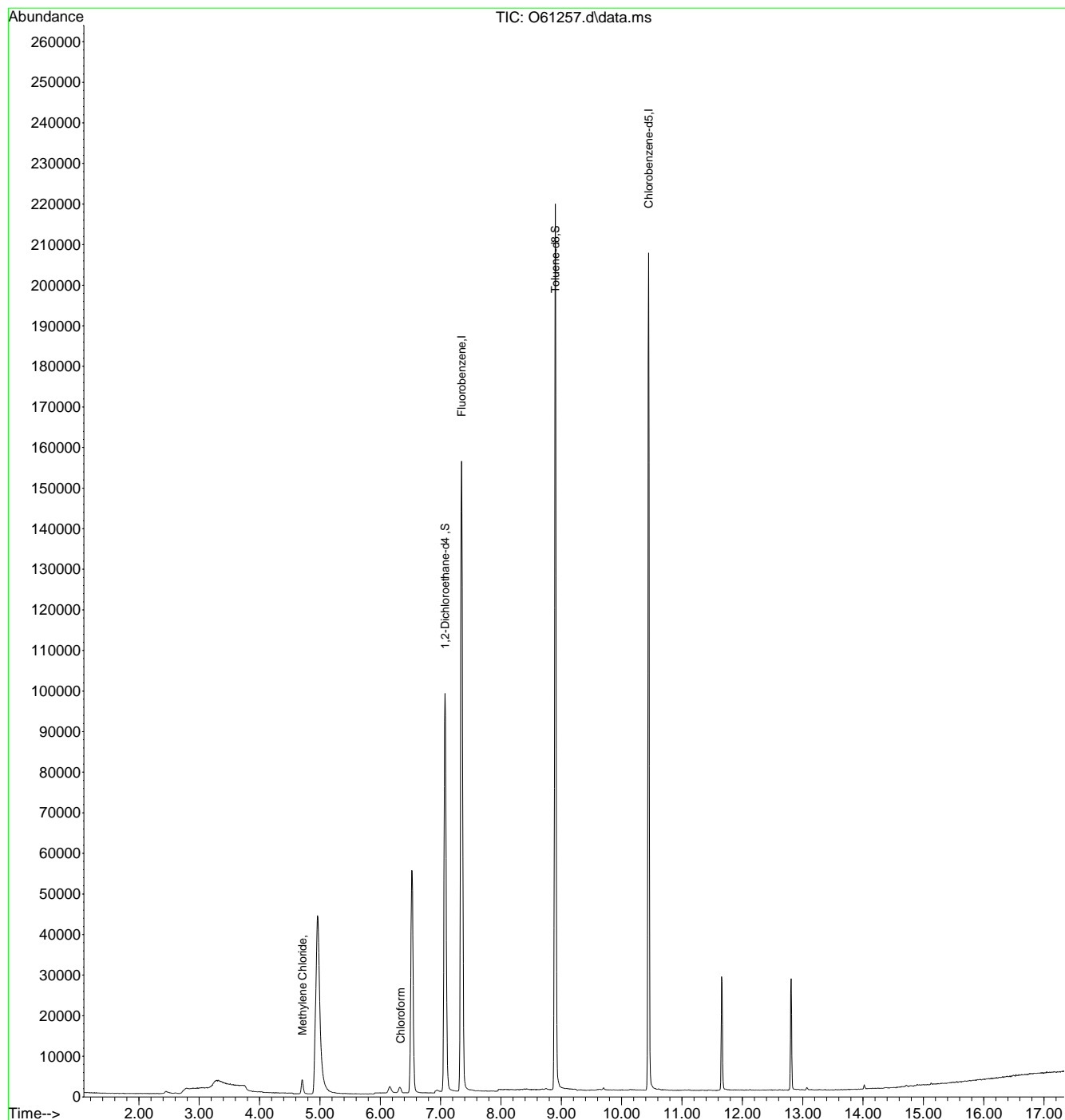
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.6  
7

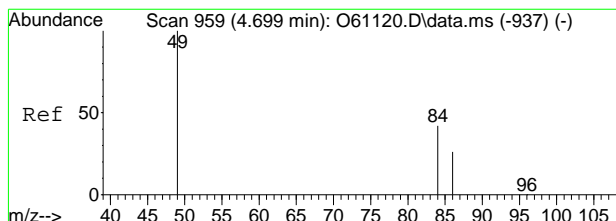
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61257.d  
Acq On : 12 Sep 2020 1:15 am  
Operator : stutip  
Sample : fa78571-6  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 03:03:43 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

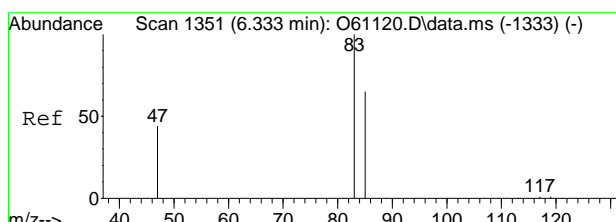
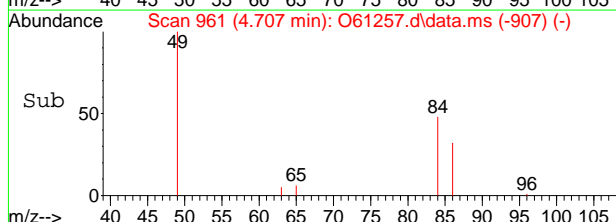
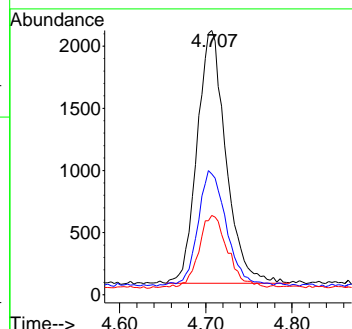
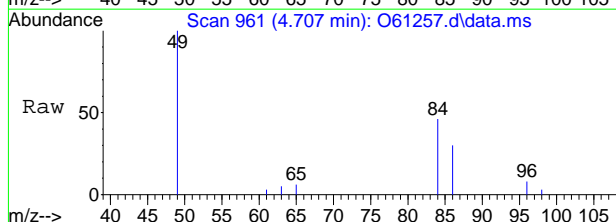


7.1.6  
7



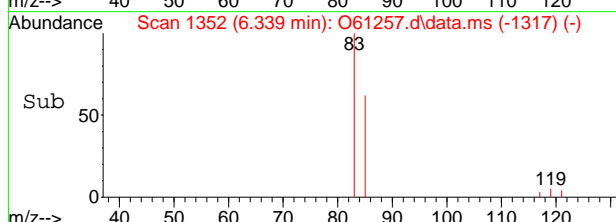
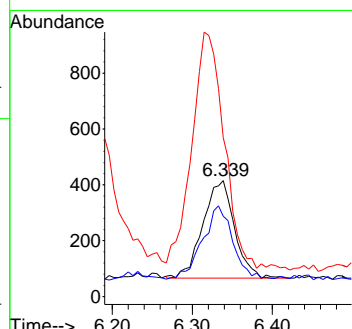
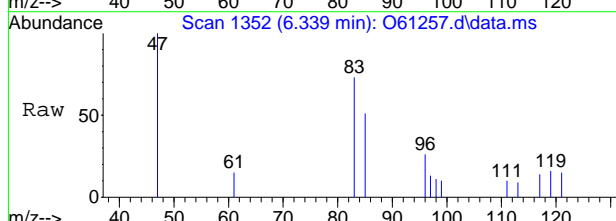
#5  
 Methylene Chloride  
 Concen: 0.09 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61257.d  
 Acq: 12 Sep 2020 1:15 am

Tgt Ion	Ratio	Lower	Upper
49	100		
84	44.1	17.9	77.9
86	28.1	0.0	59.8



#9  
 Chloroform  
 Concen: 0.02 ug/L  
 RT: 6.339 min Scan# 1352  
 Delta R.T. 0.006 min  
 Lab File: O61257.d  
 Acq: 12 Sep 2020 1:15 am

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	33.0	93.0
47	135.8	8.1	68.1#



7.1.6  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61258.d  
Acq On : 12 Sep 2020 1:35 am  
Operator : stutip  
Sample : fa78571-7  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 03:03:59 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	243121	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	190999	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	103415	5.27	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	105.40%	
19) Toluene-d8	8.896	98	213416	4.96	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.20%	
Target Compounds						
5) Methylene Chloride	4.699	49	4544	0.09	ug/L	Qvalue 92
-----						

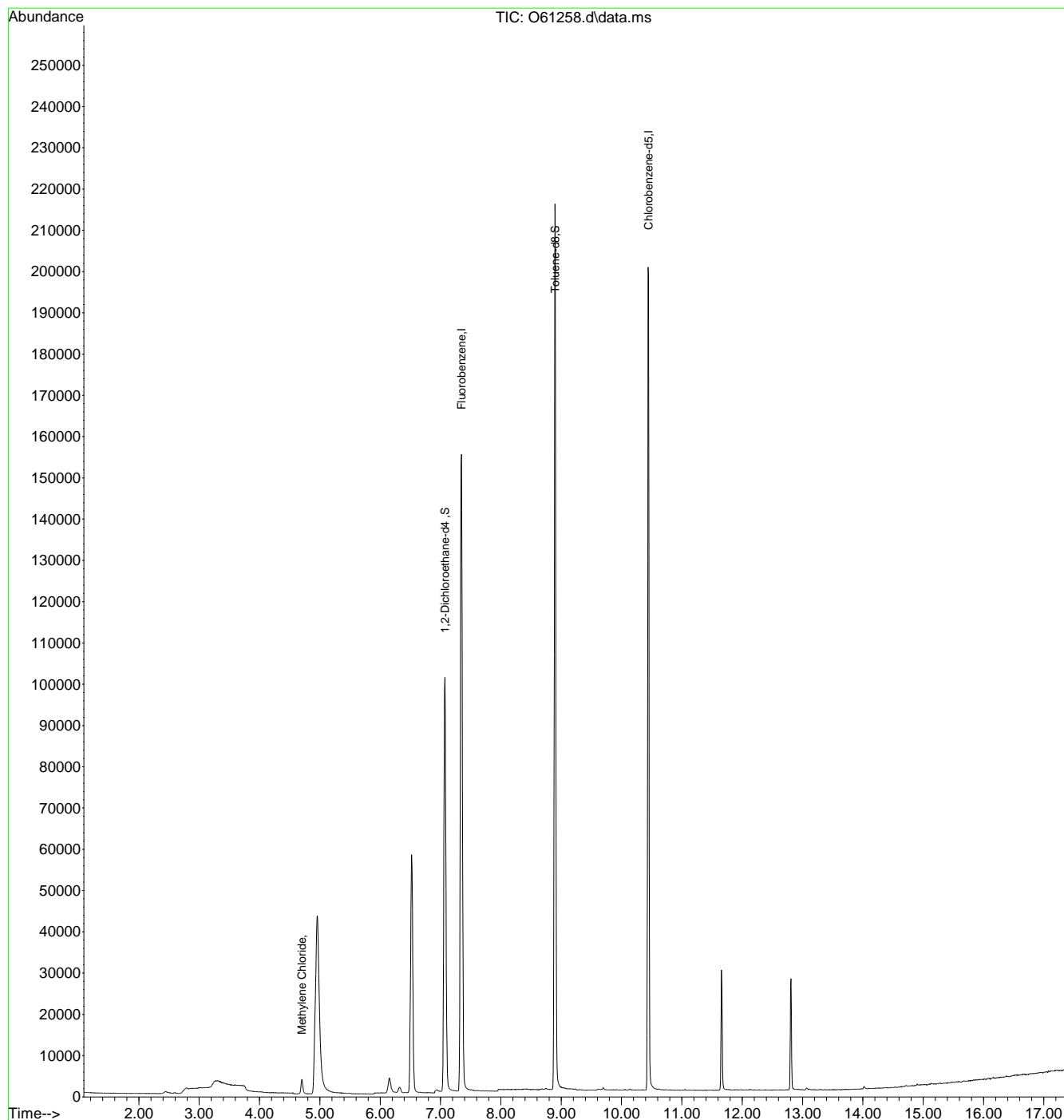
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.17  
7

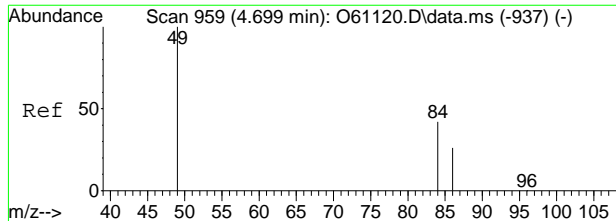
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61258.d  
 Acq On : 12 Sep 2020 1:35 am  
 Operator : stutip  
 Sample : fa78571-7  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 03:03:59 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

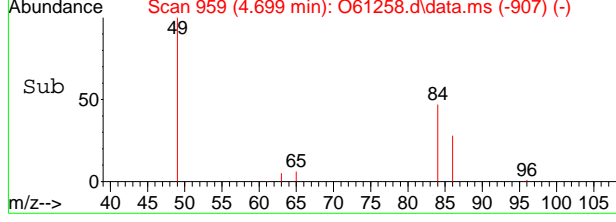
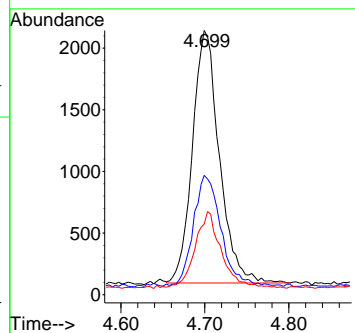
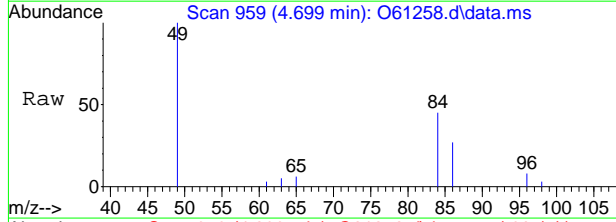


7.1.7  
7



#5  
 Methylene Chloride  
 Concen: 0.09 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.004 min  
 Lab File: O61258.d  
 Acq: 12 Sep 2020 1:35 am

Tgt Ion	Ratio	Lower	Upper
49	100		
84	43.1	17.9	77.9
86	24.9	0.0	59.8



7.17  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61259.d  
Acq On : 12 Sep 2020 1:55 am  
Operator : stutip  
Sample : fa78571-8  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 14 03:05:24 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	239548	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	186723	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	103067	5.33	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	106.60%	
19) Toluene-d8	8.900	98	209346	4.97	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.40%	
Target Compounds						
5) Methylene Chloride	4.707	49	4168	0.08	ug/L	93
7) 1,1-Dichloroethane	5.510	63	1563	0.04	ug/L	70
8) cis-1,2-Dichloroethene	6.072	96	1600	0.07	ug/L #	80
9) Chloroform	6.333	83	3908	0.10	ug/L #	74
10) Carbon Tetrachloride	6.510	117	2447	0.09	ug/L	84
15) Trichloroethene	7.518	95	36305	1.61	ug/L	91
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

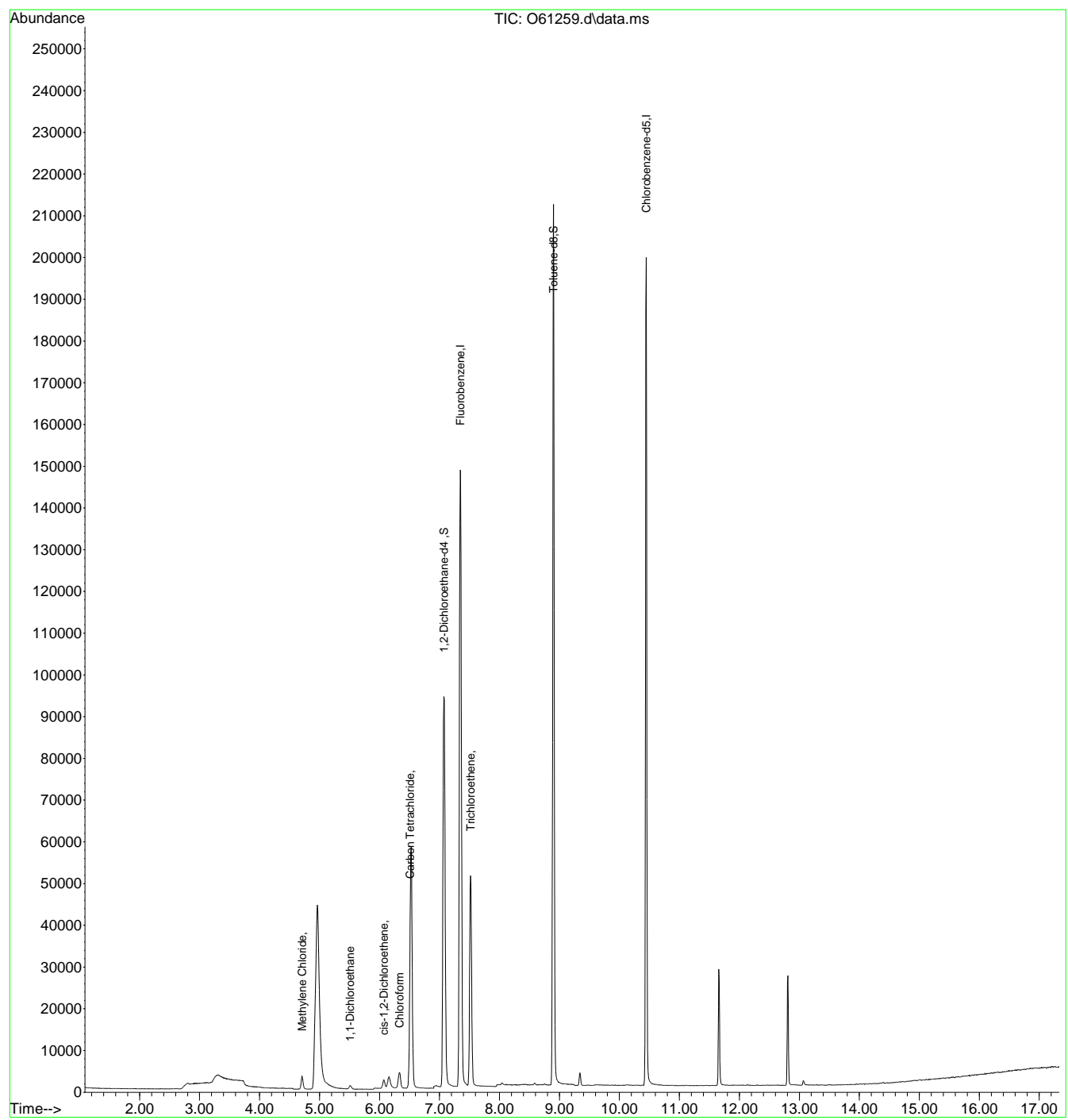
7.1.8  
7



Quantitation Report (QT Reviewed)

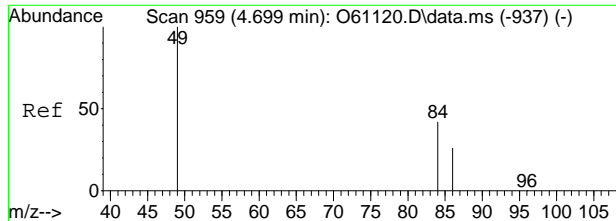
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61259.d  
Acq On : 12 Sep 2020 1:55 am  
Operator : stutip  
Sample : fa78571-8  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 14 03:05:24 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



718  
7

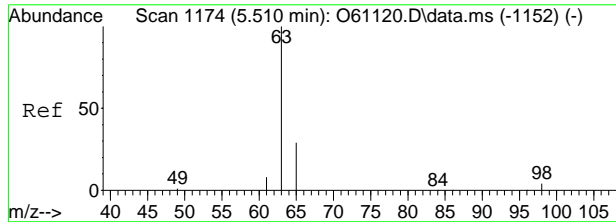
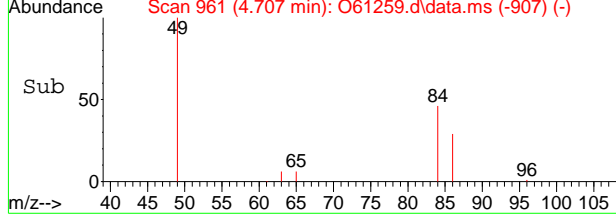
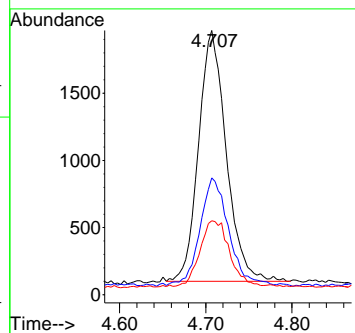
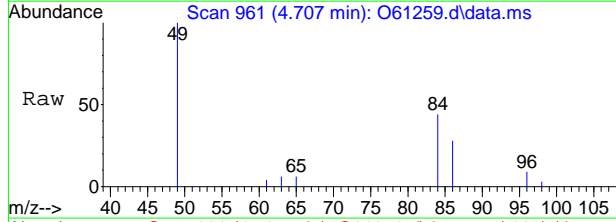




#5  
 Methylene Chloride  
 Concen: 0.08 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61259.d  
 Acq: 12 Sep 2020 1:55 am

Tgt Ion: 49 Resp: 4168

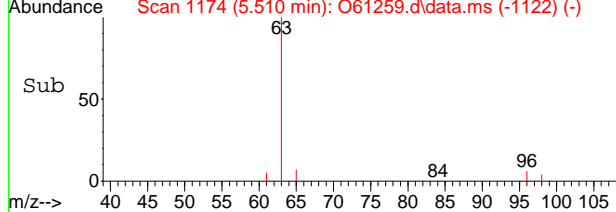
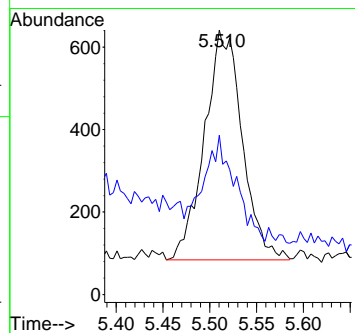
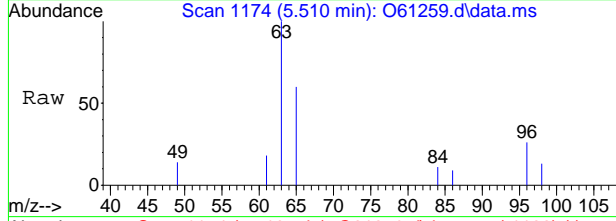
Ion	Ratio	Lower	Upper
49	100		
84	42.8	17.9	77.9
86	26.2	0.0	59.8



#7  
 1,1-Dichloroethane  
 Concen: 0.04 ug/L  
 RT: 5.510 min Scan# 1174  
 Delta R.T. -0.004 min  
 Lab File: O61259.d  
 Acq: 12 Sep 2020 1:55 am

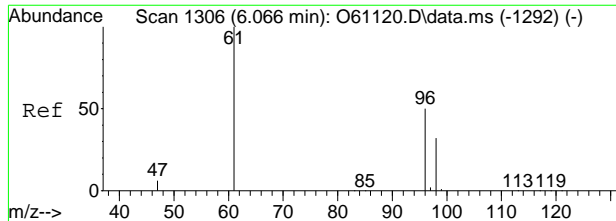
Tgt Ion: 63 Resp: 1563

Ion	Ratio	Lower	Upper
63	100		
65	47.1	0.7	60.7



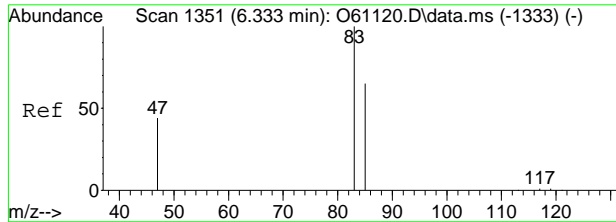
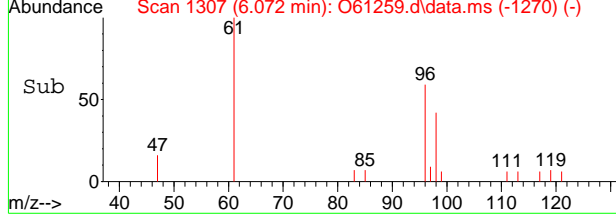
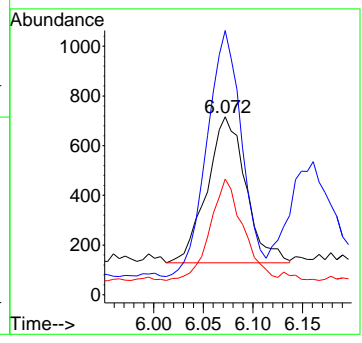
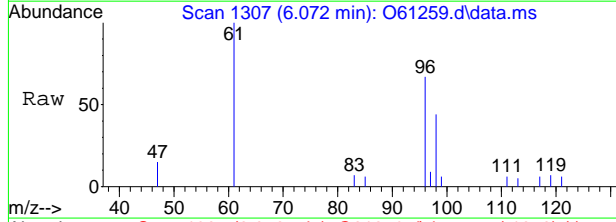
7.18  
7





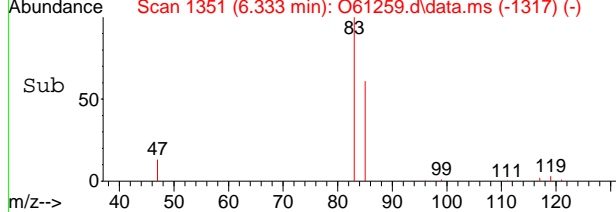
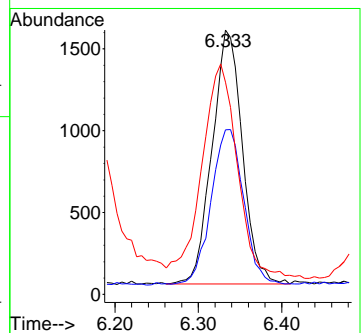
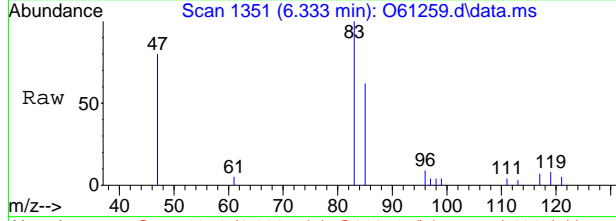
#8  
 cis-1,2-Dichloroethene  
 Concen: 0.07 ug/L  
 RT: 6.072 min Scan# 1307  
 Delta R.T. -0.000 min  
 Lab File: O61259.d  
 Acq: 12 Sep 2020 1:55 am

Tgt Ion	Resp	Lower	Upper
96	1600		
61	168.8	107.0	167.0#
98	69.5	34.1	94.1



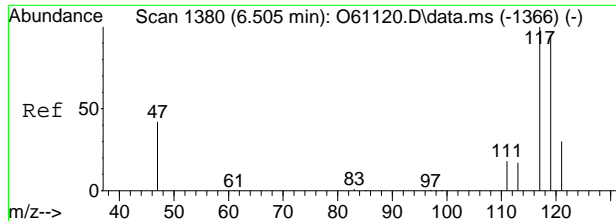
#9  
 Chloroform  
 Concen: 0.10 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61259.d  
 Acq: 12 Sep 2020 1:55 am

Tgt Ion	Resp	Lower	Upper
83	3908		
85	60.6	33.0	93.0
47	76.0	8.1	68.1#



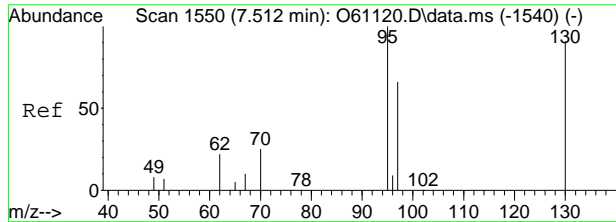
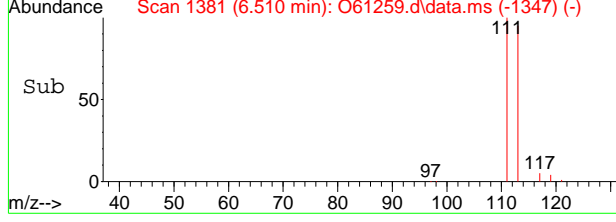
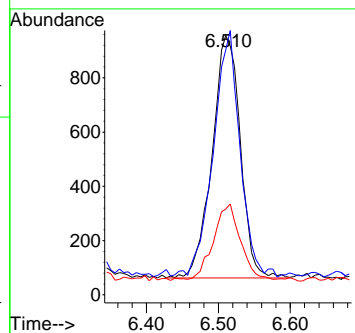
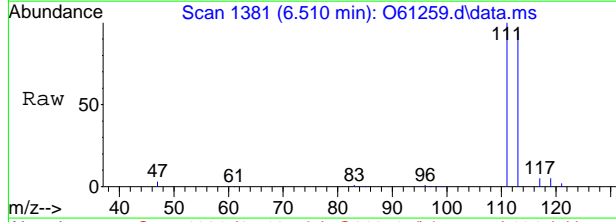
7.18  
7





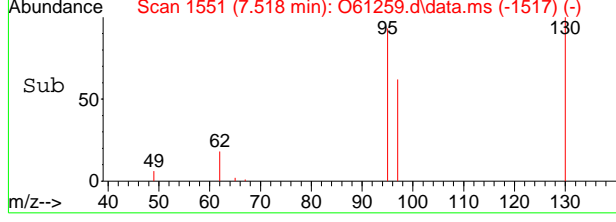
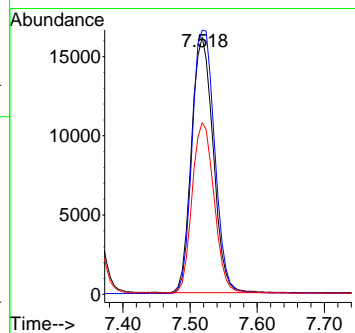
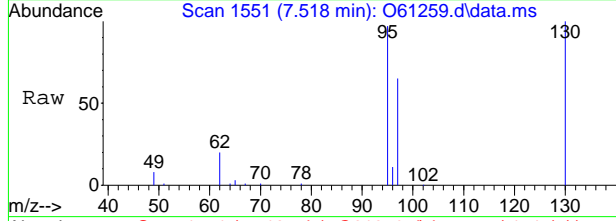
#10  
 Carbon Tetrachloride  
 Concen: 0.09 ug/L  
 RT: 6.510 min Scan# 1381  
 Delta R.T. -0.001 min  
 Lab File: O61259.d  
 Acq: 12 Sep 2020 1:55 am

Tgt Ion	Resp	Lower	Upper
117	2447		
117	100		
119	91.9	80.9	140.9
121	28.7	4.1	64.1



#15  
 Trichloroethene  
 Concen: 1.61 ug/L  
 RT: 7.518 min Scan# 1551  
 Delta R.T. -0.000 min  
 Lab File: O61259.d  
 Acq: 12 Sep 2020 1:55 am

Tgt Ion	Resp	Lower	Upper
95	36305		
95	100		
130	103.2	60.4	120.4
97	66.8	34.6	94.6



7.1.8  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61260.d  
Acq On : 12 Sep 2020 2:15 am  
Operator : stutip  
Sample : fa78571-9  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 14 03:07:08 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	236035	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	184781	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	100956	5.30	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	106.00%	
19) Toluene-d8	8.900	98	206142	4.95	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.00%	
Target Compounds						
5) Methylene Chloride	4.703	49	4090	0.08	ug/L	94
8) cis-1,2-Dichloroethene	6.066	96	3039	0.14	ug/L	82
9) Chloroform	6.333	83	4116	0.11	ug/L #	74
10) Carbon Tetrachloride	6.517	117	24301	0.95	ug/L	87
15) Trichloroethene	7.518	95	1799	0.08	ug/L	94
-----						

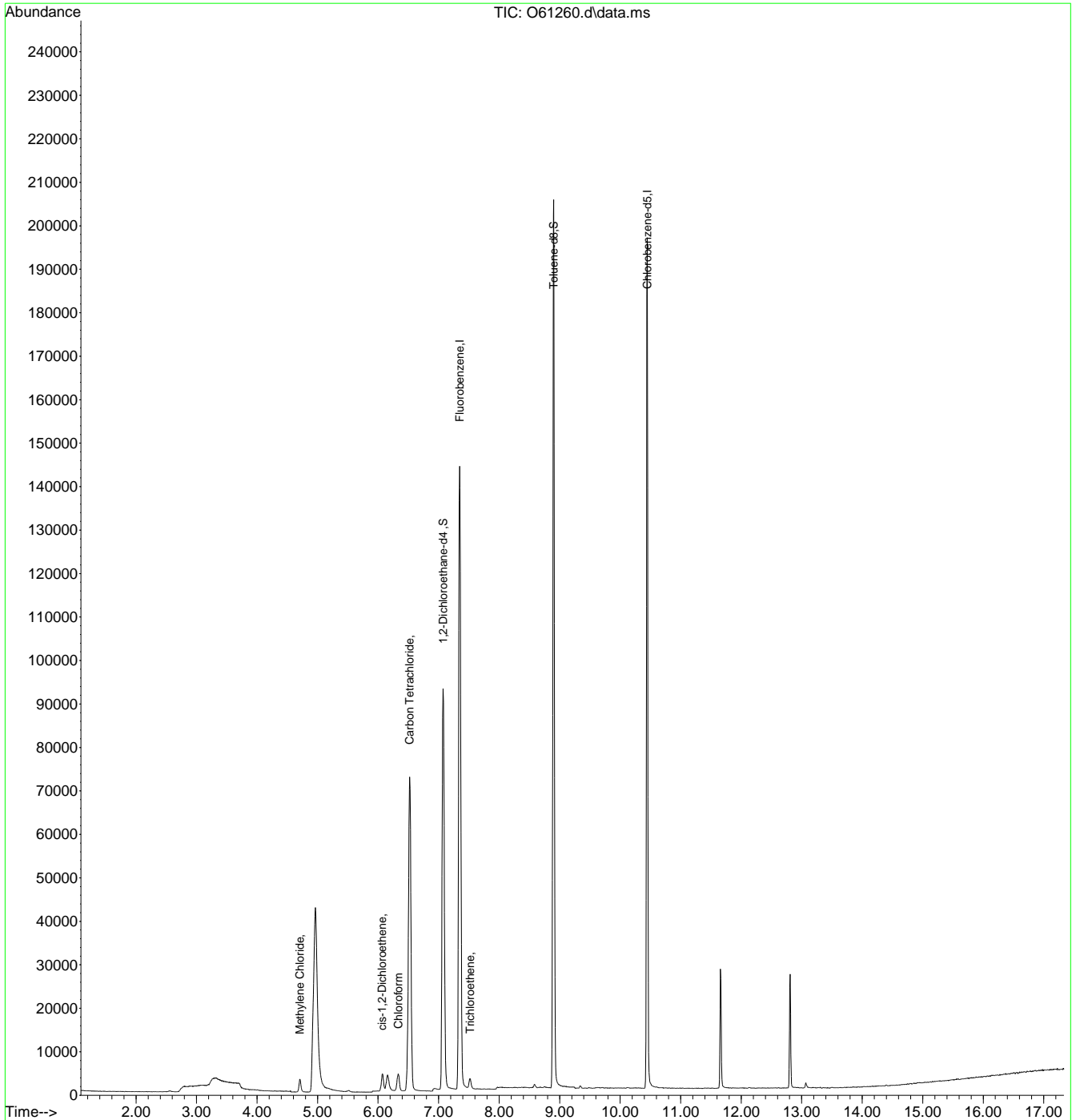
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.9  
7

Quantitation Report (QT Reviewed)

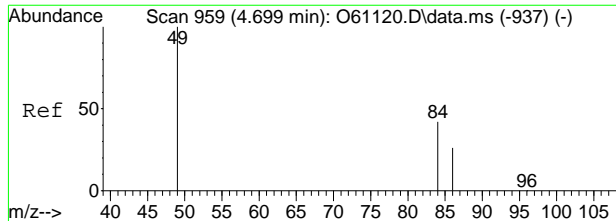
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61260.d  
 Acq On : 12 Sep 2020 2:15 am  
 Operator : stutip  
 Sample : fa78571-9  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 14 03:07:08 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.7

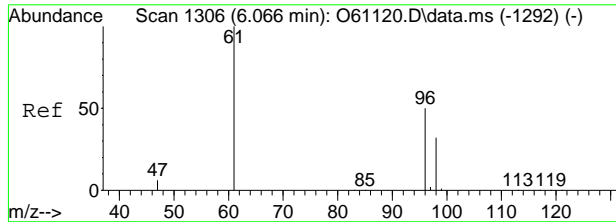
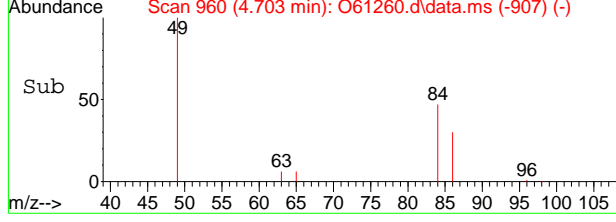
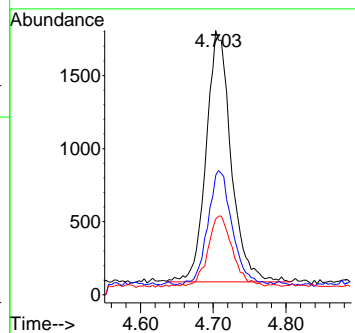
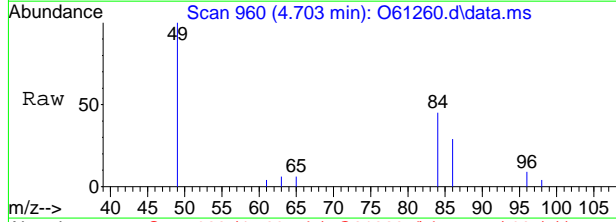




#5  
 Methylene Chloride  
 Concen: 0.08 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.000 min  
 Lab File: O61260.d  
 Acq: 12 Sep 2020 2:15 am

Tgt Ion: 49 Resp: 4090

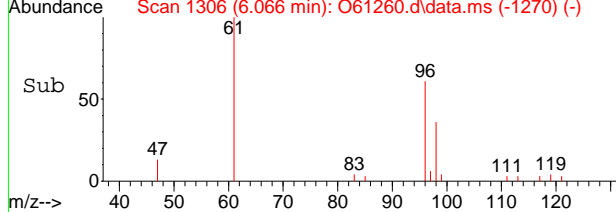
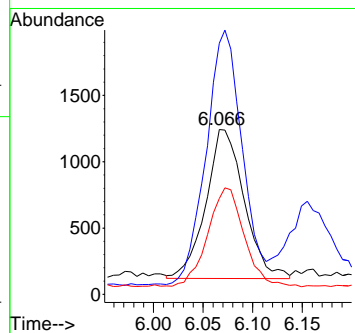
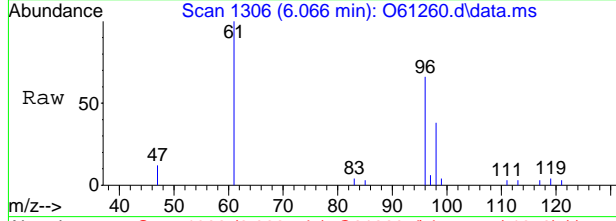
Ion	Ratio	Lower	Upper
49	100		
84	43.5	17.9	77.9
86	26.4	0.0	59.8



#8  
 cis-1,2-Dichloroethene  
 Concen: 0.14 ug/L  
 RT: 6.066 min Scan# 1306  
 Delta R.T. -0.006 min  
 Lab File: O61260.d  
 Acq: 12 Sep 2020 2:15 am

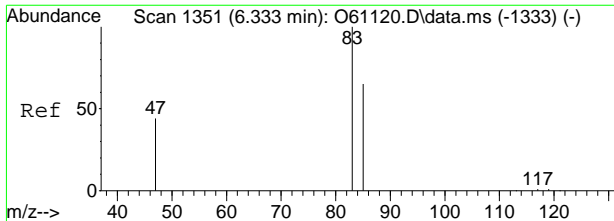
Tgt Ion: 96 Resp: 3039

Ion	Ratio	Lower	Upper
96	100		
61	165.3	107.0	167.0
98	59.9	34.1	94.1



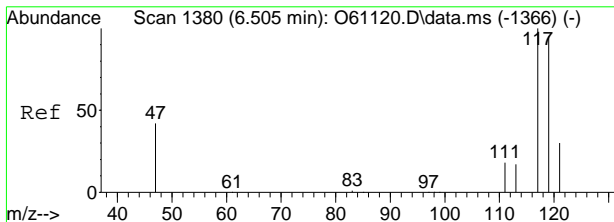
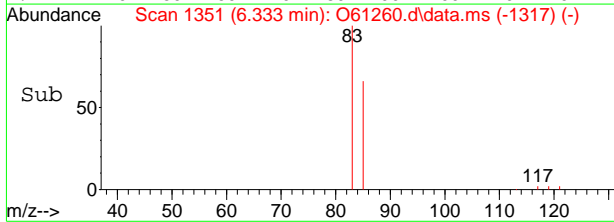
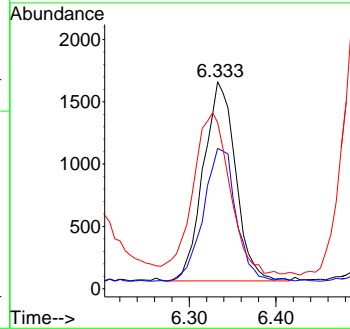
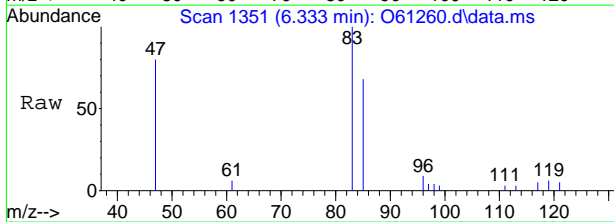
7.19  
7





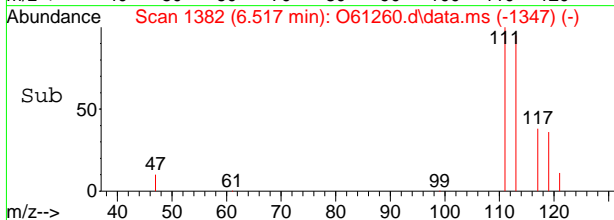
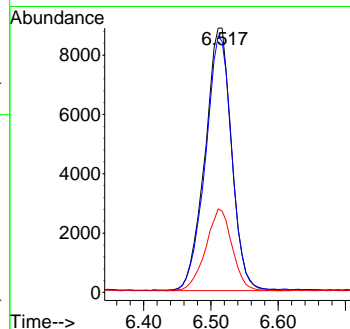
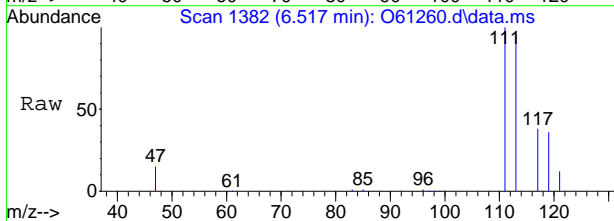
#9  
 Chloroform  
 Concen: 0.11 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61260.d  
 Acq: 12 Sep 2020 2:15 am

Tgt Ion	Resp	Lower	Upper
83	4116		
85	66.6	33.0	93.0
47	75.1	8.1	68.1#

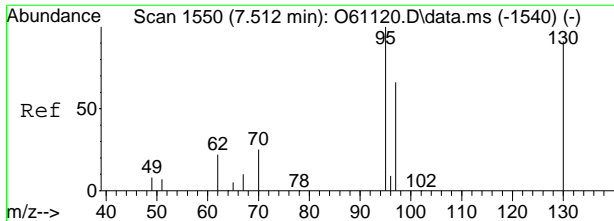


#10  
 Carbon Tetrachloride  
 Concen: 0.95 ug/L  
 RT: 6.517 min Scan# 1382  
 Delta R.T. 0.006 min  
 Lab File: O61260.d  
 Acq: 12 Sep 2020 2:15 am

Tgt Ion	Resp	Lower	Upper
117	24301		
119	94.7	80.9	140.9
121	30.3	4.1	64.1

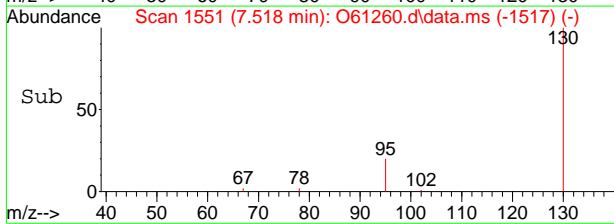
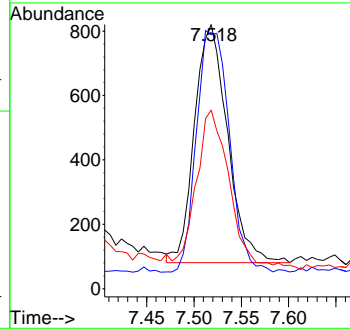
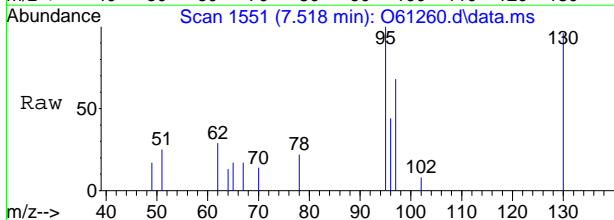






#15  
 Trichloroethene  
 Concen: 0.08 ug/L  
 RT: 7.518 min Scan# 1551  
 Delta R.T. 0.000 min  
 Lab File: O61260.d  
 Acq: 12 Sep 2020 2:15 am

Tgt Ion	Ratio	Lower	Upper
95	100		
130	99.5	60.4	120.4
97	65.1	34.6	94.6



7.1.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61261.d  
Acq On : 12 Sep 2020 2:35 am  
Operator : stutip  
Sample : fa78571-10  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 03:10:05 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	230901	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	186288	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	99712	5.35	ug/L	0.00	
Spiked Amount	5.000	Range	74 - 125	Recovery	=	107.00%	
19) Toluene-d8	8.900	98	201298	4.79	ug/L	0.00	
Spiked Amount	5.000	Range	88 - 111	Recovery	=	95.80%	
Target Compounds							
3) Chloromethane	2.791	50	4236m	0.10	ug/L		Qvalue
4) 1,1-Dichloroethene	4.100	61	975	0.03	ug/L		89
5) Methylene Chloride	4.707	49	4103	0.08	ug/L		94
7) 1,1-Dichloroethane	5.514	63	1031	0.02	ug/L		55
8) cis-1,2-Dichloroethene	6.072	96	3804	0.18	ug/L #		81
15) Trichloroethene	7.518	95	23846	1.10	ug/L		87
21) Tetrachloroethene	9.343	166	3857m	0.19	ug/L		

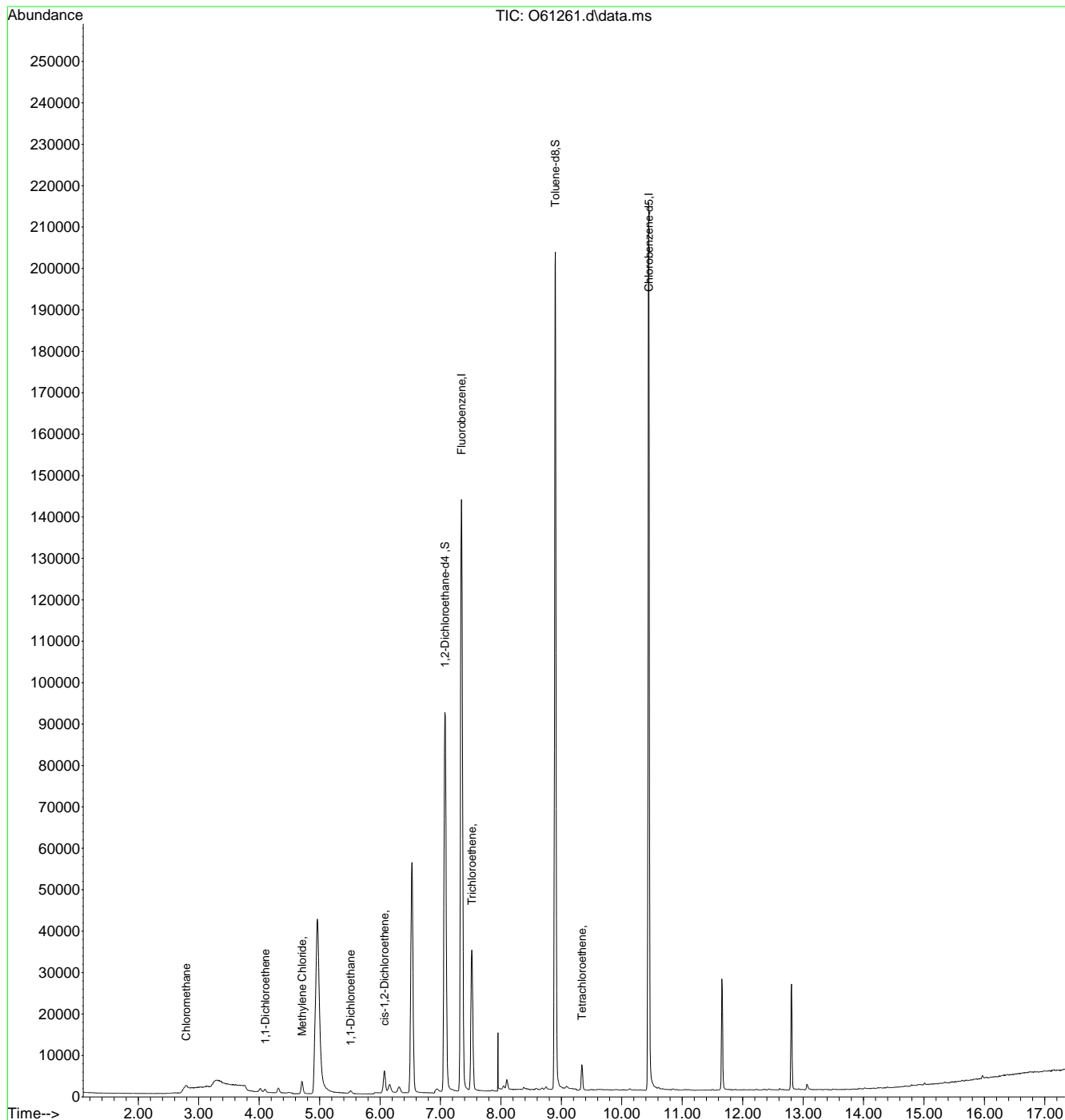
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.10  
7

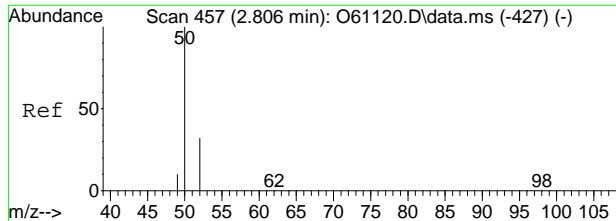
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61261.d  
 Acq On : 12 Sep 2020 2:35 am  
 Operator : stutip  
 Sample : fa78571-10  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 18 Sample Multiplier: 1

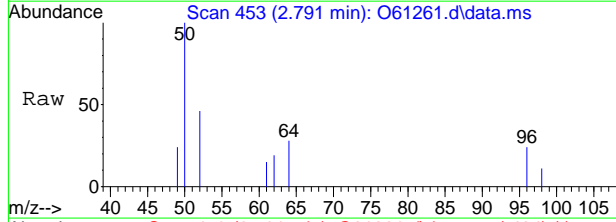
Quant Time: Sep 14 03:10:05 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.10  
7

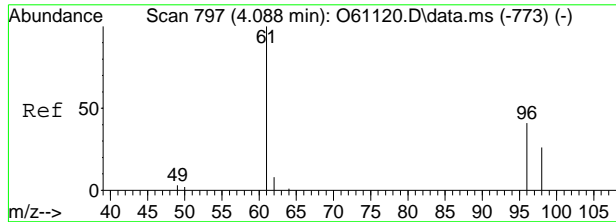
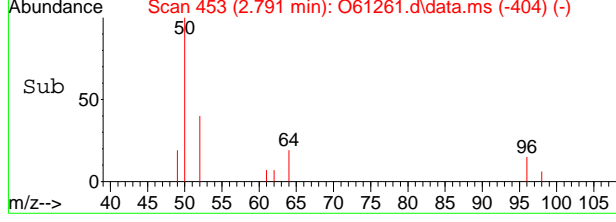
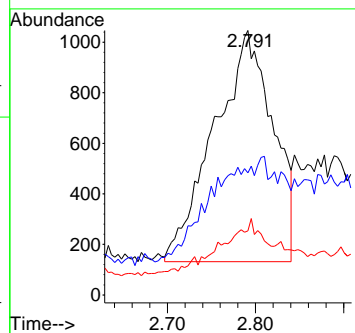


#3  
 Chloromethane  
 Concen: 0.10 ug/L m  
 RT: 2.791 min Scan# 453  
 Delta R.T. -0.016 min  
 Lab File: O61261.d  
 Acq: 12 Sep 2020 2:35 am



Tgt Ion: 50 Resp: 4236

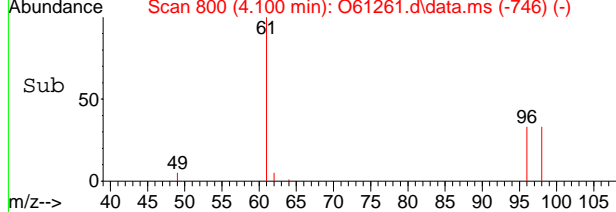
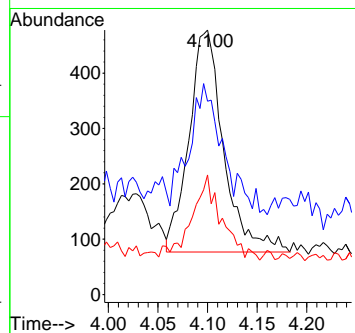
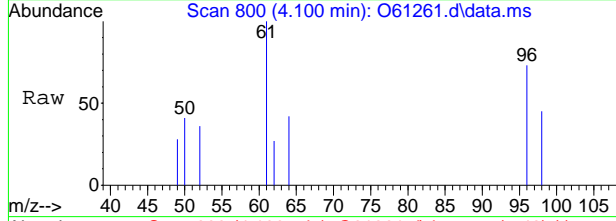
Ion	Ratio	Lower	Upper
50	100		
52	46.1	7.8	47.8
49	24.3	0.0	30.5



#4  
 1,1-Dichloroethene  
 Concen: 0.03 ug/L  
 RT: 4.100 min Scan# 800  
 Delta R.T. 0.004 min  
 Lab File: O61261.d  
 Acq: 12 Sep 2020 2:35 am

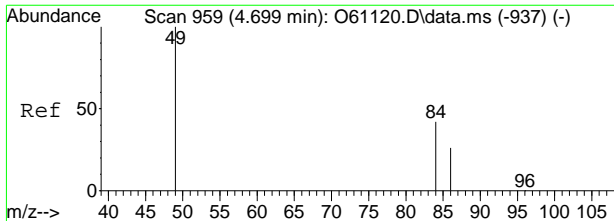
Tgt Ion: 61 Resp: 975

Ion	Ratio	Lower	Upper
61	100		
96	44.1	25.4	85.4
98	37.7	5.9	65.9



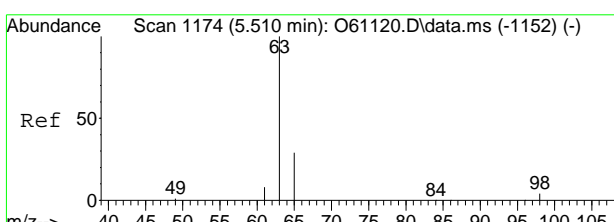
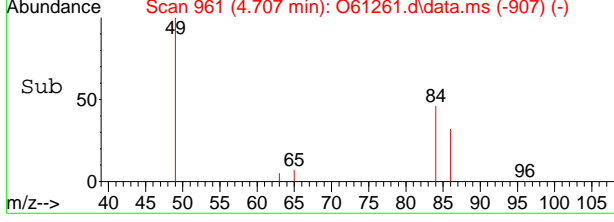
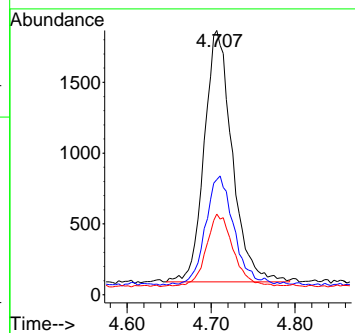
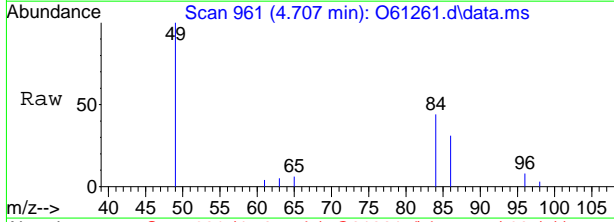
7.1.10  
7





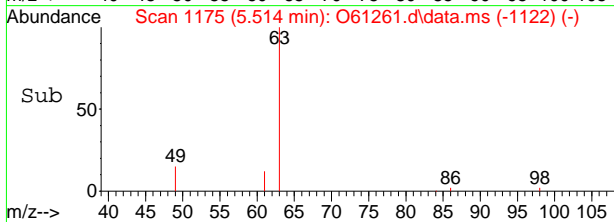
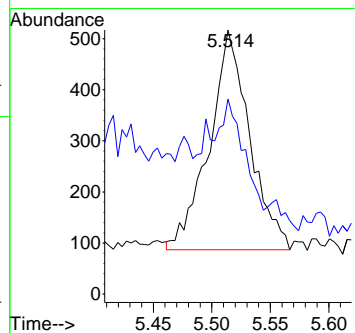
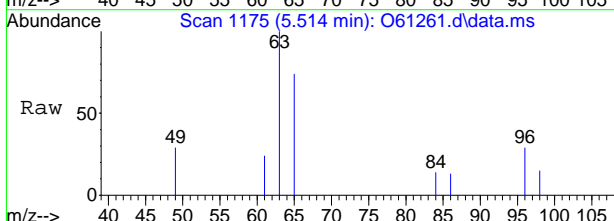
#5  
 Methylene Chloride  
 Concen: 0.08 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61261.d  
 Acq: 12 Sep 2020 2:35 am

Tgt Ion	Resp	Lower	Upper
49	4103		
84	41.8	17.9	77.9
86	28.5	0.0	59.8

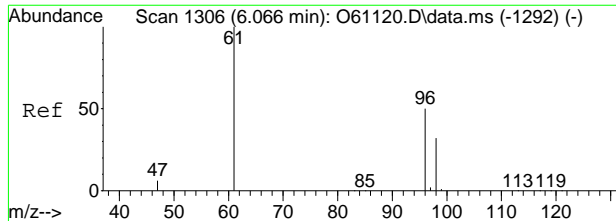


#7  
 1,1-Dichloroethane  
 Concen: 0.02 ug/L  
 RT: 5.514 min Scan# 1175  
 Delta R.T. -0.000 min  
 Lab File: O61261.d  
 Acq: 12 Sep 2020 2:35 am

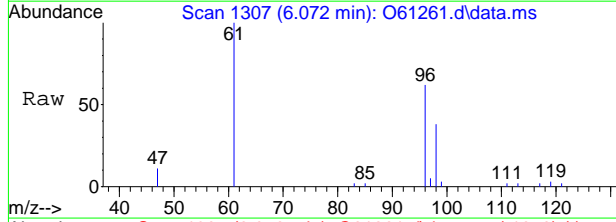
Tgt Ion	Resp	Lower	Upper
63	1031		
65	55.3	0.7	60.7



7.1.10  
7

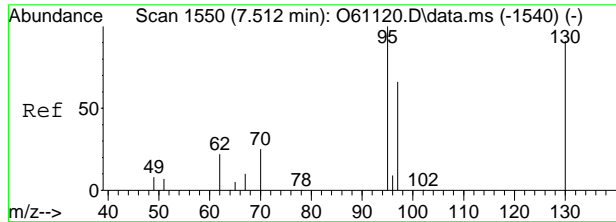
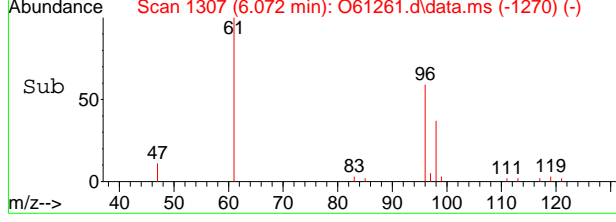
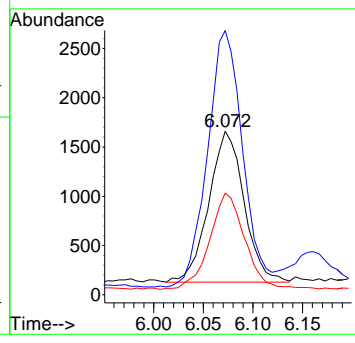


#8  
 cis-1,2-Dichloroethene  
 Concen: 0.18 ug/L  
 RT: 6.072 min Scan# 1307  
 Delta R.T. -0.000 min  
 Lab File: O61261.d  
 Acq: 12 Sep 2020 2:35 am

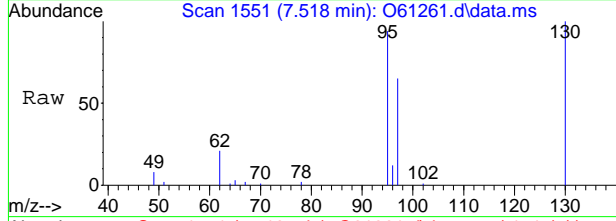


Tgt Ion: 96 Resp: 3804

Ion	Ratio	Lower	Upper
96	100		
61	169.8	107.0	167.0#
98	63.1	34.1	94.1

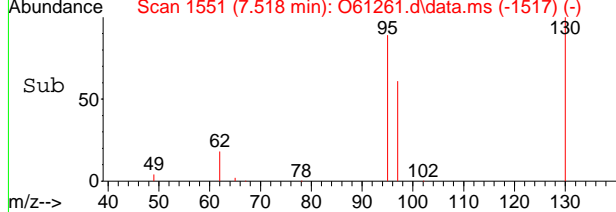
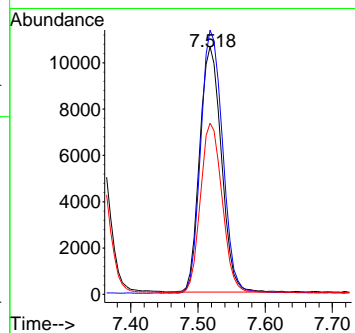


#15  
 Trichloroethene  
 Concen: 1.10 ug/L  
 RT: 7.518 min Scan# 1551  
 Delta R.T. -0.000 min  
 Lab File: O61261.d  
 Acq: 12 Sep 2020 2:35 am



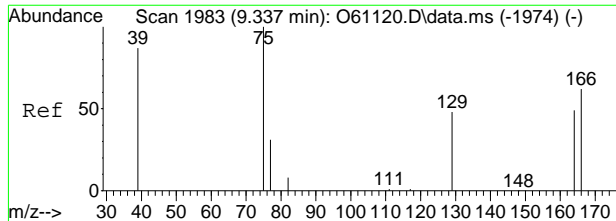
Tgt Ion: 95 Resp: 23846

Ion	Ratio	Lower	Upper
95	100		
130	107.1	60.4	120.4
97	69.0	34.6	94.6



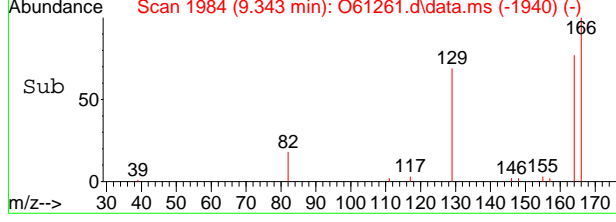
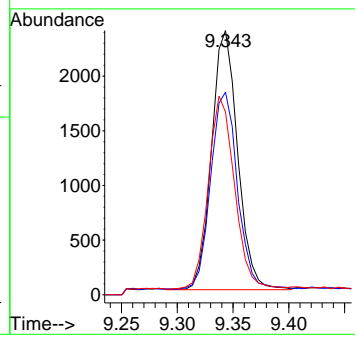
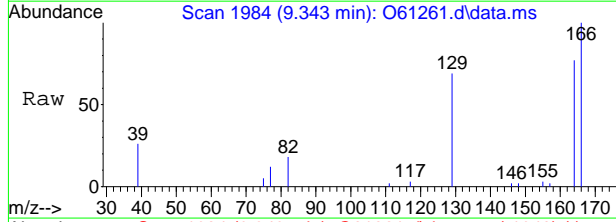
7.1.10  
7





#21  
 Tetrachloroethene  
 Concen: 0.19 ug/L m  
 RT: 9.343 min Scan# 1984  
 Delta R.T. 0.000 min  
 Lab File: O61261.d  
 Acq: 12 Sep 2020 2:35 am

Tgt Ion	Resp	Lower	Upper
166	3857		
166	100		
164	76.6	47.3	107.3
129	69.2	37.5	97.5



7.1.10  
7



# Manual Integration Approval Summary

**Sample Number:** FA78571-10      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61261.D      **Analyst approved:** 09/14/20 14:11 Akari Giraldo  
**Injection Time:** 09/12/20 02:35      **Supervisor approved:** 09/14/20 14:16 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.79	Poor instrument integration
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration

7.1.10.1

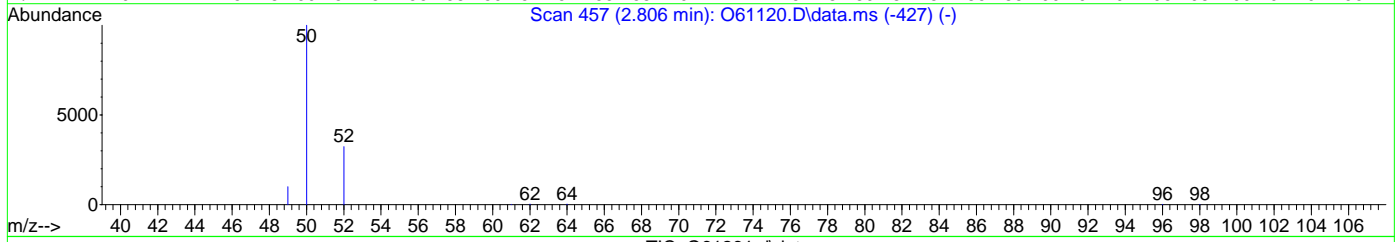
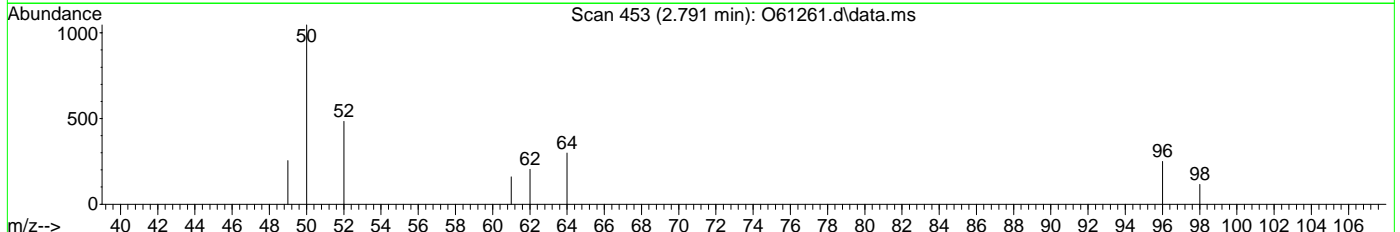
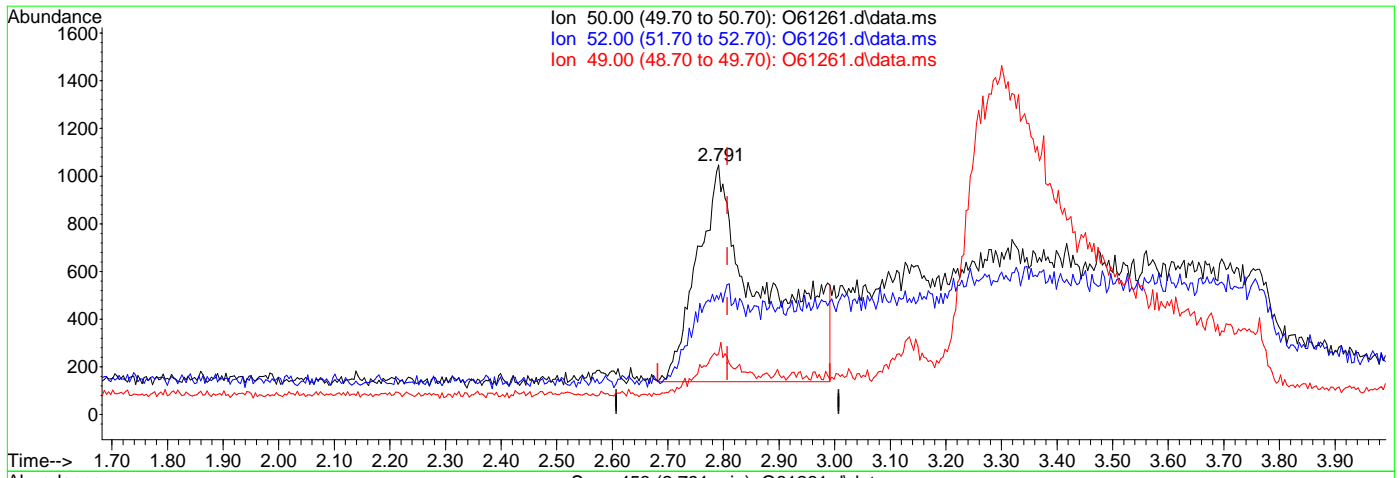
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61261.d  
Acq On : 12 Sep 2020 2:35 am  
Operator : stutip  
Sample : fa78571-10  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 02:55:47 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



TIC: O61261.d\data.ms

(3) Chloromethane

2.791min (-0.016) 0.18ug/L

response 7540

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	37.51
49.00	10.50	18.59
0.00	0.00	0.00

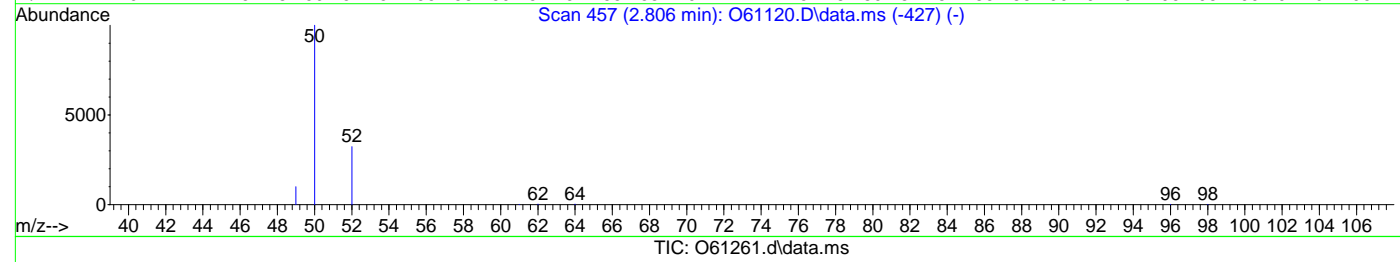
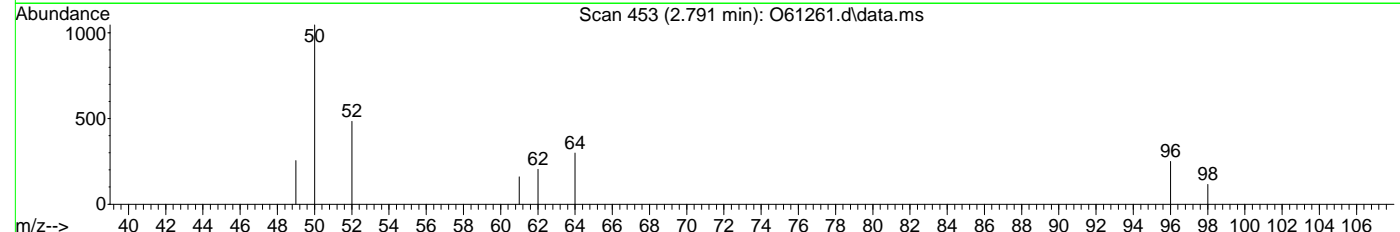
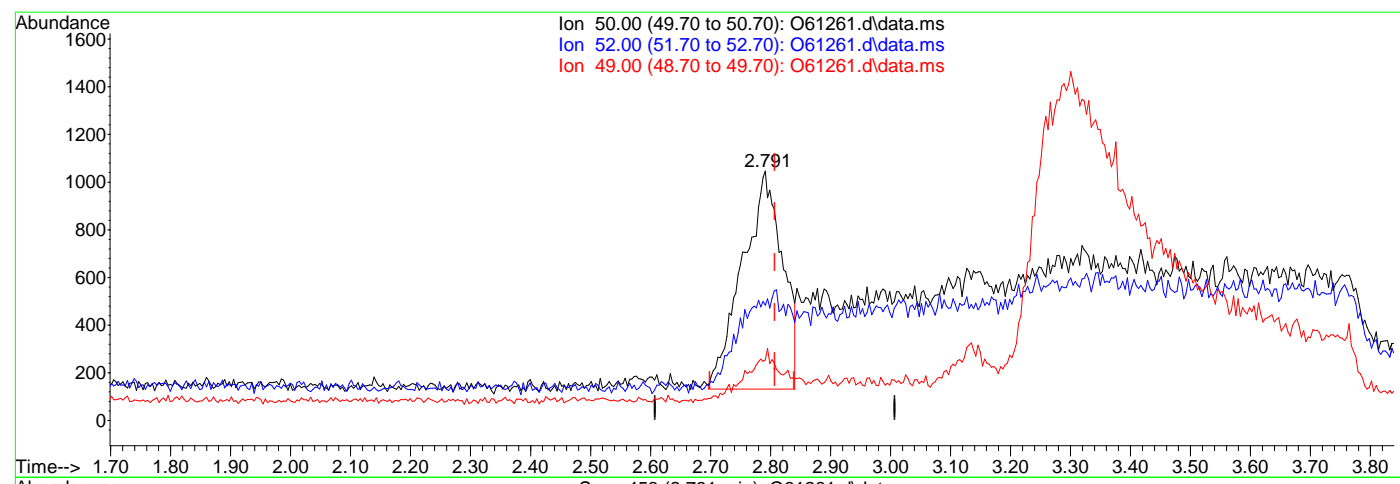
7.1.102  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61261.d  
Acq On : 12 Sep 2020 2:35 am  
Operator : stutip  
Sample : fa78571-10  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 02:55:47 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(3) Chloromethane  
2.791min (-0.016) 0.10ug/L m  
response 4236  
lon Exp% Act%  
50.00 100 100  
52.00 27.80 46.13  
49.00 10.50 24.26  
0.00 0.00 0.00

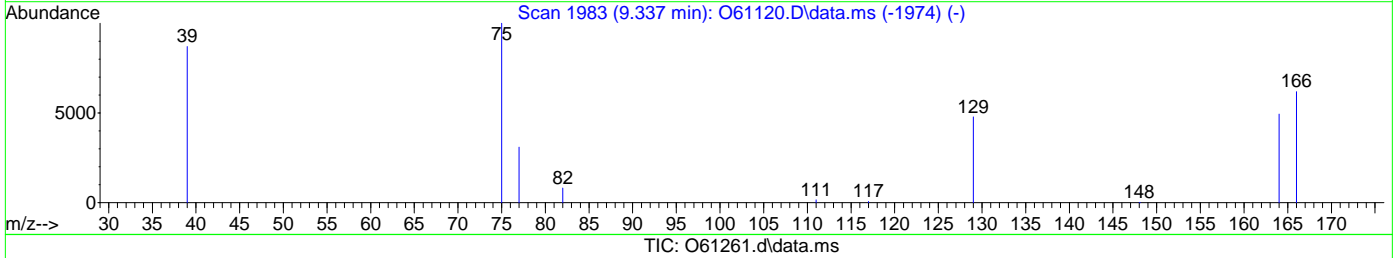
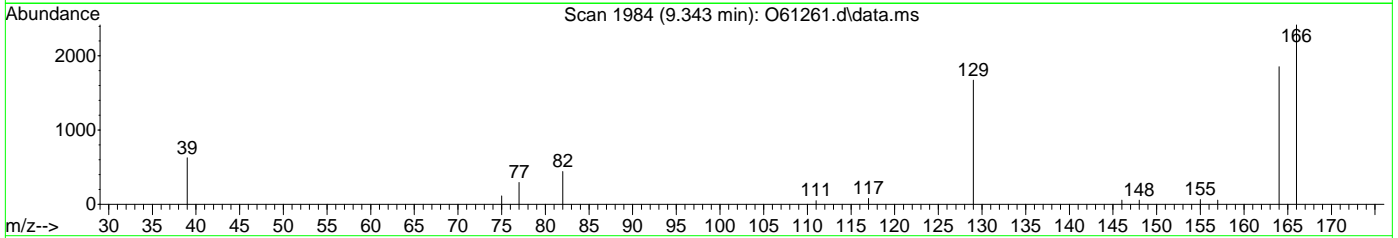
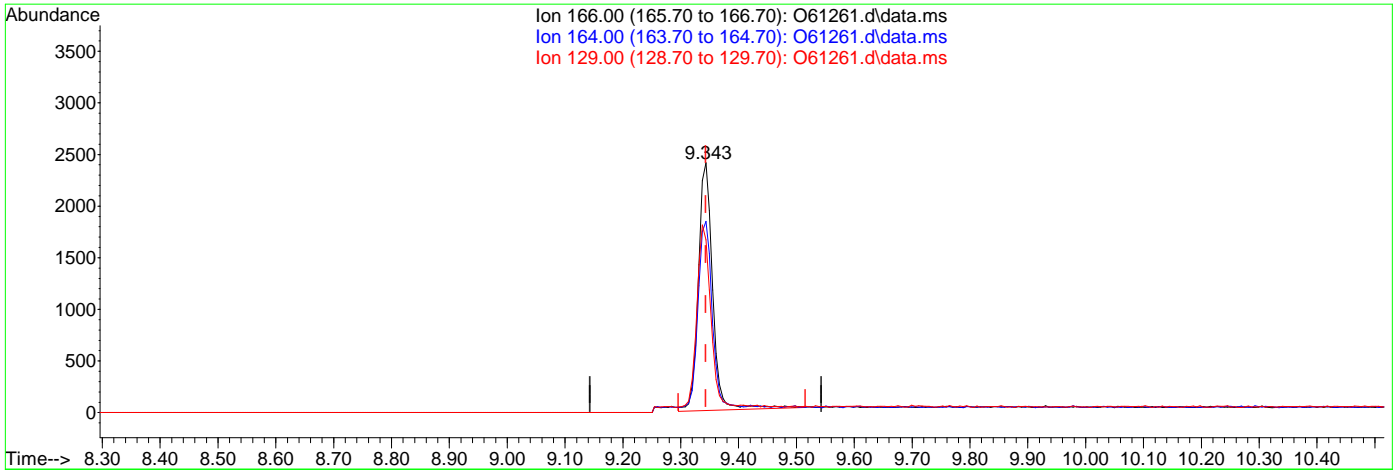


7.1.10.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61261.d  
 Acq On : 12 Sep 2020 2:35 am  
 Operator : stutip  
 Sample : fa78571-10  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 02:55:47 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.21ug/L

response 4150

Ion Exp% Act%

166.00 100 100

164.00 77.30 76.14

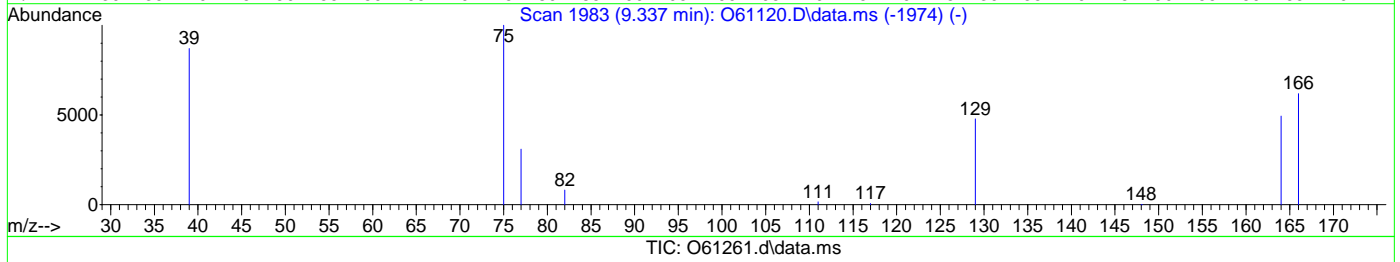
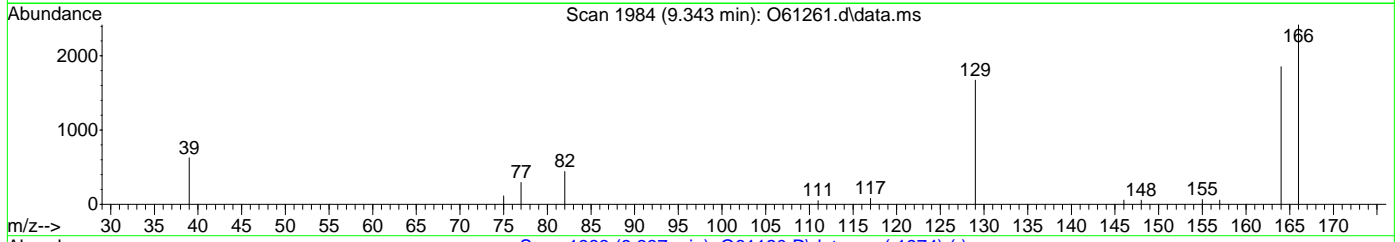
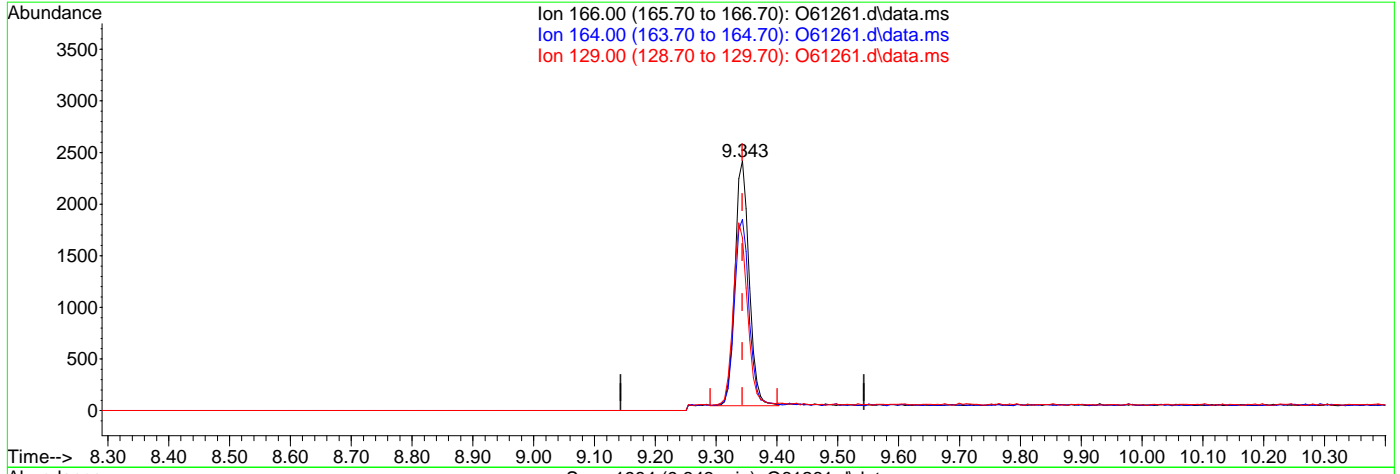
129.00 67.50 68.33

0.00 0.00 0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61261.d  
Acq On : 12 Sep 2020 2:35 am  
Operator : stutip  
Sample : fa78571-10  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 02:55:47 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.19ug/L m

response 3857

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	76.64
129.00	67.50	69.16
0.00	0.00	0.00



7.1.10.5  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61262.d  
Acq On : 12 Sep 2020 2:56 am  
Operator : stutip  
Sample : fa78571-11  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 14 03:10:39 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	230121	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	181695	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	99359	5.35	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	107.00%	
19) Toluene-d8	8.896	98	201448	4.92	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.40%	
Target Compounds						
5) Methylene Chloride	4.703	49	4000	0.08	ug/L	96
7) 1,1-Dichloroethane	5.510	63	1943	0.05	ug/L	93
8) cis-1,2-Dichloroethene	6.066	96	1507	0.07	ug/L	90
9) Chloroform	6.333	83	3805	0.10	ug/L #	78
10) Carbon Tetrachloride	6.511	117	3275	0.13	ug/L	86
15) Trichloroethene	7.512	95	28737	1.33	ug/L	89
21) Tetrachloroethene	9.337	166	2355	0.12	ug/L	91
-----						

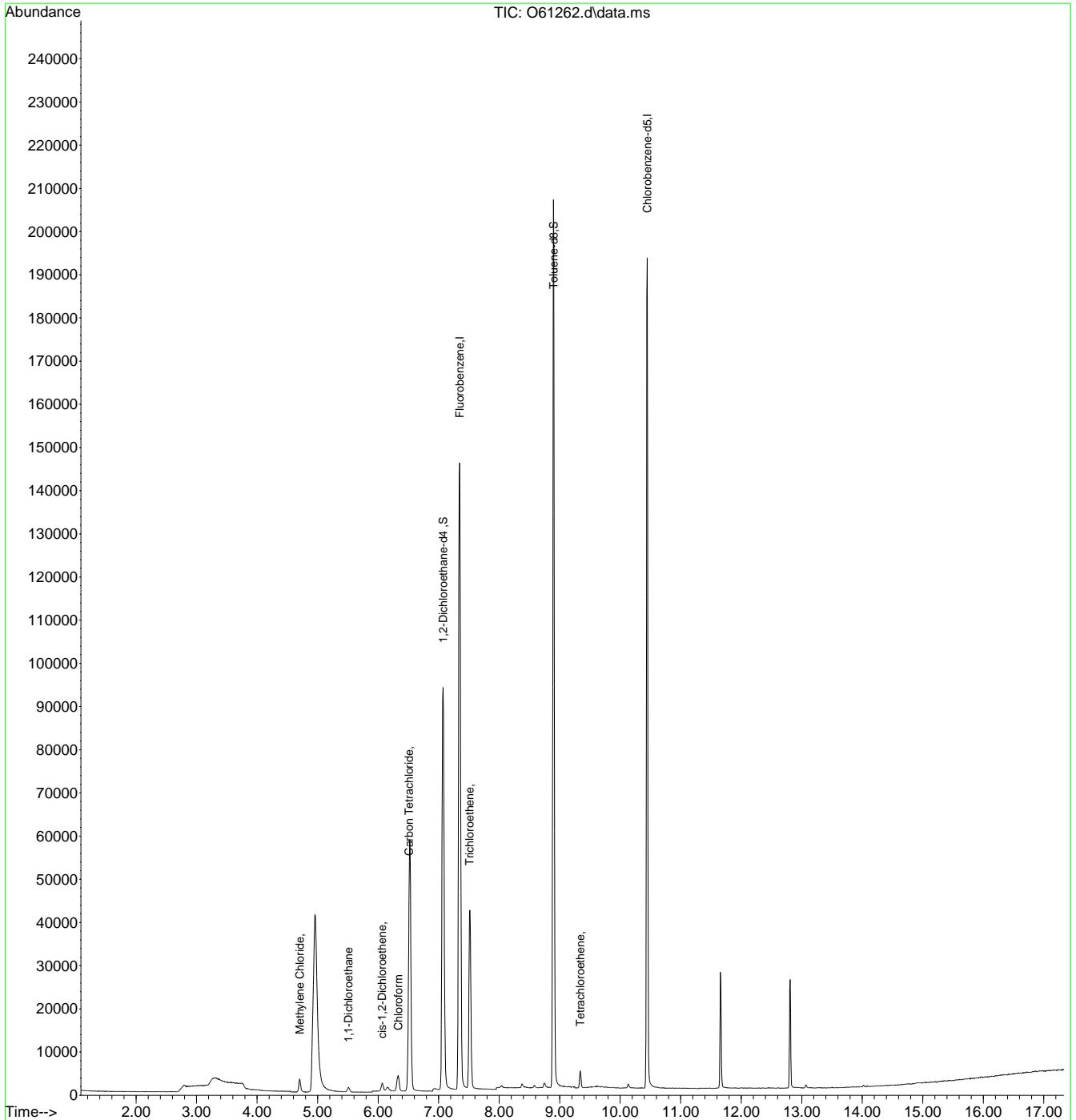
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.11  
7

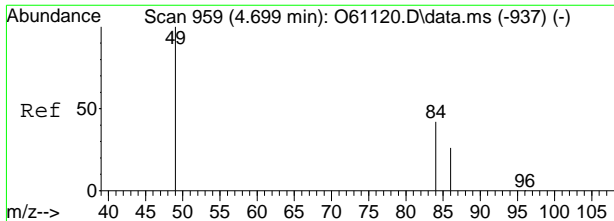
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61262.d  
 Acq On : 12 Sep 2020 2:56 am  
 Operator : stutip  
 Sample : fa78571-11  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 14 03:10:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

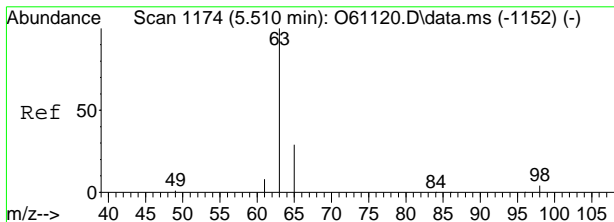
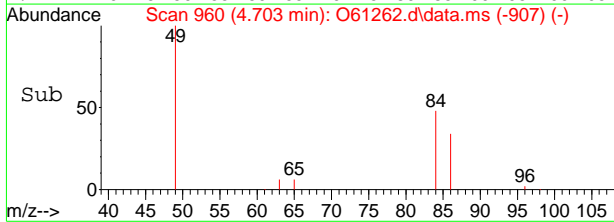
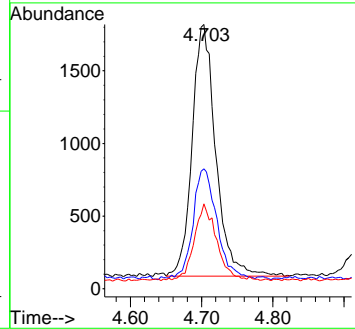
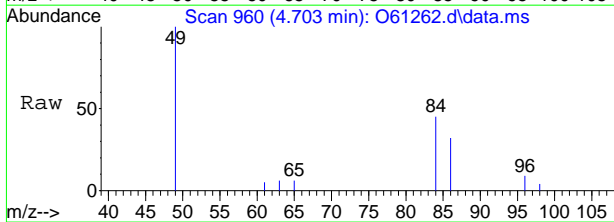


7.1.11  
7



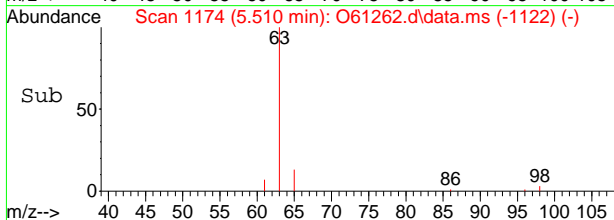
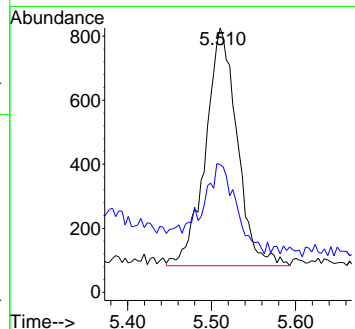
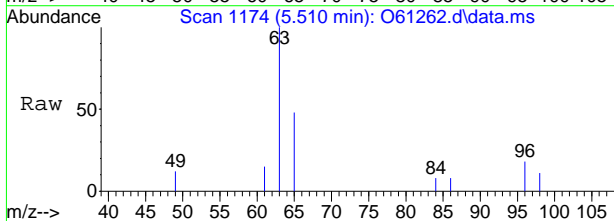
#5  
 Methylene Chloride  
 Concen: 0.08 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.000 min  
 Lab File: O61262.d  
 Acq: 12 Sep 2020 2:56 am

Tgt Ion	Resp	Lower	Upper
49	4000		
84	43.3	17.9	77.9
86	30.2	0.0	59.8

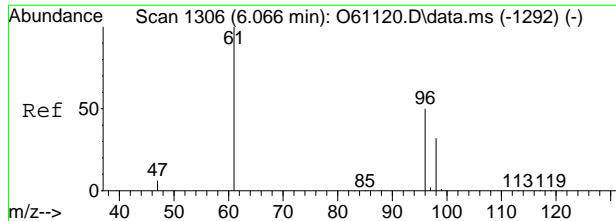


#7  
 1,1-Dichloroethane  
 Concen: 0.05 ug/L  
 RT: 5.510 min Scan# 1174  
 Delta R.T. -0.004 min  
 Lab File: O61262.d  
 Acq: 12 Sep 2020 2:56 am

Tgt Ion	Resp	Lower	Upper
63	1943		
65	34.6	0.7	60.7



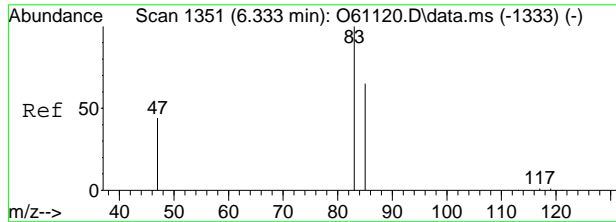
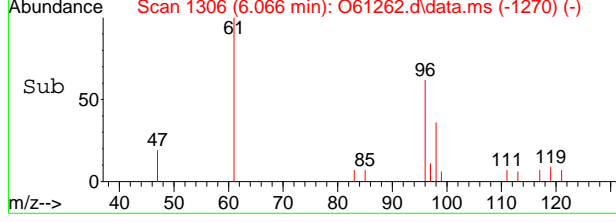
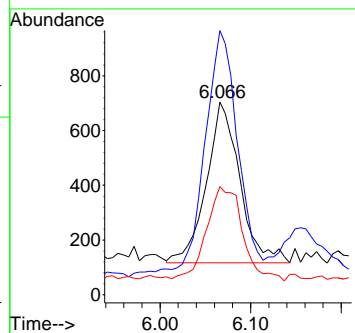
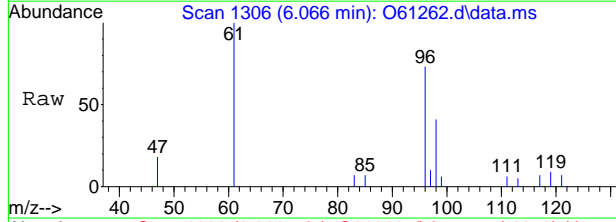
7.1.11  
7



#8  
 cis-1,2-Dichloroethene  
 Concen: 0.07 ug/L  
 RT: 6.066 min Scan# 1306  
 Delta R.T. -0.006 min  
 Lab File: O61262.d  
 Acq: 12 Sep 2020 2:56 am

Tgt Ion: 96 Resp: 1507

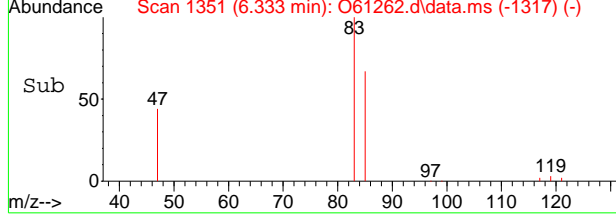
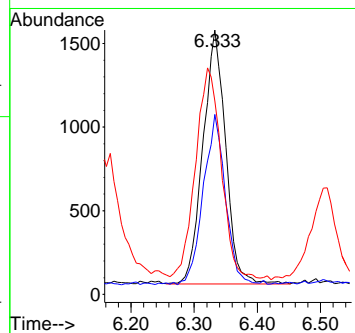
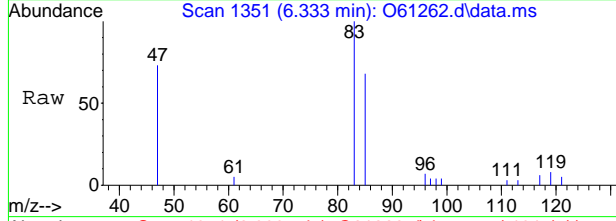
Ion	Ratio	Lower	Upper
96	100		
61	148.6	107.0	167.0
98	56.0	34.1	94.1



#9  
 Chloroform  
 Concen: 0.10 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61262.d  
 Acq: 12 Sep 2020 2:56 am

Tgt Ion: 83 Resp: 3805

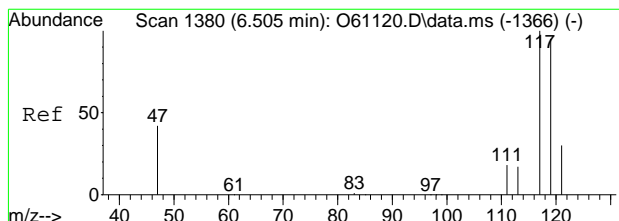
Ion	Ratio	Lower	Upper
83	100		
85	66.3	33.0	93.0
47	68.8	8.1	68.1#



7.1.11  
7

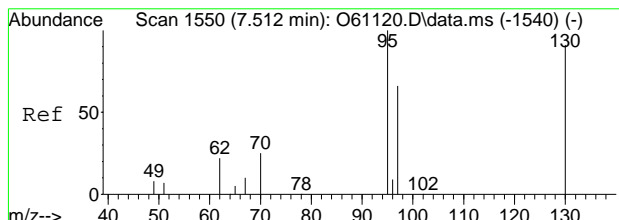
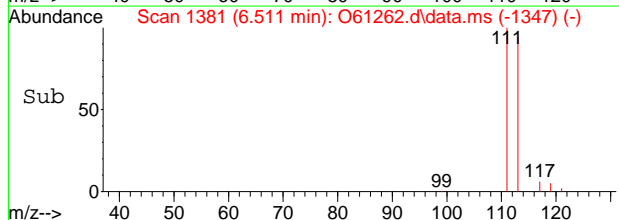
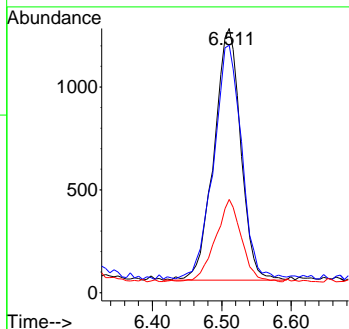
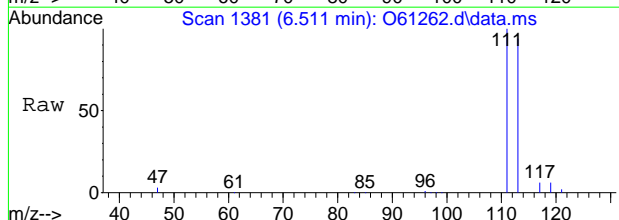






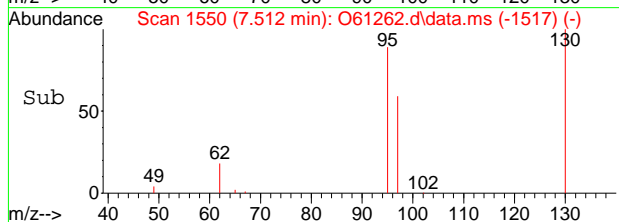
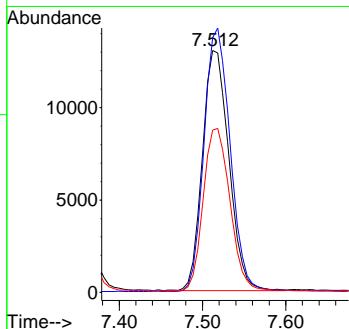
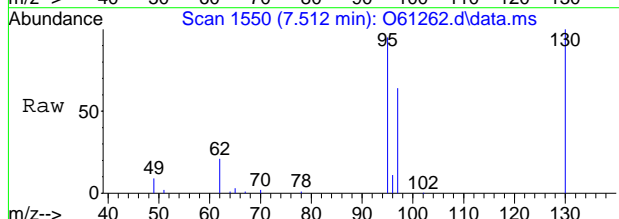
#10  
 Carbon Tetrachloride  
 Concen: 0.13 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. -0.000 min  
 Lab File: O61262.d  
 Acq: 12 Sep 2020 2:56 am

Tgt Ion	Resp	Lower	Upper
117	3275		
117	100		
119	92.8	80.9	140.9
121	32.6	4.1	64.1

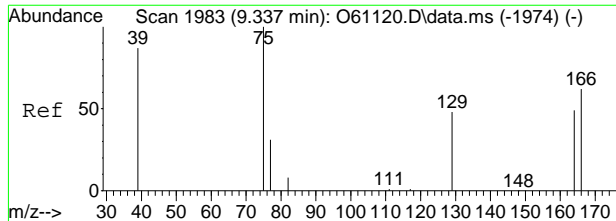


#15  
 Trichloroethene  
 Concen: 1.33 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61262.d  
 Acq: 12 Sep 2020 2:56 am

Tgt Ion	Resp	Lower	Upper
95	28737		
95	100		
130	105.8	60.4	120.4
97	67.0	34.6	94.6

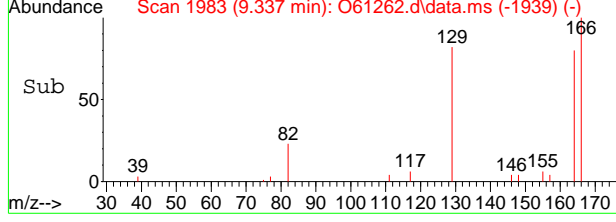
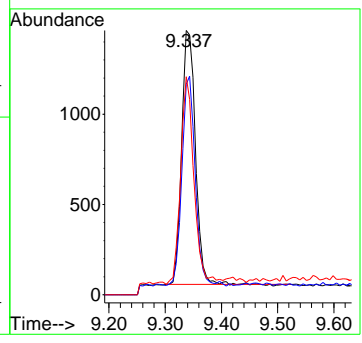
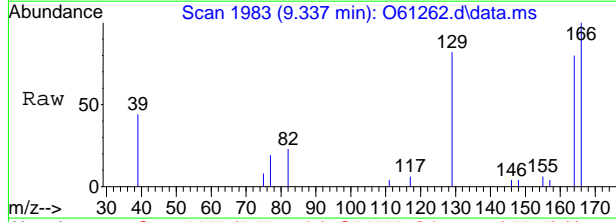


7.1.11  
7



#21  
 Tetrachloroethene  
 Concen: 0.12 ug/L  
 RT: 9.337 min Scan# 1983  
 Delta R.T. -0.006 min  
 Lab File: O61262.d  
 Acq: 12 Sep 2020 2:56 am

Tgt Ion	Ratio	Lower	Upper
166	100		
164	79.2	47.3	107.3
129	81.7	37.5	97.5



7.1.11  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61263.d  
Acq On : 12 Sep 2020 3:16 am  
Operator : stutip  
Sample : fa78571-12  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 03:11:19 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.352	96	228713	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	178454	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	98768	5.35	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	107.00%		
19) Toluene-d8	8.900	98	199474	4.96	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.20%		
Target Compounds							
5) Methylene Chloride	4.711	49	3891	0.08	ug/L		93
6) trans-1,2-Dichloroethene	4.873	61	786	0.02	ug/L		83
8) cis-1,2-Dichloroethene	6.072	96	5644	0.27	ug/L #		79
9) Chloroform	6.333	83	7262	0.20	ug/L		84
15) Trichloroethene	7.518	95	79022	3.67	ug/L		89
21) Tetrachloroethene	9.343	166	6366m	0.33	ug/L		
-----							

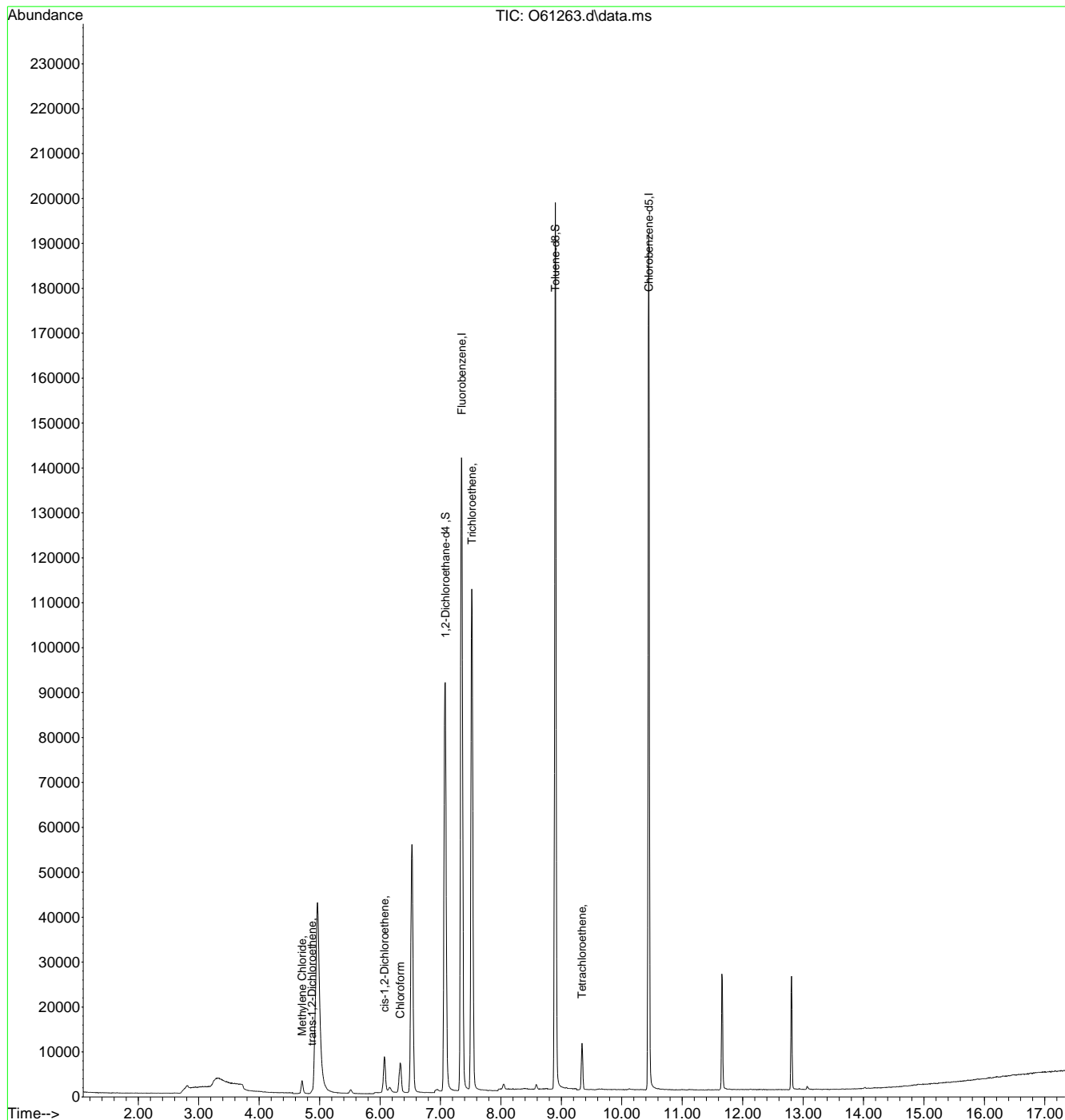
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.12  
7

Quantitation Report (QT Reviewed)

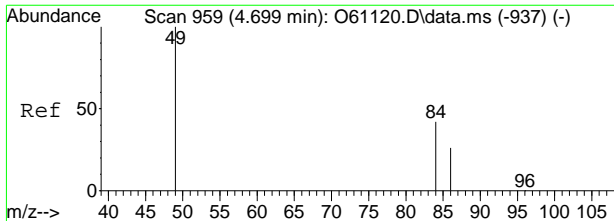
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61263.d  
 Acq On : 12 Sep 2020 3:16 am  
 Operator : stutip  
 Sample : fa78571-12  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 03:11:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.12  
7

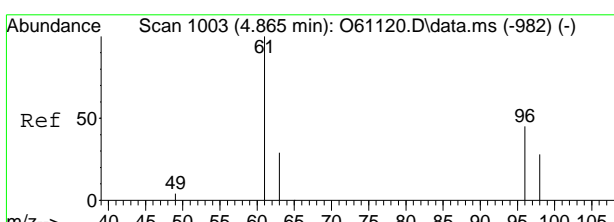
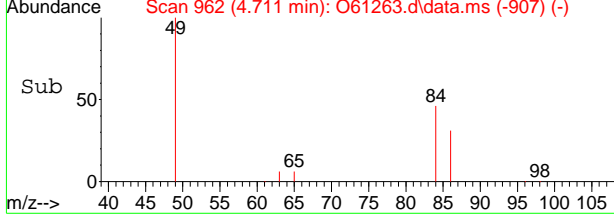
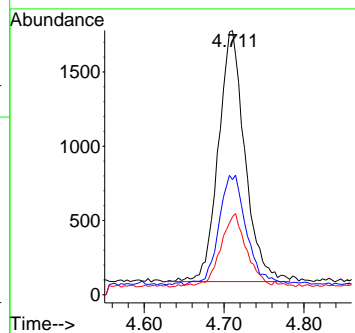
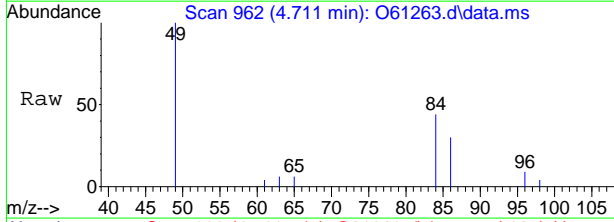




#5  
 Methylene Chloride  
 Concen: 0.08 ug/L  
 RT: 4.711 min Scan# 962  
 Delta R.T. 0.008 min  
 Lab File: O61263.d  
 Acq: 12 Sep 2020 3:16 am

Tgt Ion: 49 Resp: 3891

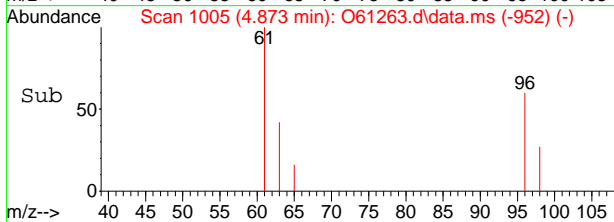
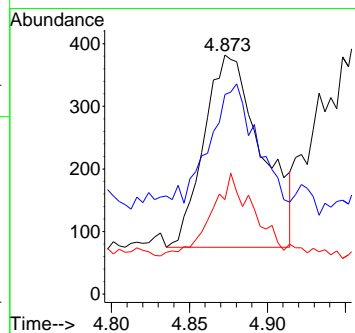
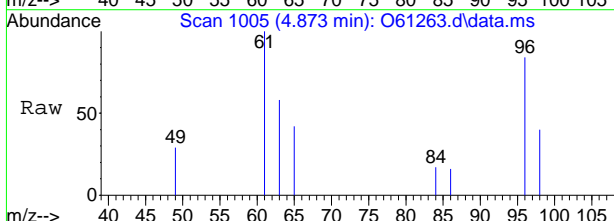
Ion	Ratio	Lower	Upper
49	100		
84	41.8	17.9	77.9
86	27.3	0.0	59.8



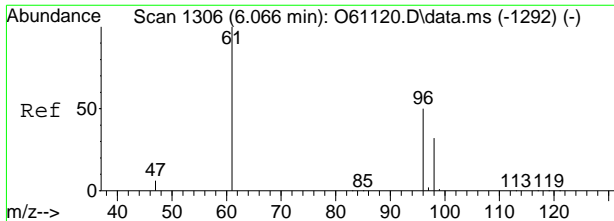
#6  
 trans-1,2-Dichloroethene  
 Concen: 0.02 ug/L  
 RT: 4.873 min Scan# 1005  
 Delta R.T. -0.000 min  
 Lab File: O61263.d  
 Acq: 12 Sep 2020 3:16 am

Tgt Ion: 61 Resp: 786

Ion	Ratio	Lower	Upper
61	100		
96	56.0	36.9	96.9
98	27.4	11.1	71.1

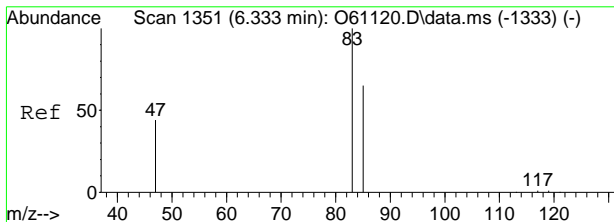
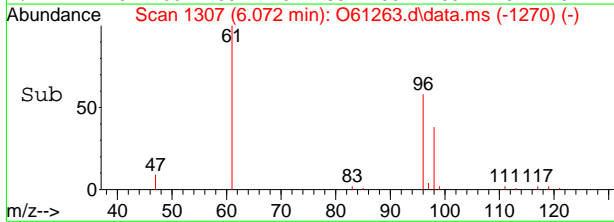
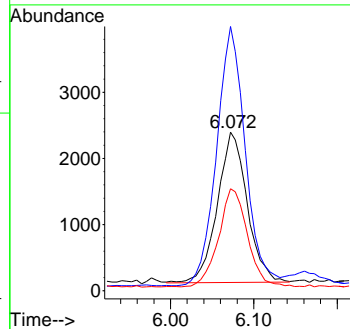
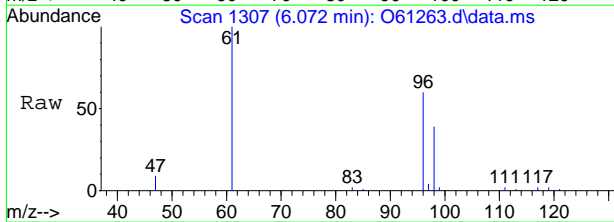


7.1.12  
7



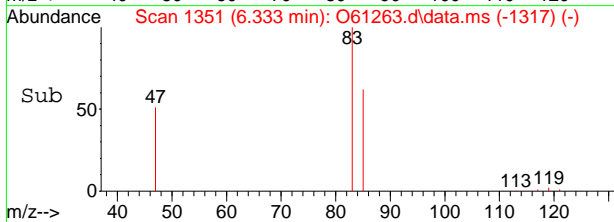
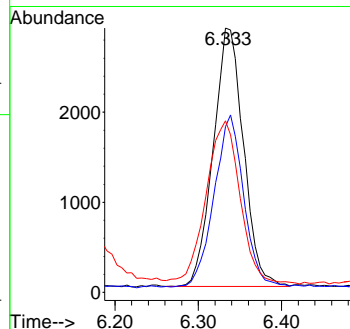
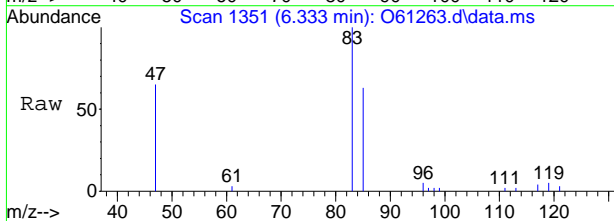
#8  
 cis-1,2-Dichloroethene  
 Concen: 0.27 ug/L  
 RT: 6.072 min Scan# 1307  
 Delta R.T. -0.000 min  
 Lab File: O61263.d  
 Acq: 12 Sep 2020 3:16 am

Tgt Ion	Resp	Lower	Upper
96	5644		
61	172.8	107.0	167.0#
98	65.2	34.1	94.1

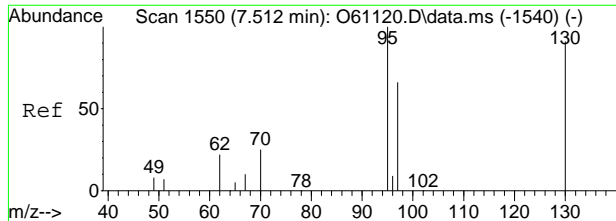


#9  
 Chloroform  
 Concen: 0.20 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61263.d  
 Acq: 12 Sep 2020 3:16 am

Tgt Ion	Resp	Lower	Upper
83	7262		
85	61.8	33.0	93.0
47	62.5	8.1	68.1



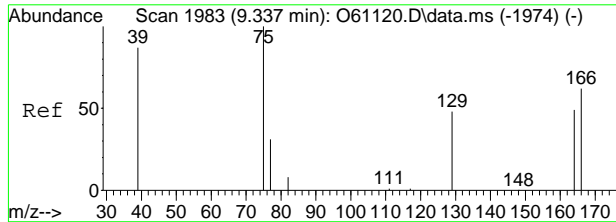
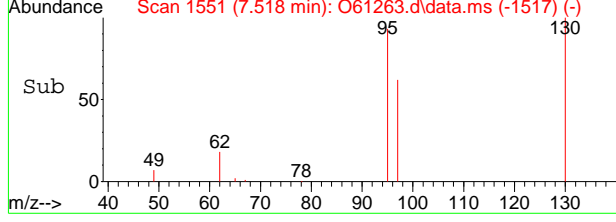
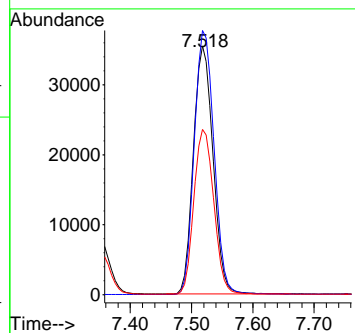
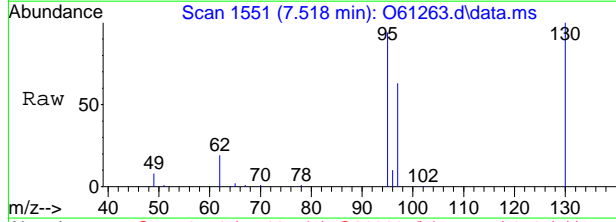
7.1.12  
7



#15  
 Trichloroethene  
 Concen: 3.67 ug/L  
 RT: 7.518 min Scan# 1551  
 Delta R.T. -0.000 min  
 Lab File: O61263.d  
 Acq: 12 Sep 2020 3:16 am

Tgt Ion: 95 Resp: 79022

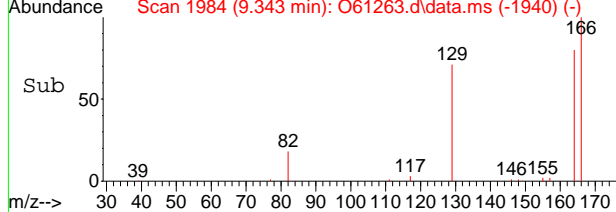
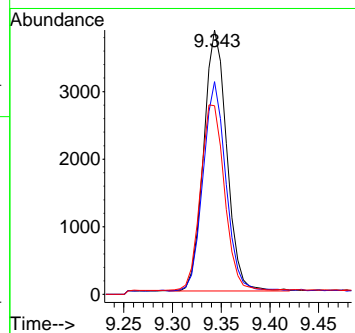
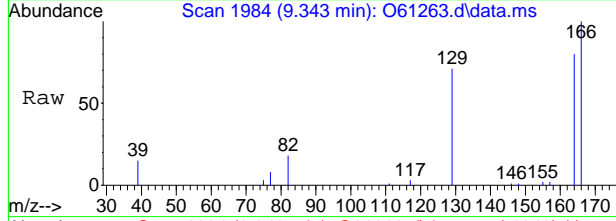
Ion	Ratio	Lower	Upper
95	100		
130	106.5	60.4	120.4
97	66.4	34.6	94.6



#21  
 Tetrachloroethene  
 Concen: 0.33 ug/L m  
 RT: 9.343 min Scan# 1984  
 Delta R.T. 0.000 min  
 Lab File: O61263.d  
 Acq: 12 Sep 2020 3:16 am

Tgt Ion: 166 Resp: 6366

Ion	Ratio	Lower	Upper
166	100		
164	80.4	47.3	107.3
129	71.3	37.5	97.5



7.1.12  
 7

# Manual Integration Approval Summary

**Sample Number:** FA78571-12      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61263.D      **Analyst approved:** 09/14/20 14:11 Akari Giraldo  
**Injection Time:** 09/12/20 03:16      **Supervisor approved:** 09/14/20 14:16 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration

7.1.12.1

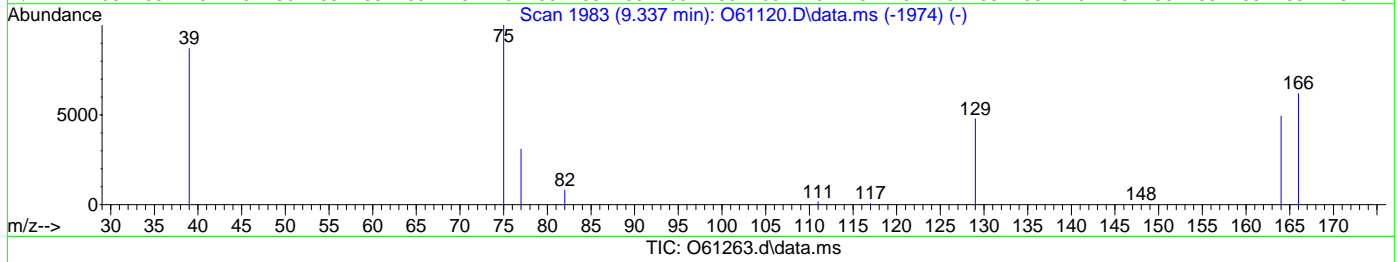
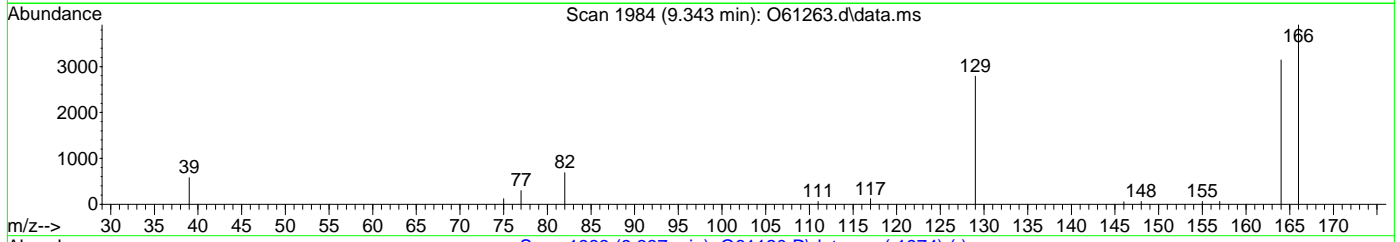
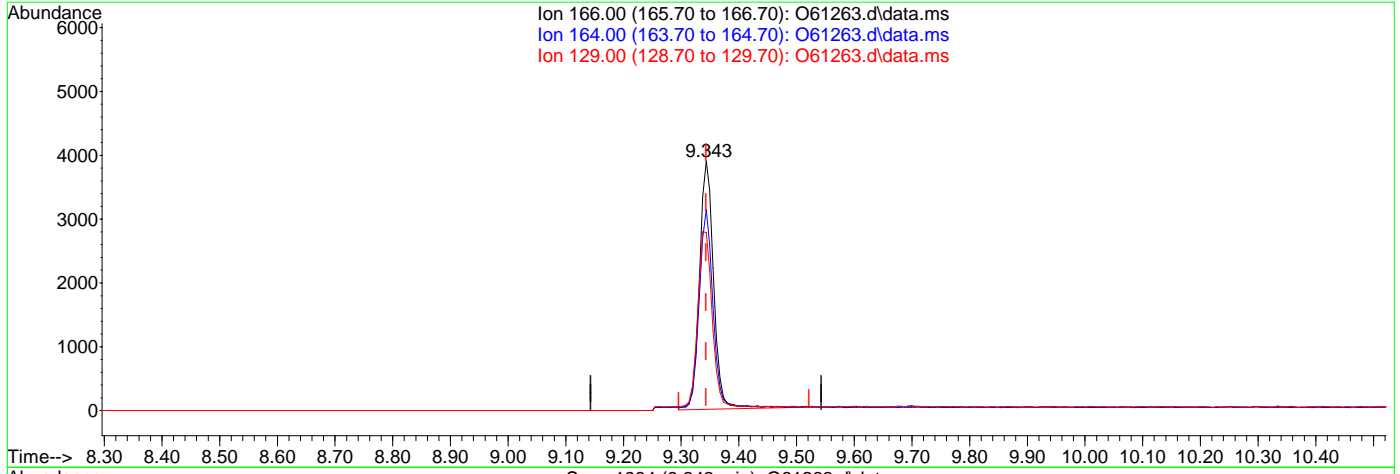
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61263.d  
Acq On : 12 Sep 2020 3:16 am  
Operator : stutip  
Sample : fa78571-12  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 02:55:51 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.34ug/L

response 6665

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	80.25
129.00	67.50	70.66
0.00	0.00	0.00

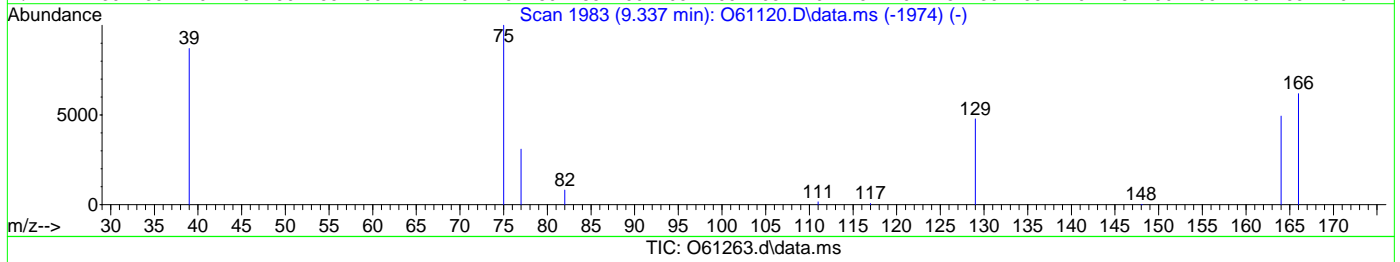
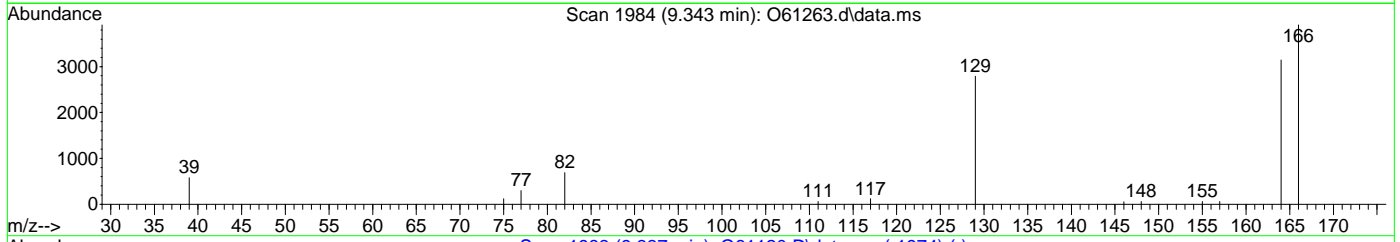
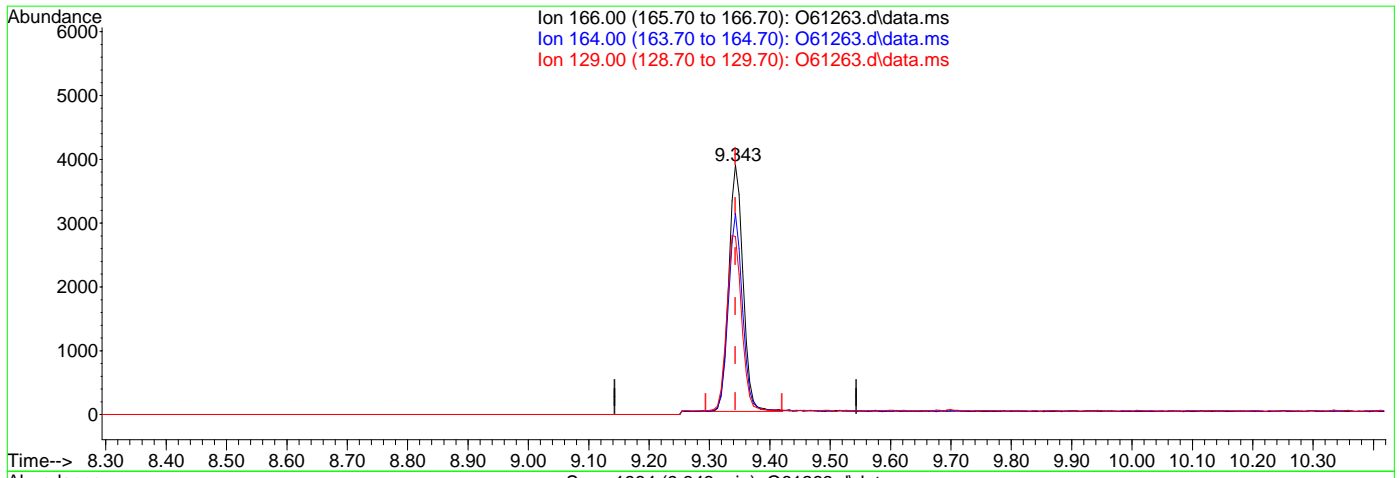


7.1.122  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61263.d  
Acq On : 12 Sep 2020 3:16 am  
Operator : stutip  
Sample : fa78571-12  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 02:55:51 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.33ug/L m

response 6366

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	80.42
129.00	67.50	71.32
0.00	0.00	0.00



7.1.12.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61264.d  
Acq On : 12 Sep 2020 3:36 am  
Operator : stutip  
Sample : fa78571-13  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 03:12:05 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	222709	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	173214	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	97153	5.40	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	108.00%		
19) Toluene-d8	8.896	98	193764	4.96	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.20%		
Target Compounds							
5) Methylene Chloride	4.703	49	3906	0.08	ug/L		Qvalue 99
7) 1,1-Dichloroethane	5.514	63	1362	0.03	ug/L		93
8) cis-1,2-Dichloroethene	6.066	96	5068	0.25	ug/L #		77
9) Chloroform	6.333	83	6407	0.18	ug/L		83
15) Trichloroethene	7.518	95	66612	3.18	ug/L		86
21) Tetrachloroethene	9.343	166	5343m	0.28	ug/L		
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

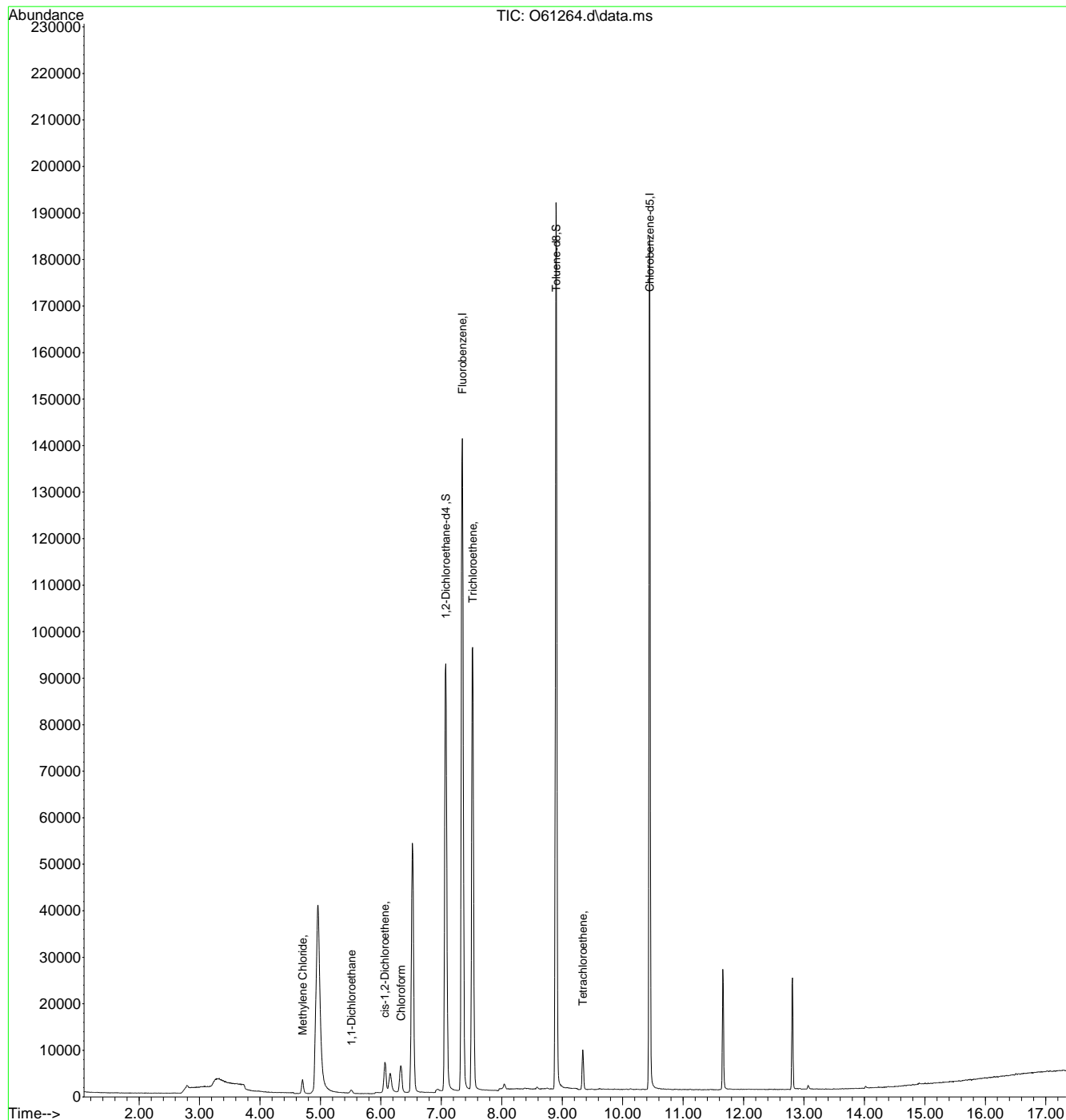
7.1.13  
7



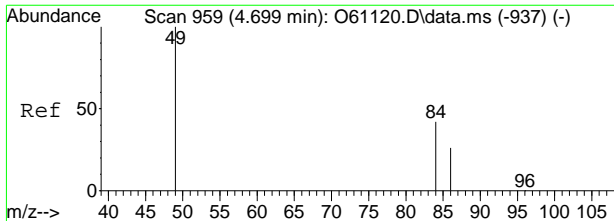
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61264.d  
 Acq On : 12 Sep 2020 3:36 am  
 Operator : stutip  
 Sample : fa78571-13  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 03:12:05 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



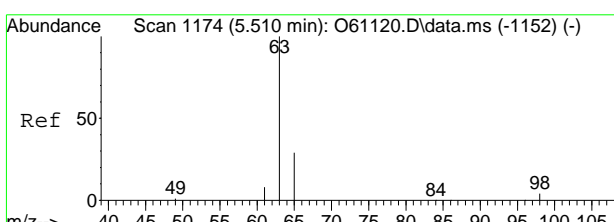
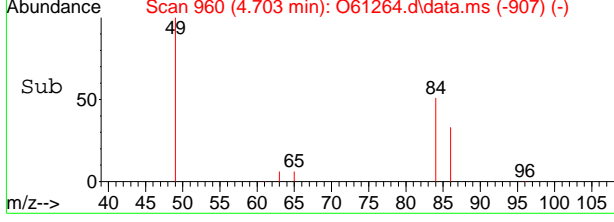
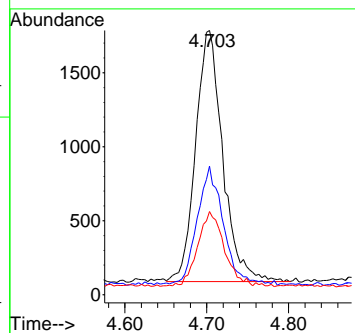
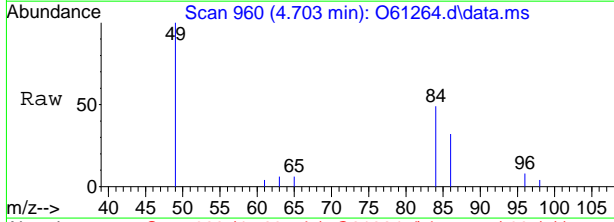
7.1.13  
7



#5  
 Methylene Chloride  
 Concen: 0.08 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.000 min  
 Lab File: O61264.d  
 Acq: 12 Sep 2020 3:36 am

Tgt Ion: 49 Resp: 3906

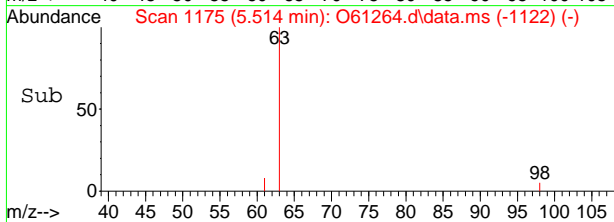
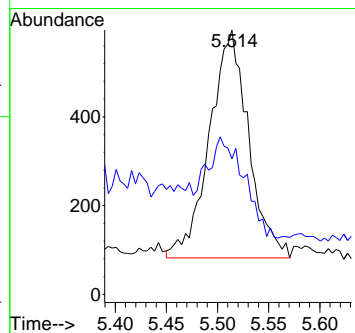
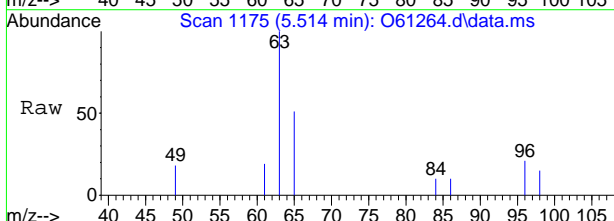
Ion	Ratio	Lower	Upper
49	100		
84	46.8	17.9	77.9
86	29.6	0.0	59.8



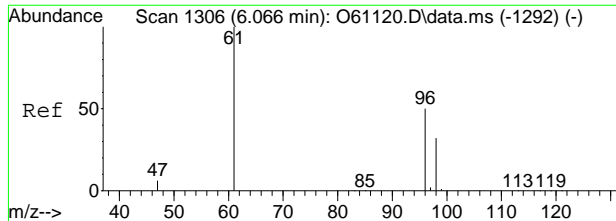
#7  
 1,1-Dichloroethane  
 Concen: 0.03 ug/L  
 RT: 5.514 min Scan# 1175  
 Delta R.T. 0.000 min  
 Lab File: O61264.d  
 Acq: 12 Sep 2020 3:36 am

Tgt Ion: 63 Resp: 1362

Ion	Ratio	Lower	Upper
63	100		
65	34.4	0.7	60.7



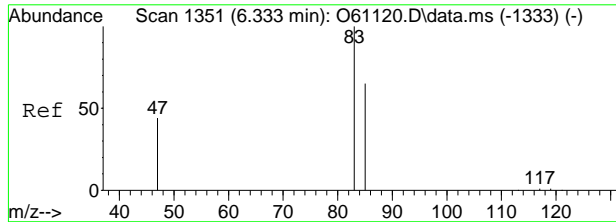
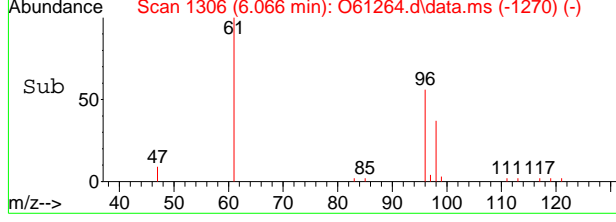
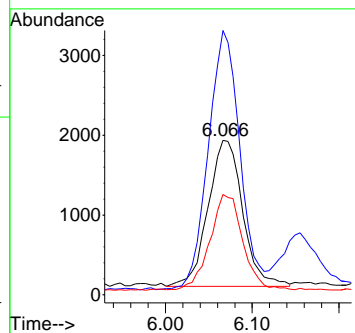
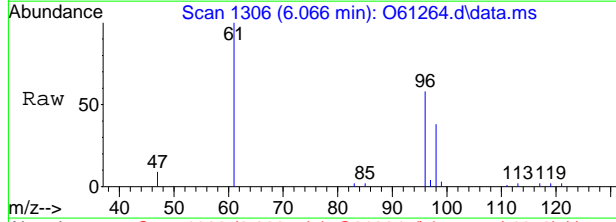
7.1.13  
7



#8  
 cis-1,2-Dichloroethene  
 Concen: 0.25 ug/L  
 RT: 6.066 min Scan# 1306  
 Delta R.T. -0.006 min  
 Lab File: O61264.d  
 Acq: 12 Sep 2020 3:36 am

Tgt Ion: 96 Resp: 5068

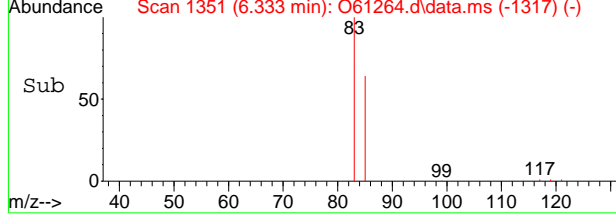
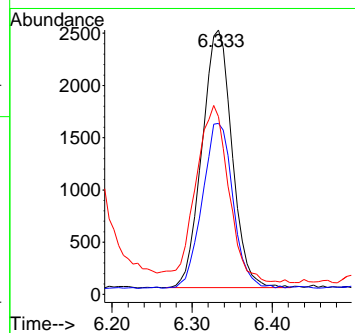
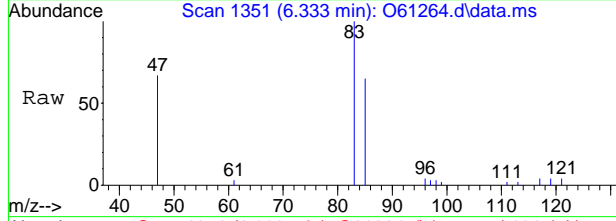
Ion	Ratio	Lower	Upper
96	100		
61	177.0	107.0	167.0#
98	65.2	34.1	94.1

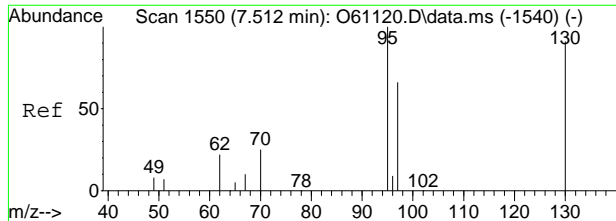


#9  
 Chloroform  
 Concen: 0.18 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61264.d  
 Acq: 12 Sep 2020 3:36 am

Tgt Ion: 83 Resp: 6407

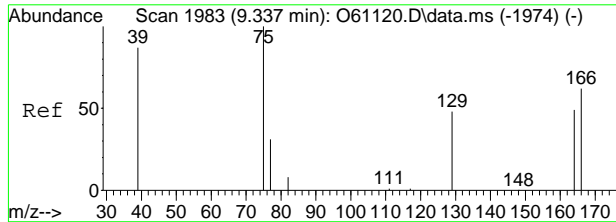
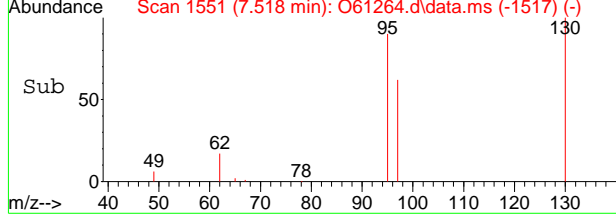
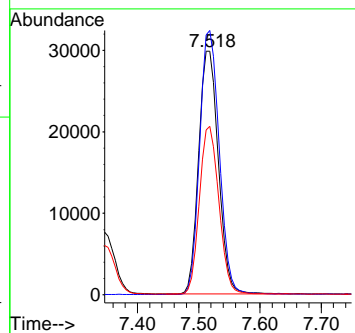
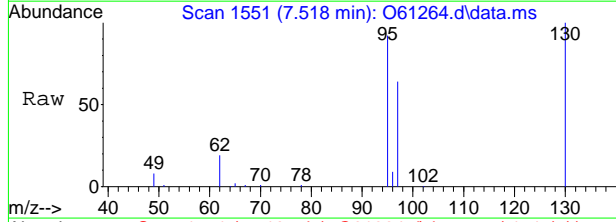
Ion	Ratio	Lower	Upper
83	100		
85	63.8	33.0	93.0
47	64.4	8.1	68.1





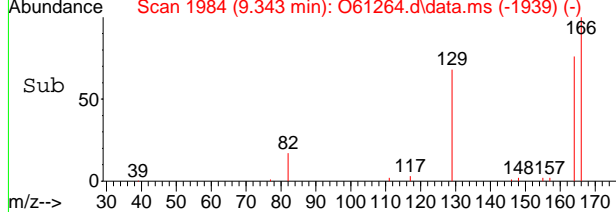
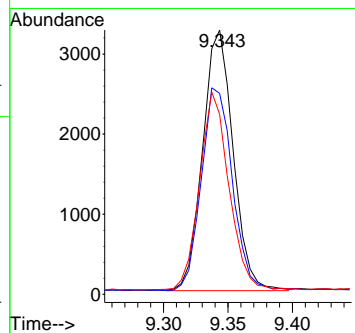
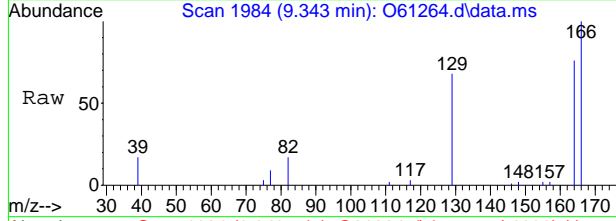
#15  
 Trichloroethene  
 Concen: 3.18 ug/L  
 RT: 7.518 min Scan# 1551  
 Delta R.T. 0.000 min  
 Lab File: O61264.d  
 Acq: 12 Sep 2020 3:36 am

Tgt Ion	Resp	Lower	Upper
95	66612		
130	108.8	60.4	120.4
97	69.2	34.6	94.6



#21  
 Tetrachloroethene  
 Concen: 0.28 ug/L m  
 RT: 9.343 min Scan# 1984  
 Delta R.T. 0.000 min  
 Lab File: O61264.d  
 Acq: 12 Sep 2020 3:36 am

Tgt Ion	Resp	Lower	Upper
166	5343		
164	76.0	47.3	107.3
129	68.2	37.5	97.5



7.1.13  
 7



# Manual Integration Approval Summary

**Sample Number:** FA78571-13      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61264.D      **Analyst approved:** 09/14/20 14:11 Akari Giraldo  
**Injection Time:** 09/12/20 03:36      **Supervisor approved:** 09/14/20 14:16 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration

7.1.13.1

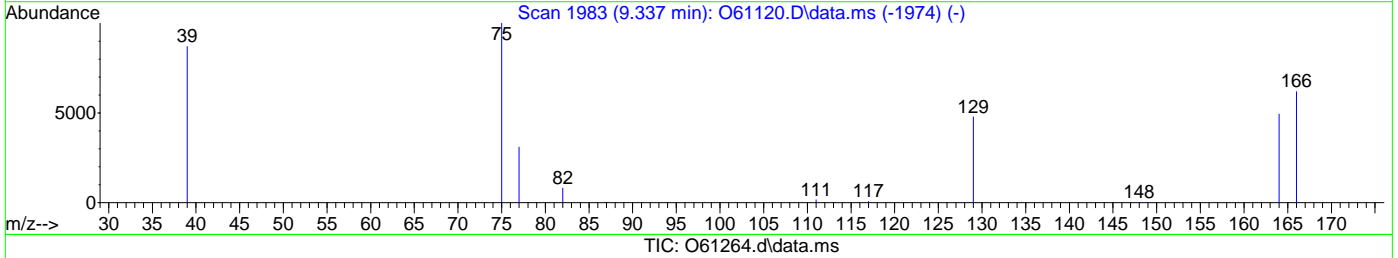
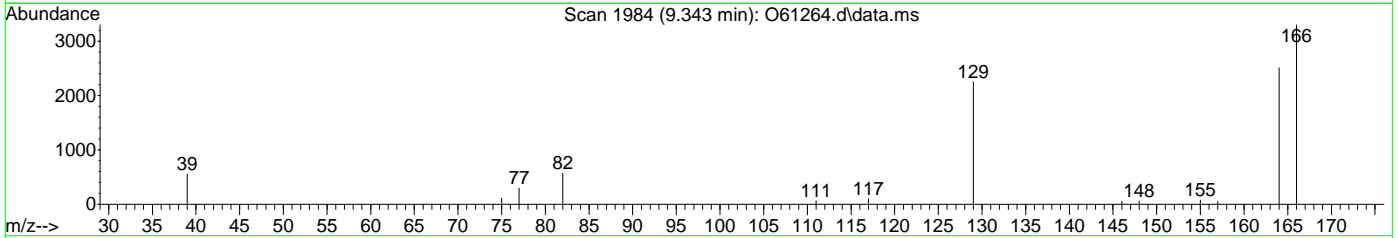
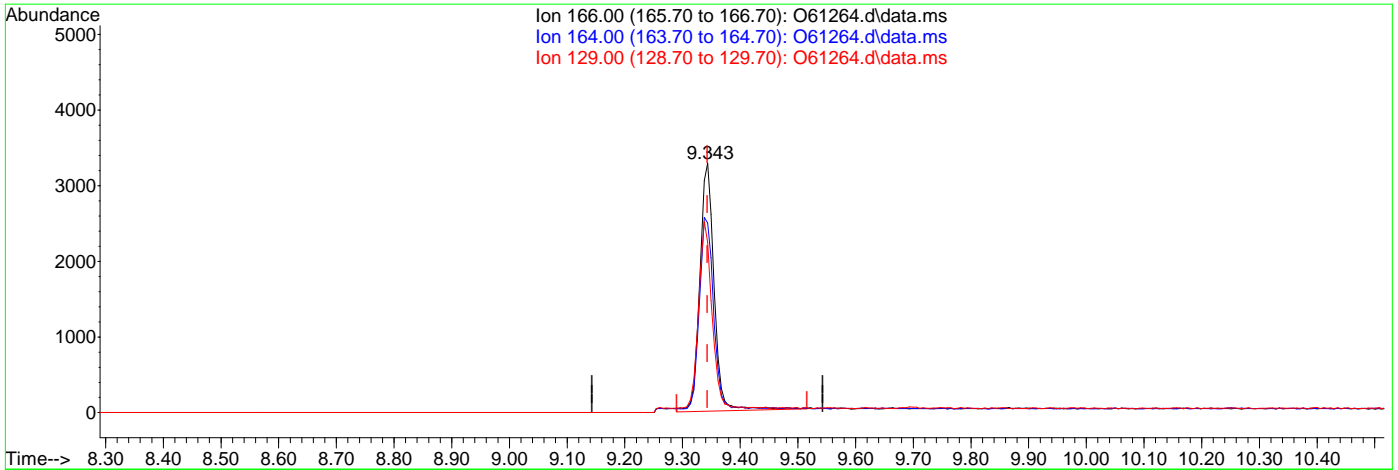
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61264.d  
 Acq On : 12 Sep 2020 3:36 am  
 Operator : stutip  
 Sample : fa78571-13  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 02:55:53 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.30ug/L

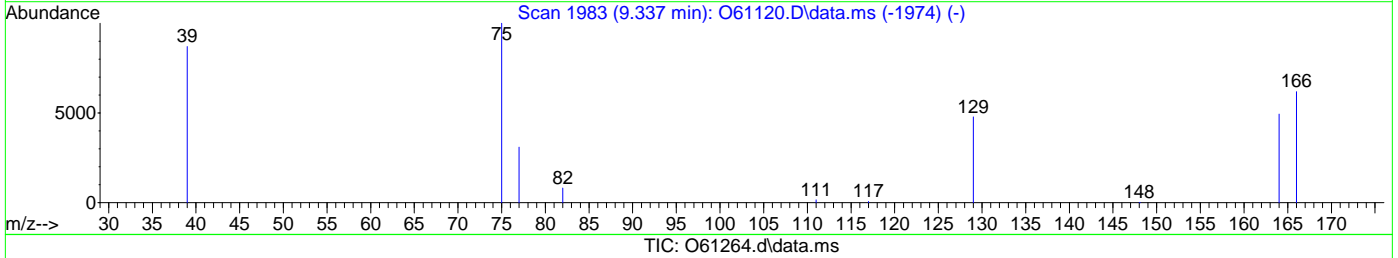
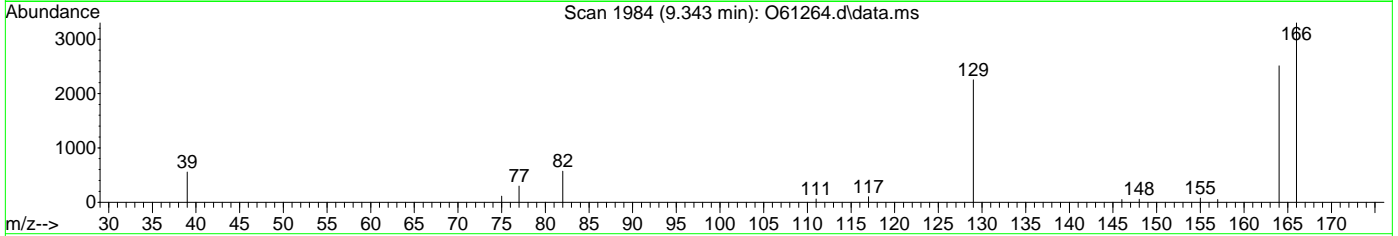
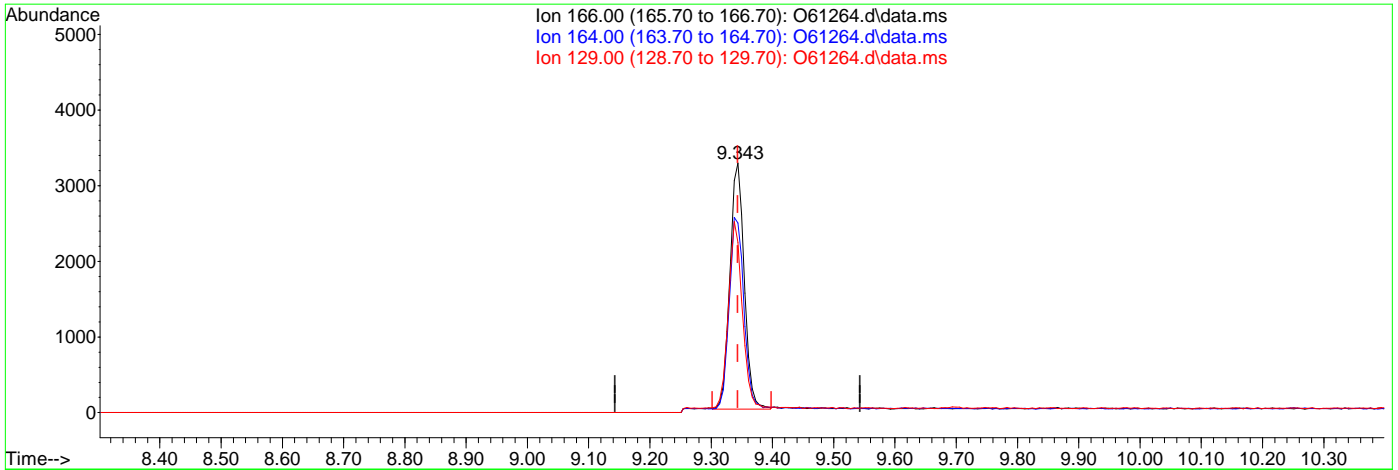
response 5687

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	75.43
129.00	67.50	67.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61264.d  
 Acq On : 12 Sep 2020 3:36 am  
 Operator : stutip  
 Sample : fa78571-13  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 02:55:53 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.28ug/L m

response 5343

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	75.98
129.00	67.50	68.16
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61265.d  
Acq On : 12 Sep 2020 3:57 am  
Operator : stutip  
Sample : fa78571-14  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 14 03:12:59 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	220887	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	173708	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	96895	5.43	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	108.60%	
19) Toluene-d8	8.896	98	191204	4.88	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	97.60%	
Target Compounds						
5) Methylene Chloride	4.703	49	3632	0.08	ug/L	98
7) 1,1-Dichloroethane	5.510	63	1579	0.04	ug/L	91
8) cis-1,2-Dichloroethene	6.066	96	5377	0.27	ug/L	86
9) Chloroform	6.327	83	2677	0.08	ug/L #	62
10) Carbon Tetrachloride	6.505	117	2273	0.09	ug/L	87
15) Trichloroethene	7.518	95	8113	0.39	ug/L	90
-----						

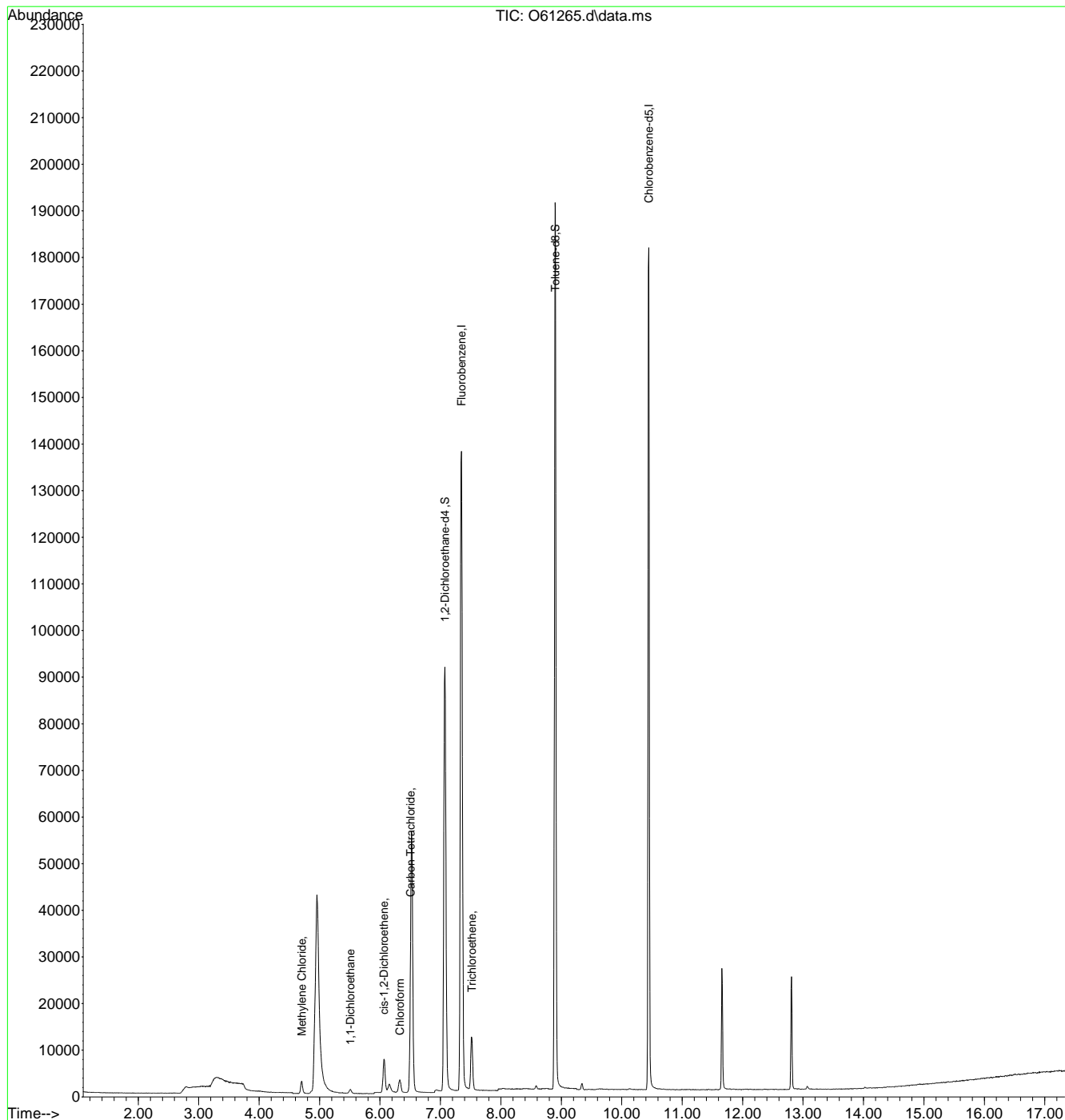
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.14  
7

Quantitation Report (QT Reviewed)

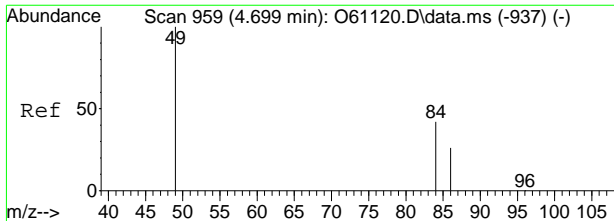
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61265.d  
 Acq On : 12 Sep 2020 3:57 am  
 Operator : stutip  
 Sample : fa78571-14  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 14 03:12:59 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



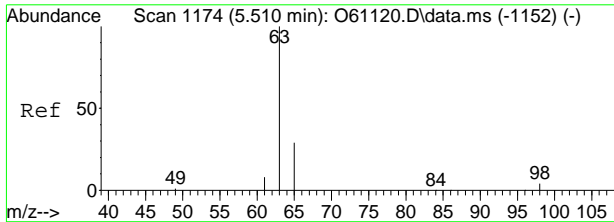
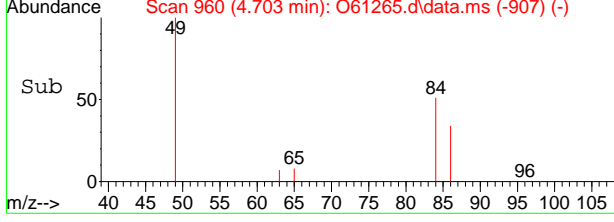
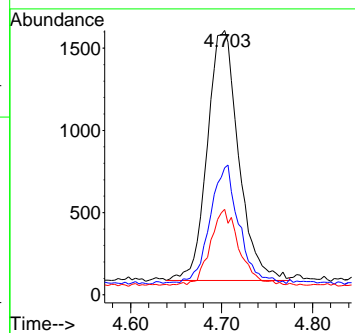
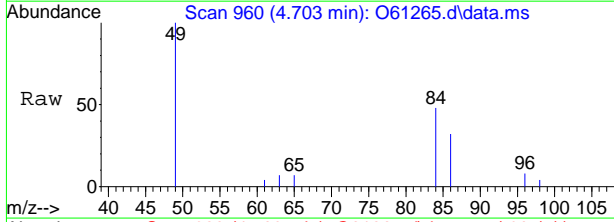
7.1.14  
7





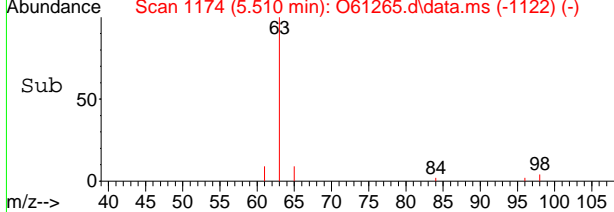
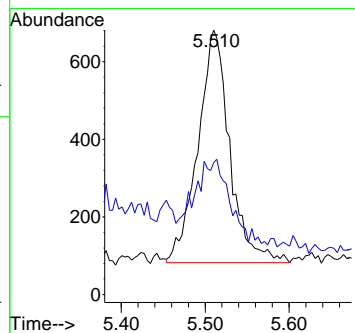
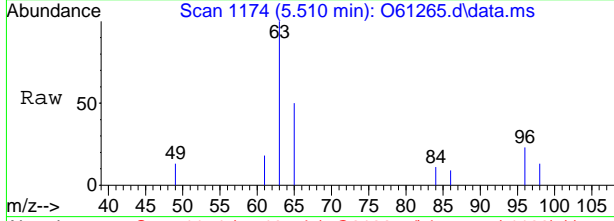
#5  
 Methylene Chloride  
 Concen: 0.08 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.000 min  
 Lab File: O61265.d  
 Acq: 12 Sep 2020 3:57 am

Tgt Ion	Ratio	Lower	Upper
49	100		
84	45.9	17.9	77.9
86	30.1	0.0	59.8

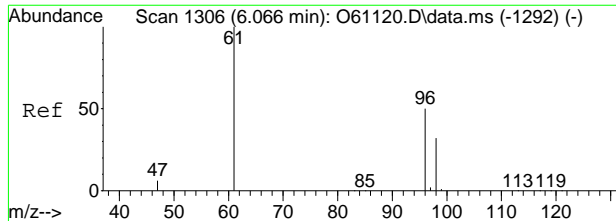


#7  
 1,1-Dichloroethane  
 Concen: 0.04 ug/L  
 RT: 5.510 min Scan# 1174  
 Delta R.T. -0.004 min  
 Lab File: O61265.d  
 Acq: 12 Sep 2020 3:57 am

Tgt Ion	Ratio	Lower	Upper
63	100		
65	35.8	0.7	60.7

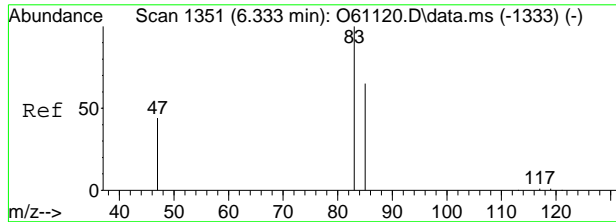
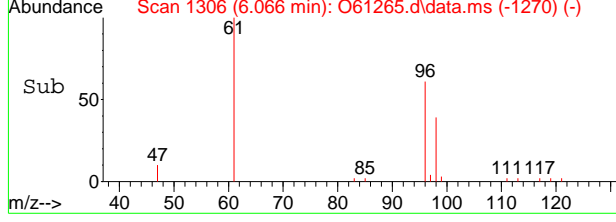
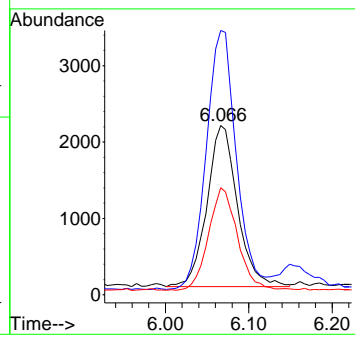
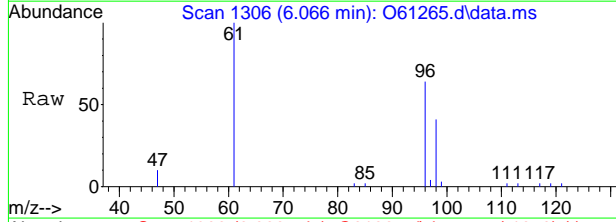


7.1.14  
7



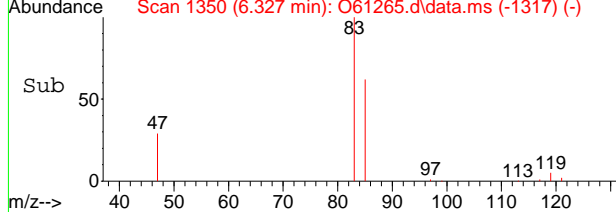
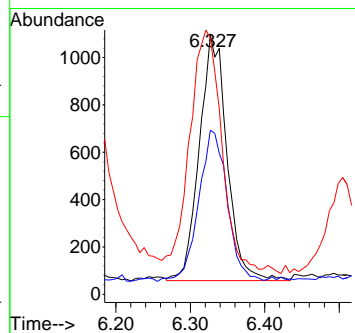
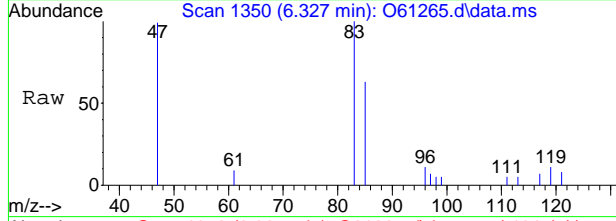
#8  
 cis-1,2-Dichloroethene  
 Concen: 0.27 ug/L  
 RT: 6.066 min Scan# 1306  
 Delta R.T. -0.006 min  
 Lab File: O61265.d  
 Acq: 12 Sep 2020 3:57 am

Tgt Ion	Resp	Lower	Upper
96	5377		
61	160.6	107.0	167.0
98	63.8	34.1	94.1



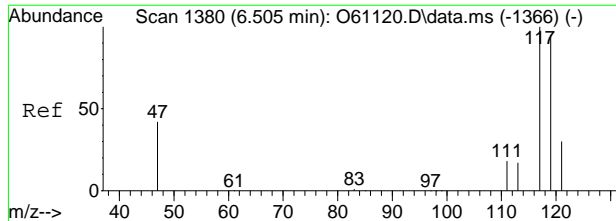
#9  
 Chloroform  
 Concen: 0.08 ug/L  
 RT: 6.327 min Scan# 1350  
 Delta R.T. -0.006 min  
 Lab File: O61265.d  
 Acq: 12 Sep 2020 3:57 am

Tgt Ion	Resp	Lower	Upper
83	2677		
85	60.6	33.0	93.0
47	95.5	8.1	68.1#



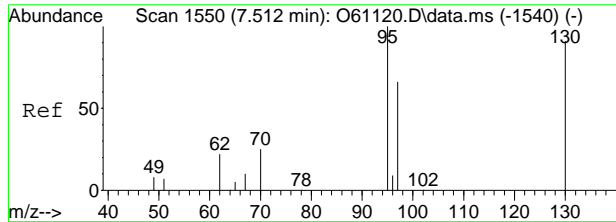
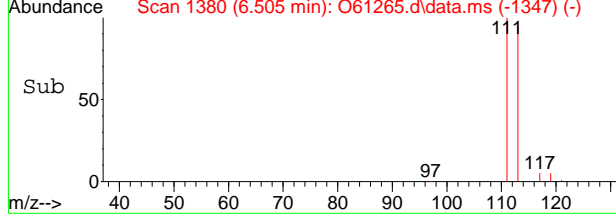
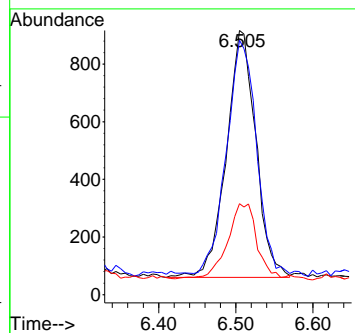
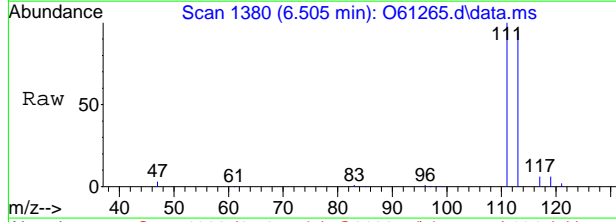
7.1.14  
7





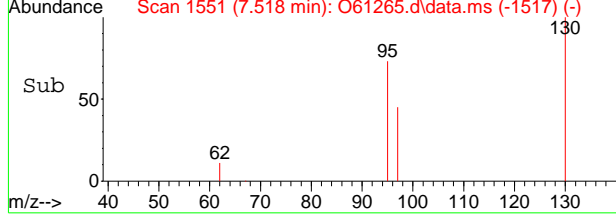
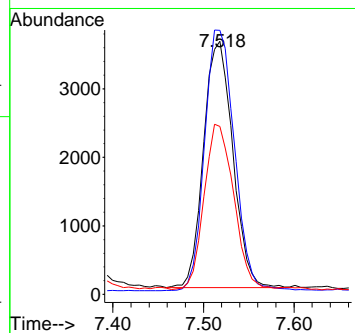
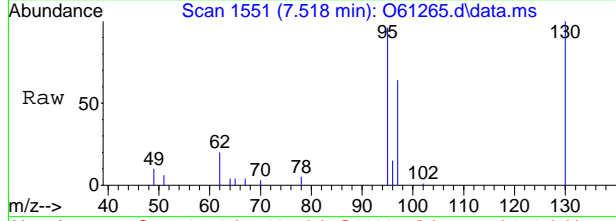
#10  
 Carbon Tetrachloride  
 Concen: 0.09 ug/L  
 RT: 6.505 min Scan# 1380  
 Delta R.T. -0.006 min  
 Lab File: O61265.d  
 Acq: 12 Sep 2020 3:57 am

Tgt Ion	Resp	Lower	Upper
117	2273		
117	100		
119	94.7	80.9	140.9
121	30.0	4.1	64.1



#15  
 Trichloroethene  
 Concen: 0.39 ug/L  
 RT: 7.518 min Scan# 1551  
 Delta R.T. 0.000 min  
 Lab File: O61265.d  
 Acq: 12 Sep 2020 3:57 am

Tgt Ion	Resp	Lower	Upper
95	8113		
95	100		
130	105.5	60.4	120.4
97	65.6	34.6	94.6



7.1.14  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
Data File : O61266.d  
Acq On : 12 Sep 2020 4:17 am  
Operator : stutip  
Sample : fa78571-15  
Misc : MS47191,VO2357,,,,,  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 14 03:13:21 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	217007	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	170113	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	94462	5.39	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	107.80%	
19) Toluene-d8	8.896	98	187361	4.88	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	97.60%	
Target Compounds						
5) Methylene Chloride	4.700	49	4265	0.09	ug/L	96
9) Chloroform	6.333	83	10703	0.31	ug/L	88
10) Carbon Tetrachloride	6.511	117	51702	2.19	ug/L	88
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

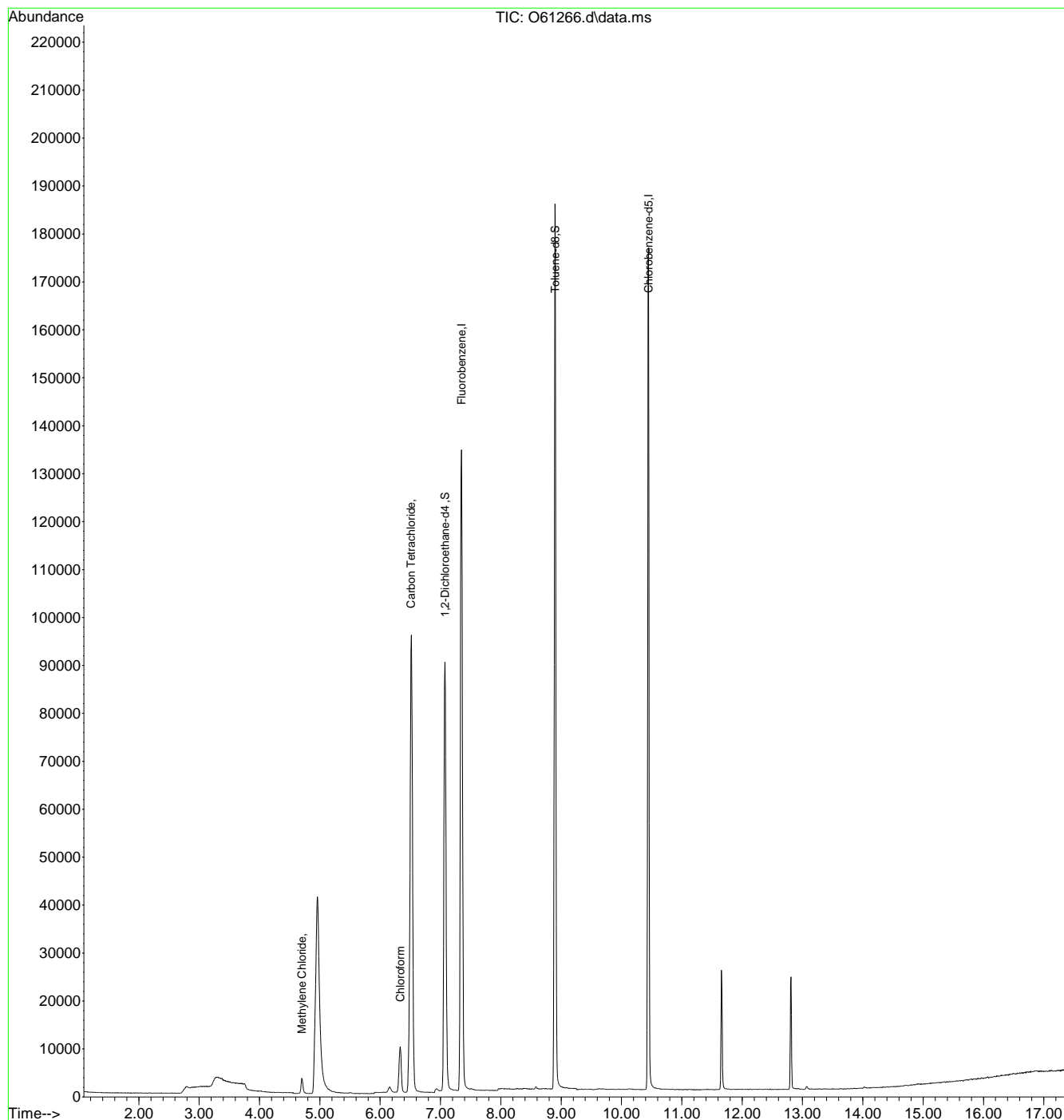
7.1.15  
7



Quantitation Report (QT Reviewed)

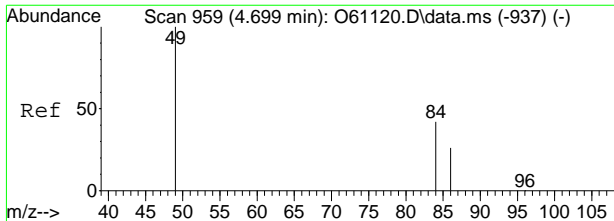
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61266.d  
 Acq On : 12 Sep 2020 4:17 am  
 Operator : stutip  
 Sample : fa78571-15  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 14 03:13:21 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.15  
7

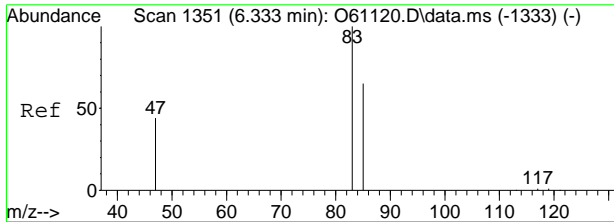
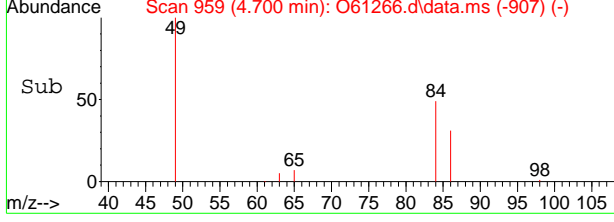
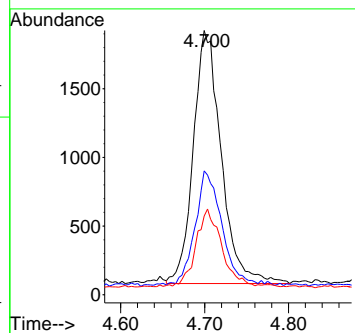
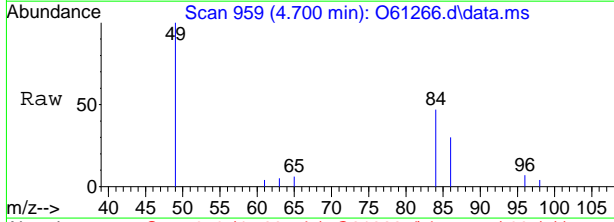




#5  
 Methylene Chloride  
 Concen: 0.09 ug/L  
 RT: 4.700 min Scan# 959  
 Delta R.T. -0.003 min  
 Lab File: O61266.d  
 Acq: 12 Sep 2020 4:17 am

Tgt Ion: 49 Resp: 4265

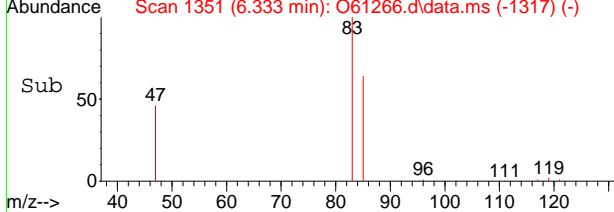
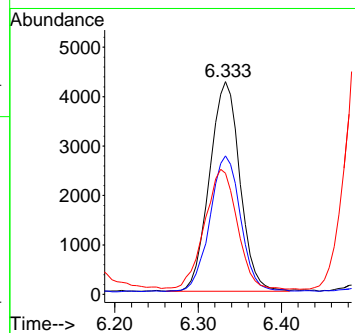
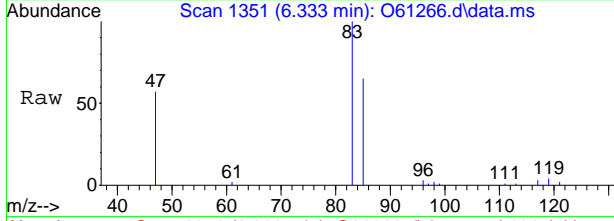
Ion	Ratio	Lower	Upper
49	100		
84	45.0	17.9	77.9
86	27.7	0.0	59.8



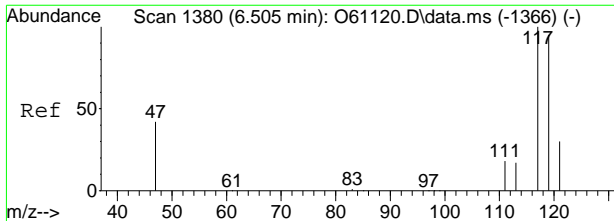
#9  
 Chloroform  
 Concen: 0.31 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61266.d  
 Acq: 12 Sep 2020 4:17 am

Tgt Ion: 83 Resp: 10703

Ion	Ratio	Lower	Upper
83	100		
85	64.5	33.0	93.0
47	55.2	8.1	68.1

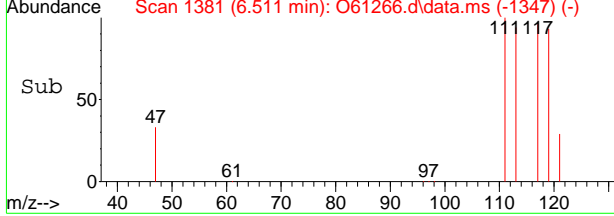
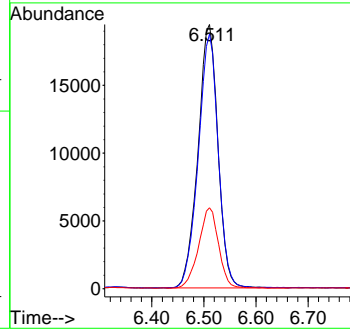
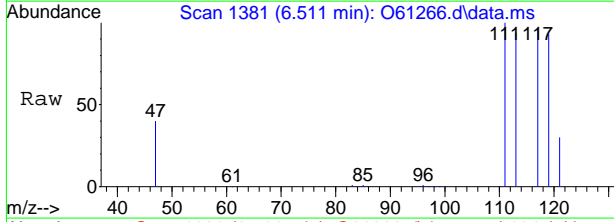


7.1.15  
7



#10  
 Carbon Tetrachloride  
 Concen: 2.19 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. -0.000 min  
 Lab File: O61266.d  
 Acq: 12 Sep 2020 4:17 am

Tgt Ion	Resp	Lower	Upper
117	51702		
117	100		
119	96.3	80.9	140.9
121	30.5	4.1	64.1



7.1.15  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62247.d  
Acq On : 12 Sep 2020 1:47 pm  
Operator : stutip  
Sample : fa78571-16  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 06:27:37 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1929512	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1517908	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	618679	5.18	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.60%
19) Toluene-d8	8.961	98	1863452	5.06	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
Target Compounds						
5) Methylene Chloride	4.717	84	27744	0.14	ppb	Qvalue # 86
9) Chloroform	6.377	83	69134	0.24	ppb	98
10) Carbon Tetrachloride	6.543	117	279803	1.42	ppb	97
-----						

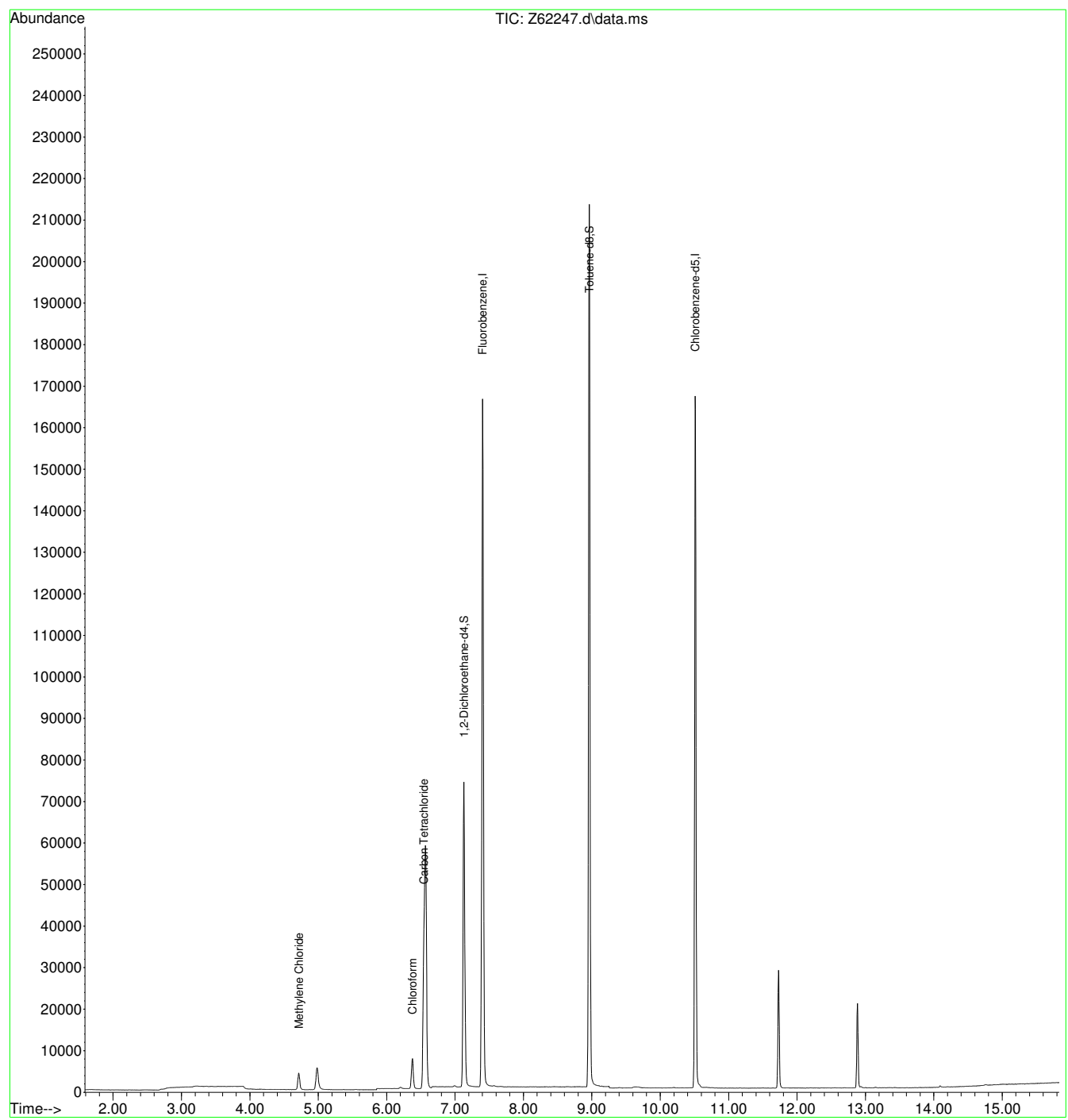
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.16  
7

Quantitation Report (QT Reviewed)

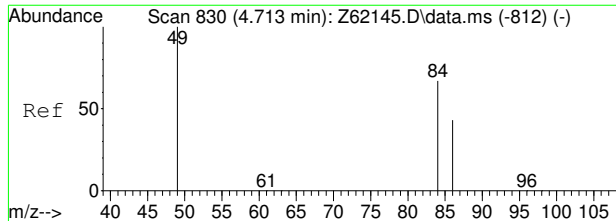
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62247.d  
Acq On : 12 Sep 2020 1:47 pm  
Operator : stutip  
Sample : fa78571-16  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 06:27:37 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.16  
7

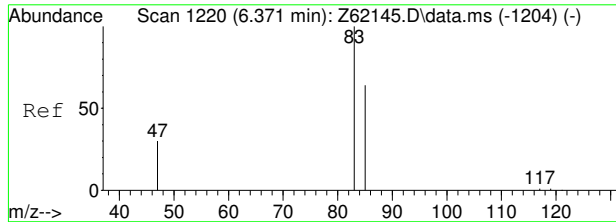
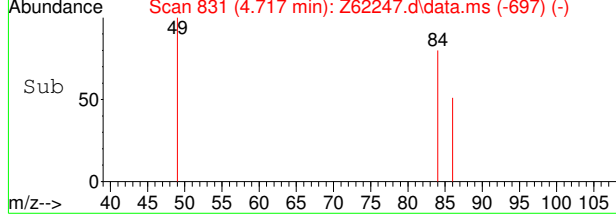
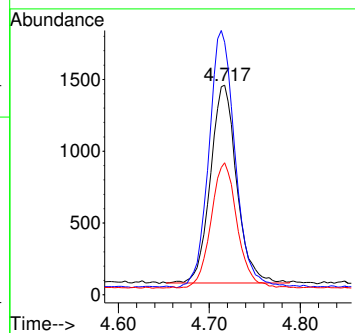
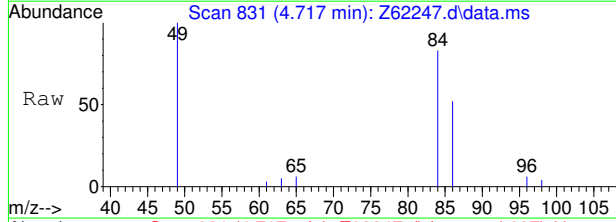




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62247.d  
 Acq: 12 Sep 2020 1:47 pm

Tgt Ion: 84 Resp: 27744

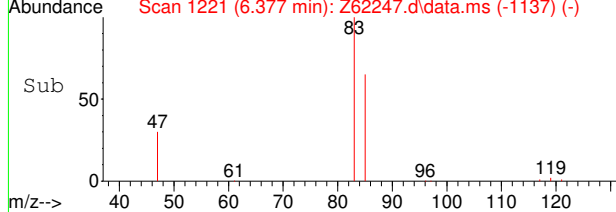
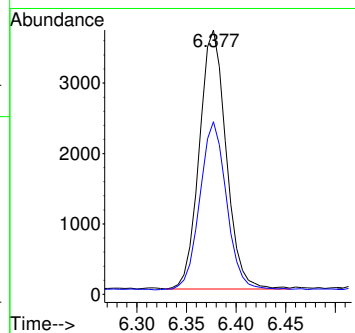
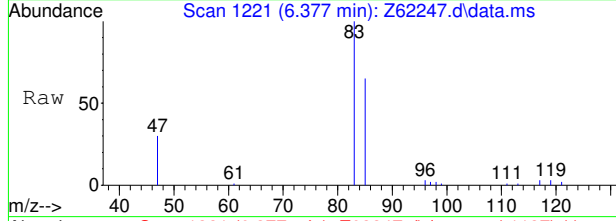
Ion	Ratio	Lower	Upper
84	100		
49	123.2	128.7	168.7#
86	63.1	43.9	83.9



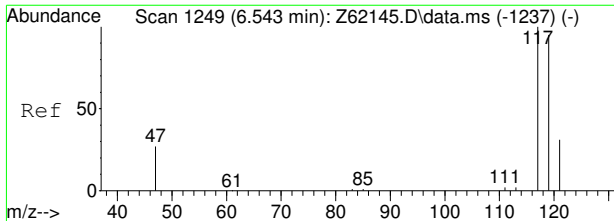
#9  
 Chloroform  
 Concen: 0.24 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62247.d  
 Acq: 12 Sep 2020 1:47 pm

Tgt Ion: 83 Resp: 69134

Ion	Ratio	Lower	Upper
83	100		
85	64.6	46.1	86.1

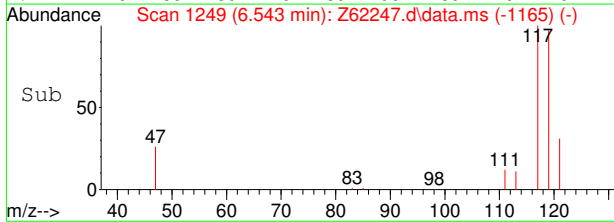
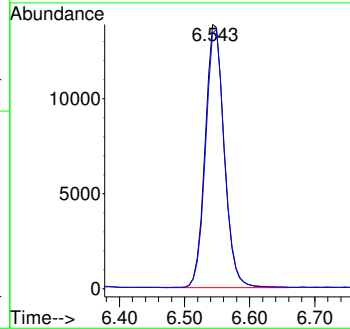
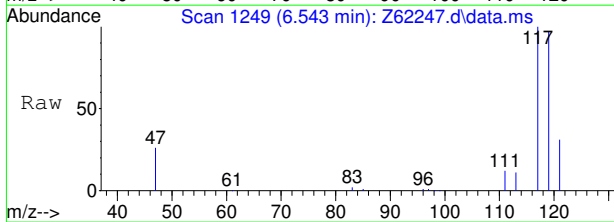


7.1.16  
7



#10  
 Carbon Tetrachloride  
 Concen: 1.42 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. 0.000 min  
 Lab File: Z62247.d  
 Acq: 12 Sep 2020 1:47 pm

Tgt Ion	Resp
117	279803
119	98.0



7.1.16  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2415\  
Data File : Z62248.d  
Acq On : 12 Sep 2020 2:06 pm  
Operator : stutip  
Sample : fa78571-17  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 06:27:41 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1948772	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1545447	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	626169	5.19	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.80%	
19) Toluene-d8	8.961	98	1898905	5.06	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%	
Target Compounds							
5) Methylene Chloride	4.713	84	25969	0.13	ppb		89
9) Chloroform	6.377	83	31349	0.11	ppb		98
10) Carbon Tetrachloride	6.543	117	33370	0.17	ppb		98
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

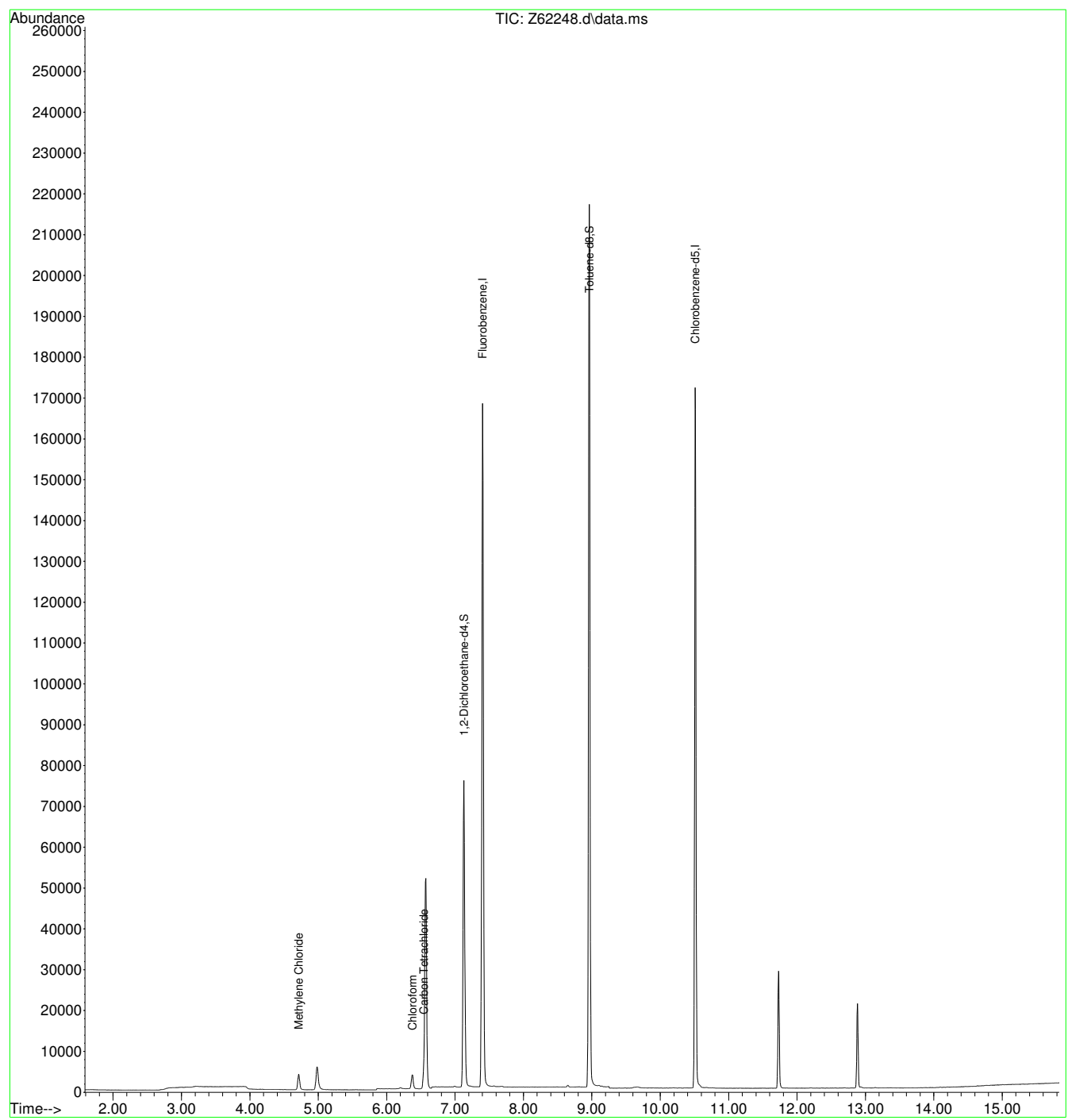
7.1.17  
7



Quantitation Report (QT Reviewed)

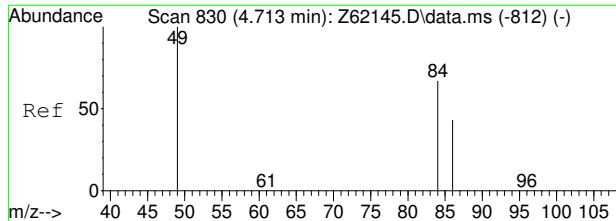
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62248.d  
Acq On : 12 Sep 2020 2:06 pm  
Operator : stutip  
Sample : fa78571-17  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 06:27:41 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



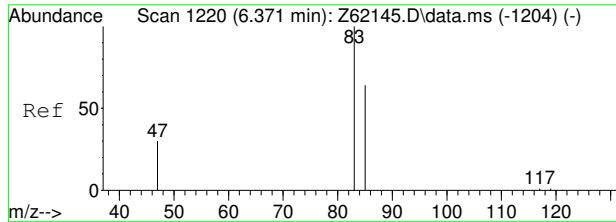
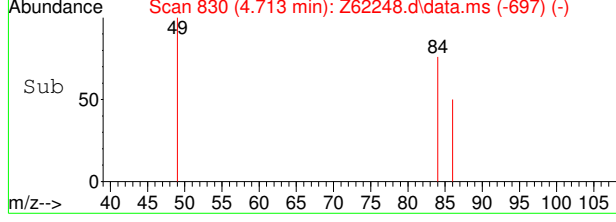
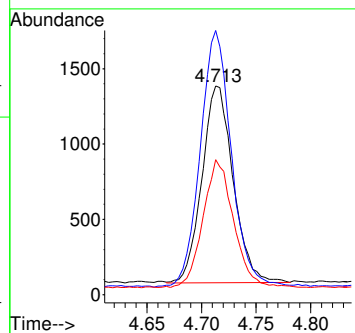
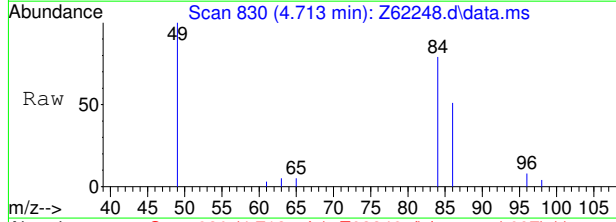
7.1.17  
7





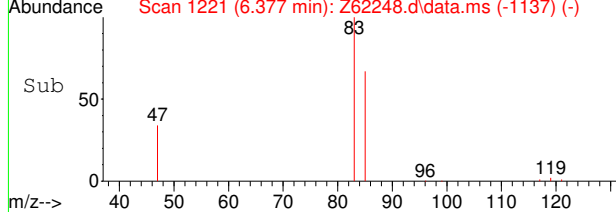
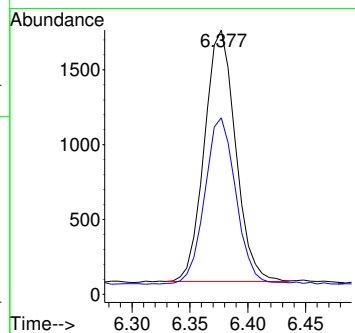
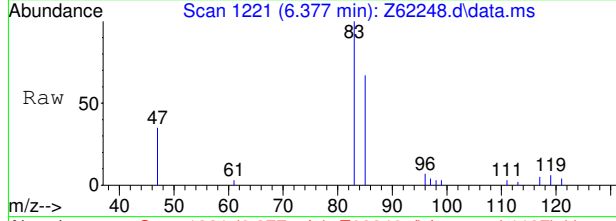
#5  
 Methylene Chloride  
 Concen: 0.13 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62248.d  
 Acq: 12 Sep 2020 2:06 pm

Tgt Ion	Resp	Lower	Upper
84	25969		
49	129.8	128.7	168.7
86	64.6	43.9	83.9

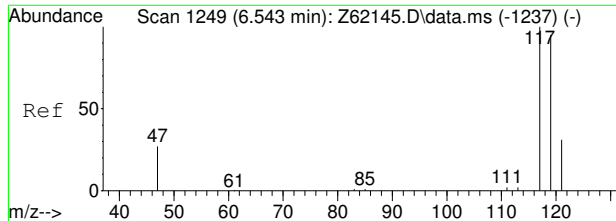


#9  
 Chloroform  
 Concen: 0.11 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62248.d  
 Acq: 12 Sep 2020 2:06 pm

Tgt Ion	Resp	Lower	Upper
83	31349		
83	100		
85	67.3	46.1	86.1

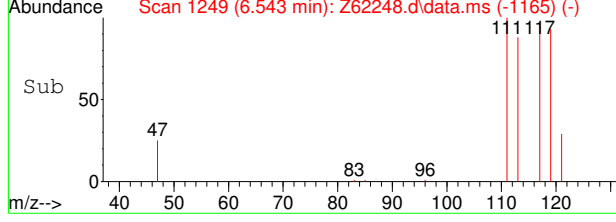
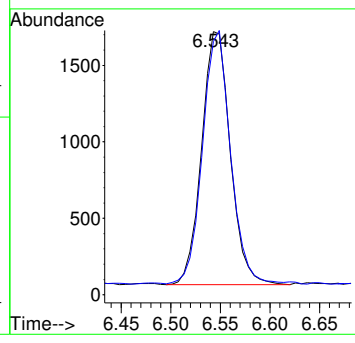
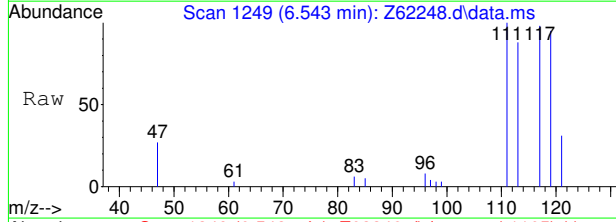


7.1.17



#10  
Carbon Tetrachloride  
Concen: 0.17 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62248.d  
Acq: 12 Sep 2020 2:06 pm

Tgt Ion	Resp	Lower	Upper
117	33370		
117	100		
119	97.8	75.5	115.5



7.1.17  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2415\  
Data File : Z62249.d  
Acq On : 12 Sep 2020 2:25 pm  
Operator : stutip  
Sample : fa78571-18  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 06:27:47 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Fluorobenzene	7.401	96	1889628	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1501530	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	604328	5.17	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.40%
19) Toluene-d8	8.961	98	1844130	5.06	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
Target Compounds						
5) Methylene Chloride	4.713	84	25076	0.13	ppb	Qvalue # 89

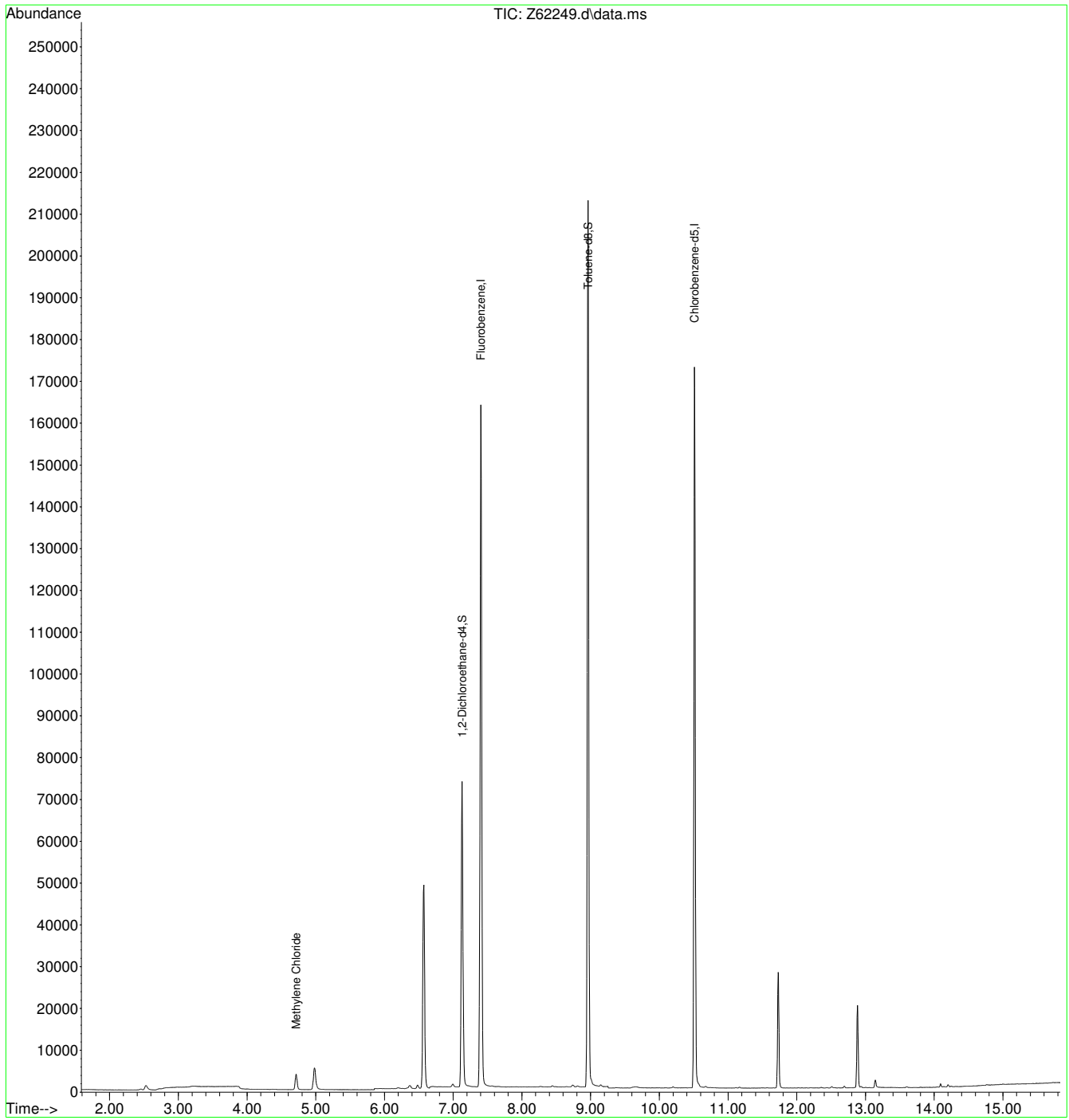
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.18  
7

Quantitation Report (QT Reviewed)

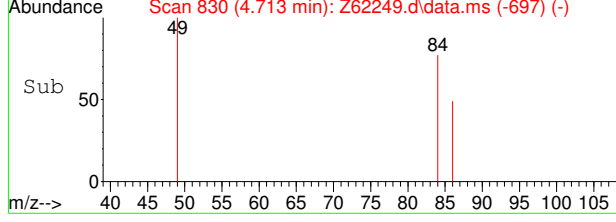
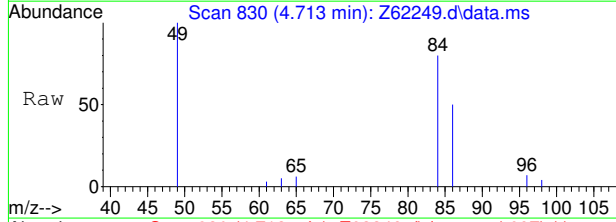
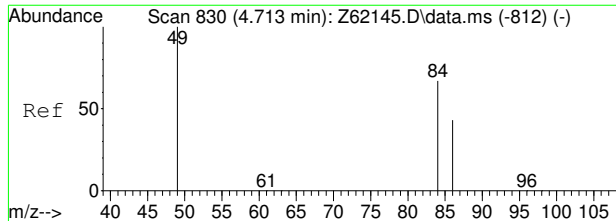
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62249.d  
Acq On : 12 Sep 2020 2:25 pm  
Operator : stutip  
Sample : fa78571-18  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 06:27:47 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



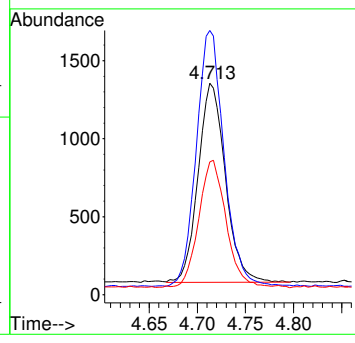
7.1.18  
7





#5  
 Methylene Chloride  
 Concen: 0.13 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62249.d  
 Acq: 12 Sep 2020 2:25 pm

Tgt Ion	Resp	Lower	Upper
84	25076		
84	100		
49	128.6	128.7	168.7#
86	63.1	43.9	83.9



7.1.18  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62250.d  
Acq On : 12 Sep 2020 2:44 pm  
Operator : stutip  
Sample : fa78571-19  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 06:27:51 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1752541	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1388998	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	571055	5.27	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	105.40%
19) Toluene-d8	8.961	98	1716832	5.09	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
Target Compounds						
5) Methylene Chloride	4.717	84	23400	0.13	ppb	Qvalue # 83
7) 1,1-Dichloroethane	5.546	63	13546	0.06	ppb	# 98
8) cis-1,2-Dichloroethene	6.110	96	133133	0.93	ppb	93
9) Chloroform	6.377	83	67604	0.26	ppb	98
10) Carbon Tetrachloride	6.549	117	17911	0.10	ppb	99
15) Trichloroethene	7.571	95	1461707	9.77	ppb	88
21) Tetrachloroethene	9.399	166	170204	1.03	ppb	99

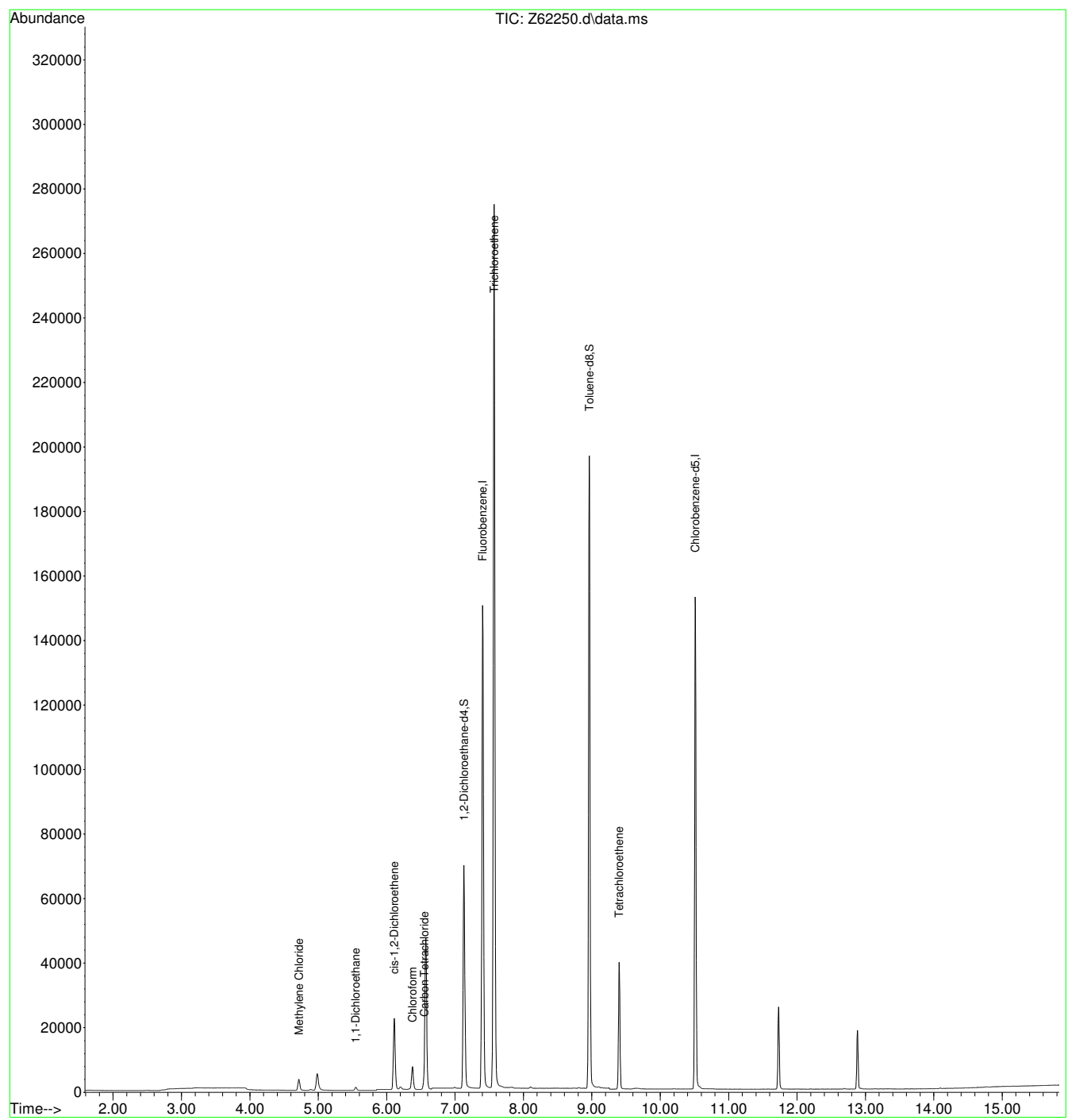
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.19  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62250.d  
Acq On : 12 Sep 2020 2:44 pm  
Operator : stutip  
Sample : fa78571-19  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 14 Sample Multiplier: 1

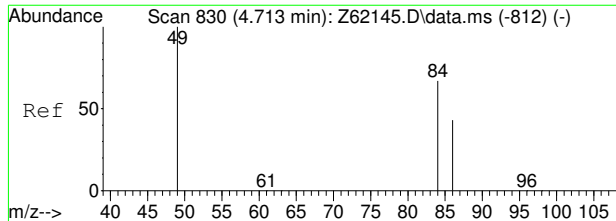
Quant Time: Sep 14 06:27:51 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.19  
7



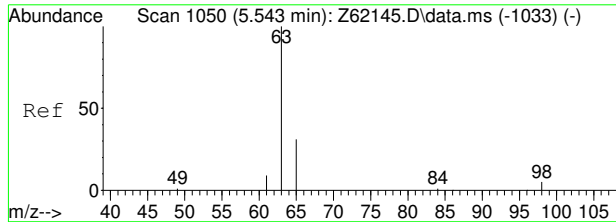
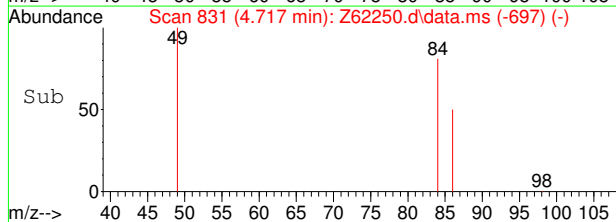
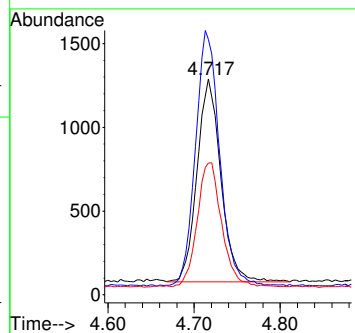
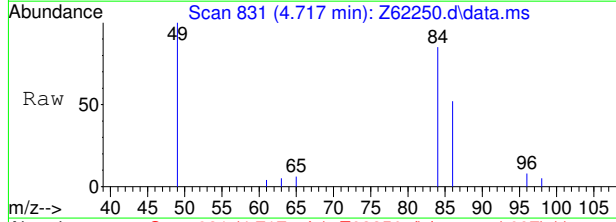




#5  
 Methylene Chloride  
 Concen: 0.13 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62250.d  
 Acq: 12 Sep 2020 2:44 pm

Tgt Ion: 84 Resp: 23400

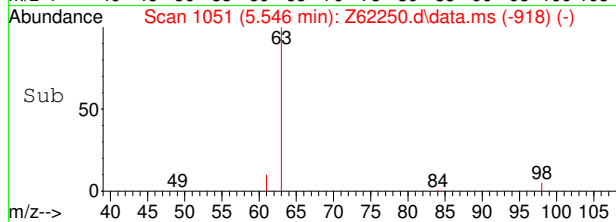
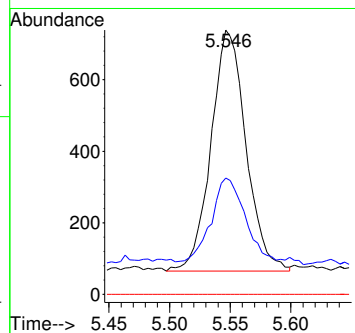
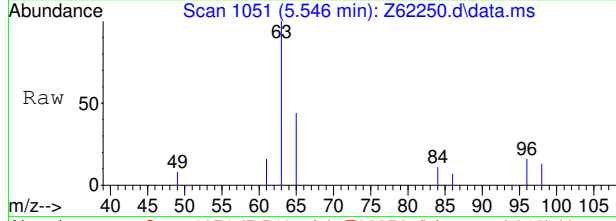
Ion	Ratio	Lower	Upper
84	100		
49	121.0	128.7	168.7#
86	60.8	43.9	83.9



#7  
 1,1-Dichloroethane  
 Concen: 0.06 ppb  
 RT: 5.546 min Scan# 1051  
 Delta R.T. 0.000 min  
 Lab File: Z62250.d  
 Acq: 12 Sep 2020 2:44 pm

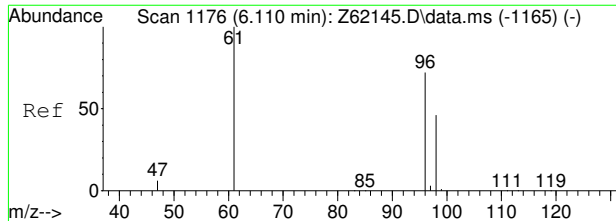
Tgt Ion: 63 Resp: 13546

Ion	Ratio	Lower	Upper
63	100		
65	32.5	11.3	51.3
83	0.0	0.0	30.0



7.1.19  
7

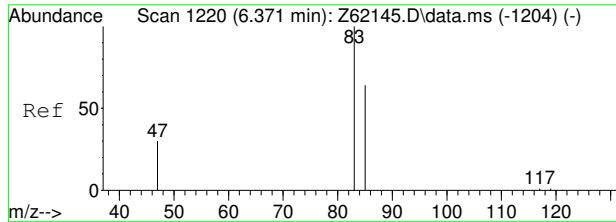
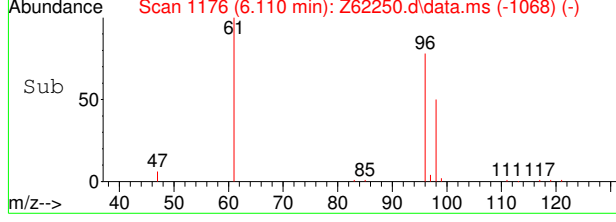
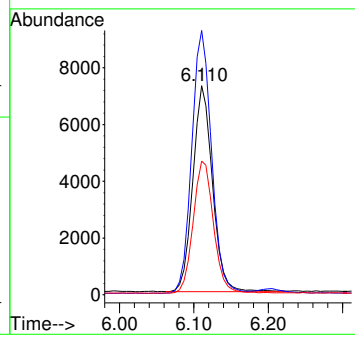
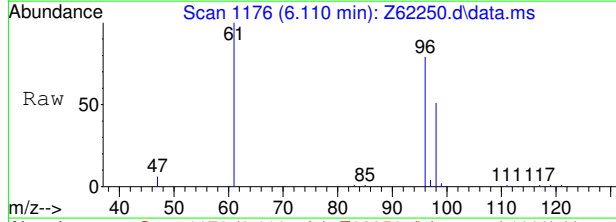




#8  
 cis-1,2-Dichloroethene  
 Concen: 0.93 ppb  
 RT: 6.110 min Scan# 1176  
 Delta R.T. 0.000 min  
 Lab File: Z62250.d  
 Acq: 12 Sep 2020 2:44 pm

Tgt Ion: 96 Resp: 133133

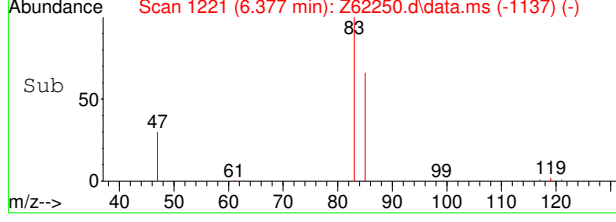
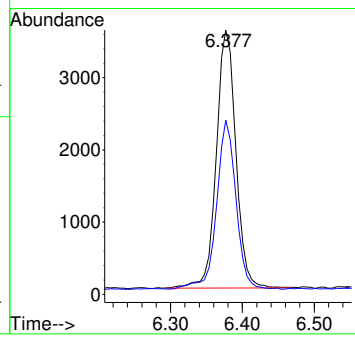
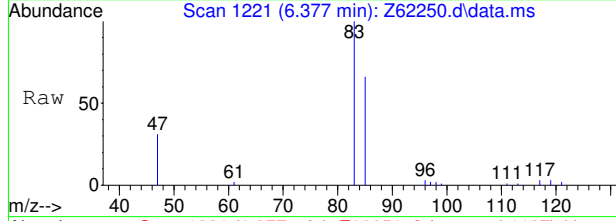
Ion	Ratio	Lower	Upper
96	100		
61	127.6	119.3	159.3
98	64.1	44.5	84.5



#9  
 Chloroform  
 Concen: 0.26 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62250.d  
 Acq: 12 Sep 2020 2:44 pm

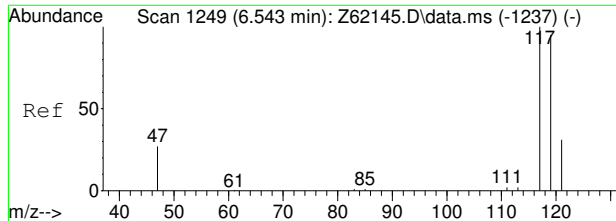
Tgt Ion: 83 Resp: 67604

Ion	Ratio	Lower	Upper
83	100		
85	64.7	46.1	86.1



7.1.19  
7

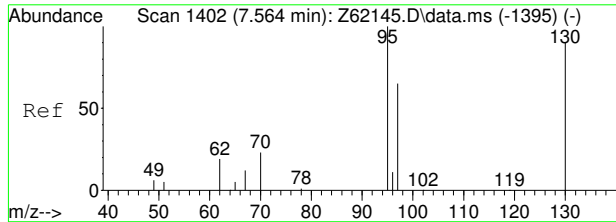
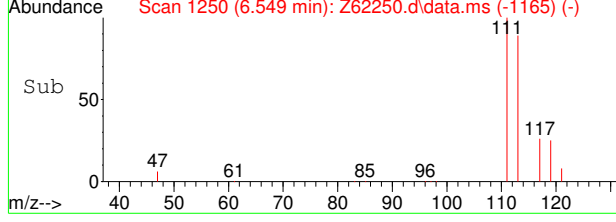
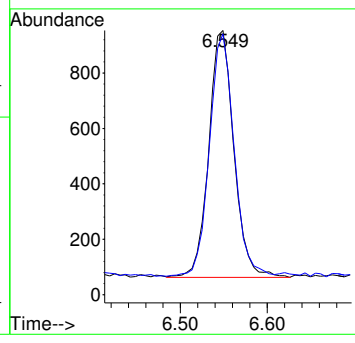
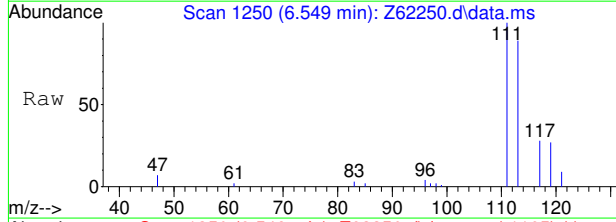




#10  
 Carbon Tetrachloride  
 Concen: 0.10 ppb  
 RT: 6.549 min Scan# 1250  
 Delta R.T. 0.006 min  
 Lab File: Z62250.d  
 Acq: 12 Sep 2020 2:44 pm

Tgt Ion: 117 Resp: 17911

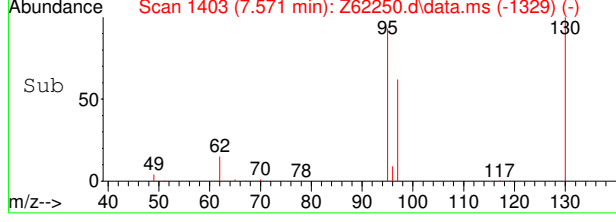
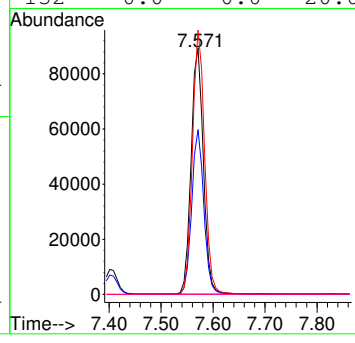
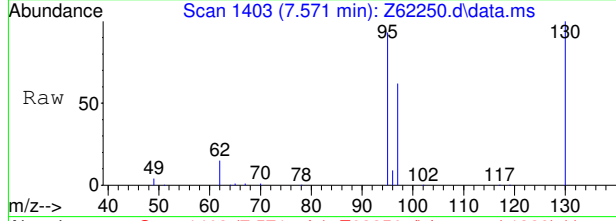
Ion	Ratio	Lower	Upper
117	100		
119	96.1	75.5	115.5



#15  
 Trichloroethene  
 Concen: 9.77 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62250.d  
 Acq: 12 Sep 2020 2:44 pm

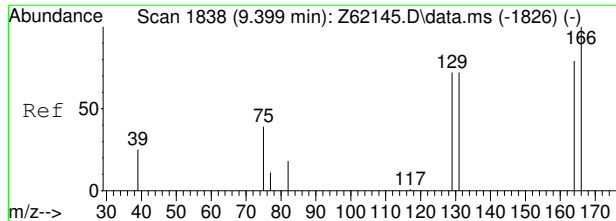
Tgt Ion: 95 Resp: 1461707

Ion	Ratio	Lower	Upper
95	100		
97	66.9	44.5	84.5
130	107.3	69.7	109.7
132	0.0	0.0	20.0



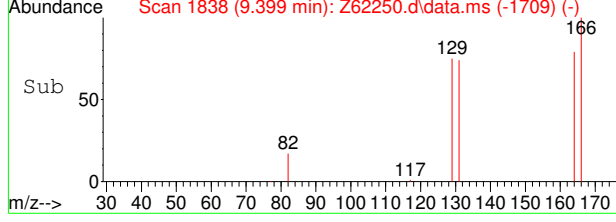
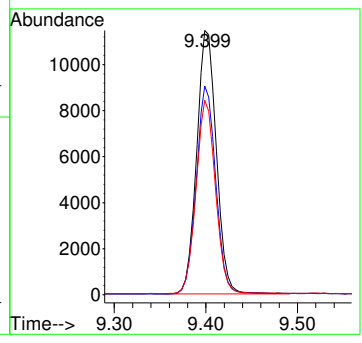
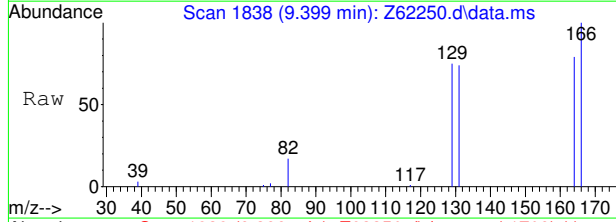
7.1.19  
7





#21  
 Tetrachloroethene  
 Concen: 1.03 ppb  
 RT: 9.399 min Scan# 1838  
 Delta R.T. -0.000 min  
 Lab File: Z62250.d  
 Acq: 12 Sep 2020 2:44 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.9	58.7	98.7
131	73.3	51.6	91.6



7.1.19  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62251.d  
Acq On : 12 Sep 2020 3:04 pm  
Operator : stutip  
Sample : fa78571-20  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 06:27:54 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1869808	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1482729	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	607894	5.26	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	105.20%	
19) Toluene-d8	8.961	98	1831707	5.09	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%	
Target Compounds							
							Qvalue
5) Methylene Chloride	4.713	84	25385	0.14	ppb		91
7) 1,1-Dichloroethane	5.546	63	13204	0.06	ppb	#	96
8) cis-1,2-Dichloroethene	6.110	96	129529	0.84	ppb		95
9) Chloroform	6.377	83	66074	0.24	ppb		100
10) Carbon Tetrachloride	6.543	117	16716	0.09	ppb		98
15) Trichloroethene	7.571	95	1415159	8.86	ppb	#	86
21) Tetrachloroethene	9.399	166	165456	0.94	ppb		98

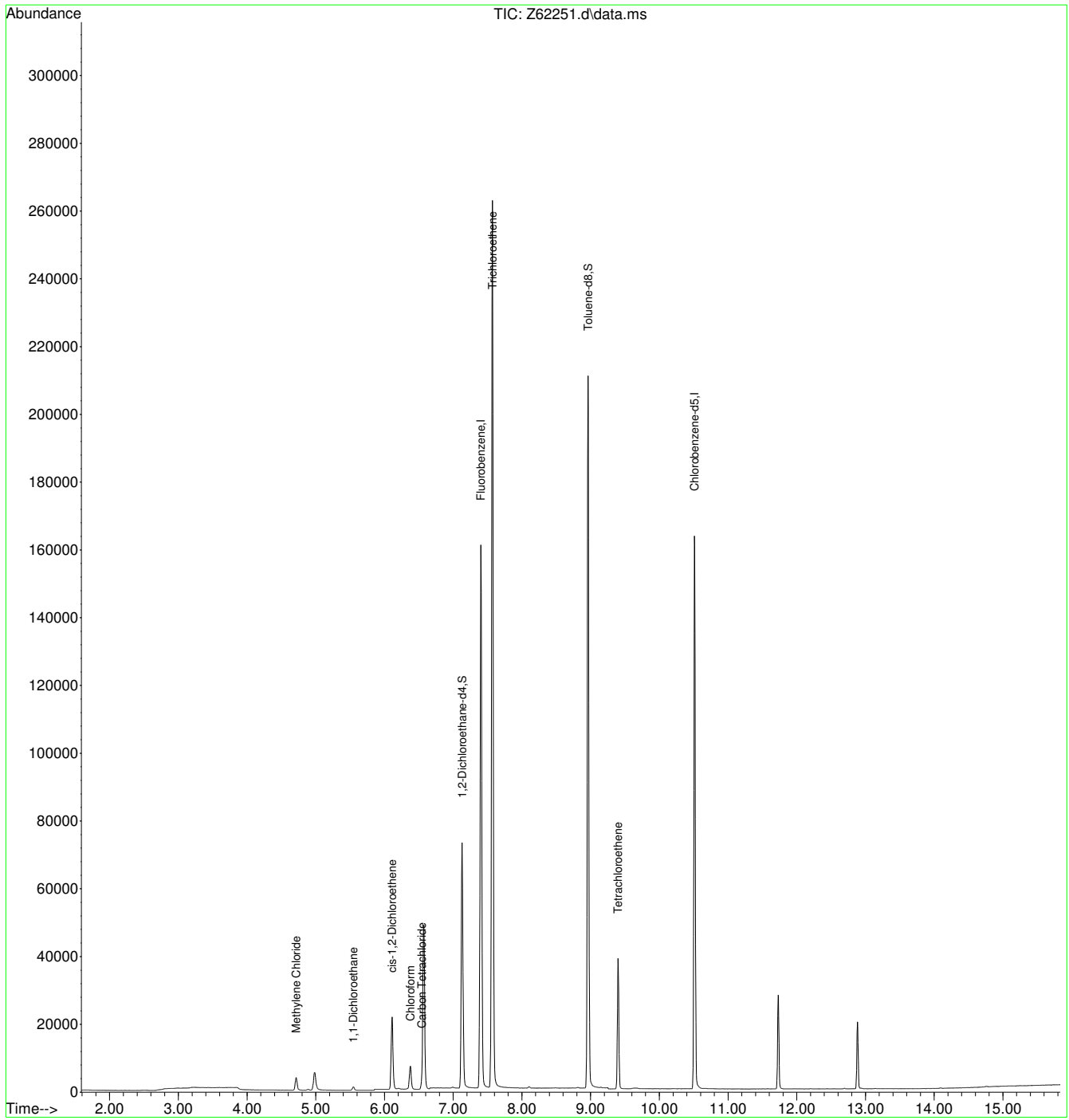
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.20  
7

Quantitation Report (QT Reviewed)

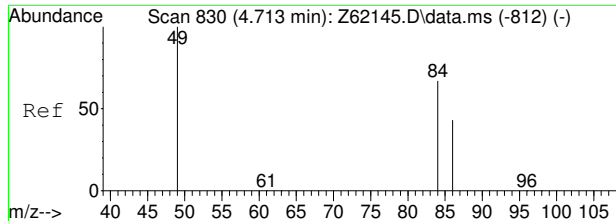
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62251.d  
Acq On : 12 Sep 2020 3:04 pm  
Operator : stutip  
Sample : fa78571-20  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 06:27:54 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.20  
7

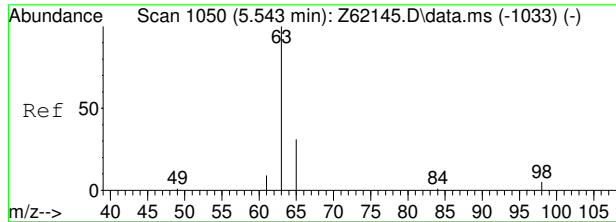
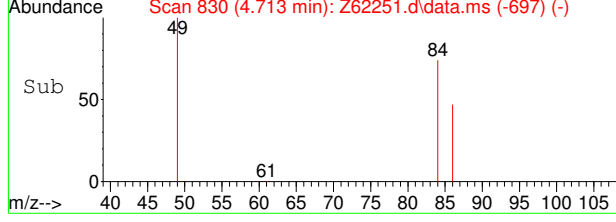
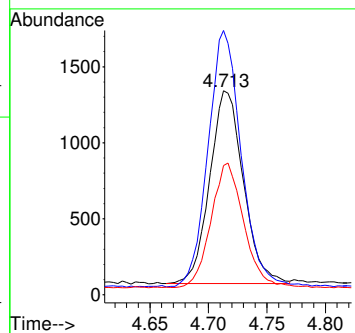
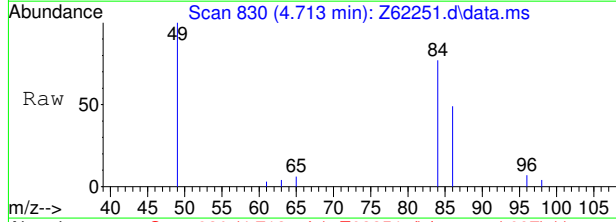




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62251.d  
 Acq: 12 Sep 2020 3:04 pm

Tgt Ion: 84 Resp: 25385

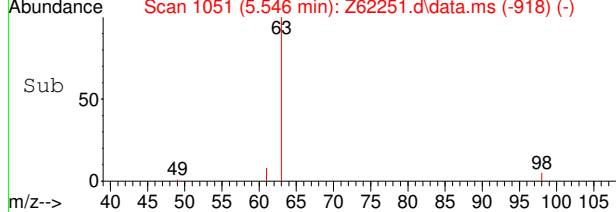
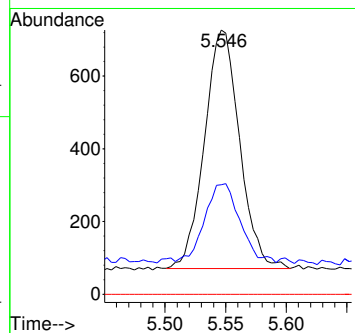
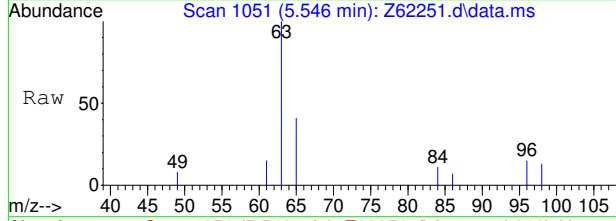
Ion	Ratio	Lower	Upper
84	100		
49	133.1	128.7	168.7
86	63.1	43.9	83.9



#7  
 1,1-Dichloroethane  
 Concen: 0.06 ppb  
 RT: 5.546 min Scan# 1051  
 Delta R.T. 0.000 min  
 Lab File: Z62251.d  
 Acq: 12 Sep 2020 3:04 pm

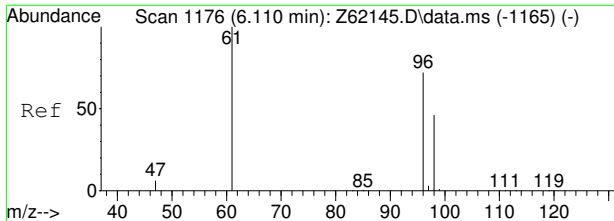
Tgt Ion: 63 Resp: 13204

Ion	Ratio	Lower	Upper
63	100		
65	33.3	11.3	51.3
83	0.0	0.0	30.0



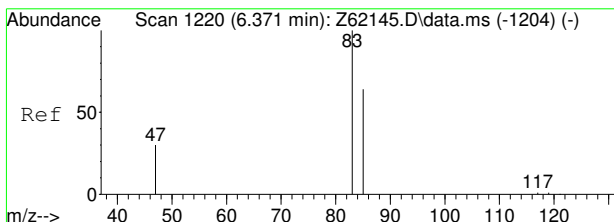
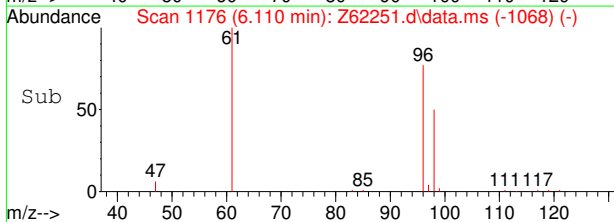
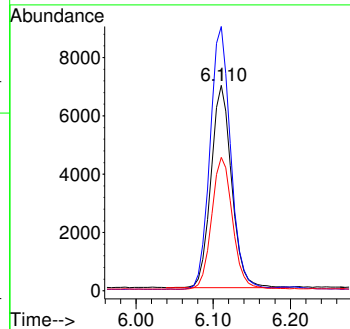
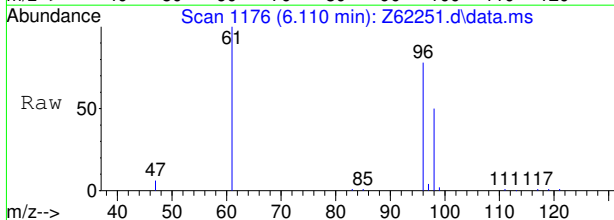
7.1.20  
7





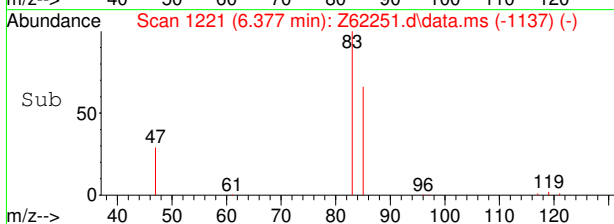
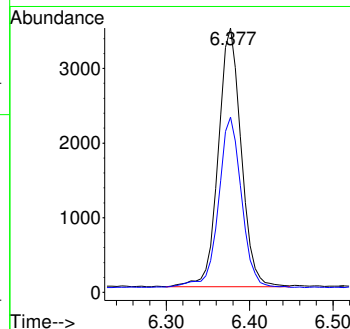
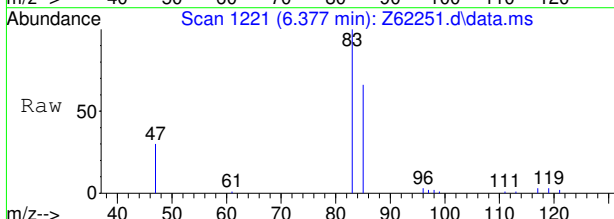
#8  
 cis-1,2-Dichloroethene  
 Concen: 0.84 ppb  
 RT: 6.110 min Scan# 1176  
 Delta R.T. 0.000 min  
 Lab File: Z62251.d  
 Acq: 12 Sep 2020 3:04 pm

Tgt Ion	Resp	Lower	Upper
96	129529		
96	100		
61	130.0	119.3	159.3
98	65.0	44.5	84.5



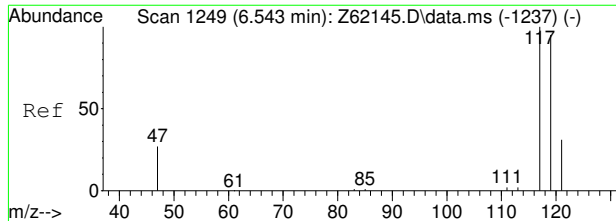
#9  
 Chloroform  
 Concen: 0.24 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62251.d  
 Acq: 12 Sep 2020 3:04 pm

Tgt Ion	Resp	Lower	Upper
83	66074		
83	100		
85	66.1	46.1	86.1



7.1.20  
7

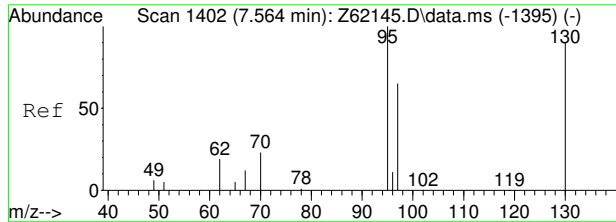
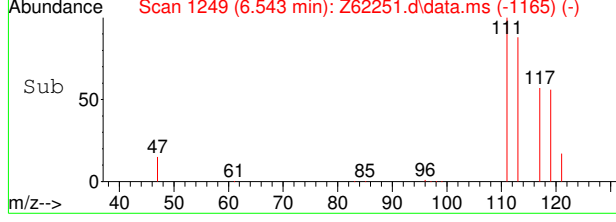
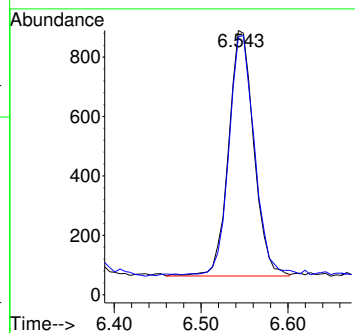
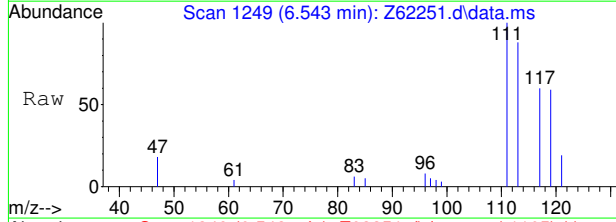




#10  
 Carbon Tetrachloride  
 Concen: 0.09 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62251.d  
 Acq: 12 Sep 2020 3:04 pm

Tgt Ion: 117 Resp: 16716

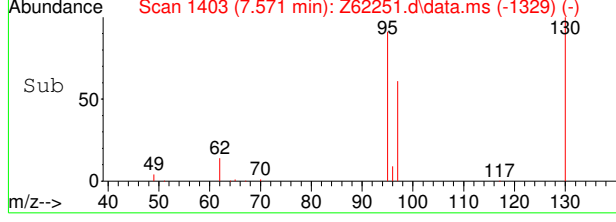
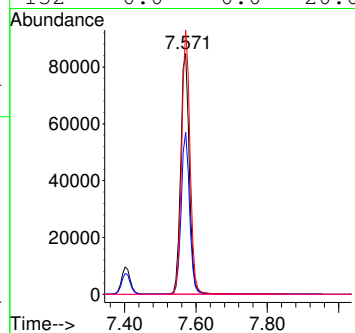
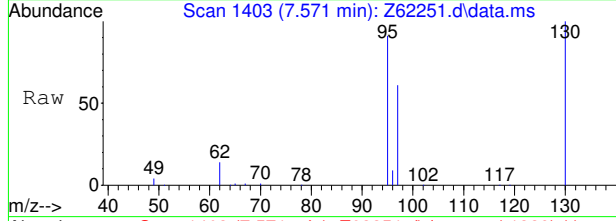
Ion	Ratio	Lower	Upper
117	100		
119	97.8	75.5	115.5



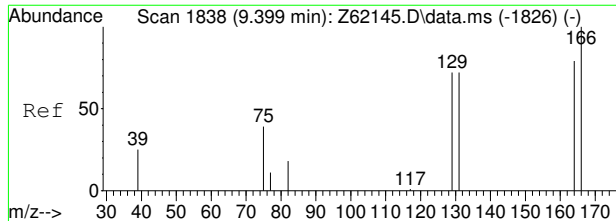
#15  
 Trichloroethene  
 Concen: 8.86 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62251.d  
 Acq: 12 Sep 2020 3:04 pm

Tgt Ion: 95 Resp: 1415159

Ion	Ratio	Lower	Upper
95	100		
97	67.3	44.5	84.5
130	109.8	69.7	109.7#
132	0.0	0.0	20.0

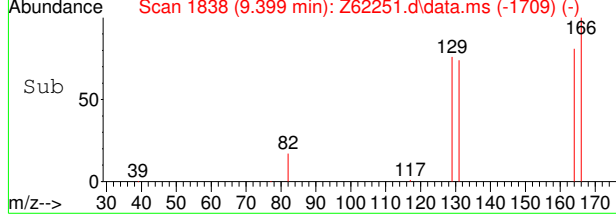
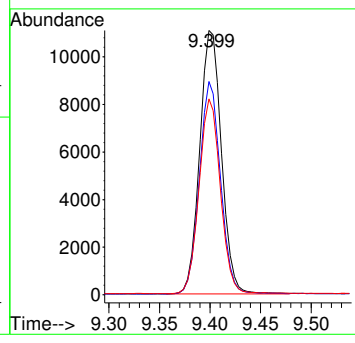
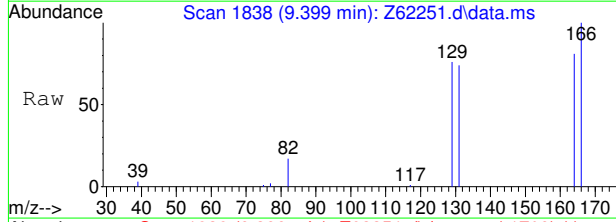


7.1.20  
7



#21  
 Tetrachloroethene  
 Concen: 0.94 ppb  
 RT: 9.399 min Scan# 1838  
 Delta R.T. -0.000 min  
 Lab File: Z62251.d  
 Acq: 12 Sep 2020 3:04 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	80.6	58.7	98.7
131	73.9	51.6	91.6



7.1.20  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
Data File : Z62252.D  
Acq On : 12 Sep 2020 3:23 pm  
Operator : stutip  
Sample : fa78571-21  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 13:39:18 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1832083	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1453974	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	601329	5.31	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	106.20%
19) Toluene-d8	8.961	98	1788743	5.07	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
Target Compounds						
5) Methylene Chloride	4.717	84	25024	0.14	ppb	Qvalue # 88
8) cis-1,2-Dichloroethene	6.110	96	62216	0.41	ppb	94
9) Chloroform	6.377	83	44553	0.16	ppb	97
15) Trichloroethene	7.571	95	342670	2.19	ppb	86
21) Tetrachloroethene	9.399	166	81120	0.47	ppb	99
-----						

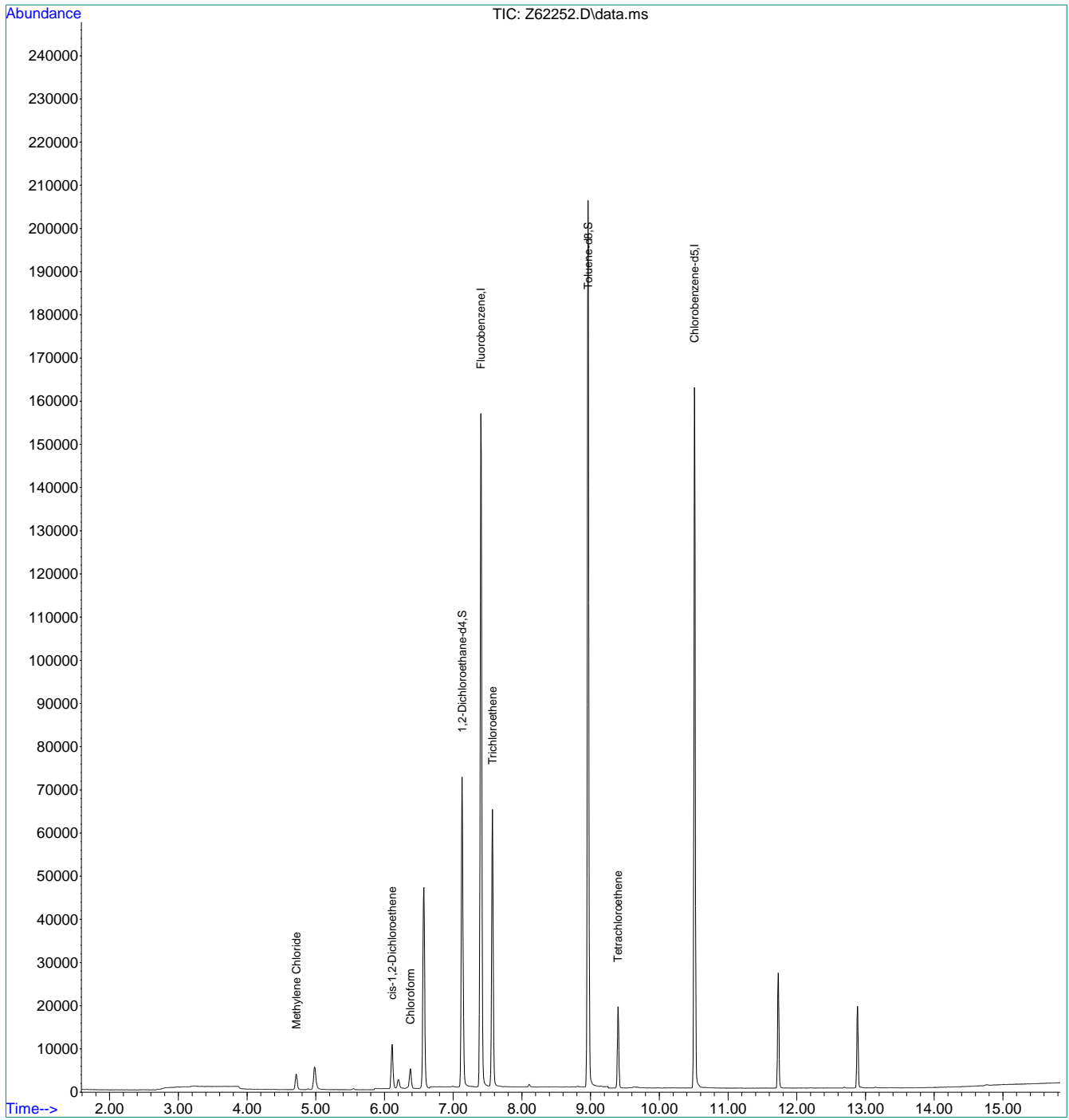
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.21  
7

Quantitation Report (QT Reviewed)

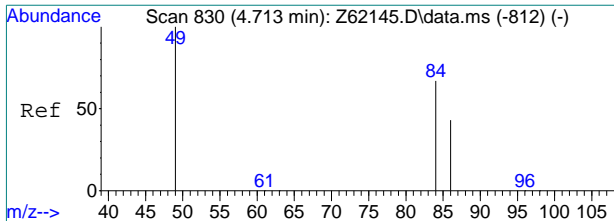
Data Path : C:\msdchem\1\data\091220\  
Data File : Z62252.D  
Acq On : 12 Sep 2020 3:23 pm  
Operator : stutip  
Sample : fa78571-21  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 13:39:18 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.21  
7

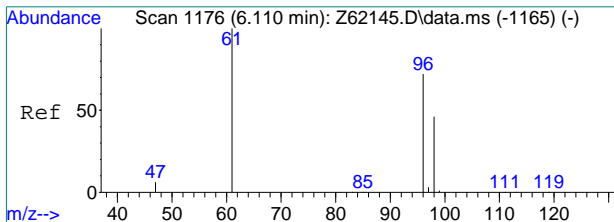
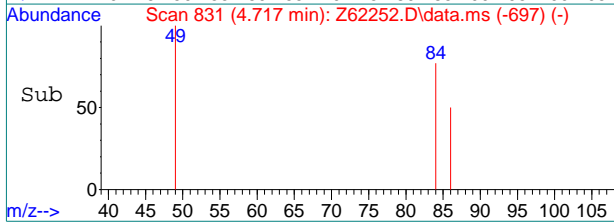
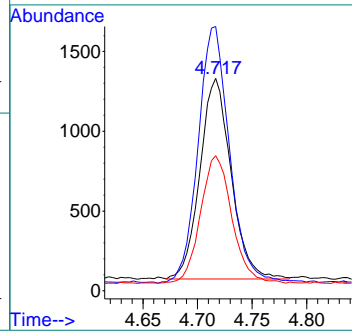
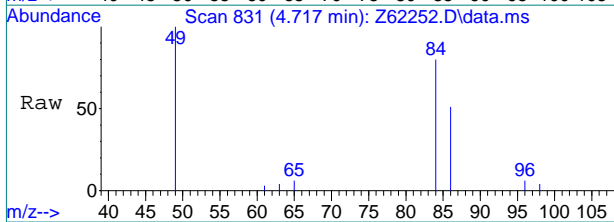




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62252.D  
 Acq: 12 Sep 2020 3:23 pm

Tgt Ion: 84 Resp: 25024

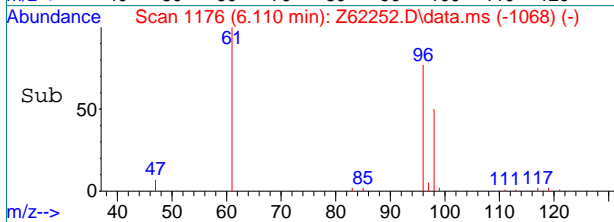
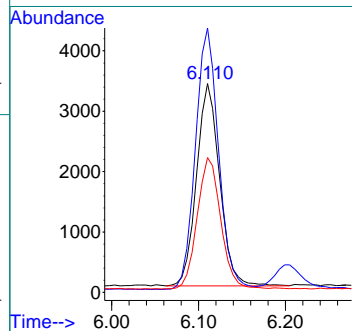
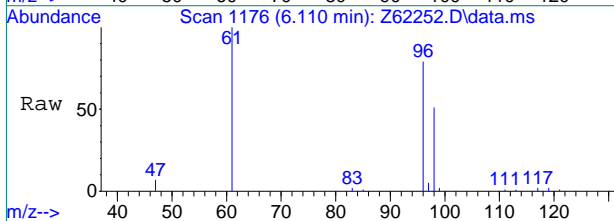
Ion	Ratio	Lower	Upper
84	100		
49	127.3	128.7	168.7#
86	63.1	43.9	83.9



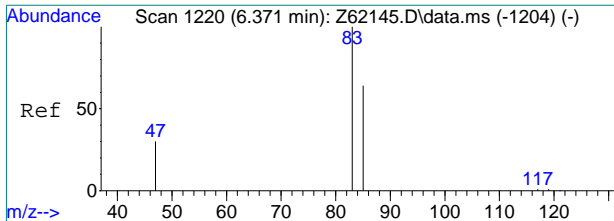
#8  
 cis-1,2-Dichloroethene  
 Concen: 0.41 ppb  
 RT: 6.110 min Scan# 1176  
 Delta R.T. 0.000 min  
 Lab File: Z62252.D  
 Acq: 12 Sep 2020 3:23 pm

Tgt Ion: 96 Resp: 62216

Ion	Ratio	Lower	Upper
96	100		
61	129.1	119.3	159.3
98	64.8	44.5	84.5

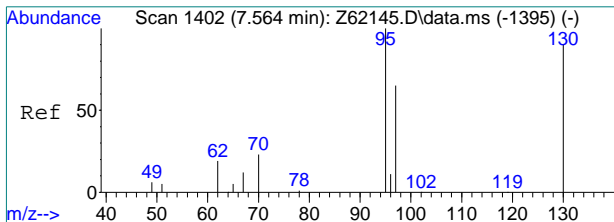
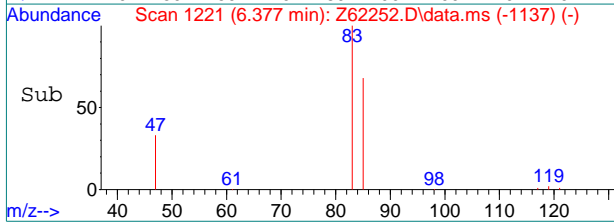
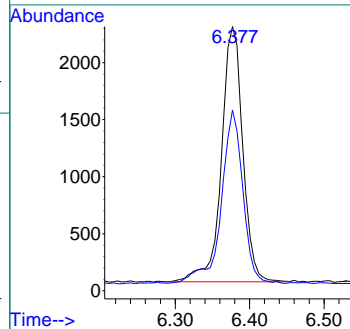
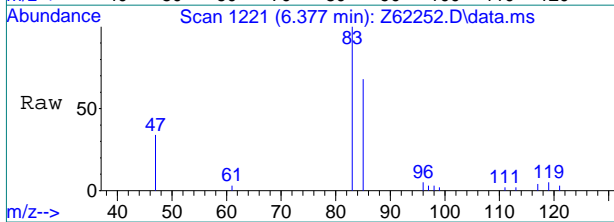


7.1.21  
7



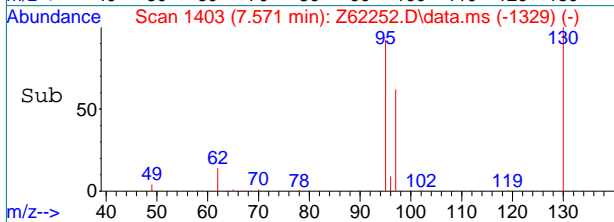
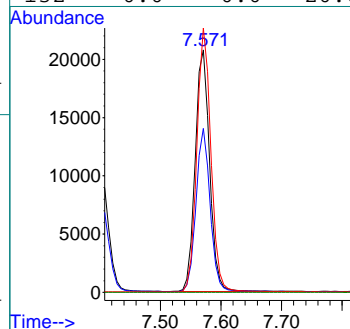
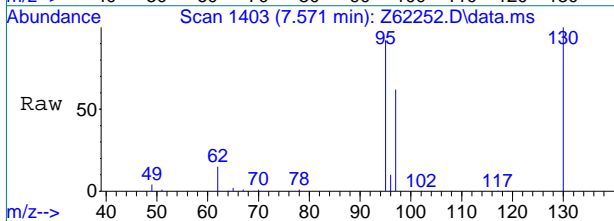
#9  
 Chloroform  
 Concen: 0.16 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62252.D  
 Acq: 12 Sep 2020 3:23 pm

Tgt Ion	Resp	Lower	Upper
83	44553		
85	68.7	46.1	86.1

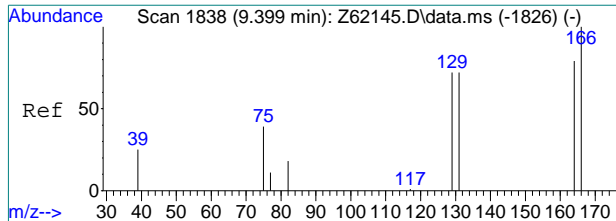


#15  
 Trichloroethene  
 Concen: 2.19 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. -0.000 min  
 Lab File: Z62252.D  
 Acq: 12 Sep 2020 3:23 pm

Tgt Ion	Resp	Lower	Upper
95	342670		
97	67.6	44.5	84.5
130	109.3	69.7	109.7
132	0.0	0.0	20.0



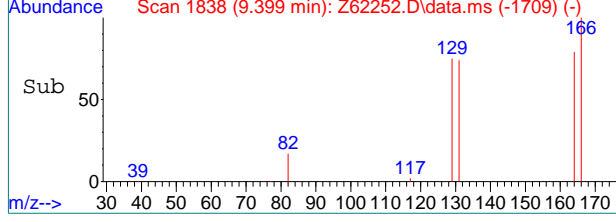
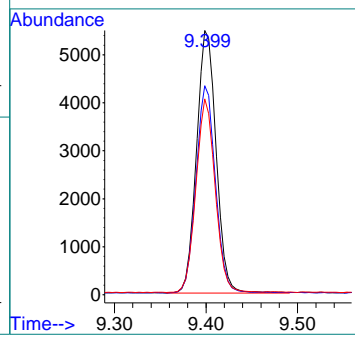
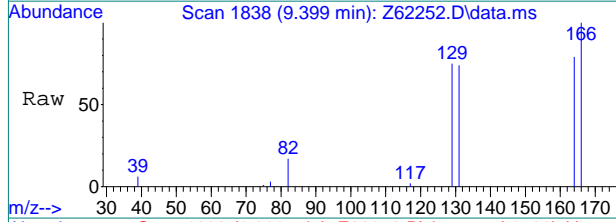
7.1.21  
7



#21  
 Tetrachloroethene  
 Concen: 0.47 ppb  
 RT: 9.399 min Scan# 1838  
 Delta R.T. -0.000 min  
 Lab File: Z62252.D  
 Acq: 12 Sep 2020 3:23 pm

Tgt Ion:166 Resp: 81120

Ion	Ratio	Lower	Upper
166	100		
164	78.8	58.7	98.7
131	73.7	51.6	91.6



7.1.21  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
Data File : Z62253.D  
Acq On : 12 Sep 2020 3:44 pm  
Operator : stutip  
Sample : fa78571-22  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 15 13:39:20 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1868484	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1476265	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	617071	5.34	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	106.80%
19) Toluene-d8	8.961	98	1825334	5.09	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
Target Compounds						
5) Methylene Chloride	4.713	84	25525	0.14	ppb	Qvalue # 87
8) cis-1,2-Dichloroethene	6.110	96	72360	0.47	ppb	92
9) Chloroform	6.377	83	67663	0.24	ppb	97
15) Trichloroethene	7.564	95	485833	3.04	ppb	95
21) Tetrachloroethene	9.399	166	76707	0.44	ppb	99
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

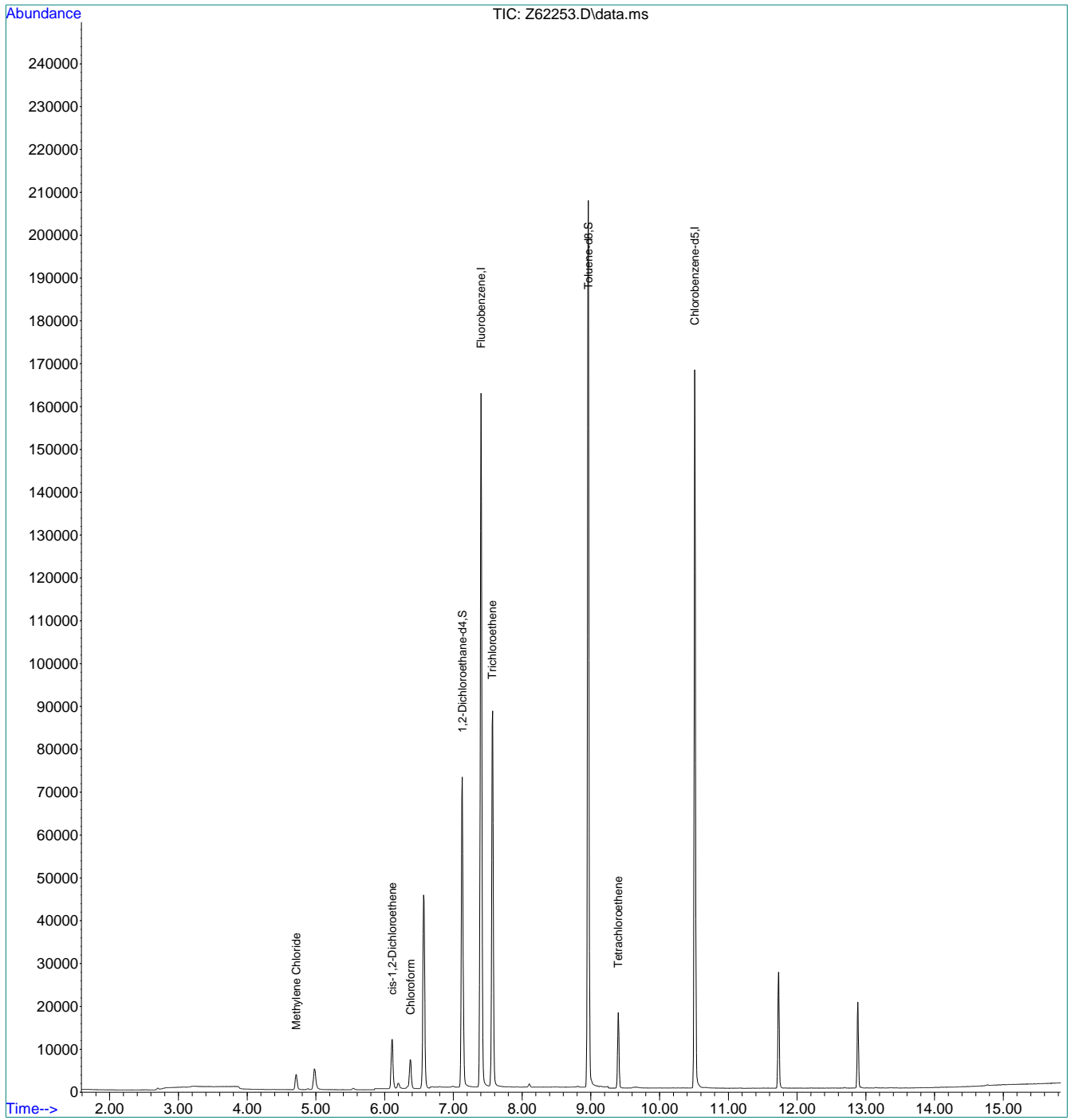
7.1.22  
7



Quantitation Report (QT Reviewed)

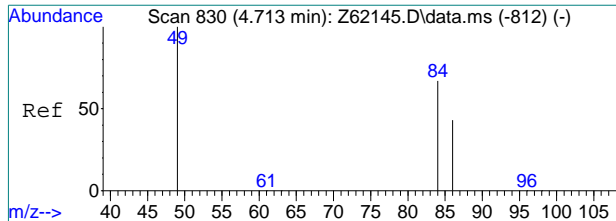
Data Path : C:\msdchem\1\data\091220\  
Data File : Z62253.D  
Acq On : 12 Sep 2020 3:44 pm  
Operator : stutip  
Sample : fa78571-22  
Misc : MS47192,VZ2415,,,,,  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 15 13:39:20 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.22  
7

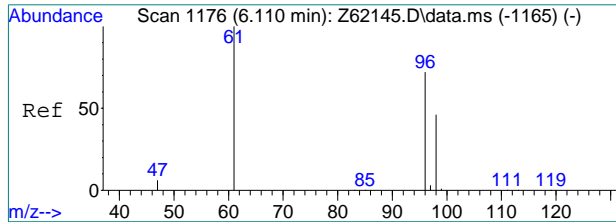
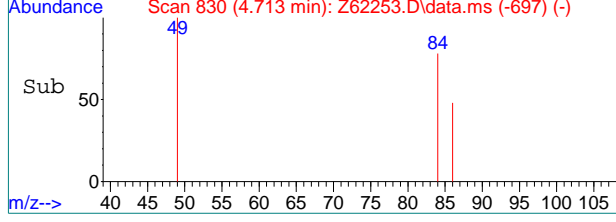
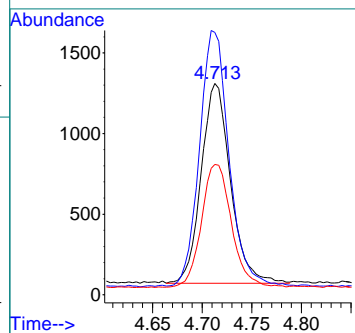
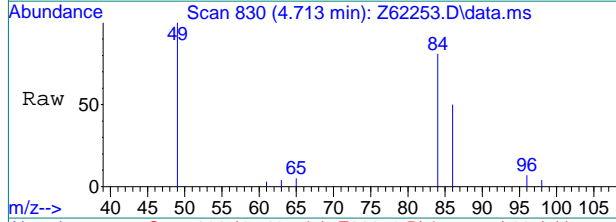




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62253.D  
 Acq: 12 Sep 2020 3:44 pm

Tgt Ion: 84 Resp: 25525

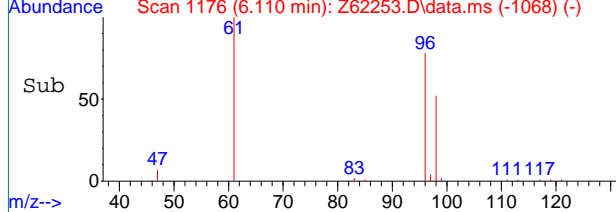
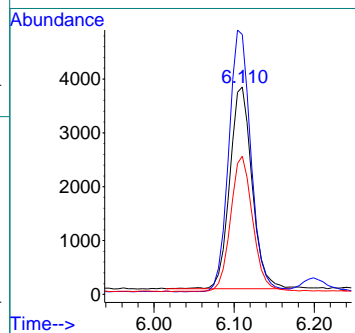
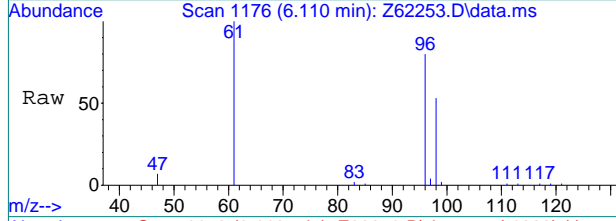
Ion	Ratio	Lower	Upper
84	100		
49	127.1	128.7	168.7#
86	61.6	43.9	83.9

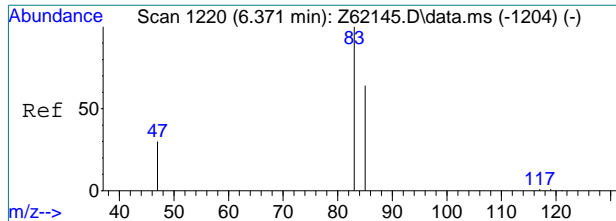


#8  
 cis-1,2-Dichloroethene  
 Concen: 0.47 ppb  
 RT: 6.110 min Scan# 1176  
 Delta R.T. 0.000 min  
 Lab File: Z62253.D  
 Acq: 12 Sep 2020 3:44 pm

Tgt Ion: 96 Resp: 72360

Ion	Ratio	Lower	Upper
96	100		
61	127.2	119.3	159.3
98	66.7	44.5	84.5

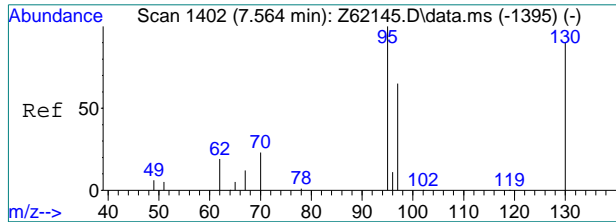
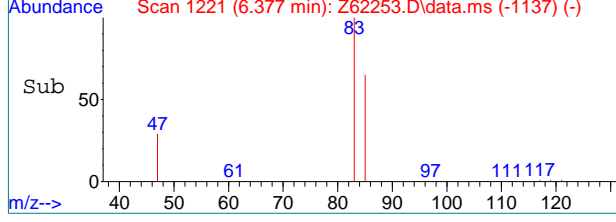
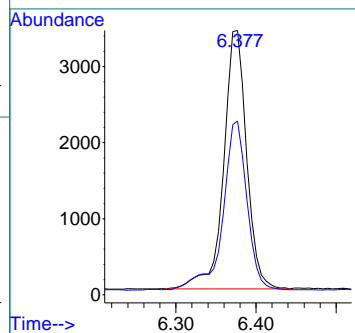
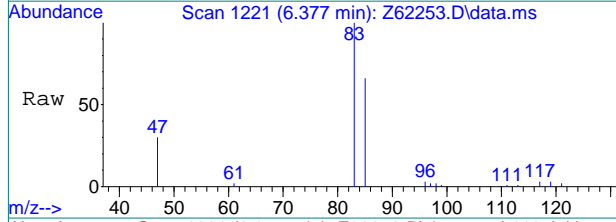




#9  
 Chloroform  
 Concen: 0.24 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62253.D  
 Acq: 12 Sep 2020 3:44 pm

Tgt Ion: 83 Resp: 67663

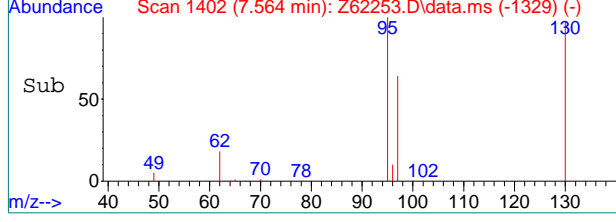
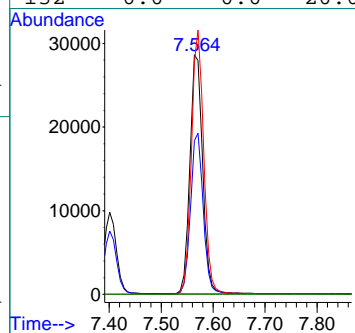
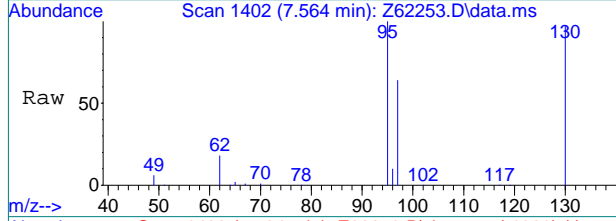
Ion	Ratio	Lower	Upper
83	100		
85	68.5	46.1	86.1



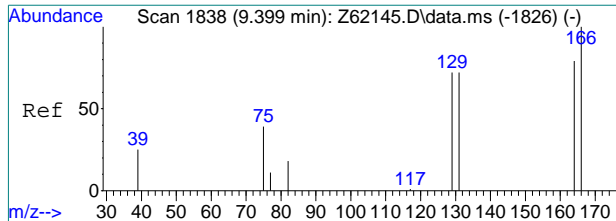
#15  
 Trichloroethene  
 Concen: 3.04 ppb  
 RT: 7.564 min Scan# 1402  
 Delta R.T. -0.007 min  
 Lab File: Z62253.D  
 Acq: 12 Sep 2020 3:44 pm

Tgt Ion: 95 Resp: 485833

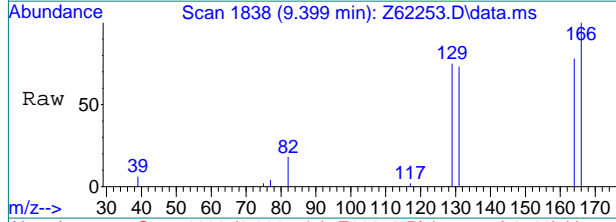
Ion	Ratio	Lower	Upper
95	100		
97	64.0	44.5	84.5
130	97.0	69.7	109.7
132	0.0	0.0	20.0



7.1.22  
7

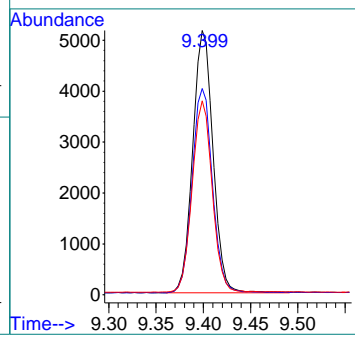
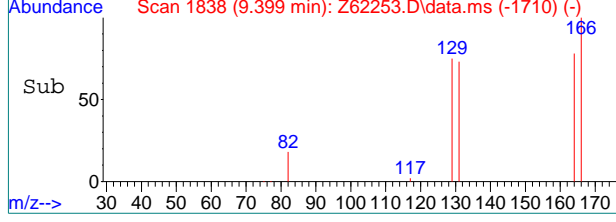


#21  
 Tetrachloroethene  
 Concen: 0.44 ppb  
 RT: 9.399 min Scan# 1838  
 Delta R.T. -0.000 min  
 Lab File: Z62253.D  
 Acq: 12 Sep 2020 3:44 pm



Tgt Ion: 166 Resp: 76707

Ion	Ratio	Lower	Upper
166	100		
164	77.9	58.7	98.7
131	72.9	51.6	91.6



7.1.22  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61245.D  
 Acq On : 11 Sep 2020 9:11 pm  
 Operator : stutip  
 Sample : mb Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 13:54:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	333237	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	252324	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	134168	4.98	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.60%	
19) Toluene-d8	8.896	98	292650	5.14	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	102.80%	
Target Compounds						
5) Methylene Chloride	4.699	49	15614	0.22	ug/L	Qvalue 97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

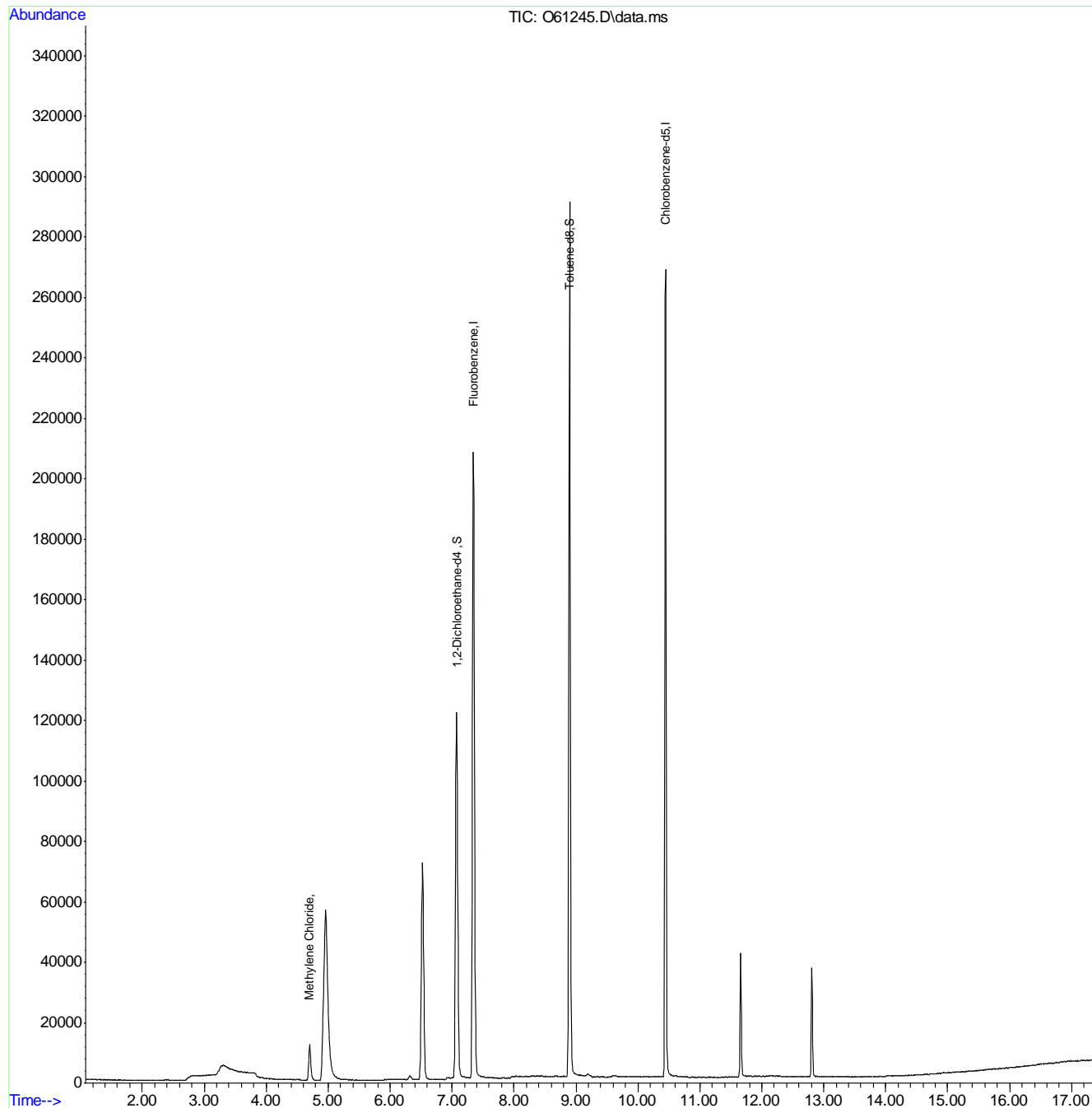
7.2.1  
7

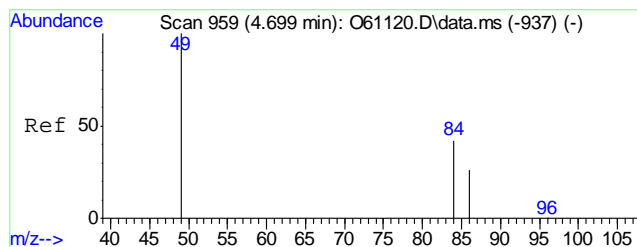
## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
Data File : O61245.D  
Acq On : 11 Sep 2020 9:11 pm  
Operator : stutip  
Sample : mb  
Misc : MS47184,VO2357,,,,,  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

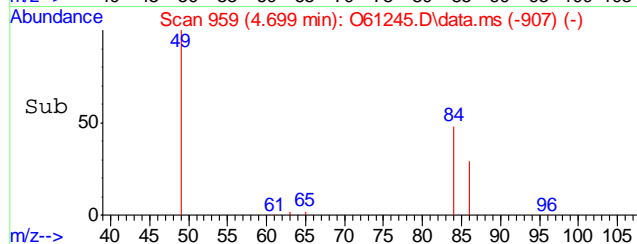
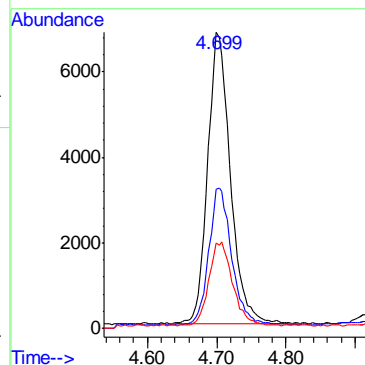
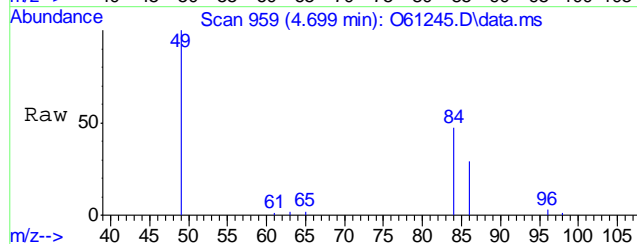
Quant Time: Sep 14 13:54:26 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration





#5  
 Methylene Chloride  
 Concen: 0.22 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.004 min  
 Lab File: O61245.D  
 Acq: 11 Sep 2020 9:11 pm

Tgt Ion	Resp	Lower	Upper
49	15614		
84	46.3	17.9	77.9
86	28.1	0.0	59.8



7.2.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2415\  
 Data File : Z62242.d  
 Acq On : 12 Sep 2020 12:11 pm  
 Operator : stutip  
 Sample : MB  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 06:27:21 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2135397	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1690689	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	671485	5.08	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.60%
19) Toluene-d8	8.961	98	2099740	5.11	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
Target Compounds						
3) Chloromethane	2.729	50	68563	0.50	ppb	99
5) Methylene Chloride	4.713	84	84921	0.40	ppb	89
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.22  
7

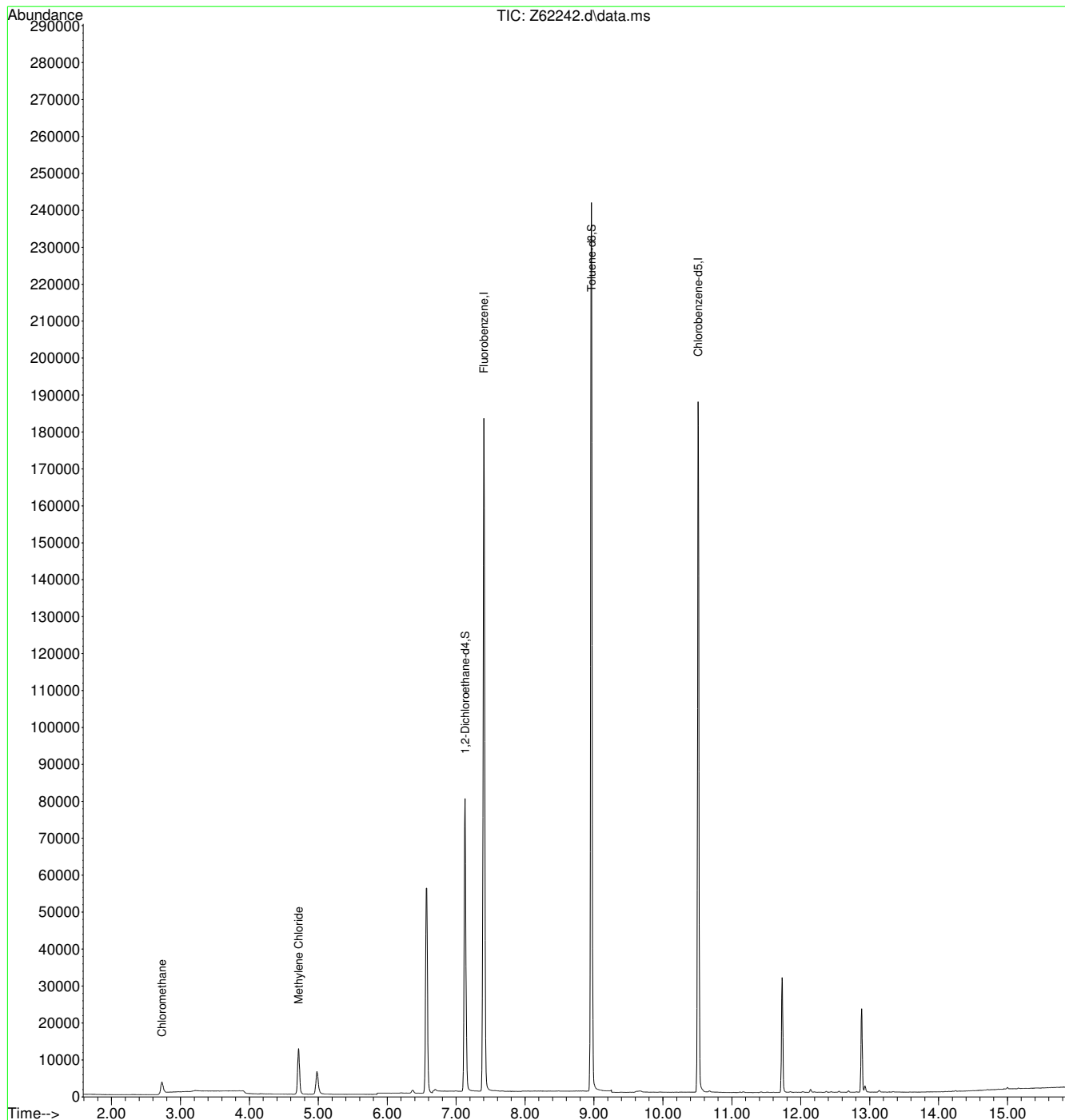




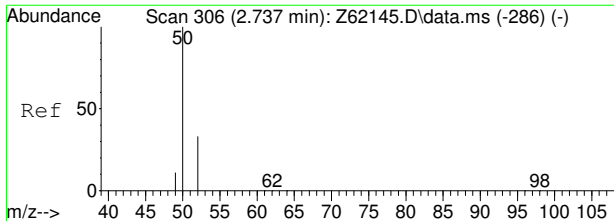
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62242.d  
Acq On : 12 Sep 2020 12:11 pm  
Operator : stutip  
Sample : MB  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 06:27:21 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

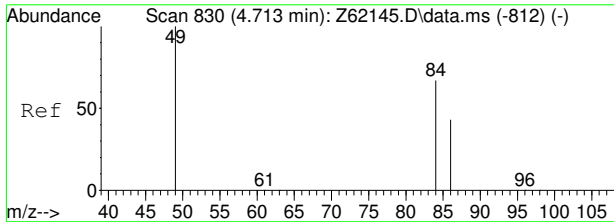
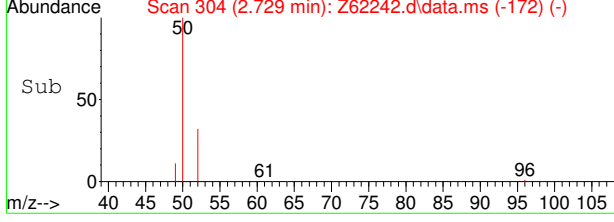
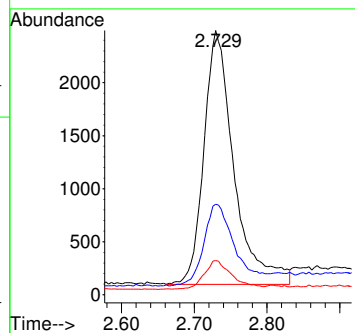
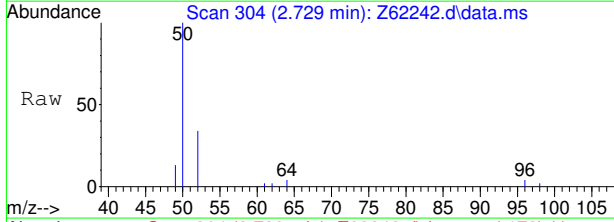


7.2.2  
7



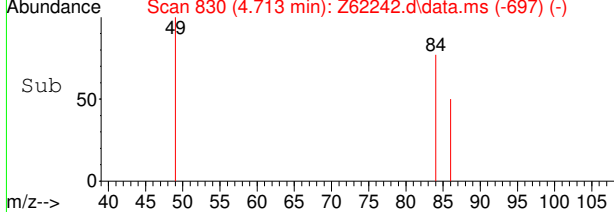
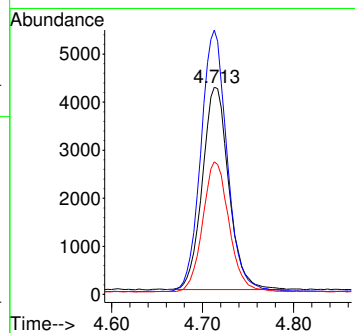
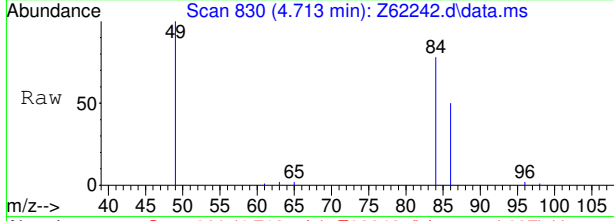
#3  
 Chloromethane  
 Concen: 0.50 ppb  
 RT: 2.729 min Scan# 304  
 Delta R.T. -0.004 min  
 Lab File: Z62242.d  
 Acq: 12 Sep 2020 12:11 pm

Tgt Ion	Resp	Lower	Upper
50	68563		
52	31.7	12.6	52.6
49	11.2	0.0	30.8



#5  
 Methylene Chloride  
 Concen: 0.40 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62242.d  
 Acq: 12 Sep 2020 12:11 pm

Tgt Ion	Resp	Lower	Upper
84	84921		
84	100		
49	129.4	128.7	168.7
86	64.1	43.9	83.9



7.22  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61244.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : stutip  
 Sample : bs Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 13:54:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
<b>Internal Standards</b>							
1) Fluorobenzene	7.346	96	355590	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	275951	5.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
13) 1,2-Dichloroethane-d4	7.074	65	138797	4.83	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	96.60%		
19) Toluene-d8	8.896	98	307529	4.94	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.80%		
<b>Target Compounds</b>							
2) Vinyl Chloride	2.904	62	184977	4.63	ug/L	97	
3) Chloromethane	2.803	50	246213	4.16	ug/L	94	
4) 1,1-Dichloroethene	4.089	61	292678	5.96	ug/L	91	
5) Methylene Chloride	4.699	49	403654	5.24	ug/L	99	
6) trans-1,2-Dichloroethene	4.865	61	328288	5.79	ug/L	85	
7) 1,1-Dichloroethane	5.510	63	373074	5.66	ug/L	100	
8) cis-1,2-Dichloroethene	6.066	96	182191	5.59	ug/L	84	
9) Chloroform	6.327	83	309367	5.45	ug/L	97	
10) Carbon Tetrachloride	6.505	117	226982	5.87	ug/L	87	
11) 1,1,1-Trichloroethane	6.576	97	251262	5.75	ug/L	94	
12) Benzene	6.937	78	638288m	5.82	ug/L		
14) 1,2-Dichloroethane	7.139	62	292274	5.45	ug/L	90	
15) Trichloroethene	7.512	95	190565	5.70	ug/L	90	
16) 1,2-Dichloropropane	8.040	63	209797	5.72	ug/L	93	
17) cis-1,3-Dichloropropene	8.707	75	217164	5.71	ug/L	97	
20) trans-1,3-Dichloropropene	9.343	75	208721	5.75	ug/L	96	
21) Tetrachloroethene	9.337	166	177286	5.86	ug/L	94	
22) 1,4-Dichlorobenzene	12.821	146	362694	5.67	ug/L	98	
23) 1,2-Dibromo-3-Chloropr...	14.037	75	60252	5.28	ug/L	91	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

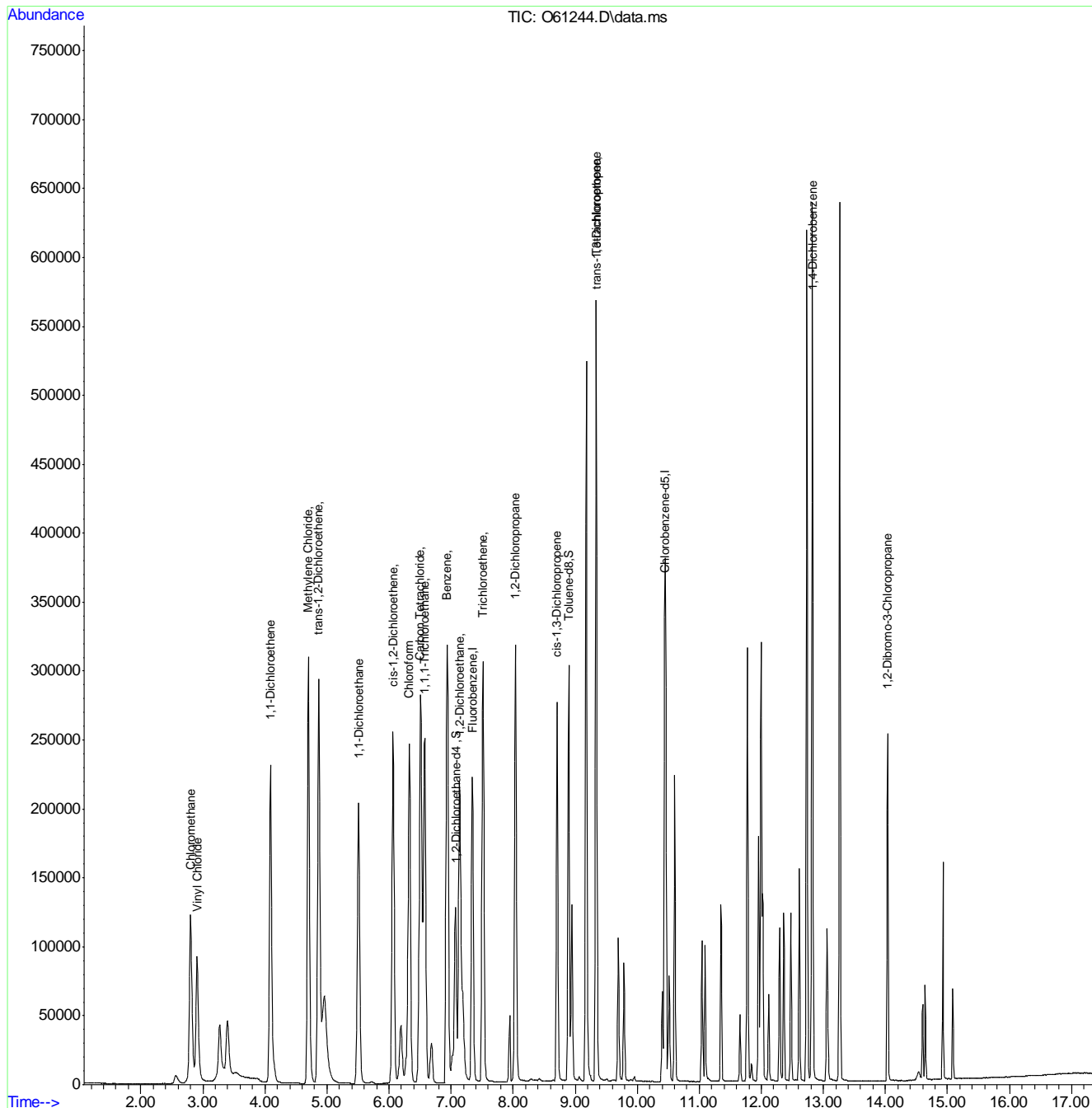
7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61244.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:54:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.3.1  
7

# Manual Integration Approval Summary

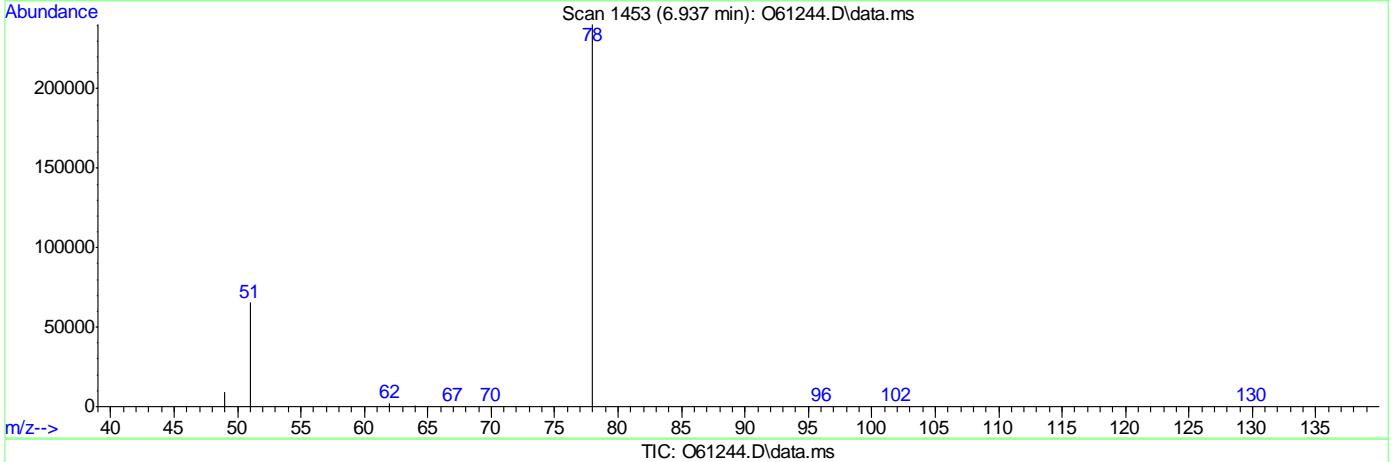
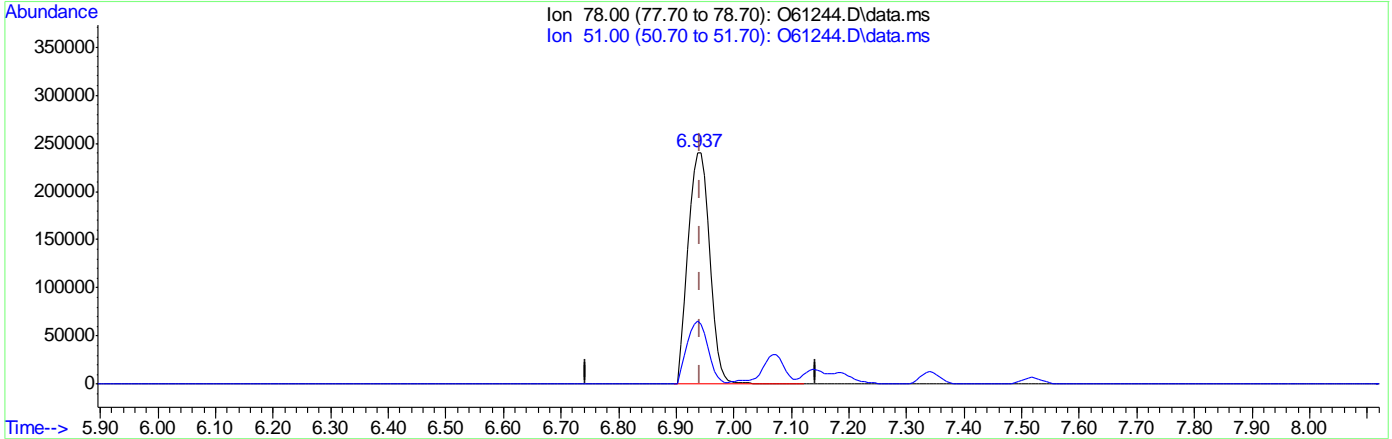
**Sample Number:** VO2357-BS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61244.D      **Analyst approved:** 09/14/20 14:00 Akari Giraldo  
**Injection Time:** 09/11/20 20:51      **Supervisor approved:** 09/14/20 14:12 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61244.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : stutip  
 Sample : bs Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 13:53:53 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



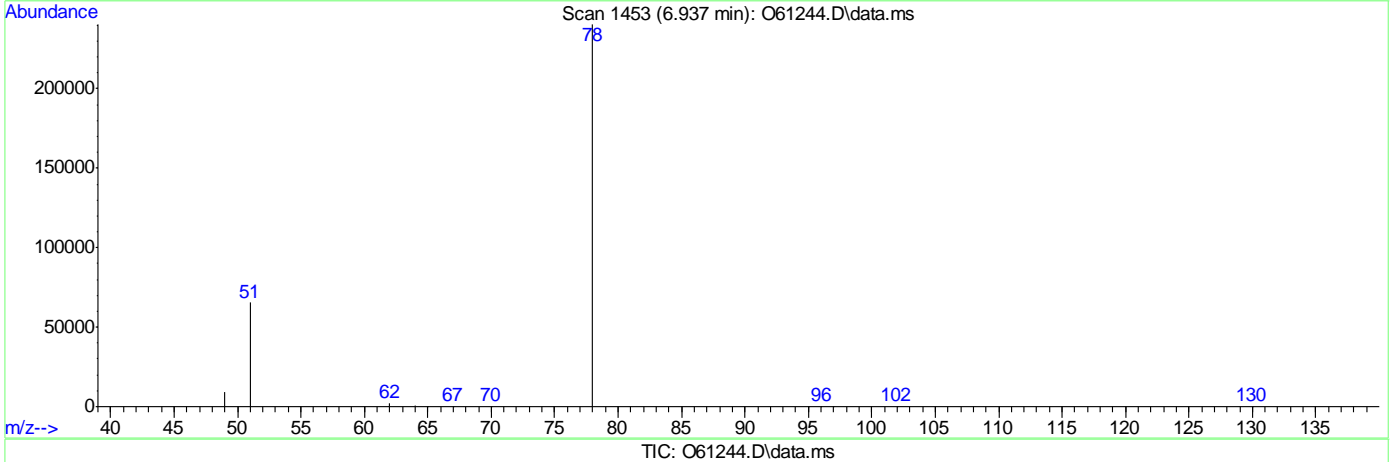
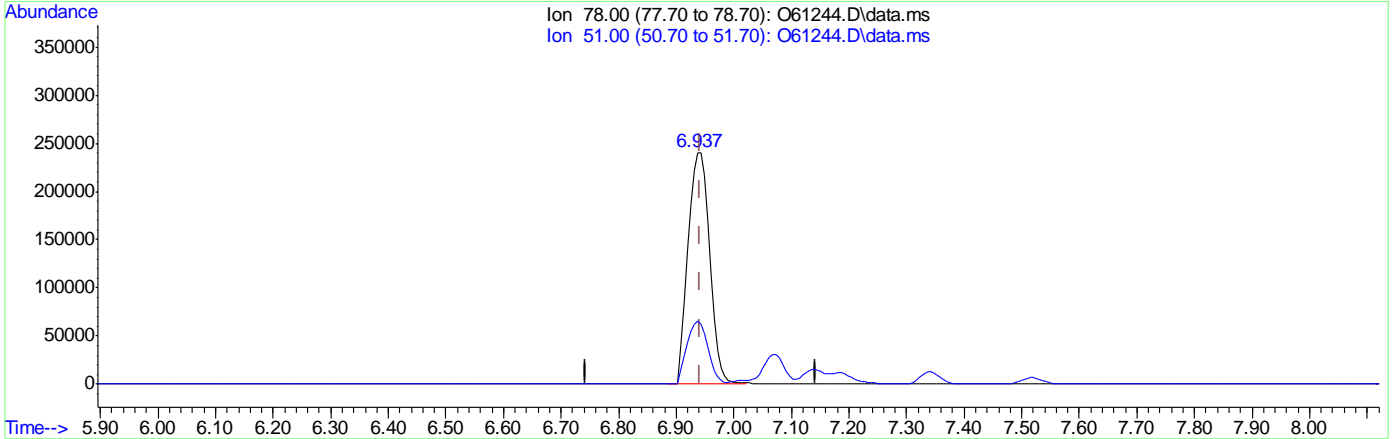
(12) Benzene ( )  
 6.937min (-0.006) 5.86ug/L  
 response 642571

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61244.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : stutip  
 Sample : bs Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 13:53:53 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.937min (-0.006) 5.82ug/L m  
 response 638288

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62240.d  
 Acq On : 12 Sep 2020 11:32 am  
 Operator : stutip  
 Sample : BS  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 06:27:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2094740	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1674222	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	649358	5.01	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	100.20%	
19) Toluene-d8	8.961	98	2066523	5.08	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	925823	5.31	ppb		100
3) Chloromethane	2.729	50	777756	5.38	ppb		99
4) 1,1-Dichloroethene	4.087	96	734546	5.79	ppb	#	86
5) Methylene Chloride	4.713	84	972636	4.94	ppb	#	88
6) trans-1,2-Dichloroethene	4.886	96	909961	5.89	ppb		91
7) 1,1-Dichloroethane	5.542	63	1533410	5.85	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	959552	5.58	ppb		91
9) Chloroform	6.371	83	1731691	5.50	ppb		99
10) Carbon Tetrachloride	6.543	117	1252924	5.86	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1586286	5.75	ppb		99
12) Benzene	6.994	78	3422819	5.87	ppb		94
14) 1,2-Dichloroethane	7.198	62	1185735	5.40	ppb		100
15) Trichloroethene	7.564	95	1014788	5.67	ppb		93
16) 1,2-Dichloropropane	8.101	63	835111	5.63	ppb		95
17) cis-1,3-Dichloropropene	8.773	75	967062	5.88	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	776598	5.50	ppb		99
21) Tetrachloroethene	9.399	166	1041985	5.51	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

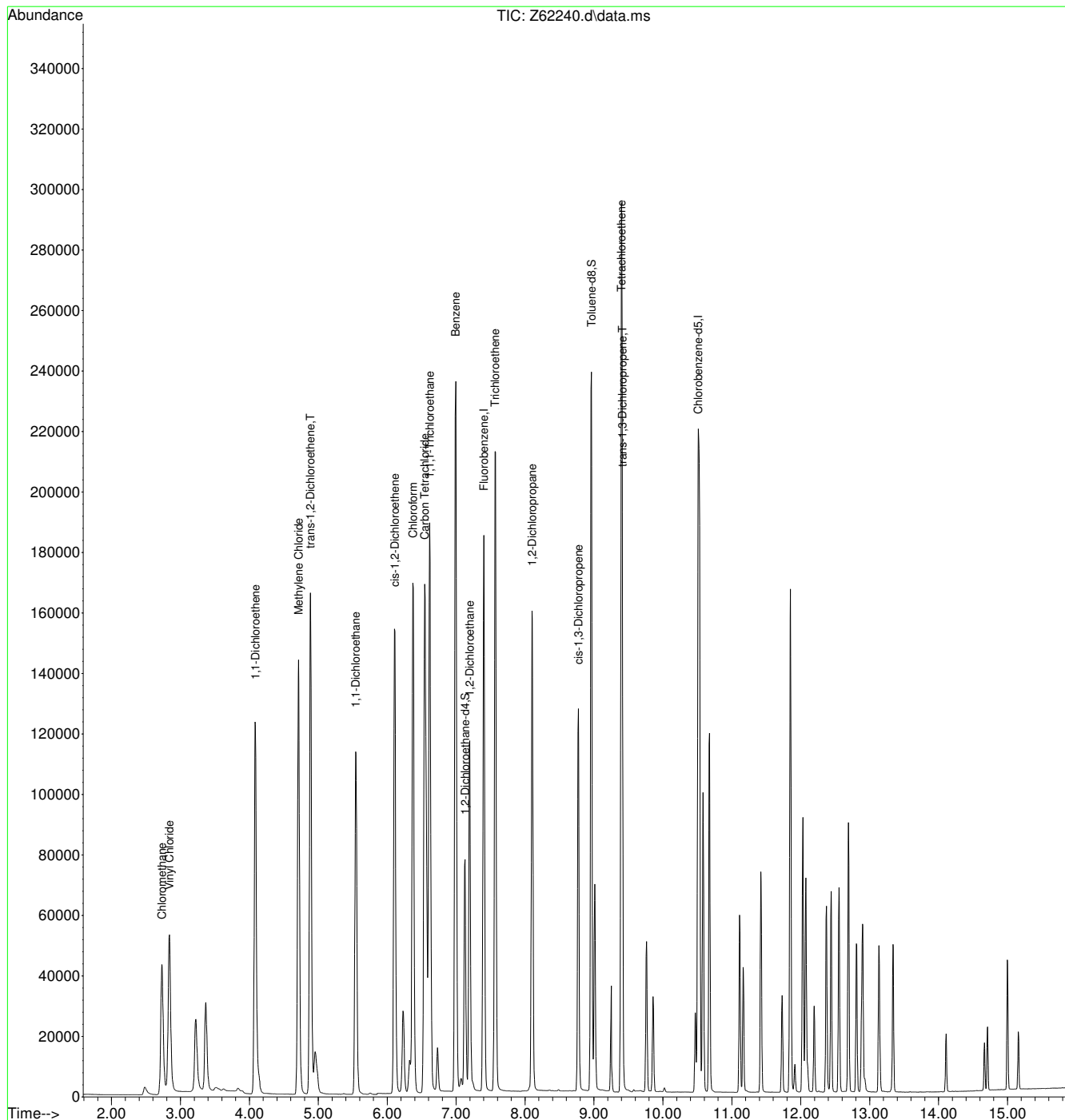
7.32  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62240.d  
 Acq On : 12 Sep 2020 11:32 am  
 Operator : stutip  
 Sample : BS  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 06:27:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.3.2  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78570-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

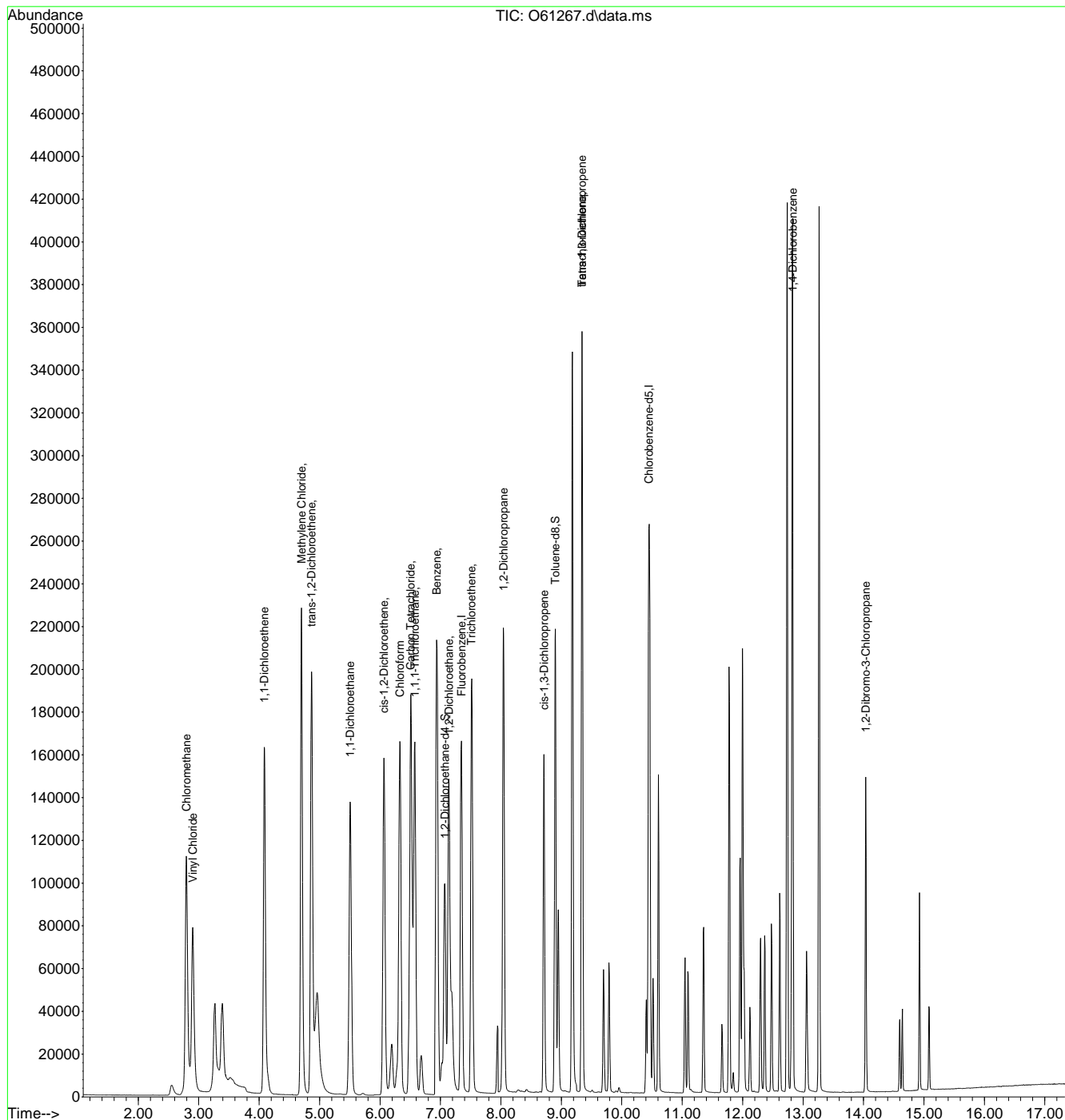
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	260902	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	207790	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	105641m	5.01	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	100.20%		
19) Toluene-d8	8.900	98	217443	4.64	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	161381	5.56	ug/L		97
3) Chloromethane	2.795	50	235272	5.53	ug/L		95
4) 1,1-Dichloroethene	4.085	61	201580	5.59	ug/L		91
5) Methylene Chloride	4.699	49	297986	5.28	ug/L		97
6) trans-1,2-Dichloroethene	4.865	61	217802	5.24	ug/L		84
7) 1,1-Dichloroethane	5.506	63	250952	5.19	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	114249	4.78	ug/L #		82
9) Chloroform	6.327	83	204254	4.91	ug/L		95
10) Carbon Tetrachloride	6.505	117	140070	4.94	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	158474	4.94	ug/L		92
12) Benzene	6.937	78	415260m	5.16	ug/L		
14) 1,2-Dichloroethane	7.139	62	192331	4.89	ug/L		93
15) Trichloroethene	7.512	95	116310	4.74	ug/L		89
16) 1,2-Dichloropropane	8.043	63	139205	5.17	ug/L		95
17) cis-1,3-Dichloropropene	8.711	75	119234	4.27	ug/L		100
20) trans-1,3-Dichloropropene	9.343	75	116691	4.27	ug/L		99
21) Tetrachloroethene	9.343	166	116388	5.12	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	240795	5.00	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.038	75	34371	4.03	ug/L		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78570-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.4.1  
7

# Manual Integration Approval Summary

**Sample Number:** FA78570-1MS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61267.D      **Analyst approved:** 09/15/20 20:03 Edessa Sumagaysay  
**Injection Time:** 09/12/20 04:37      **Supervisor approved:** 09/16/20 09:18 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloroethane-D4	17060-07-0		7.07	Overlapping peak

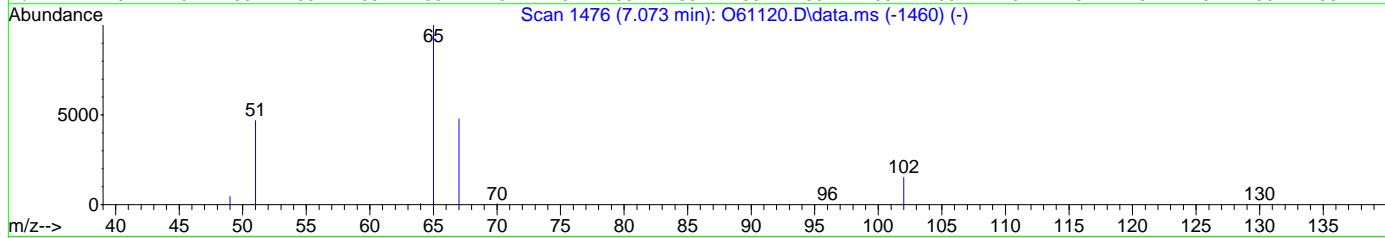
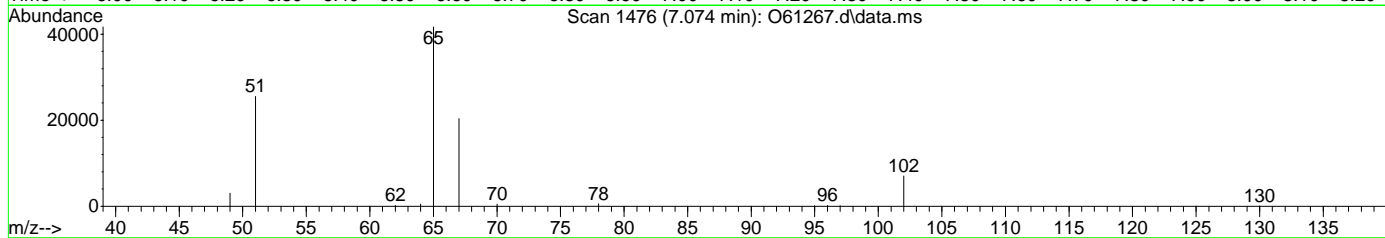
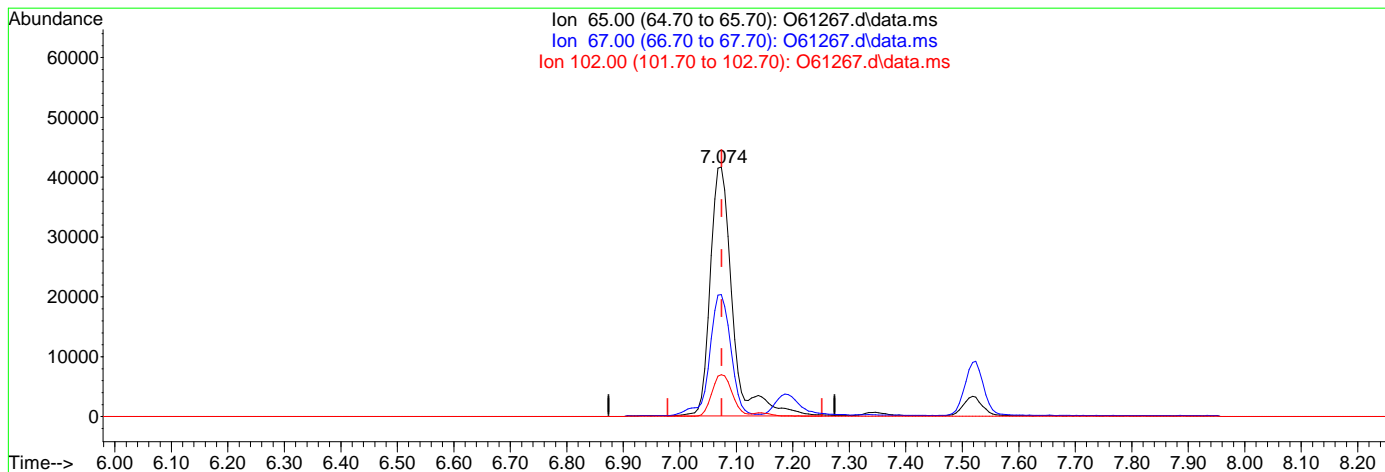
7.4.1.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78571-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:13:47 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.074min (-0.000) 5.46ug/L

response 115043

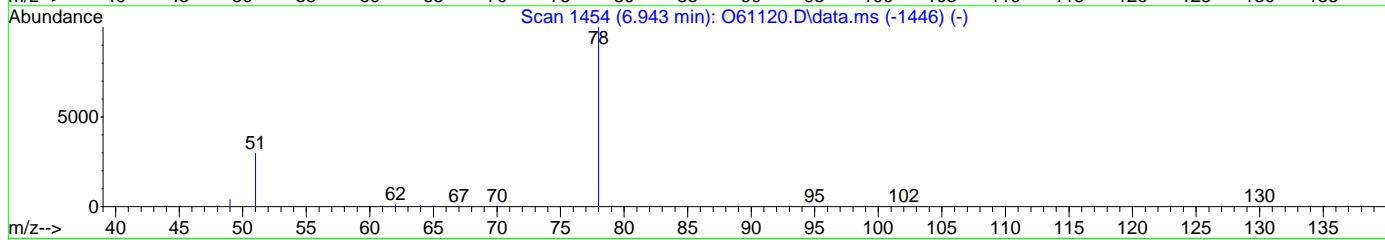
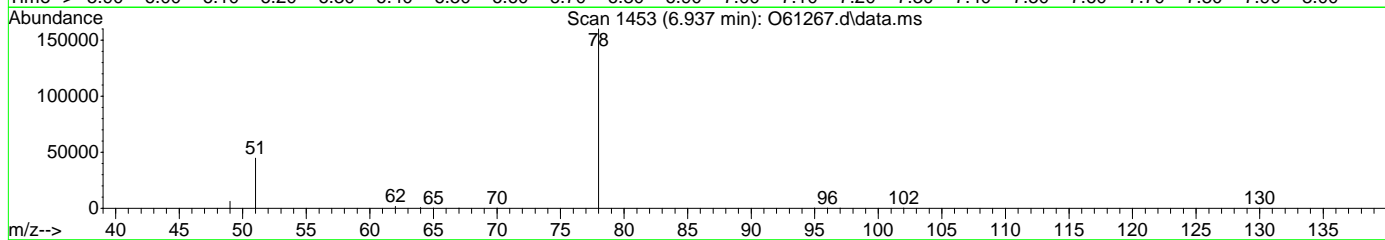
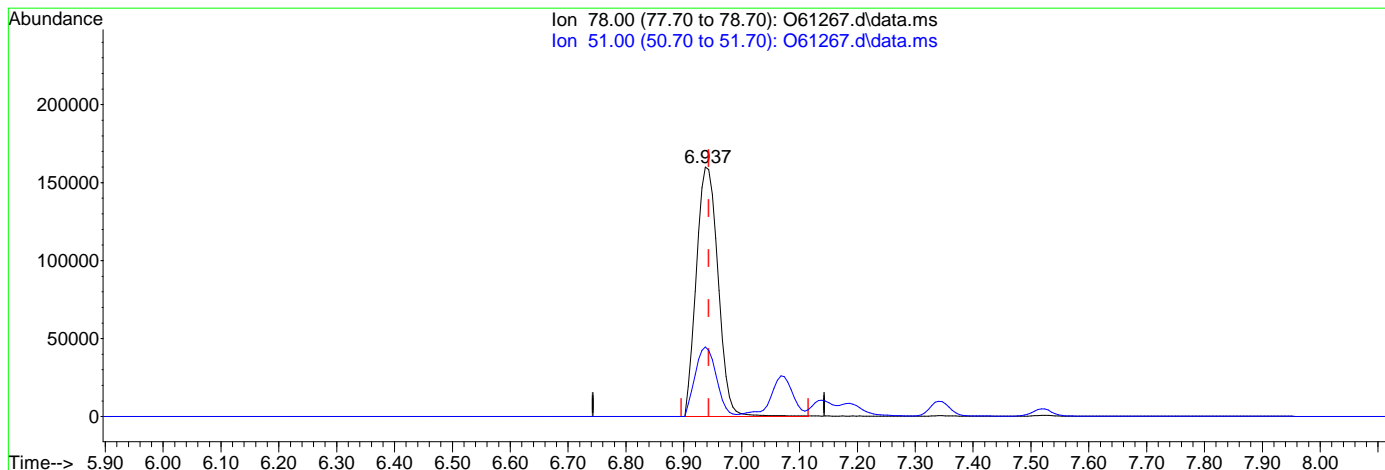
Ion	Exp%	Act%
65.00	100	100
67.00	53.50	48.67
102.00	16.10	16.66
0.00	0.00	0.00

7.4.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78571-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.21ug/L

response 419318

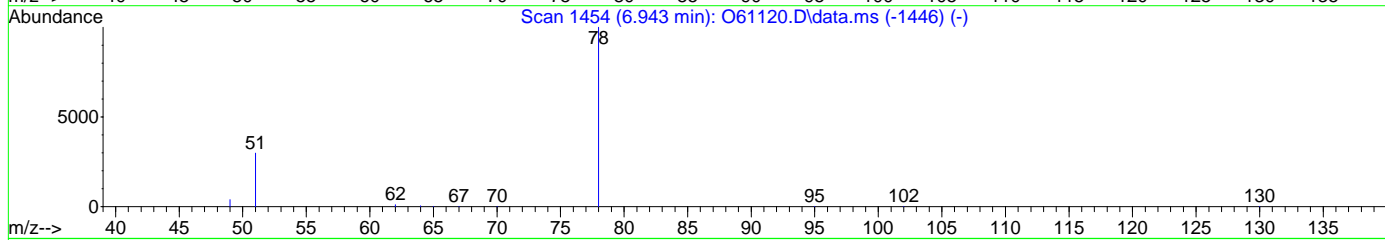
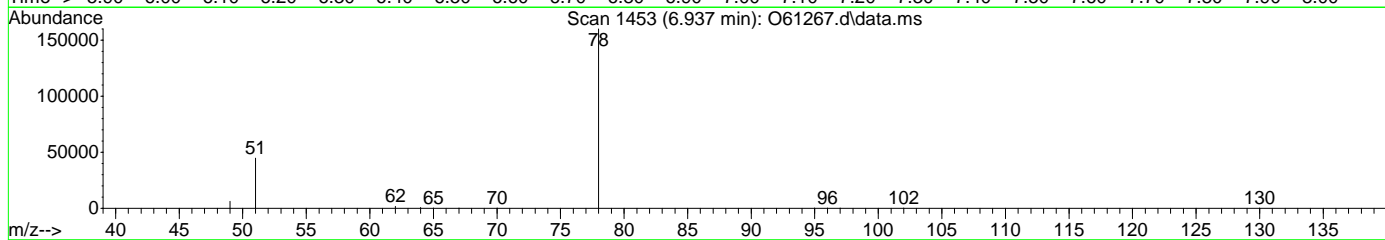
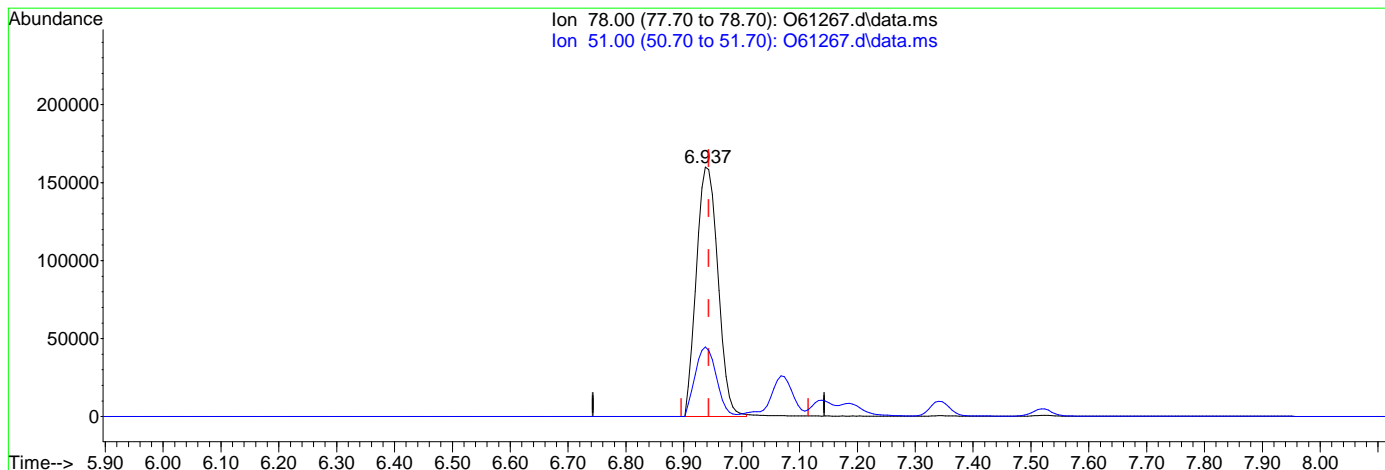
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.91
0.00	0.00	0.00
0.00	0.00	0.00

7.4.1.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78571-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.16ug/L m

response 415260

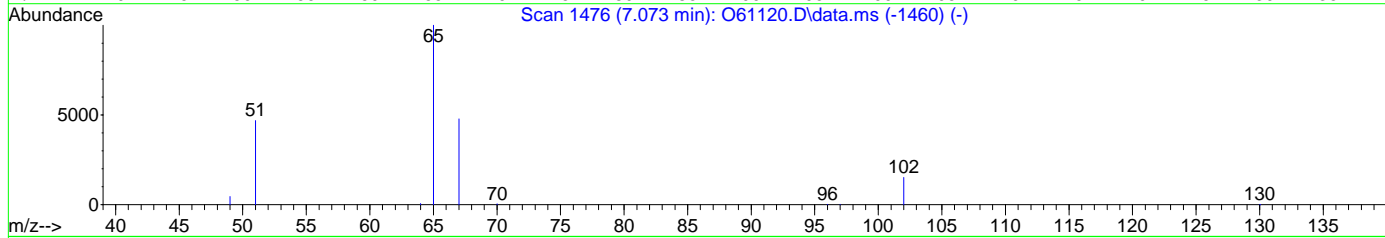
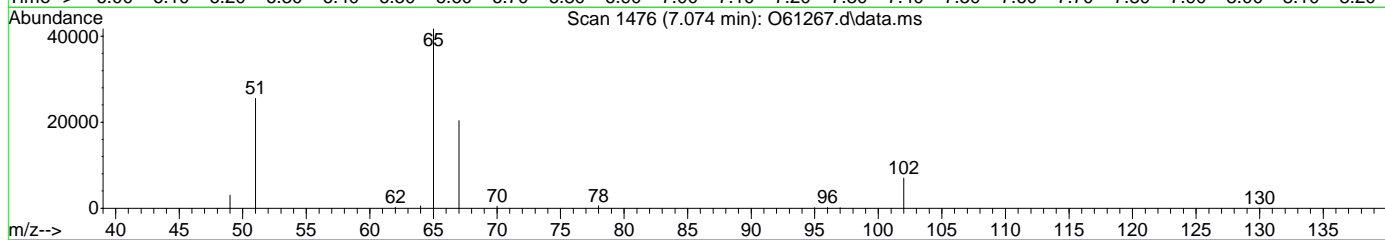
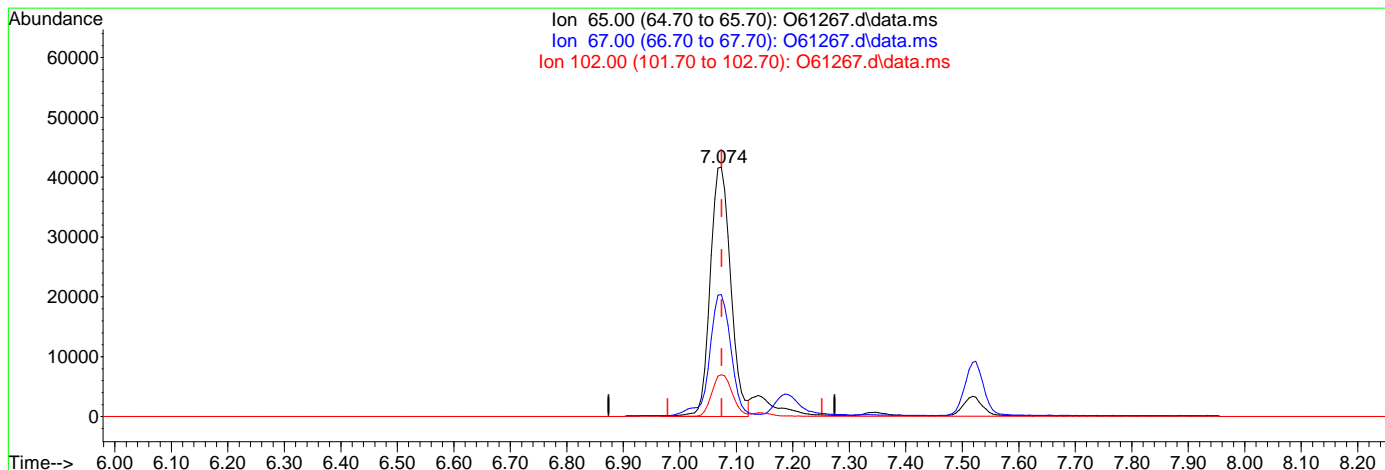
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.91
0.00	0.00	0.00
0.00	0.00	0.00

7.4.1.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61267.d  
 Acq On : 12 Sep 2020 4:37 am  
 Operator : stutip  
 Sample : fa78571-1ms,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 03:15:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.074min (-0.000) 5.01ug/L m

response 105641

Ion	Exp%	Act%
65.00	100	100
67.00	53.50	48.89
102.00	16.10	16.74
0.00	0.00	0.00

7.4.1.5  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78570-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 03:17:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

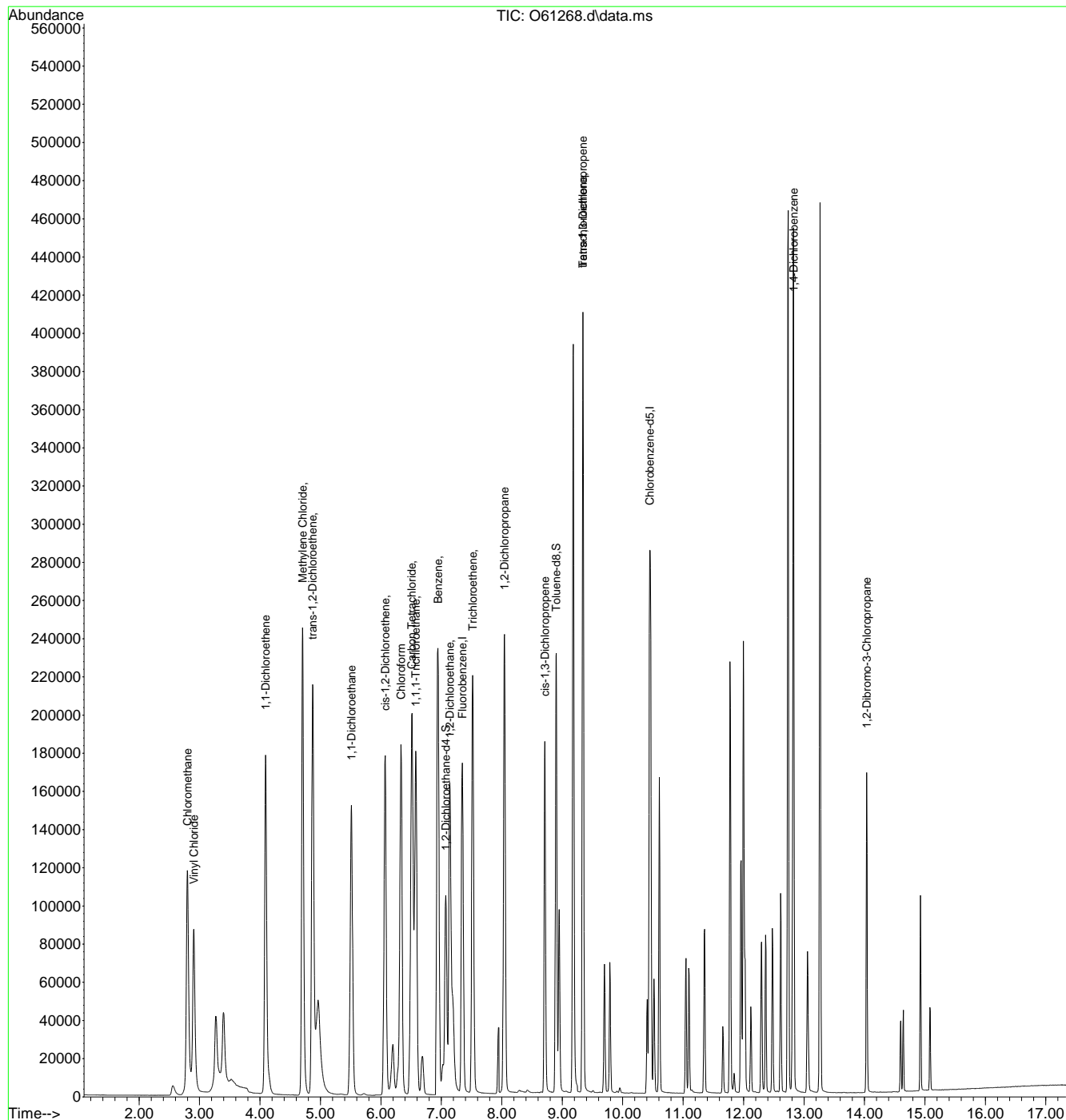
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	275372	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	218380	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	110712m	4.98	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.60%		
19) Toluene-d8	8.896	98	230869	4.69	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	93.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	164694	5.36	ug/L		98
3) Chloromethane	2.799	50	239744	5.32	ug/L		95
4) 1,1-Dichloroethene	4.092	61	219762	5.77	ug/L		91
5) Methylene Chloride	4.703	49	326581	5.48	ug/L		97
6) trans-1,2-Dichloroethene	4.869	61	243234	5.54	ug/L		84
7) 1,1-Dichloroethane	5.514	63	278814	5.46	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	128535	5.09	ug/L		83
9) Chloroform	6.333	83	227746	5.18	ug/L		96
10) Carbon Tetrachloride	6.510	117	158225	5.28	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	175574	5.18	ug/L		92
12) Benzene	6.943	78	461760m	5.43	ug/L		
14) 1,2-Dichloroethane	7.139	62	214292	5.16	ug/L		92
15) Trichloroethene	7.518	95	130484	5.04	ug/L		88
16) 1,2-Dichloropropane	8.043	63	155112	5.46	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	138354	4.70	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	135023	4.70	ug/L		99
21) Tetrachloroethene	9.343	166	129195	5.40	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	266540	5.27	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.037	75	38990	4.34	ug/L		88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78570-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 03:17:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.4.2  
7

# Manual Integration Approval Summary

**Sample Number:** FA78570-1MSD      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61268.D      **Analyst approved:** 09/15/20 20:03 Edessa Sumagaysay  
**Injection Time:** 09/12/20 04:58      **Supervisor approved:** 09/16/20 09:18 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloroethane-D4	17060-07-0		7.07	Overlapping peak

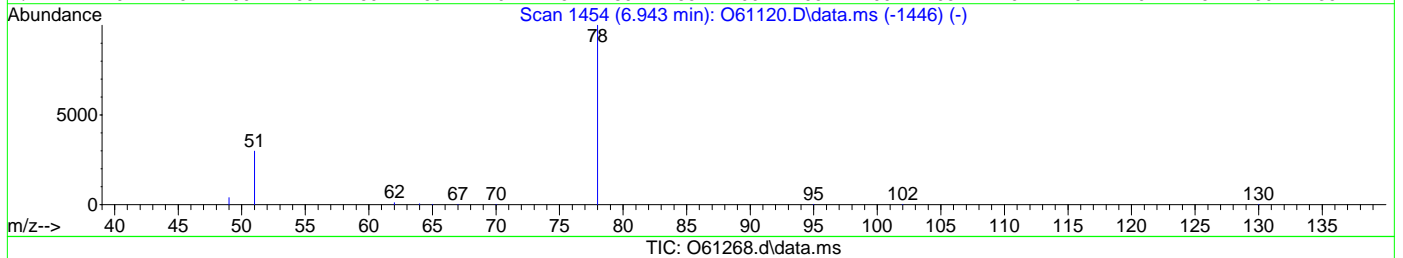
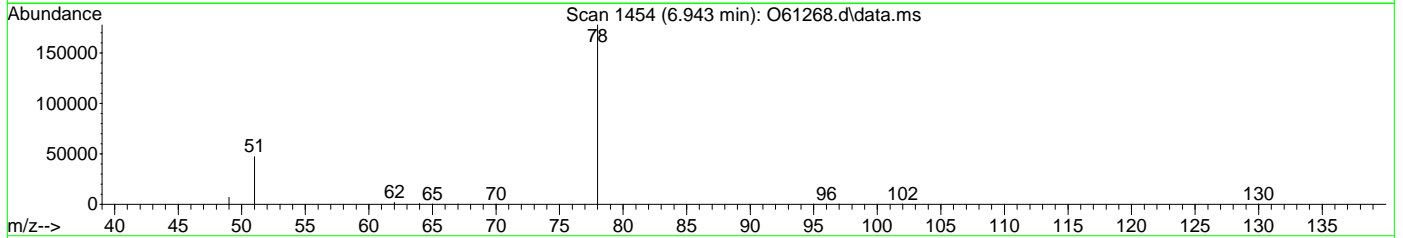
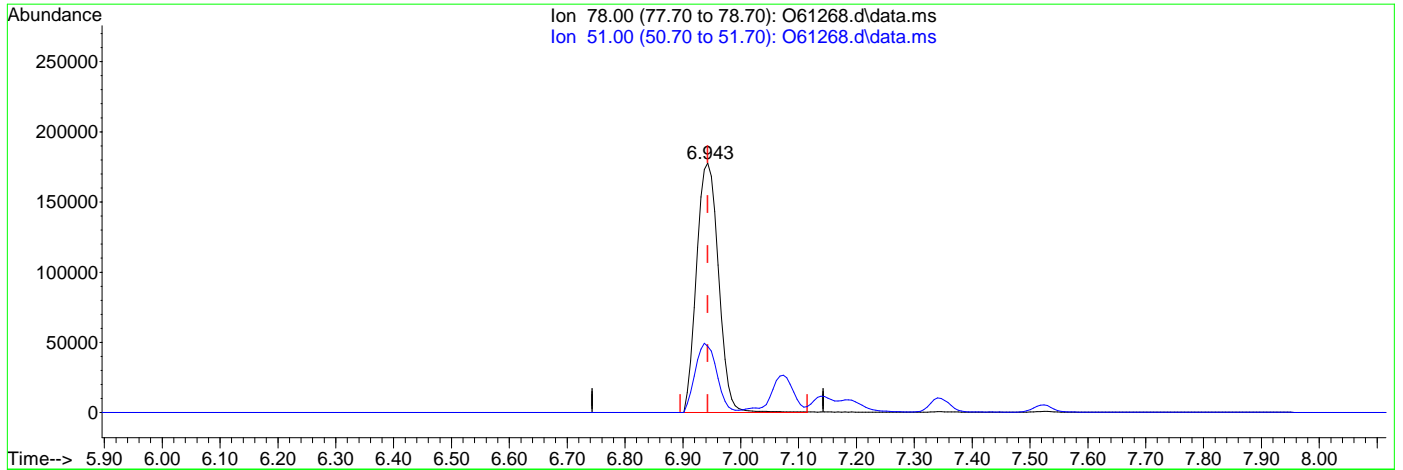
7.4.2.1

7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78571-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 02:56:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.54ug/L

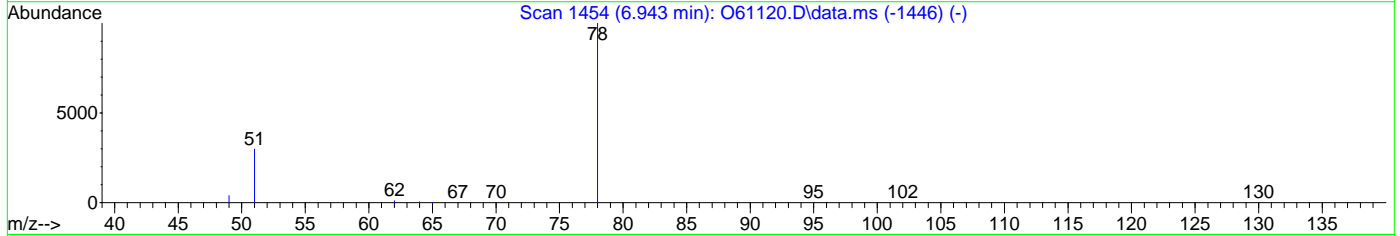
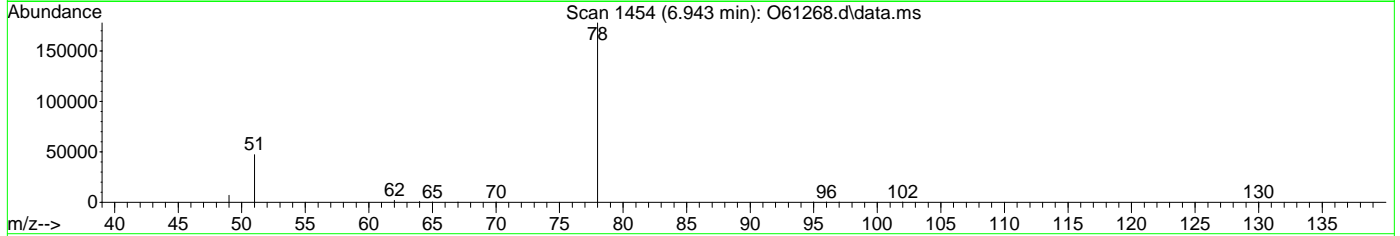
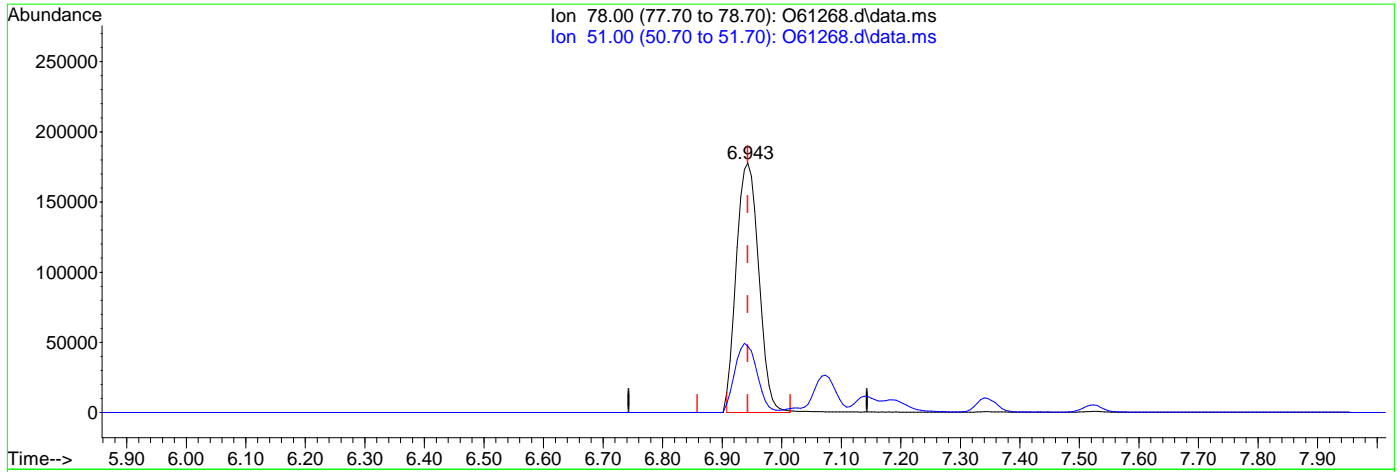
response 470784

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78571-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 02:56:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61268.d\data.ms

(12) Benzene ( )

6.943min (+0.000) 5.43ug/L m

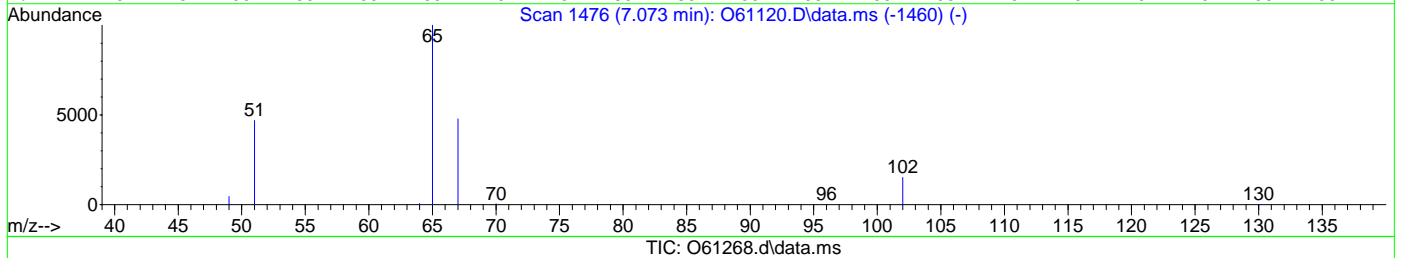
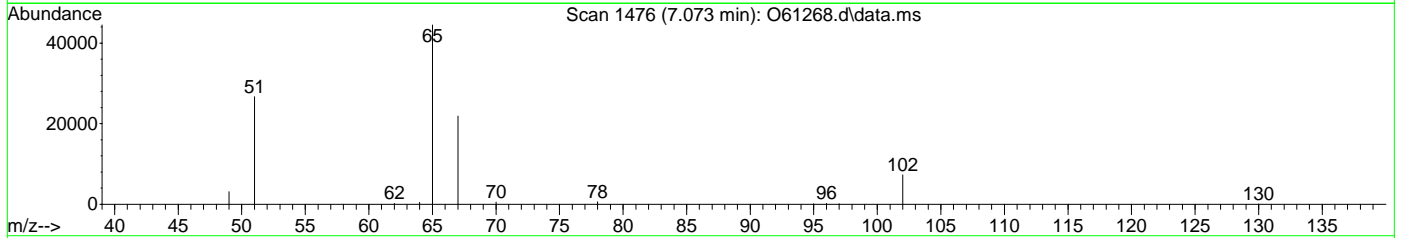
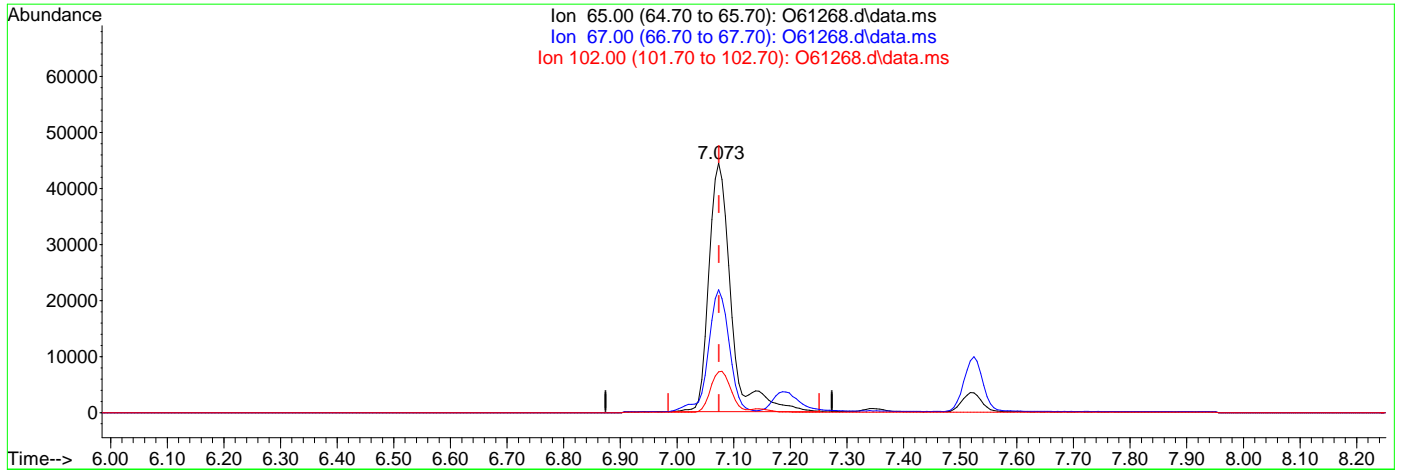
response 461760

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.57
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78571-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 02:56:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.073min (-0.001) 5.45ug/L

response 121252

lon Exp% Act%

65.00 100 100

67.00 53.50 48.94

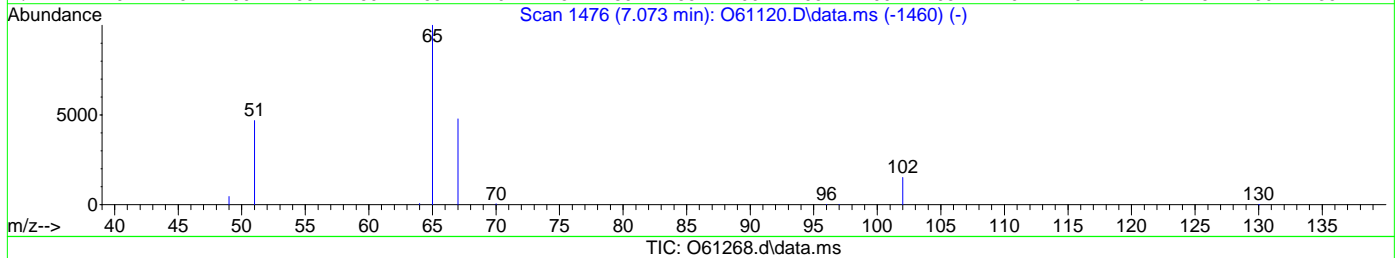
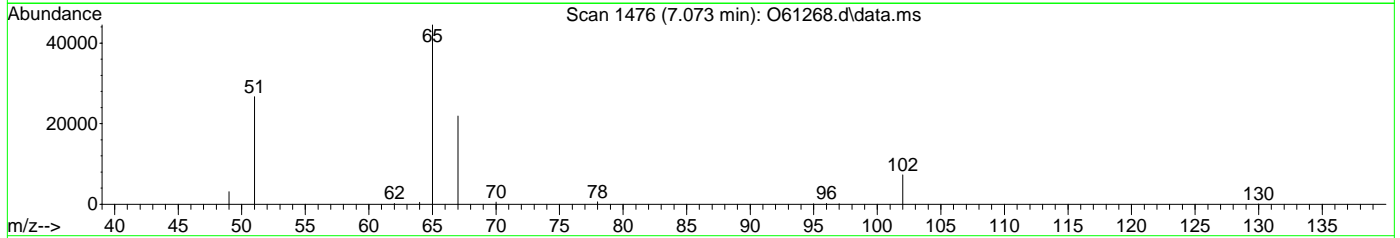
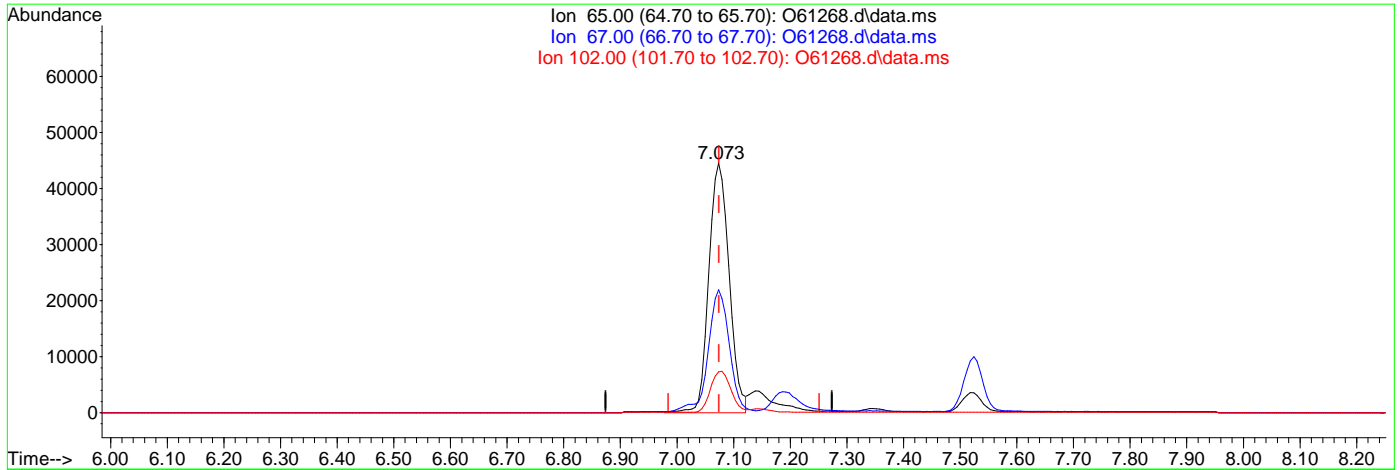
102.00 16.10 16.28

0.00 0.00 0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61268.d  
 Acq On : 12 Sep 2020 4:58 am  
 Operator : stutip  
 Sample : fa78571-1msd,10  
 Misc : MS47191,VO2357,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 02:56:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.073min (-0.001) 4.98ug/L m

response 110712

lon Exp% Act%

65.00 100 100

67.00 53.50 49.17

102.00 16.10 16.37

0.00 0.00 0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62254.d  
 Acq On : 12 Sep 2020 4:03 pm  
 Operator : stutip  
 Sample : fa78571-16ms,10  
 Misc : MS47192,VZ2415,,,,,10  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 06:28:05 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1916862	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1548625	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	626798	5.29	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	105.80%	
19) Toluene-d8	8.961	98	1874126	4.98	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	818727	5.14	ppb		99
3) Chloromethane	2.729	50	687900	5.21	ppb		100
4) 1,1-Dichloroethene	4.083	96	645371	5.56	ppb	#	89
5) Methylene Chloride	4.713	84	866694	4.80	ppb		89
6) trans-1,2-Dichloroethene	4.886	96	778964	5.51	ppb		92
7) 1,1-Dichloroethane	5.546	63	1347948	5.62	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	818940	5.21	ppb		92
9) Chloroform	6.377	83	1526754	5.30	ppb		99
10) Carbon Tetrachloride	6.543	117	1008998	5.16	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1378922	5.46	ppb		99
12) Benzene	6.994	78	2991982	5.61	ppb		96
14) 1,2-Dichloroethane	7.198	62	1081828	5.38	ppb		100
15) Trichloroethene	7.571	95	910681	5.56	ppb	#	83
16) 1,2-Dichloropropane	8.105	63	729991	5.38	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	606331	4.13	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	494655	3.81	ppb		99
21) Tetrachloroethene	9.399	166	914768	5.21	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.3  
7

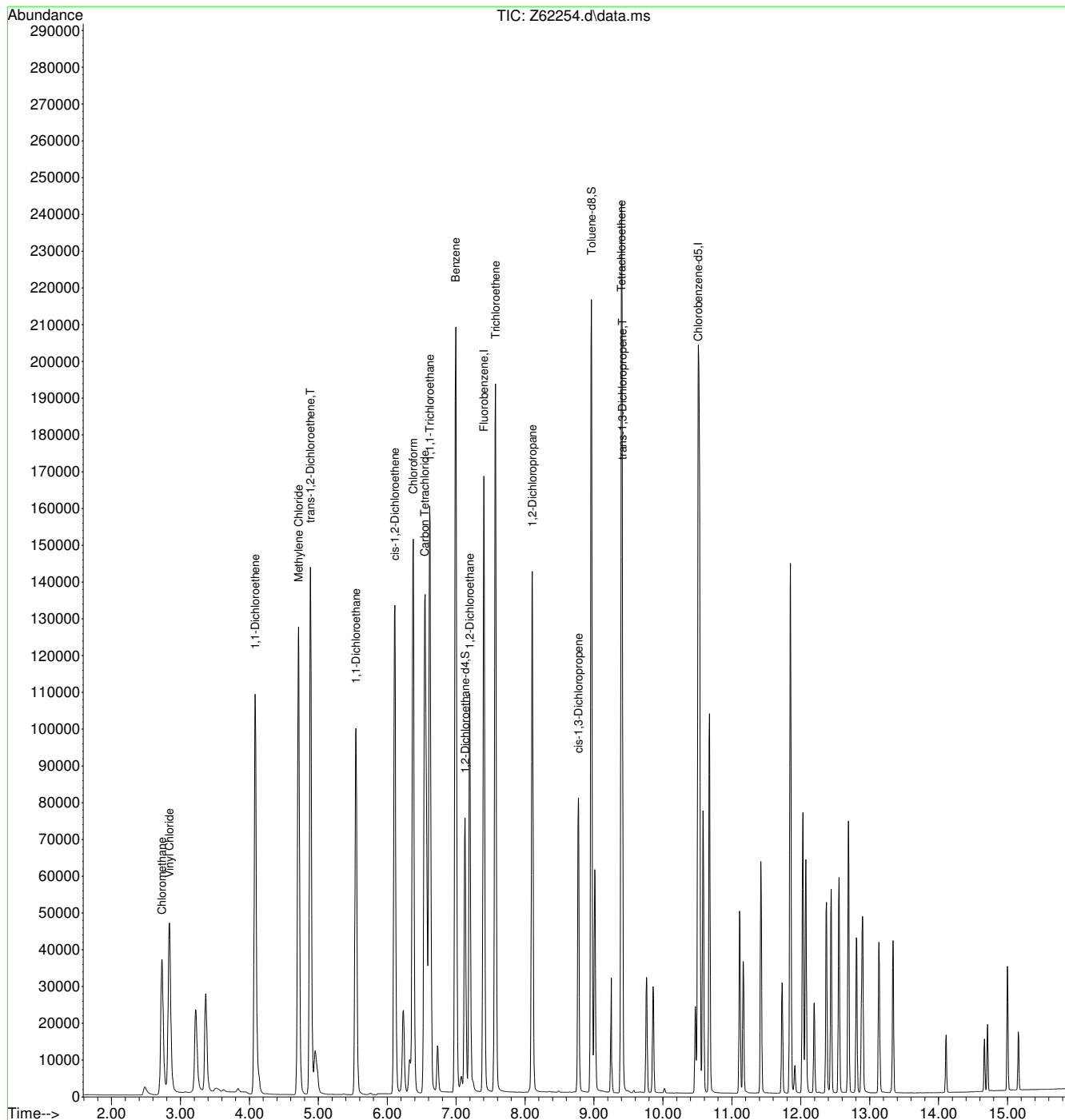




Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62254.d  
 Acq On : 12 Sep 2020 4:03 pm  
 Operator : stutip  
 Sample : fa78571-16ms,10  
 Misc : MS47192,VZ2415,,,,,10  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 06:28:05 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.4.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2415\  
 Data File : Z62255.d  
 Acq On : 12 Sep 2020 4:22 pm  
 Operator : stutip  
 Sample : fa78571-16msd,10  
 Misc : MS47192,VZ2415,,,,,10  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 14 06:28:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

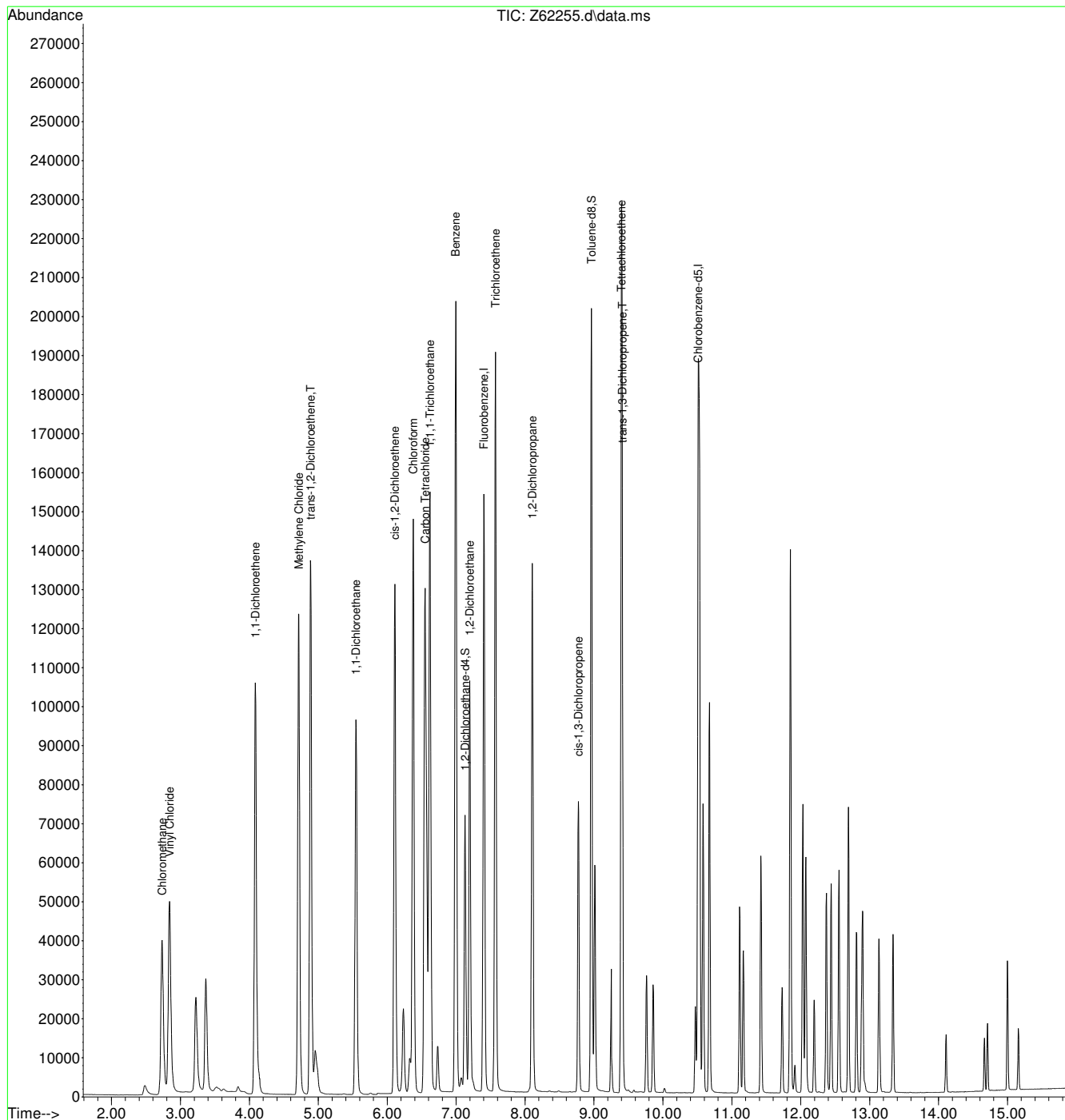
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1780202	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1433451	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	580187	5.27	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	105.40%	
19) Toluene-d8	8.961	98	1740698	5.00	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	867309	5.86	ppb		99
3) Chloromethane	2.733	50	726275	5.87	ppb		99
4) 1,1-Dichloroethene	4.087	96	618690	5.74	ppb	#	89
5) Methylene Chloride	4.717	84	837836	5.01	ppb	#	88
6) trans-1,2-Dichloroethene	4.890	96	746486	5.68	ppb		90
7) 1,1-Dichloroethane	5.546	63	1291079	5.79	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	787499	5.39	ppb		94
9) Chloroform	6.377	83	1462496	5.47	ppb		99
10) Carbon Tetrachloride	6.549	117	958467	5.28	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	1323421	5.65	ppb		100
12) Benzene	6.994	78	2871403	5.79	ppb		97
14) 1,2-Dichloroethane	7.198	62	1036770	5.55	ppb		99
15) Trichloroethene	7.571	95	873238	5.74	ppb		85
16) 1,2-Dichloropropane	8.105	63	697914	5.53	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	571025	4.19	ppb		98
20) trans-1,3-Dichloropropene	9.412	75	475044	3.95	ppb		99
21) Tetrachloroethene	9.399	166	866053	5.34	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62255.d  
Acq On : 12 Sep 2020 4:22 pm  
Operator : stutip  
Sample : fa78571-16msd,10  
Misc : MS47192,VZ2415,,,,,10  
ALS Vial : 19 Sample Multiplier: 1

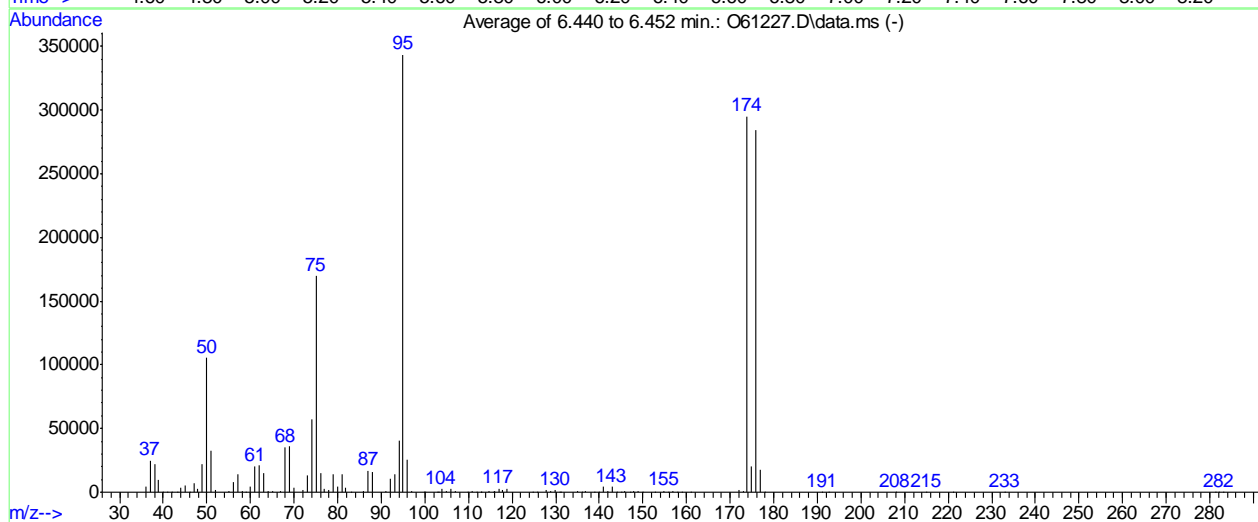
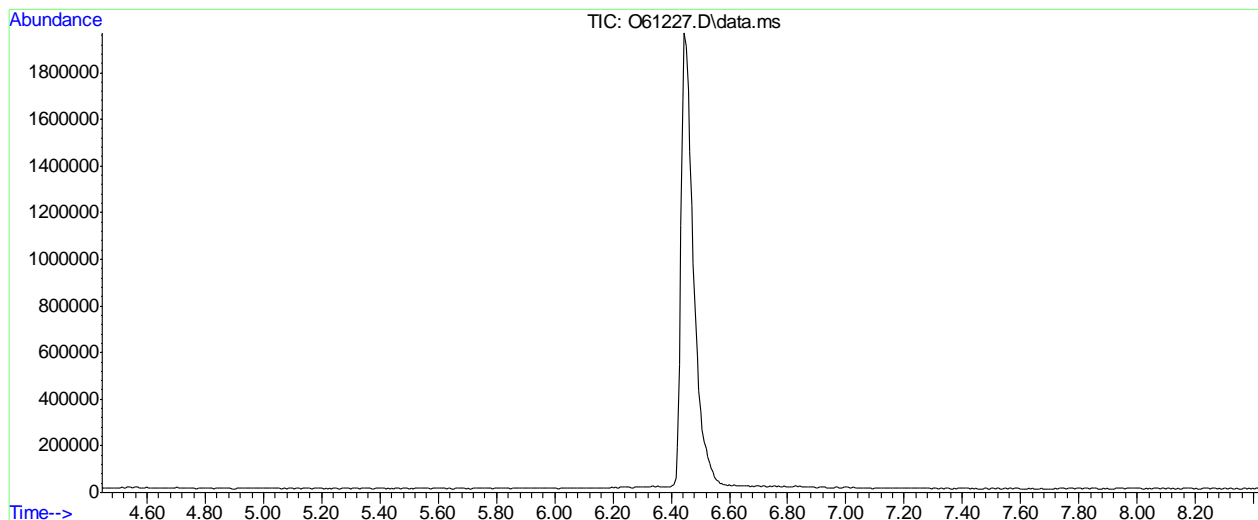
Quant Time: Sep 14 06:28:09 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.4.4  
7

Methods: SW-846 8260B  
 Data File : C:\msdchem\2\data\091120\O61227.D Vial: 100  
 Acq On : 11 Sep 2020 2:01 pm Operator: stutip  
 Sample : BFB Inst : MSVOA12  
 Misc : MS47183,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 460

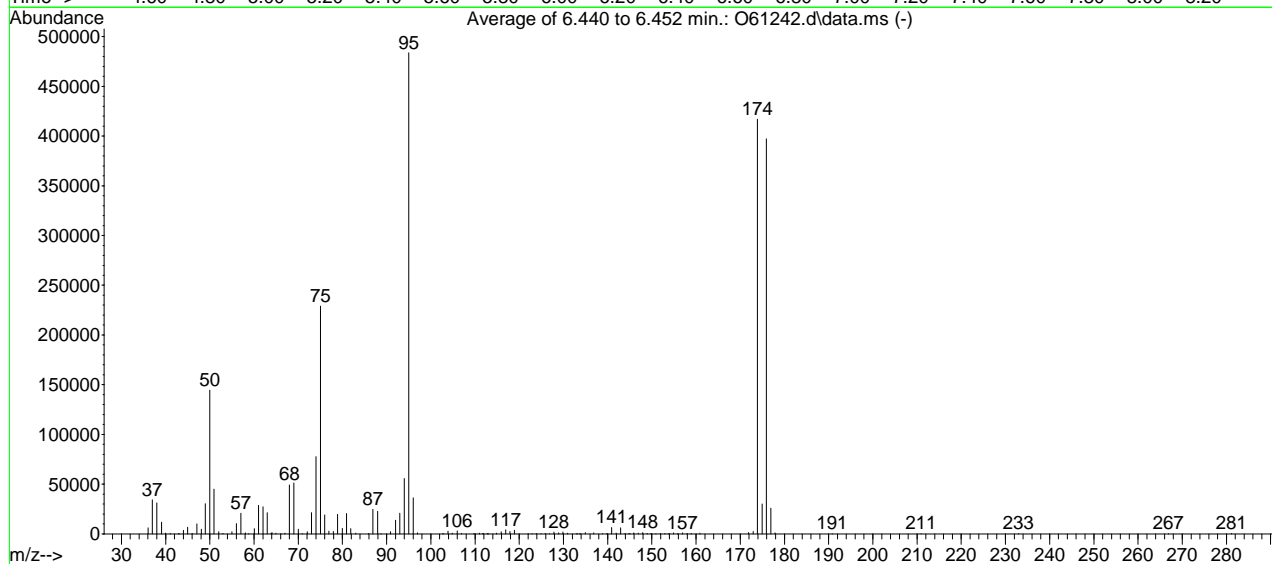
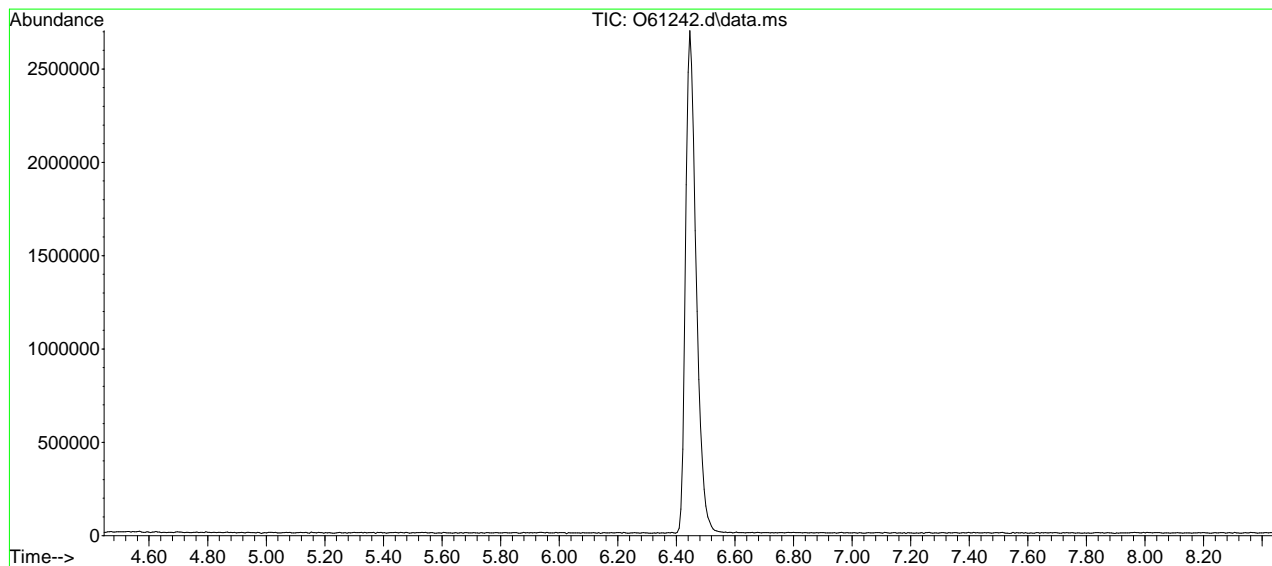
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.7	105346	PASS
75	95	30	60	49.4	169774	PASS
95	95	100	100	100.0	343616	PASS
96	95	5	9	7.4	25531	PASS
173	174	0.00	2	0.5	1340	PASS
174	95	50	100	85.8	294848	PASS
175	174	5	9	7.0	20565	PASS
176	174	95	101	96.4	284096	PASS
177	176	5	9	6.2	17677	PASS

O61227.D SIMCL091120.M Sun Sep 13 19:46:55 2020

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\ed...-2020\vo2357\O61242.d Vial: 4  
 Acq On : 11 Sep 2020 7:53 pm Operator: stutip  
 Sample : BFB Inst : MSVOA12  
 Misc : MS47184,VO2357,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 459

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.9	144405	PASS
75	95	30	60	47.4	229077	PASS
95	95	100	100	100.0	483691	PASS
96	95	5	9	7.5	36268	PASS
173	174	0.00	2	0.6	2367	PASS
174	95	50	100	86.2	416875	PASS
175	174	5	9	7.2	29891	PASS
176	174	95	101	95.3	397163	PASS
177	176	5	9	6.5	25669	PASS

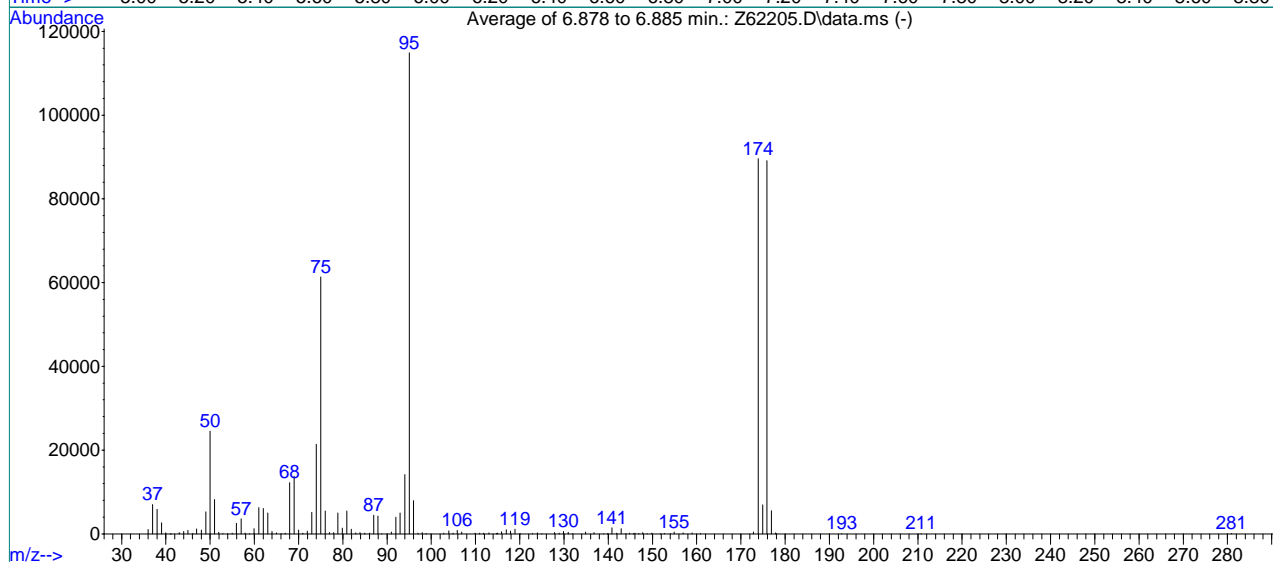
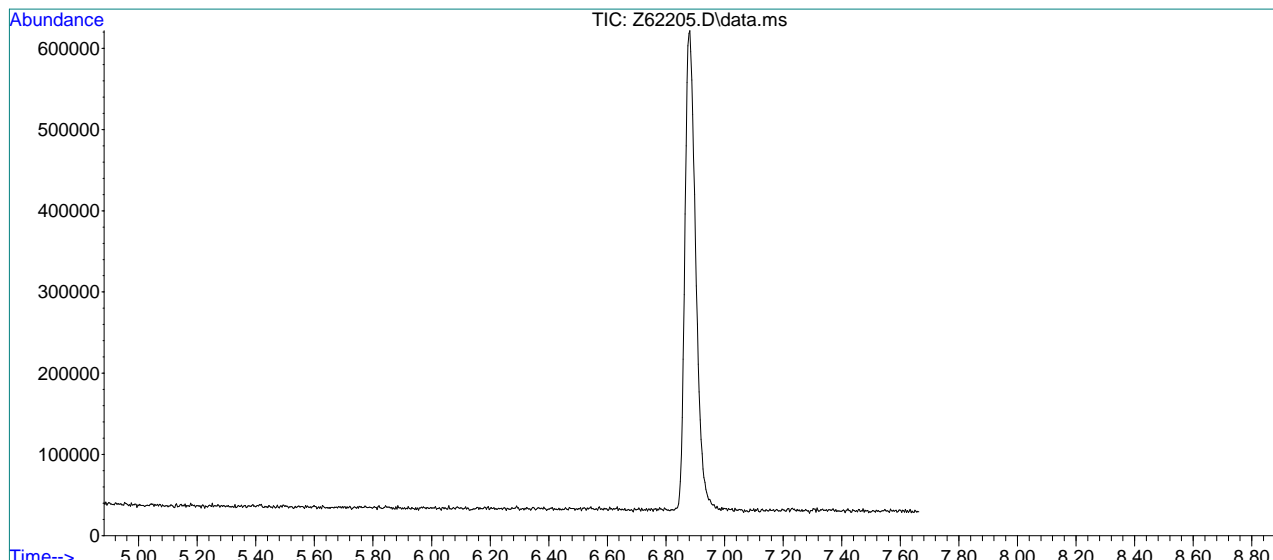
O61242.d SIMCL091120.M Mon Sep 14 02:54:09 2020

BFB

Data File : C:\msdchem\1\data\091120\Z62205.D  
 Acq On : 11 Sep 2020 5:20 pm  
 Sample : BFB  
 Misc : MS47171,VZ2414,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: SHANICAO  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2112, 2113, 2114; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	24546	PASS
75	95	30	60	53.4	61341	PASS
95	95	100	100	100.0	114880	PASS
96	95	5	9	6.9	7912	PASS
173	174	0.00	2	0.5	429	PASS
174	95	50	100	78.0	89573	PASS
175	174	5	9	7.7	6903	PASS
176	174	95	101	99.5	89128	PASS
177	176	5	9	6.2	5541	PASS

7.5.3  
7

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1011	48.00	892	58.90	60	70.00	922
37.00	6971	49.00	5241	59.95	1253	70.95	177
38.00	5869	49.95	24546	61.00	6279	71.95	655
39.00	2653	51.00	8188	62.00	6060	72.95	5098
39.95	227	51.95	363	63.00	4973	74.00	21419
41.00	0	52.90	63	64.00	544	75.00	61341
43.00	313	53.95	60	65.00	240	76.00	5430
44.00	548	55.00	143	66.10	58	76.95	281
44.95	816	55.95	2492	66.95	149	77.90	294
46.10	125	57.00	3597	68.00	12248	78.90	5021
46.95	1167	57.90	154	69.00	13760	79.90	1372

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	5453	92.95	4978	106.85	414	120.10	70
81.90	1129	94.00	14133	109.90	170	122.85	126
82.95	219	95.00	114880	110.90	179	123.95	220
83.90	276	96.00	7912	111.80	175	125.00	58
84.95	162	97.00	153	113.00	244	127.85	303
86.05	163	97.95	274	114.70	110	128.90	142
86.95	4427	98.85	130	115.00	187	129.90	541
87.95	4242	102.85	150	115.85	519	130.95	388
88.80	60	103.95	710	116.95	998	131.90	56
90.95	419	104.90	190	117.90	667	134.90	414
92.00	4019	105.85	848	118.90	1119	136.80	272

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

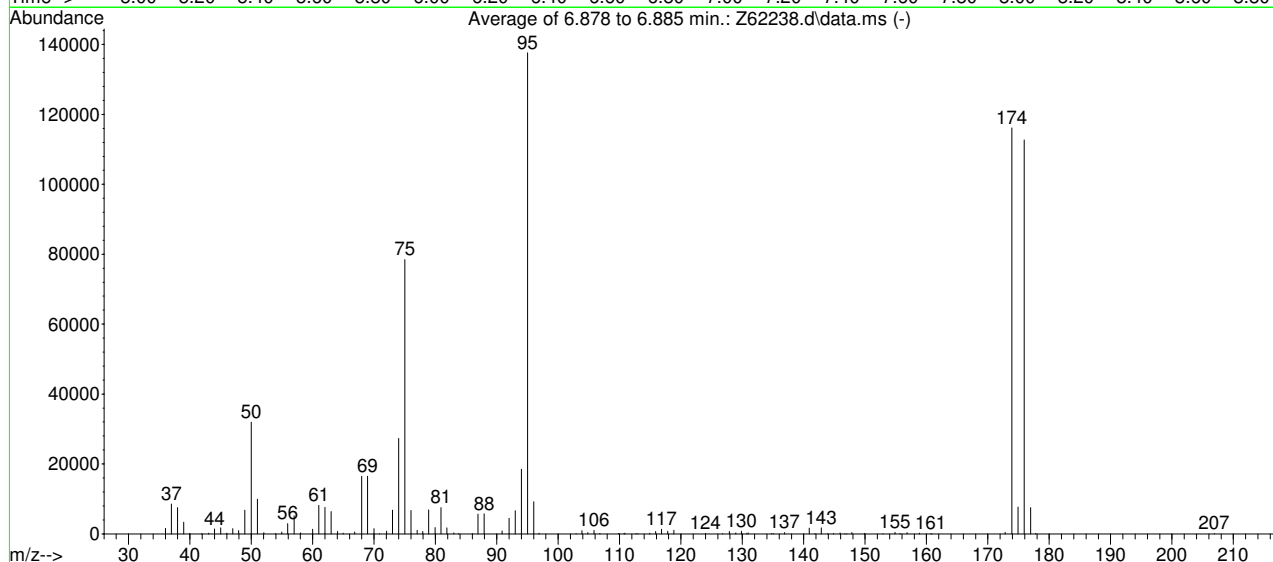
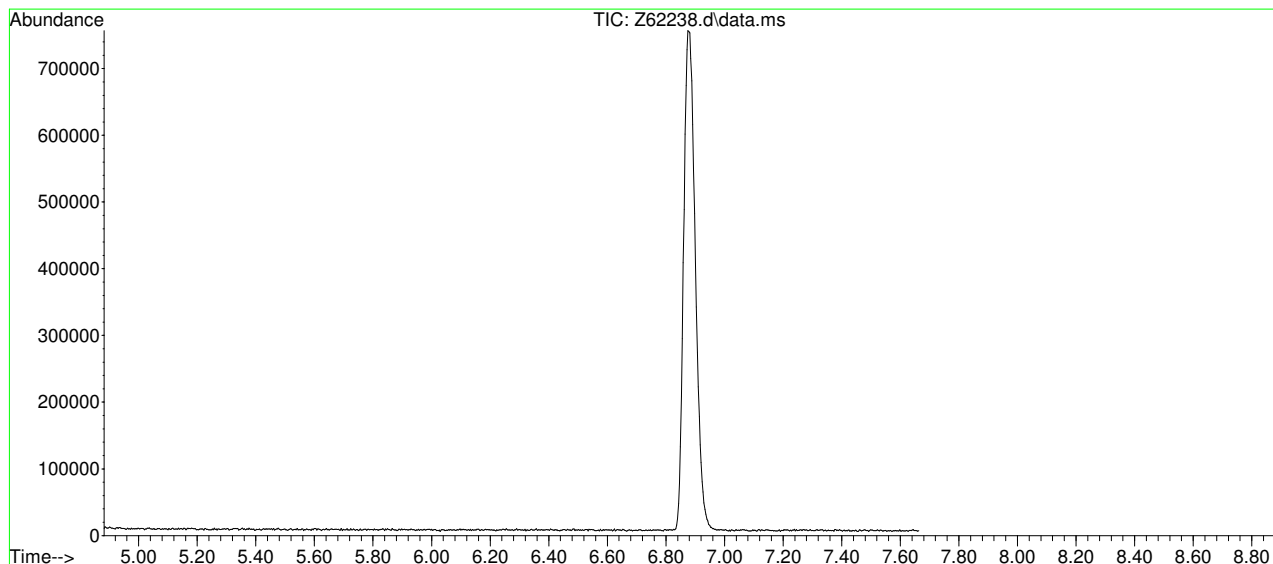
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.00	58	148.80	62	174.90	6903		
139.90	79	149.85	154	175.90	89128		
140.85	1457	151.80	52	176.90	5541		
141.90	160	152.70	111	177.85	205		
142.90	1269	154.10	53	178.10	53		
144.00	56	154.90	432	192.80	68		
144.85	153	156.90	235	210.70	66		
145.70	72	158.95	210	280.90	72		
146.00	182	160.85	116				
146.90	77	172.85	429				
147.80	337	173.90	89573				

BFB

Data File : C:\msdchem\1\data\jo...-2020\vz2415\Z62238.d Vial: 2  
 Acq On : 12 Sep 2020 10:44 am Operator: stutip  
 Sample : BFB Inst : MSVOA15  
 Misc : MS47183,VZ2415,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2112, 2113, 2114; Background Corrected with Scan 2092

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	31960	PASS
75	95	30	60	57.0	78448	PASS
95	95	100	100	100.0	137600	PASS
96	95	5	9	6.7	9223	PASS
173	174	0.00	2	0.4	456	PASS
174	95	50	100	84.4	116125	PASS
175	174	5	9	6.6	7682	PASS
176	174	95	101	97.0	112669	PASS
177	176	5	9	6.6	7473	PASS

7.5.4  
7



Average of 6.878 to 6.885 min.: Z62238.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1559	47.95	920	61.00	8123	73.00	6773
37.00	8506	48.95	6807	62.00	7574	74.00	27320
38.00	7473	50.00	31960	63.00	6421	75.00	78448
39.00	3301	51.00	9937	64.05	695	76.00	6710
39.95	100	52.05	372	64.95	187	77.00	974
41.90	13	53.90	56	66.85	518	77.95	719
43.05	212	54.95	506	68.00	16469	78.90	6834
44.00	1380	55.95	2975	68.95	16490	79.95	1769
45.00	1708	57.00	5137	70.00	1488	80.90	7501
46.00	177	58.05	291	70.90	60	81.85	1733
47.00	1487	60.00	1310	72.05	789	83.00	298

Average of 6.878 to 6.885 min.: Z62238.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.80	50	102.90	63	115.90	667	134.80	109
86.00	63	103.85	926	116.85	1323	135.10	51
86.95	5619	104.85	370	117.85	771	136.90	377
87.95	5725	105.85	1017	118.85	992	140.90	1680
90.85	877	106.80	163	124.00	89	141.80	71
92.00	4438	109.85	132	126.80	61	142.85	1763
93.00	6587	110.70	53	127.90	724	143.90	80
94.00	18469	110.85	172	128.95	293	144.85	140
95.00	137600	112.70	96	129.85	741	145.90	283
96.00	9223	113.00	67	130.70	129	146.70	64
96.90	218	114.90	238	130.95	251	147.00	61

Average of 6.878 to 6.885 min.: Z62238.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.85	394	174.90	7682				
149.90	91	175.90	112669				
152.90	65	176.95	7473				
154.85	422	177.80	153				
155.70	105	206.90	30				
156.85	350						
158.85	246						
160.70	79						
160.90	61						
172.80	456						
173.90	116125						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	316238	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.441	117	240066	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	128832	4.64	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%	
19) Toluene-d8	8.896	98	278677	4.75	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.00%	
Target Compounds						
2) Vinyl Chloride	2.905	62	3529	0.11	ug/L	100
3) Chloromethane	2.799	50	8825m	0.19	ug/L	
4) 1,1-Dichloroethene	4.089	61	4096	0.10	ug/L	83
5) Methylene Chloride	4.700	49	136057	1.74	ug/L	97
6) trans-1,2-Dichloroethene	4.869	61	5203	0.10	ug/L	83
7) 1,1-Dichloroethane	5.514	63	5816	0.10	ug/L	97
8) cis-1,2-Dichloroethene	6.072	96	2981	0.11	ug/L	88
9) Chloroform	6.333	83	5313	0.11	ug/L	81
10) Carbon Tetrachloride	6.505	117	3177	0.11	ug/L	80
11) 1,1,1-Trichloroethane	6.576	97	3749	0.11	ug/L	92
12) Benzene	6.943	78	10630m	0.11	ug/L	
14) 1,2-Dichloroethane	7.139	62	4857	0.09	ug/L	92
15) Trichloroethene	7.512	95	2945	0.11	ug/L	89
16) 1,2-Dichloropropane	8.040	63	3248m	0.09	ug/L	
17) cis-1,3-Dichloropropene	8.711	75	3070	0.08	ug/L	97
20) trans-1,3-Dichloropropene	9.343	75	2765	0.08	ug/L	91
21) Tetrachloroethene	9.343	166	2702m	0.12	ug/L	
22) 1,4-Dichlorobenzene	12.827	146	5272	0.10	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.038	75	1605m	0.12	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

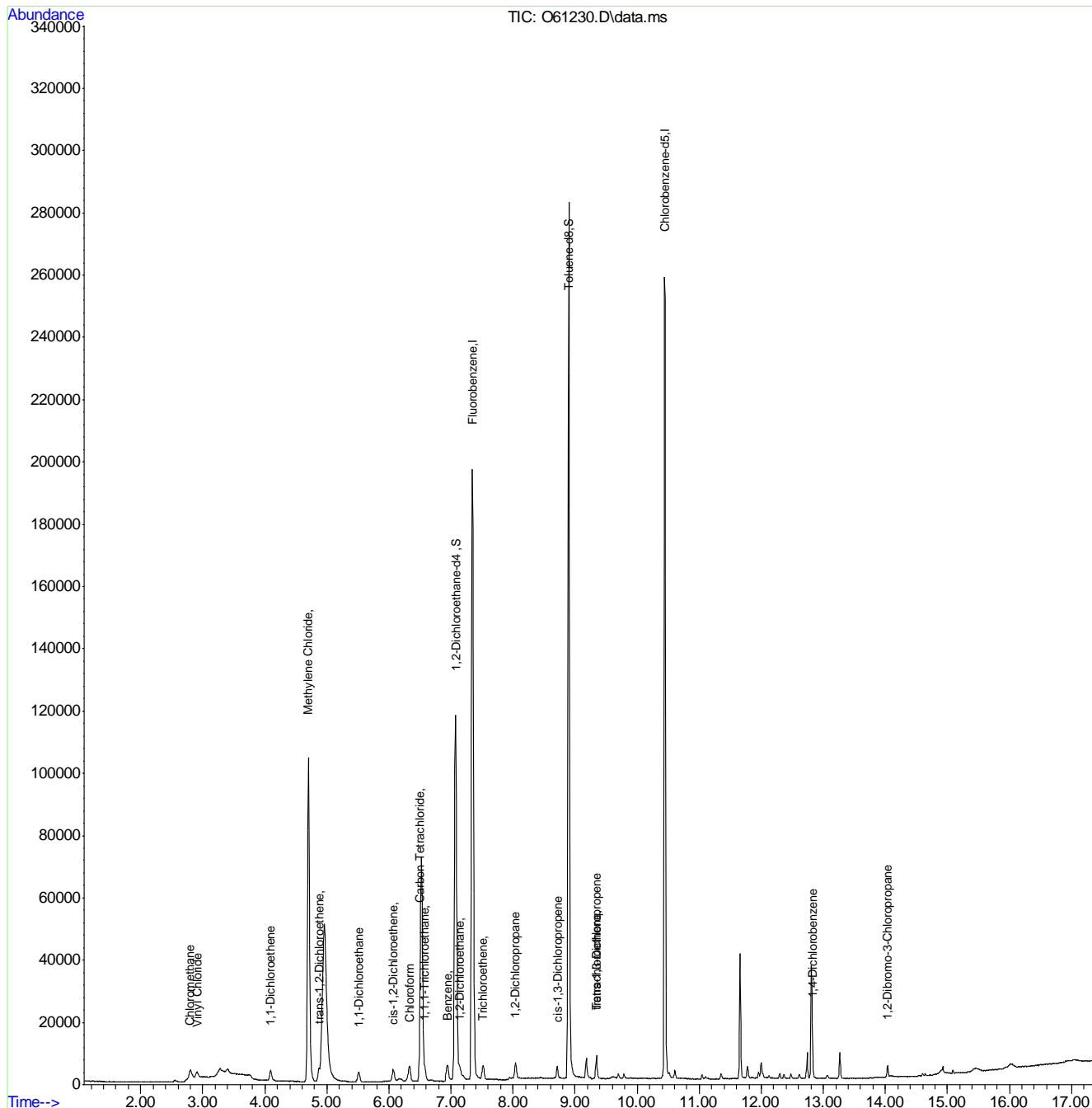
7.6.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



1.9.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61230.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:34      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.80	Poor instrument integration
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloropropane	78-87-5		8.04	Poor instrument integration
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration
1,2-Dibromo-3-chloropropane	96-12-8		14.04	Poor instrument integration

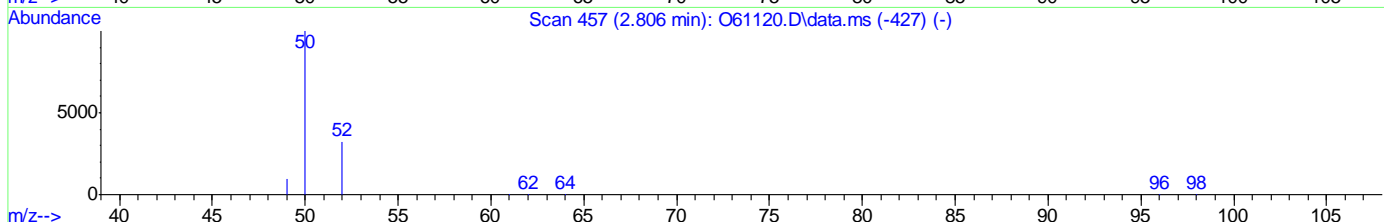
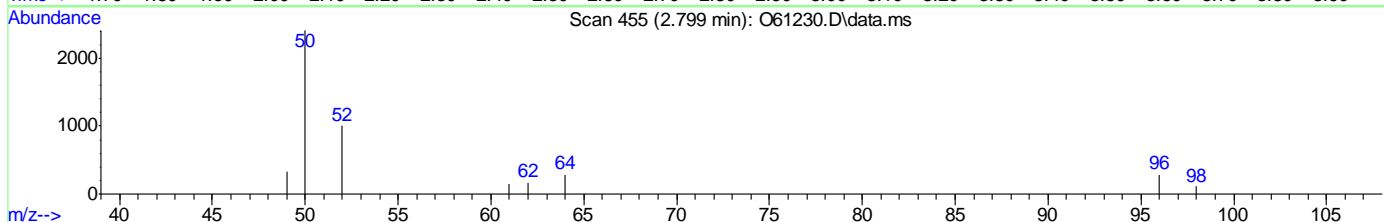
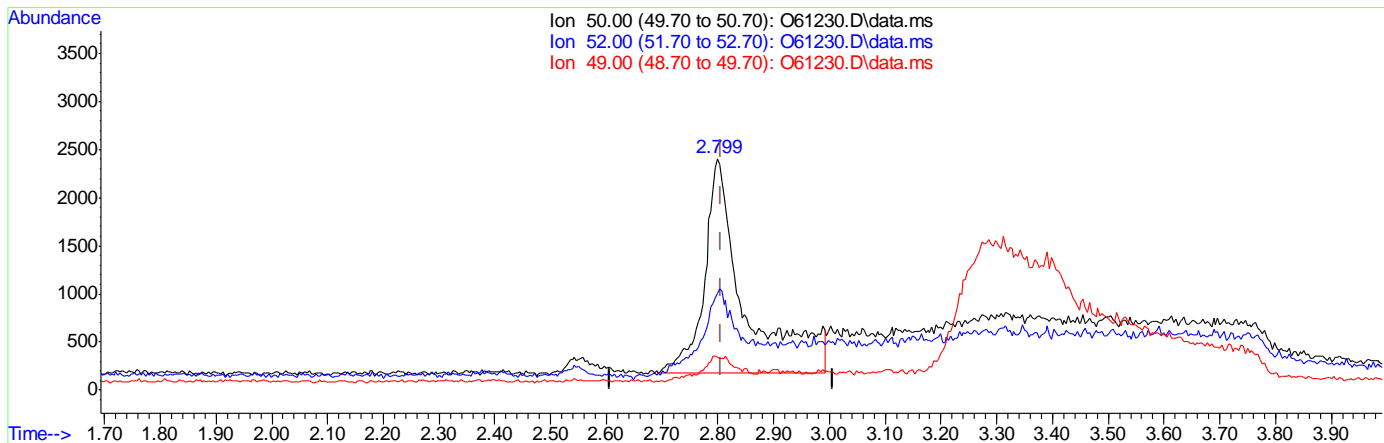
7.6.1.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(3) Chloromethane  
 2.799min (-0.007) 0.24ug/L  
 response 11047

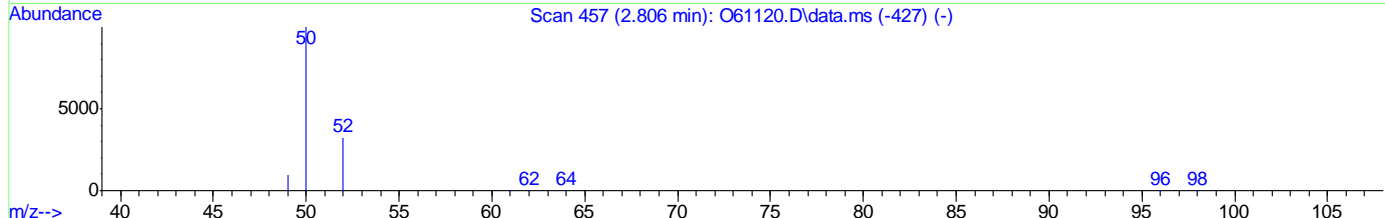
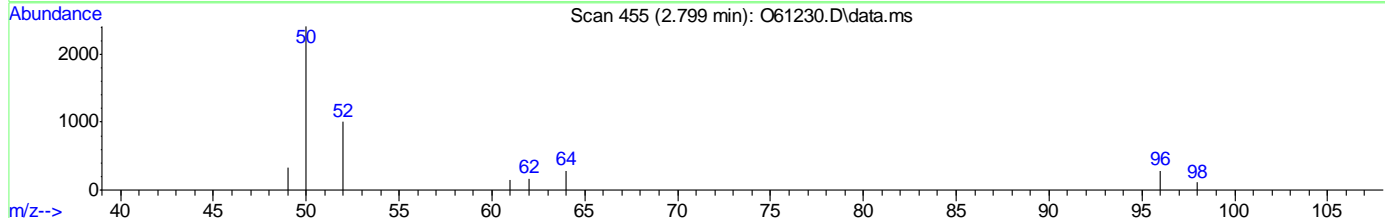
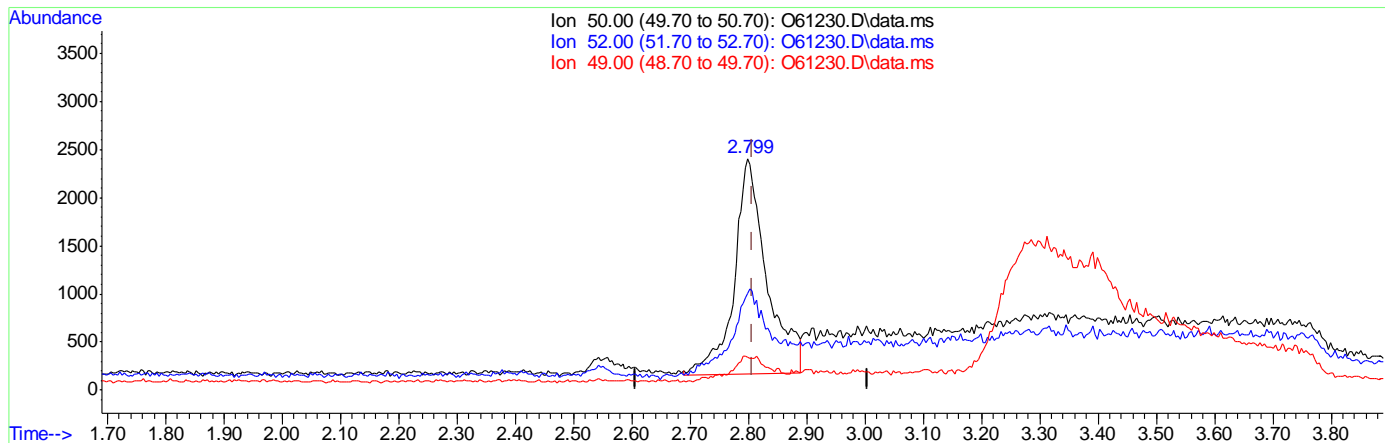
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	37.05
49.00	10.50	11.15
0.00	0.00	0.00

7.6.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(3) Chloromethane  
 2.799min (-0.007) 0.19ug/L m  
 response 8787

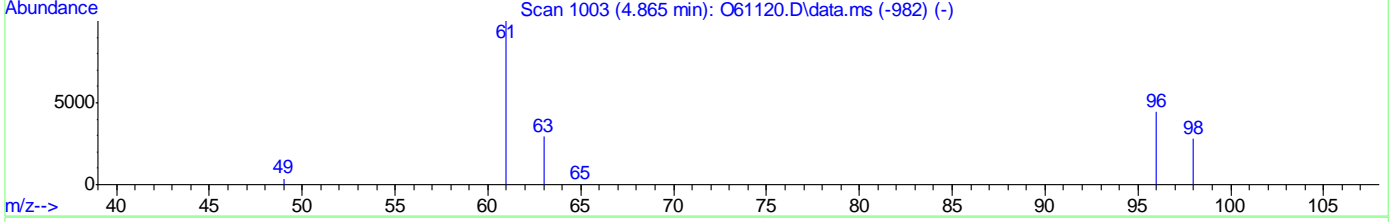
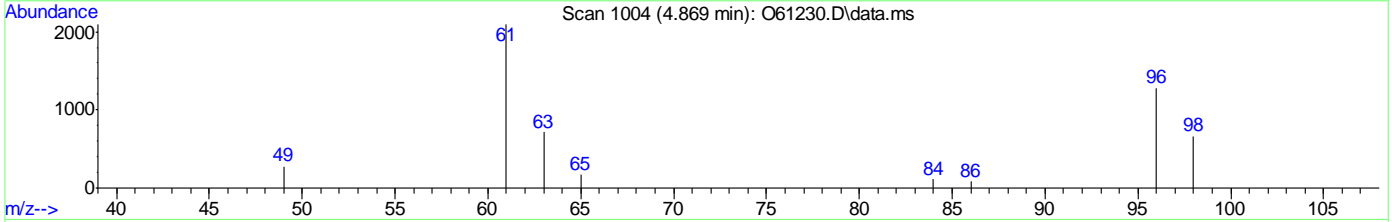
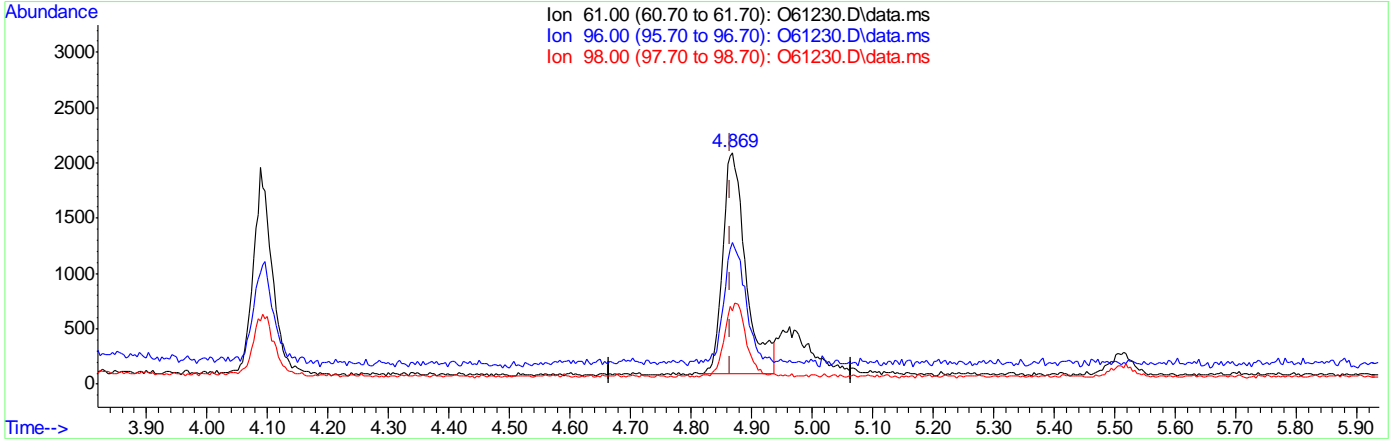
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

7.6.1.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(6) trans-1,2-Dichloroethene ( )

4.869min (+0.004) 0.10ug/L

response 5203

Ion	Exp%	Act%
61.00	100	100
96.00	66.90	54.30
98.00	41.10	28.92
0.00	0.00	0.00

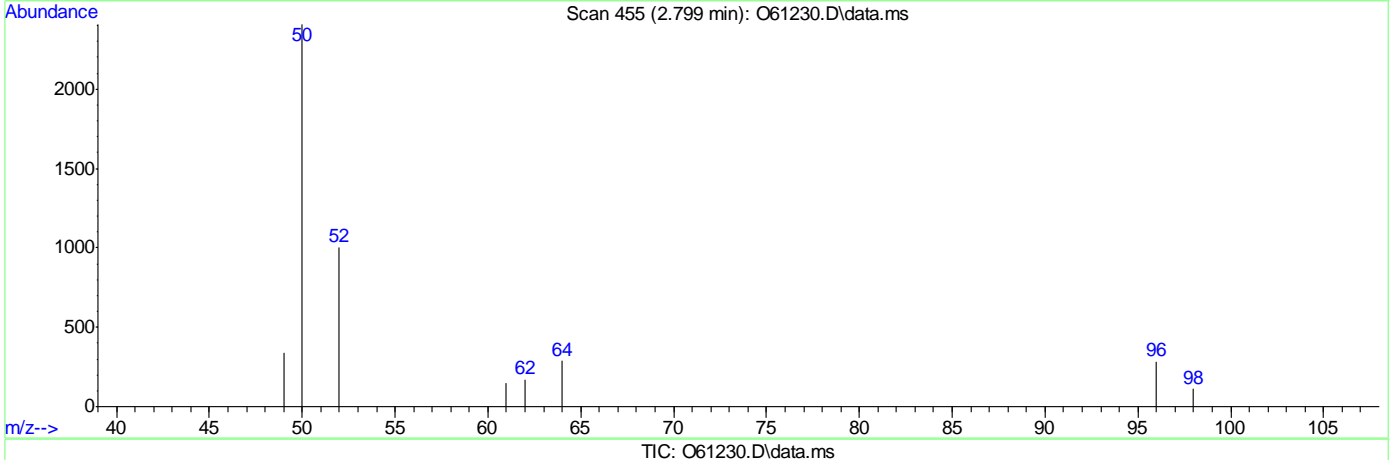
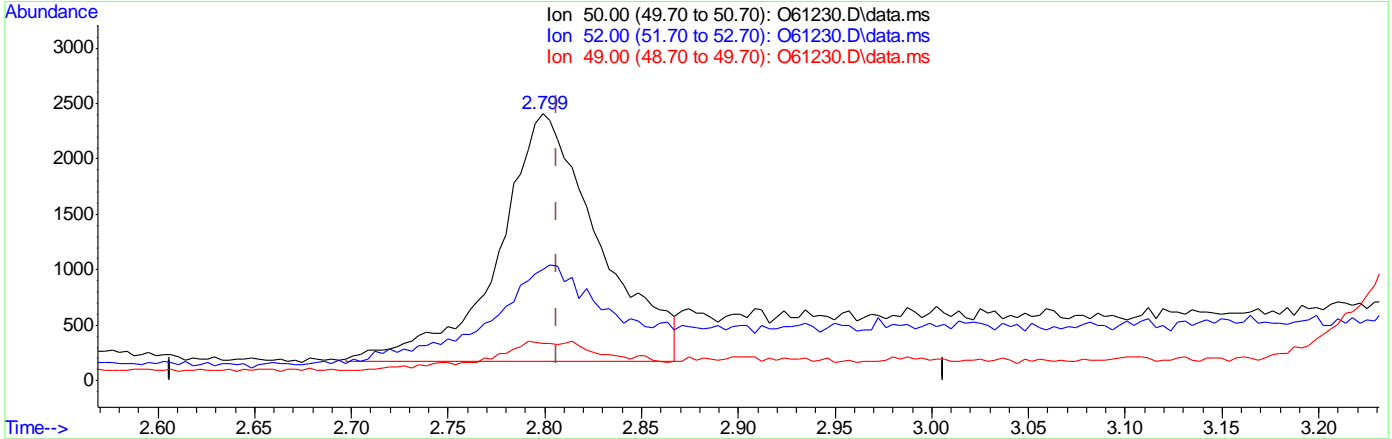
7.6.1.4

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane  
 2.799min (-0.007) 0.17ug/L m  
 response 8061

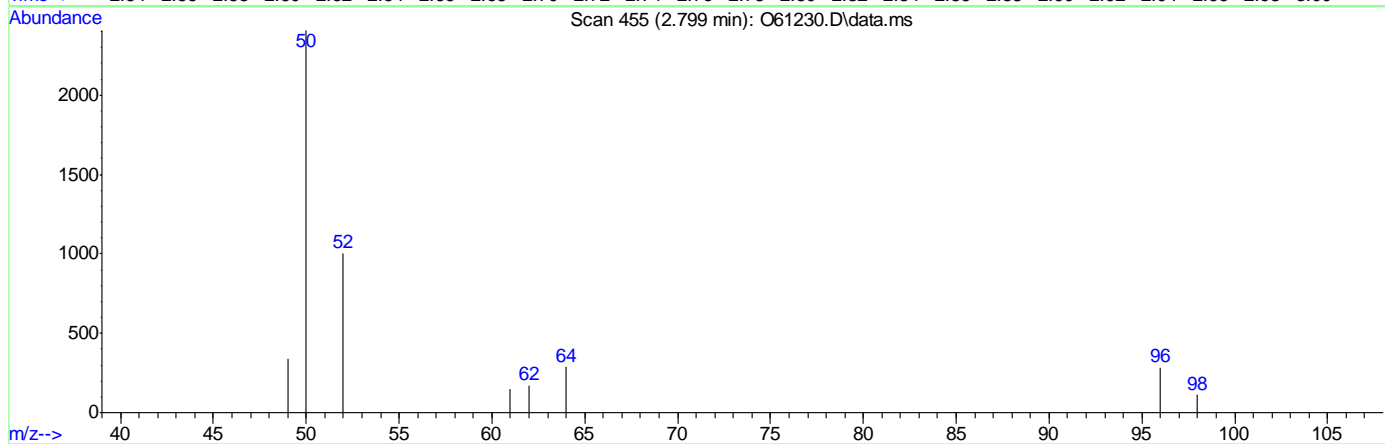
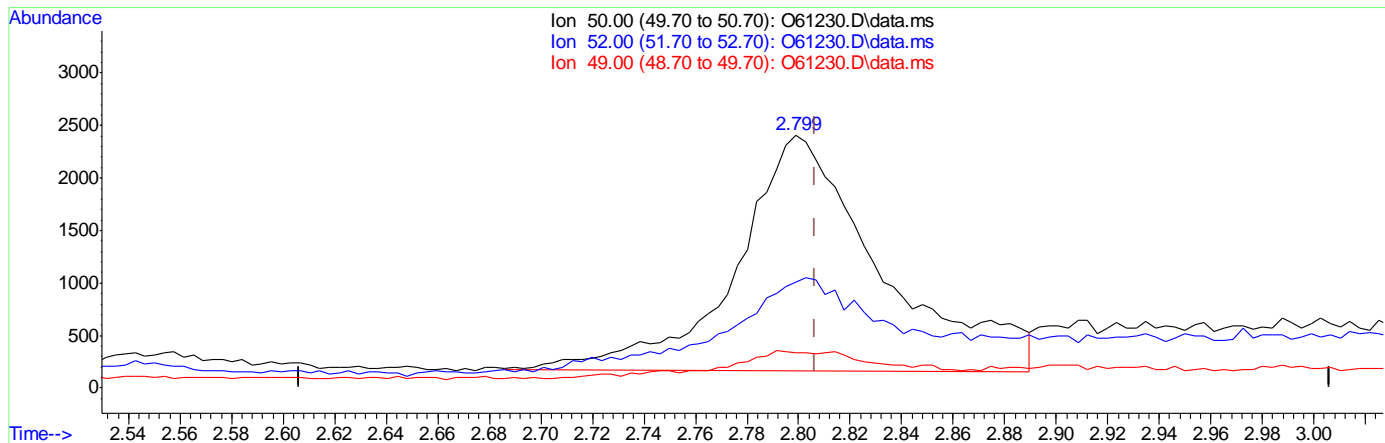
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.19ug/L m

response 8825

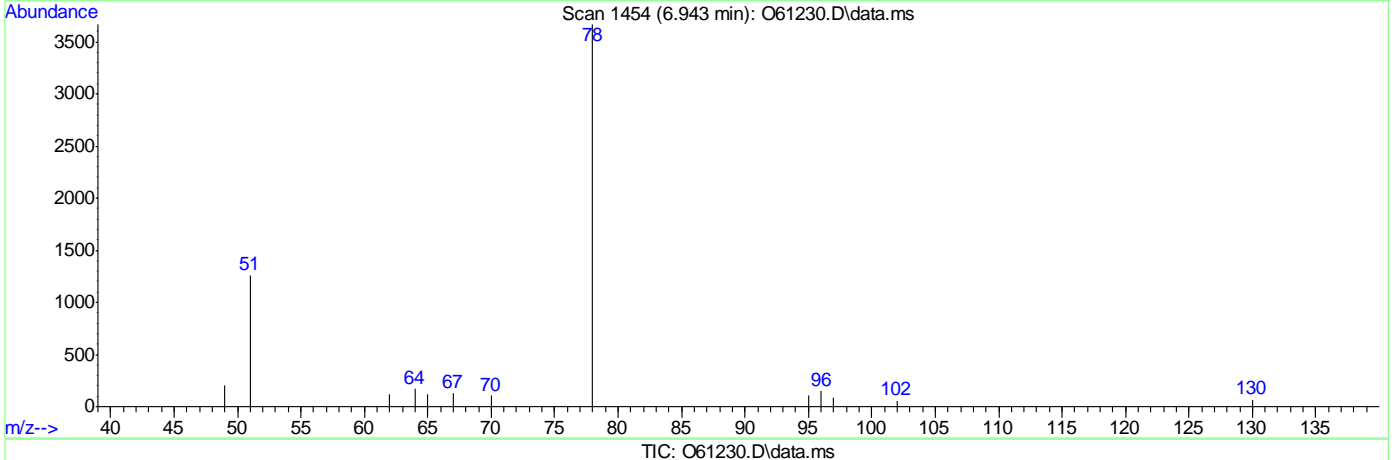
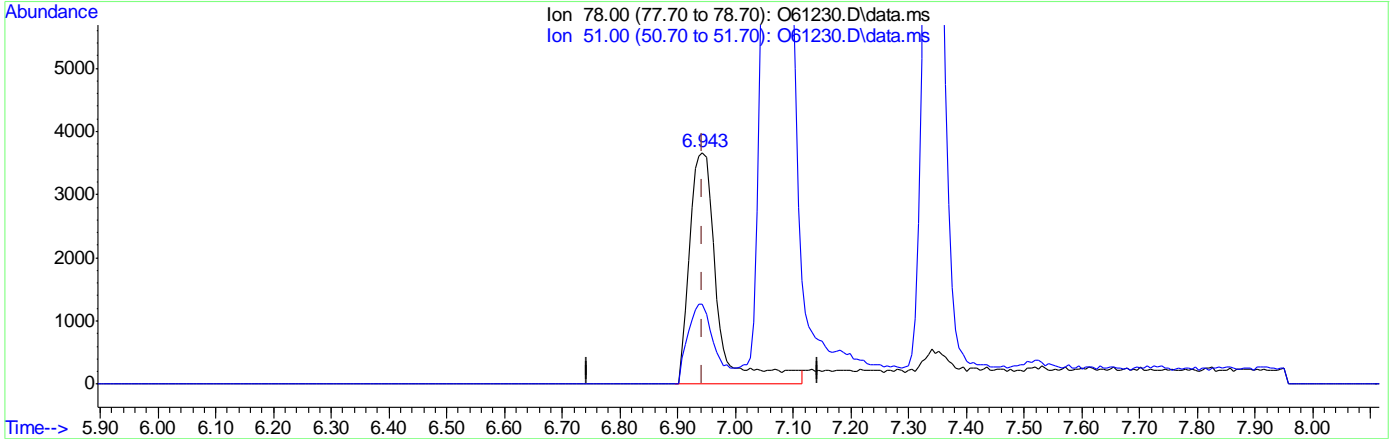
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

7.6.1.6  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



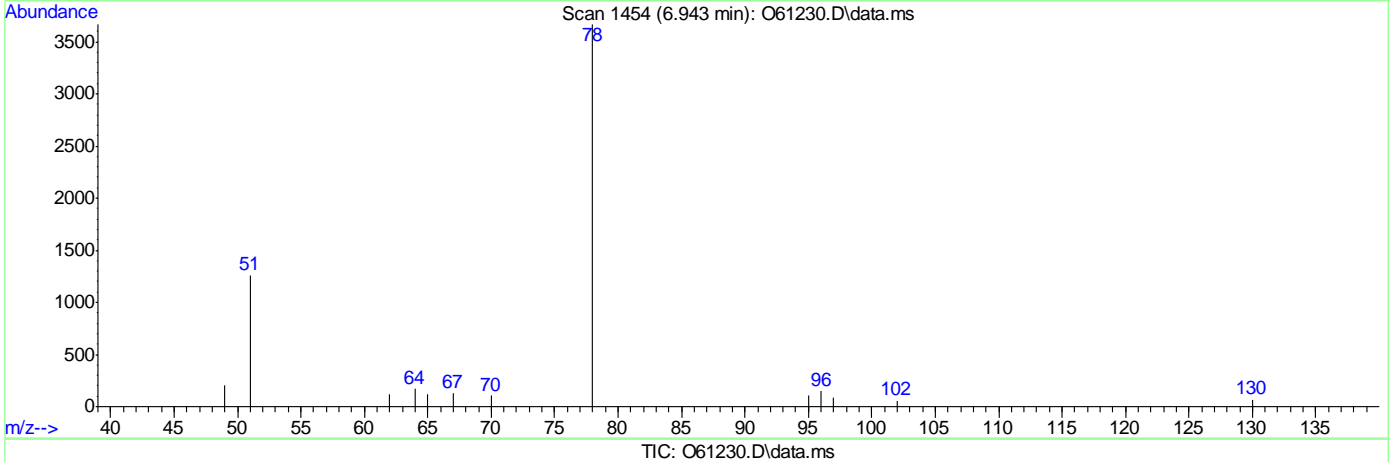
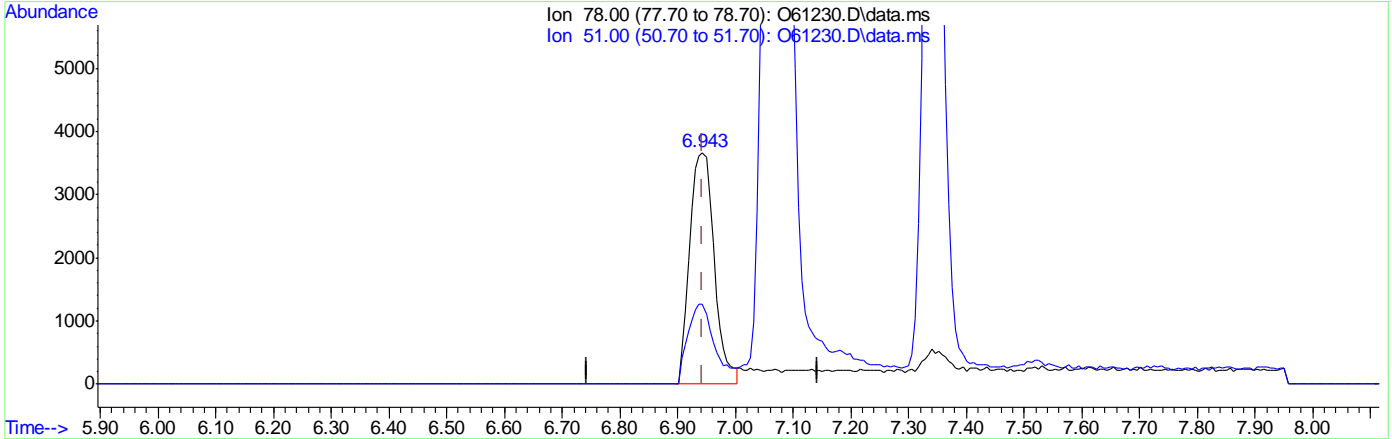
(12) Benzene ( )  
 6.943min (+0.000) 0.13ug/L  
 response 12135

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



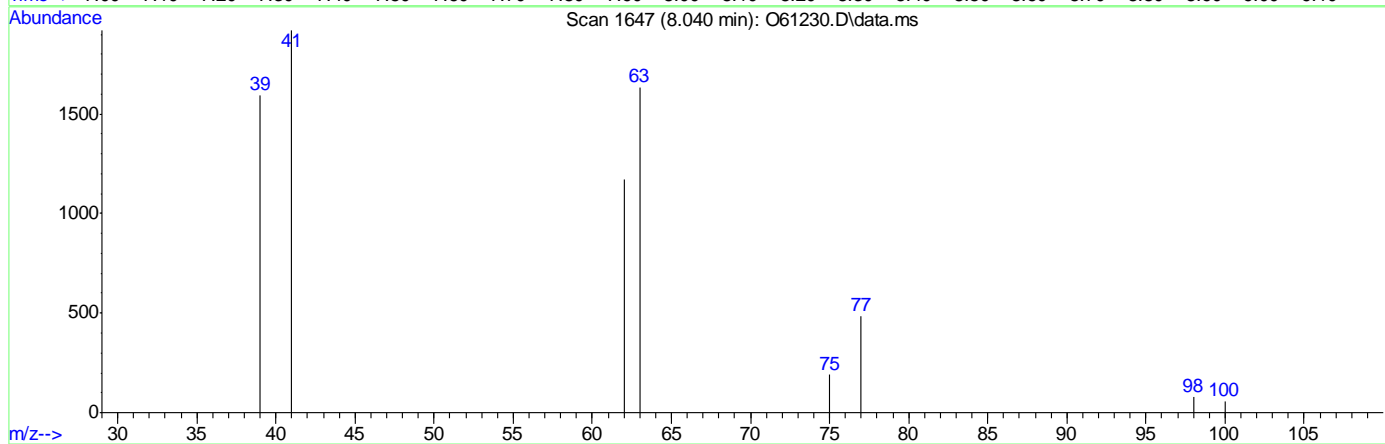
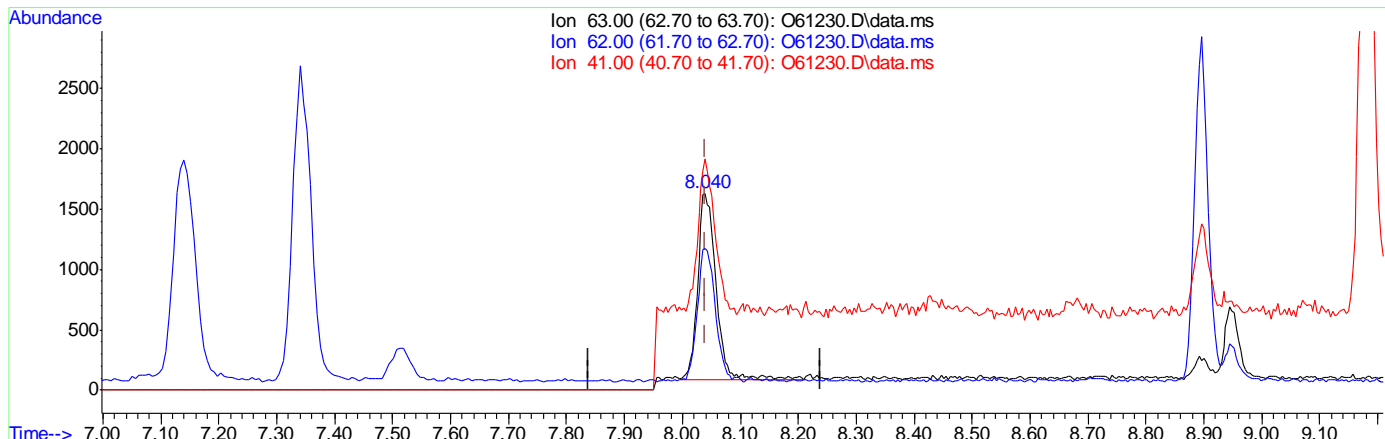
(12) Benzene ( )  
 6.943min (+0.000) 0.11ug/L m  
 response 10630

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.10ug/L  
 response 3437

Ion	Exp%	Act%
63.00	100	100
62.00	72.70	70.53
41.00	84.50	81.61
0.00	0.00	0.00

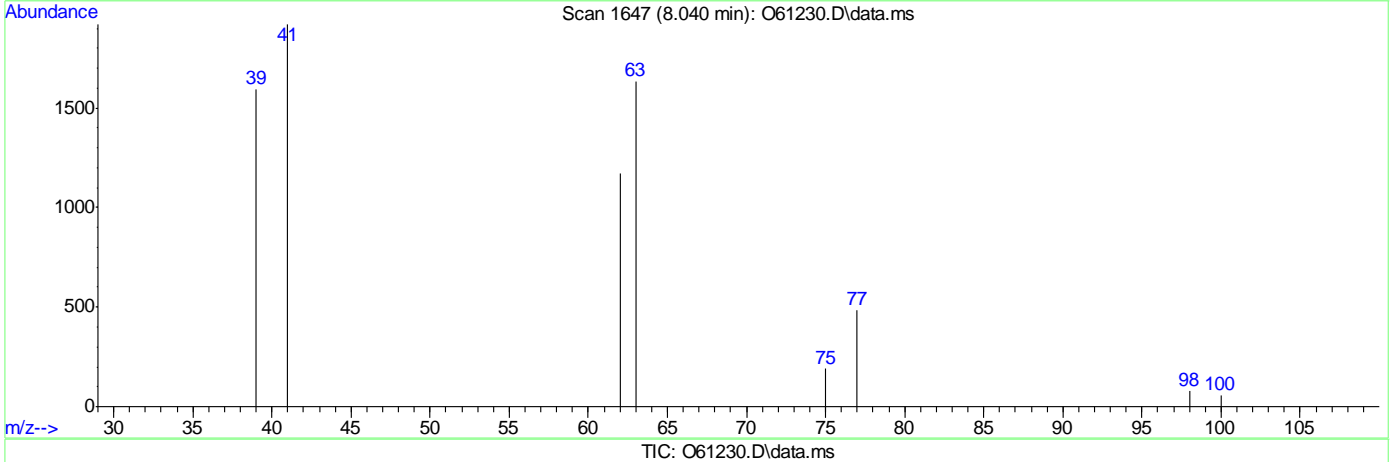
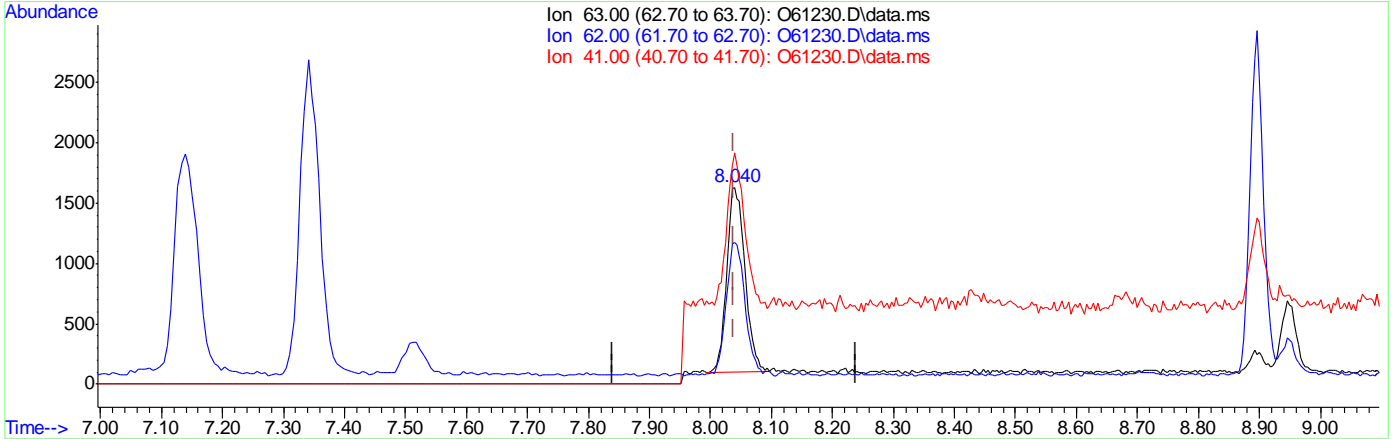
7.6.1.9  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



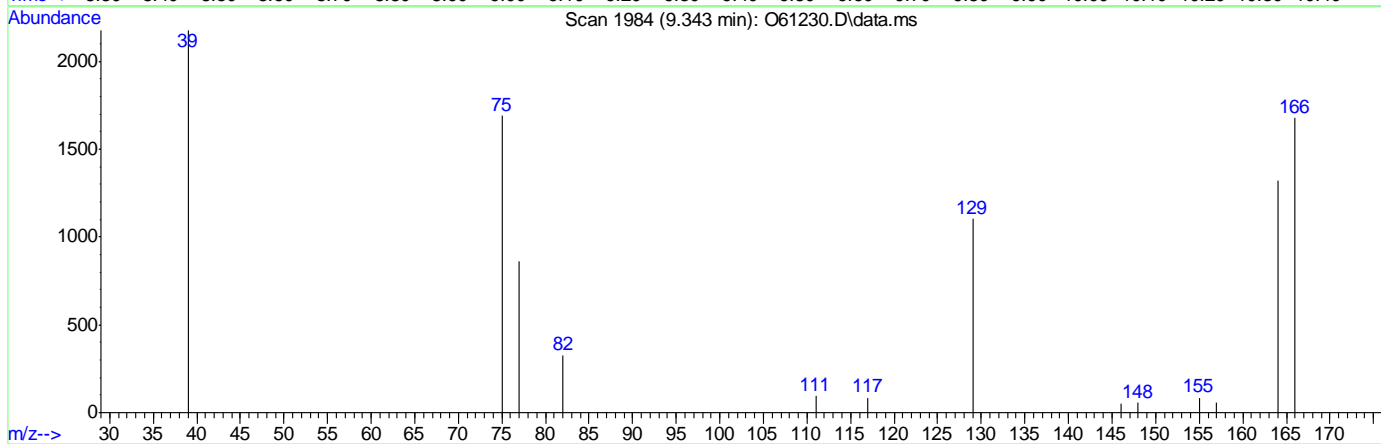
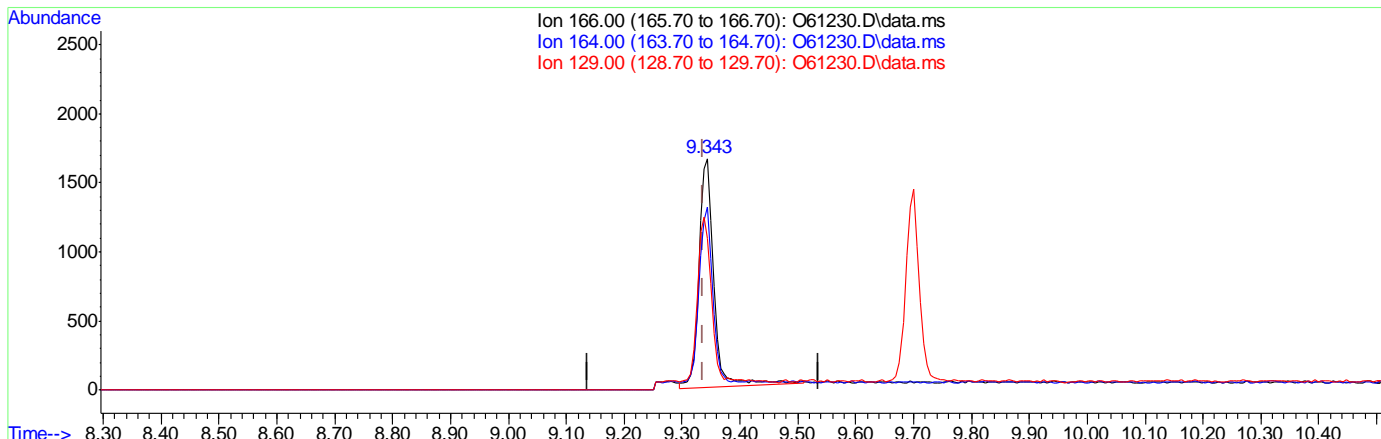
(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.09ug/L m  
 response 3248

Ion	Exp%	Act%
63.00	100	100
62.00	72.70	71.77
41.00	84.50	117.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )  
 9.343min (+0.006) 0.13ug/L  
 response 2993

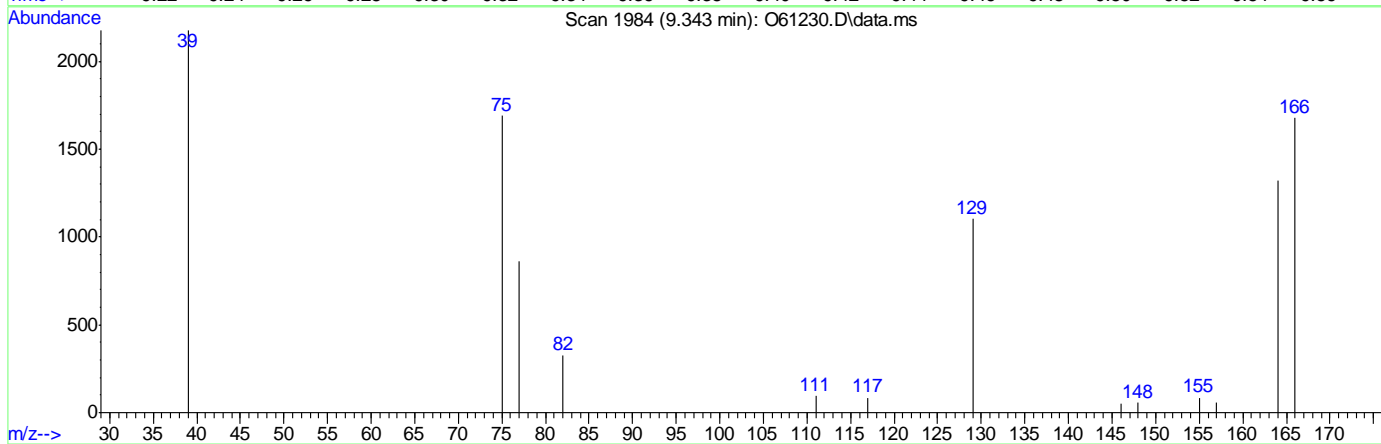
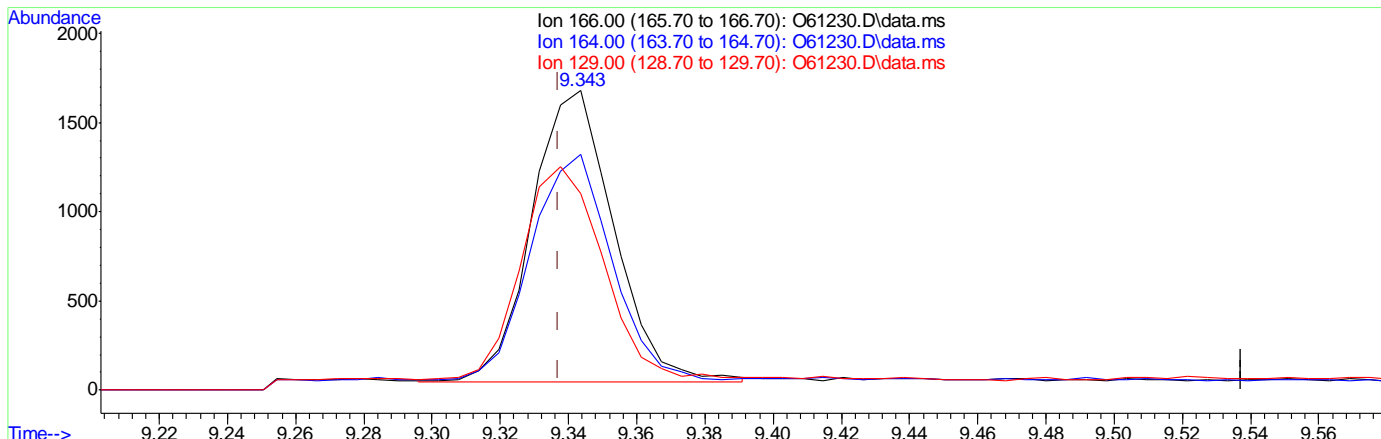
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	77.82
129.00	67.50	64.20
0.00	0.00	0.00

7.6.1.11  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.006) 0.12ug/L m

response 2702

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	78.83
129.00	67.50	65.71
0.00	0.00	0.00

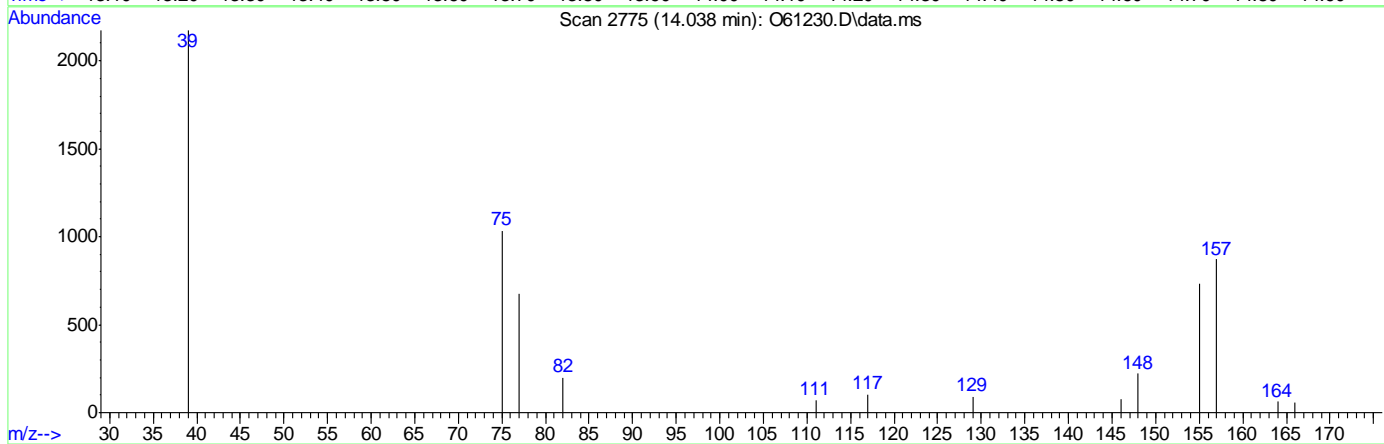
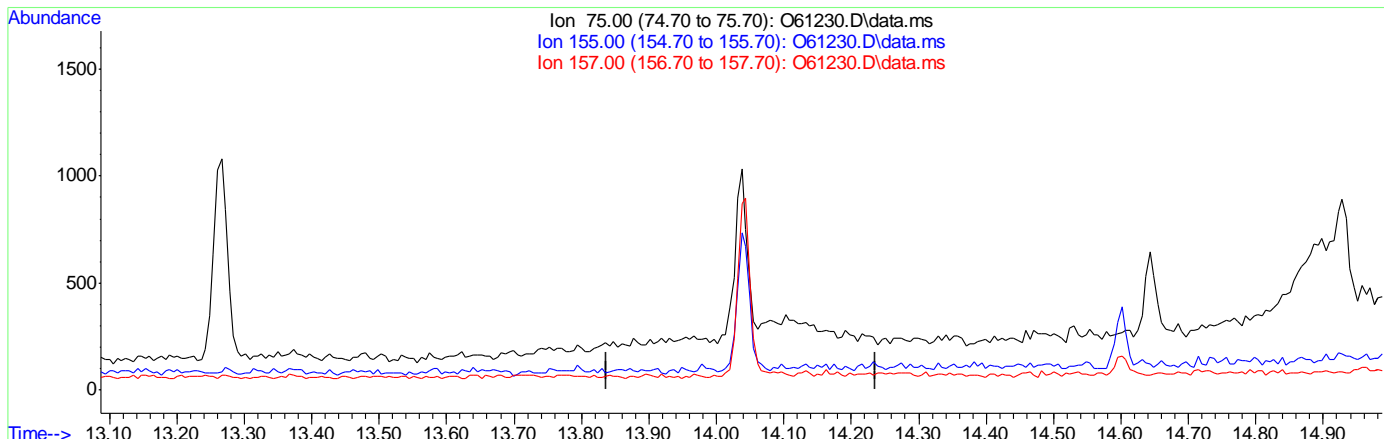
7.6.1.12  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.037min (-14.037) 0.00ug/L

response 0

Ion	Exp%	Act%
75.00	100	0.00
155.00	88.00	0.00#
157.00	106.80	0.00#
0.00	0.00	0.00

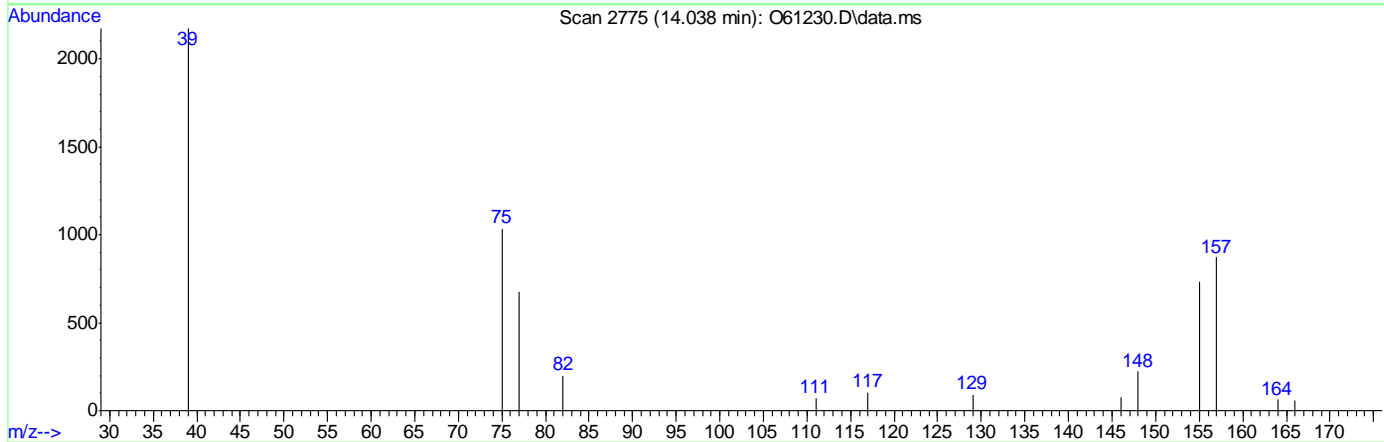
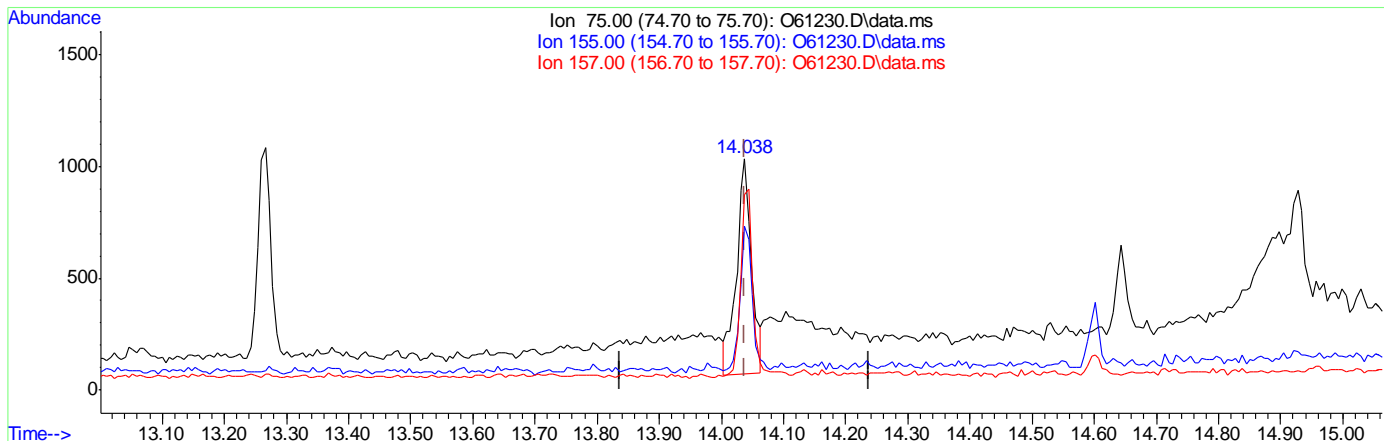
7.6.1.13  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.038min (+0.000) 0.12ug/L m

response 1605

Ion	Exp%	Act%
75.00	100	100
155.00	88.00	70.99
157.00	106.80	84.43#
0.00	0.00	0.00

7.6.1.14  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : stutip  
 Sample : IC2356-2 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 18:02:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	308238	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	234700	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	125580	4.64	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%		
19) Toluene-d8	8.896	98	269907	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	19507	0.64	ug/L		96
3) Chloromethane	2.799	50	33695	0.75	ug/L		90
4) 1,1-Dichloroethene	4.092	61	22337	0.54	ug/L		92
5) Methylene Chloride	4.703	49	128834	1.69	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	28030	0.55	ug/L		84
7) 1,1-Dichloroethane	5.514	63	30310	0.52	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	14558	0.56	ug/L #		80
9) Chloroform	6.333	83	26026	0.55	ug/L		94
10) Carbon Tetrachloride	6.510	117	17328	0.59	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	19399	0.57	ug/L		89
12) Benzene	6.943	78	51252m	0.56	ug/L		
14) 1,2-Dichloroethane	7.139	62	24323	0.48	ug/L		91
15) Trichloroethene	7.512	95	15009	0.56	ug/L		93
16) 1,2-Dichloropropane	8.040	63	17486	0.52	ug/L		93
17) cis-1,3-Dichloropropene	8.711	75	15877	0.42	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	14216	0.40	ug/L		98
21) Tetrachloroethene	9.337	166	14813	0.65	ug/L		90
22) 1,4-Dichlorobenzene	12.827	146	27579	0.56	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	6106	0.47	ug/L		98

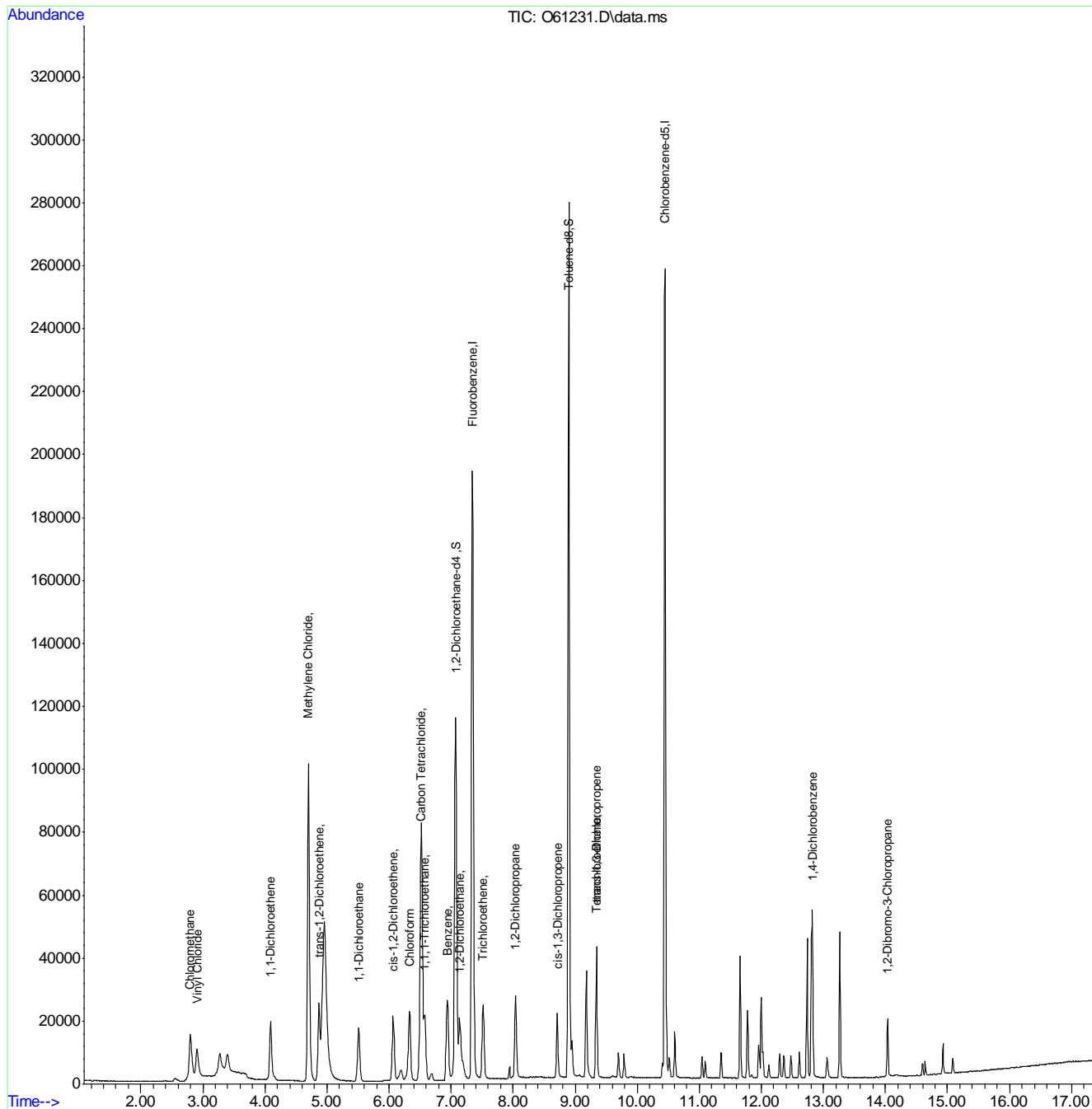
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
Data File : 061231.D  
Acq On : 11 Sep 2020 3:54 pm  
Operator : stutip  
Sample : IC2356-2  
Misc : MS47201,VO2356,,,,,  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:02:23 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Wed Sep 09 12:10:38 2020  
Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61231.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:54      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.2.1

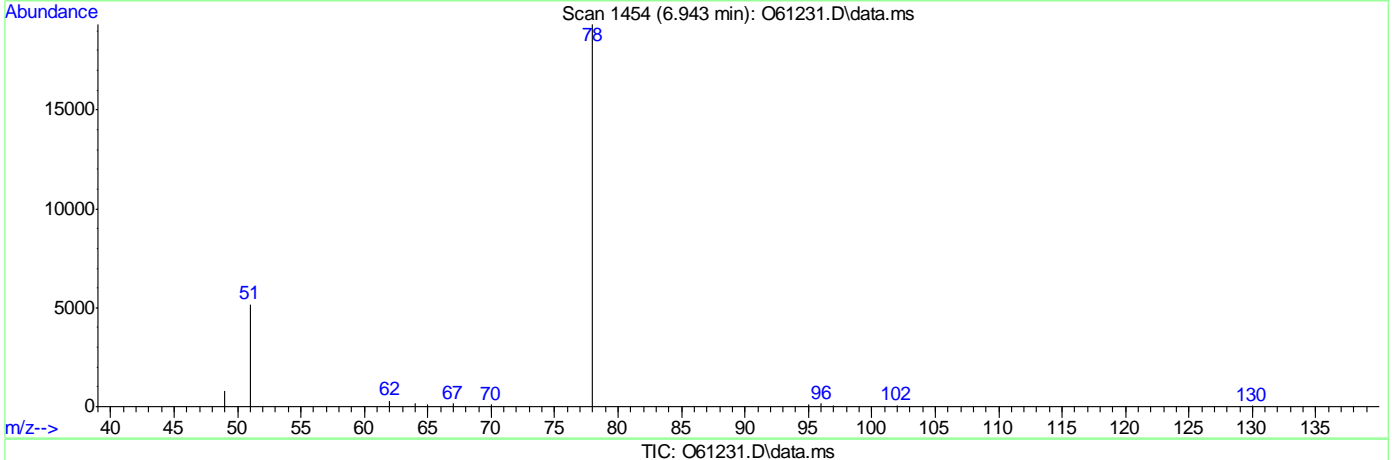
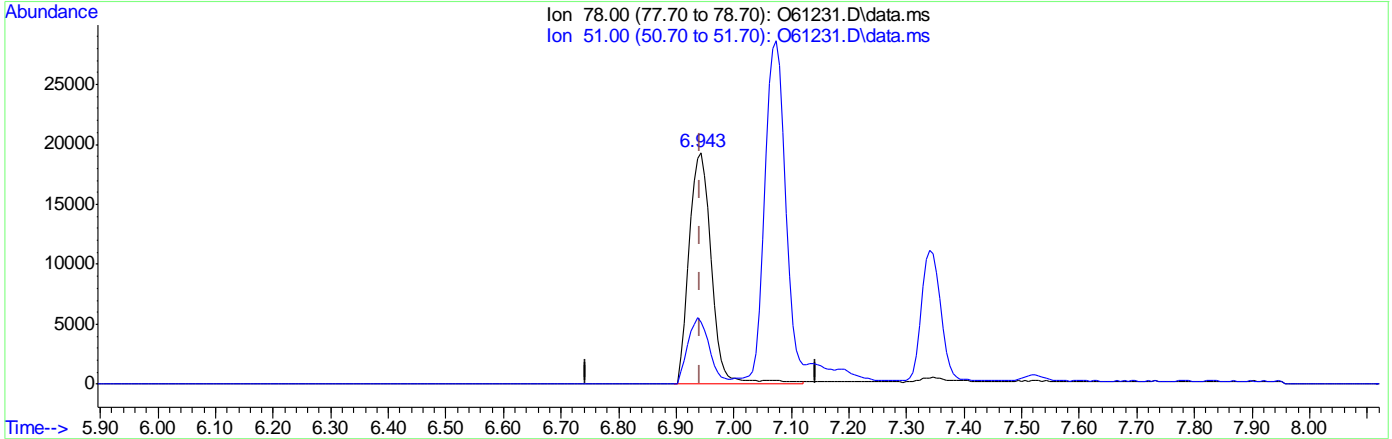
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.58ug/L  
 response 53149

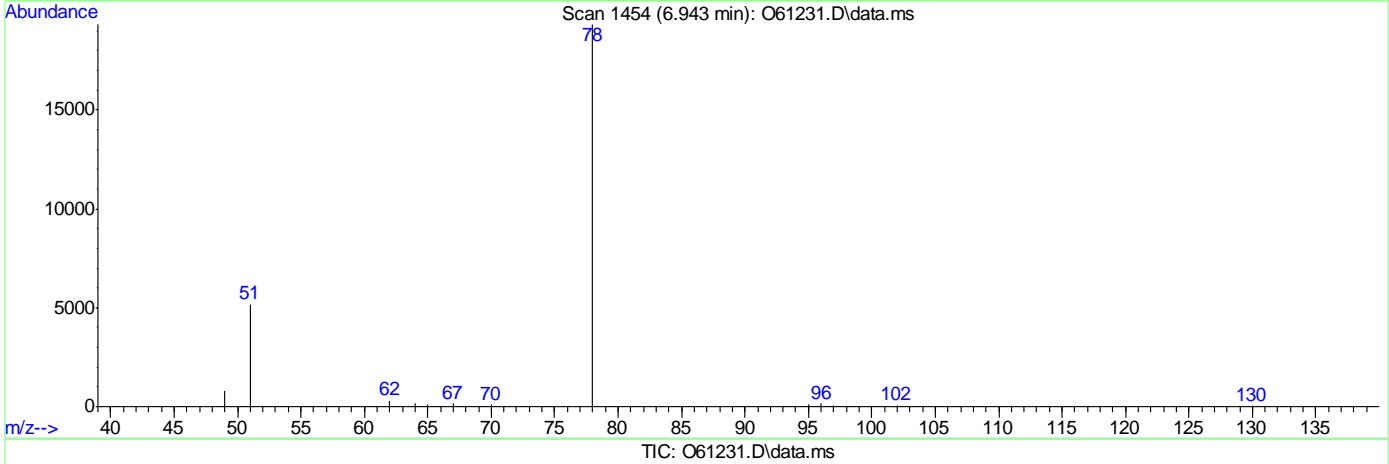
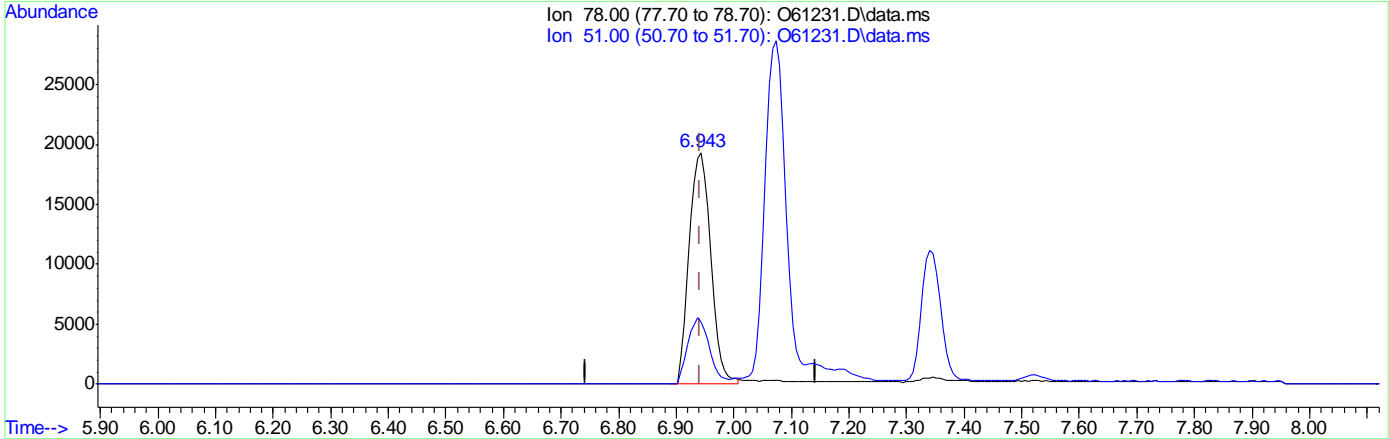
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.56ug/L m  
 response 51252

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	317169	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	244669	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	131106	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	94.20%		
19) Toluene-d8	8.900	98	274860	4.60	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.912	62	72414	2.35	ug/L		97
3) Chloromethane	2.810	50	108758	2.40	ug/L		94
4) 1,1-Dichloroethene	4.100	61	84017	1.96	ug/L		92
5) Methylene Chloride	4.707	49	235781	3.07	ug/L		98
6) trans-1,2-Dichloroethene	4.873	61	98273	1.88	ug/L		82
7) 1,1-Dichloroethane	5.518	63	114595	1.92	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	55181	2.08	ug/L #		81
9) Chloroform	6.339	83	96882	2.01	ug/L		96
10) Carbon Tetrachloride	6.510	117	64256	2.13	ug/L		87
11) 1,1,1-Trichloroethane	6.582	97	73085	2.10	ug/L		93
12) Benzene	6.943	78	190849m	2.02	ug/L		
14) 1,2-Dichloroethane	7.145	62	94612	1.82	ug/L		91
15) Trichloroethene	7.518	95	56329	2.04	ug/L		86
16) 1,2-Dichloropropane	8.043	63	65843	1.91	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	63086	1.64	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	59845	1.60	ug/L		98
21) Tetrachloroethene	9.343	166	52774	2.22	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	108631	2.11	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	18565	1.37	ug/L		96

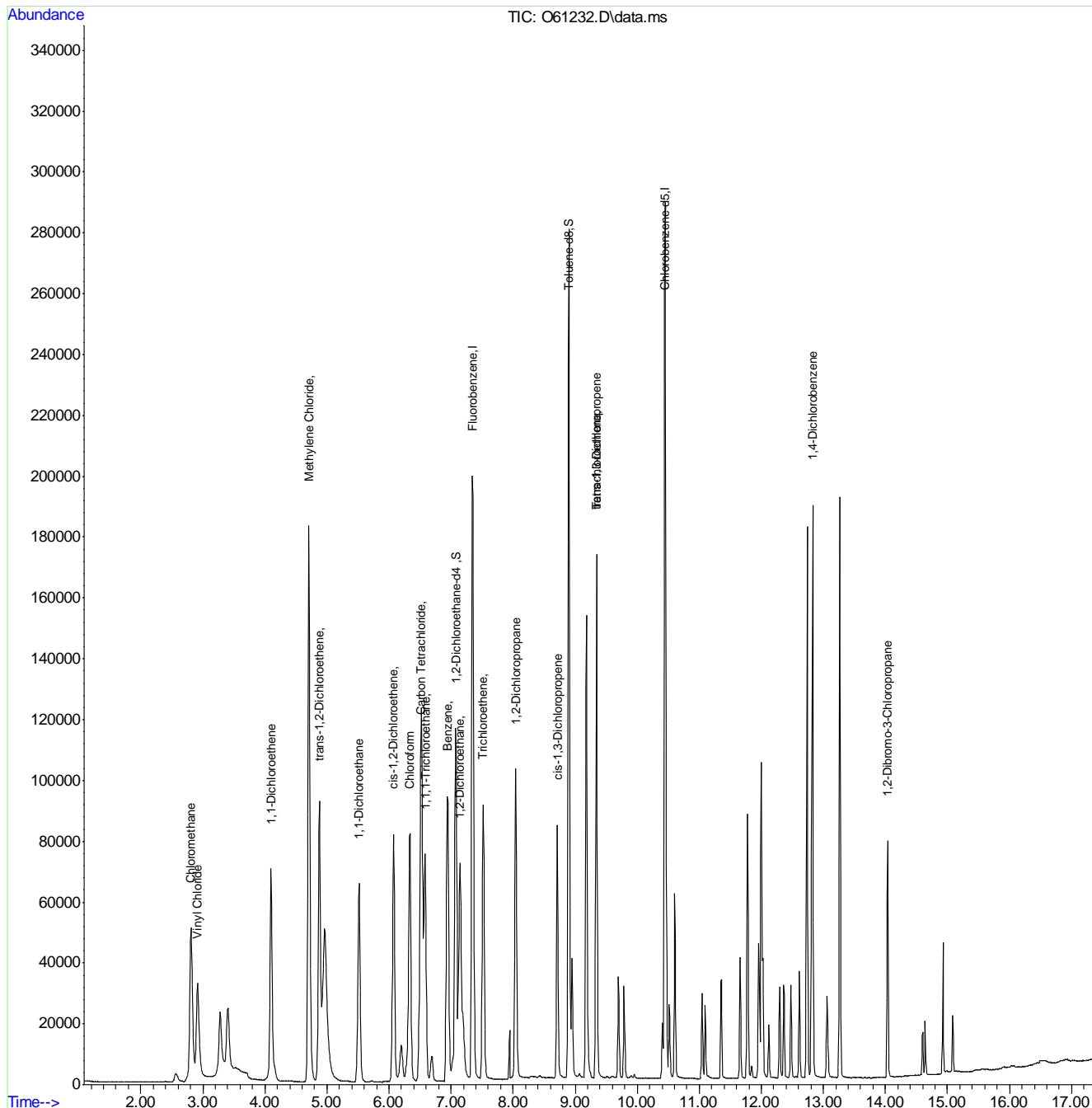
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.3  
7



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61232.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:14      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

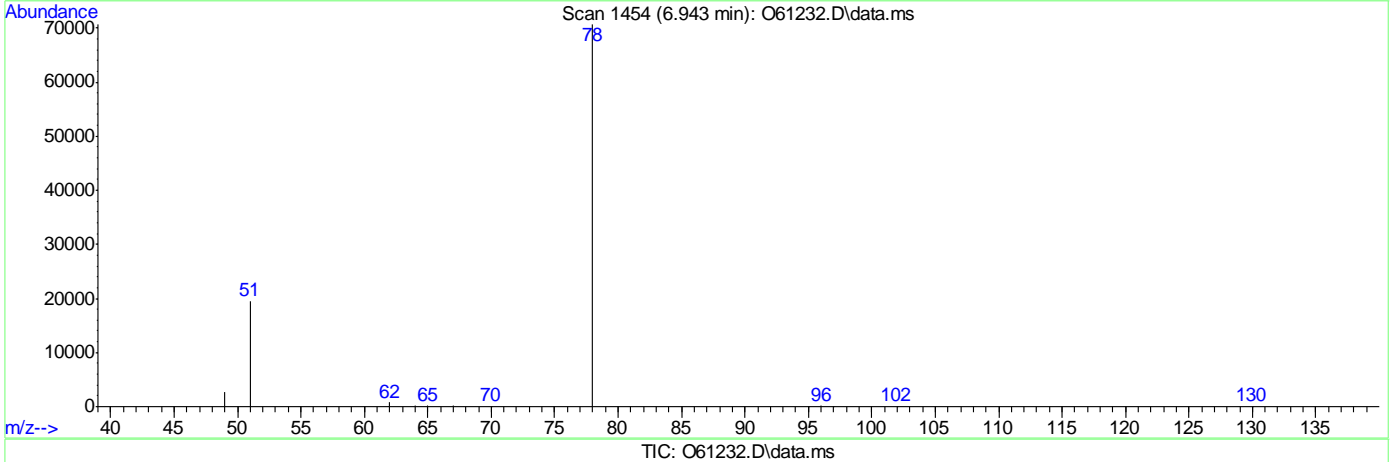
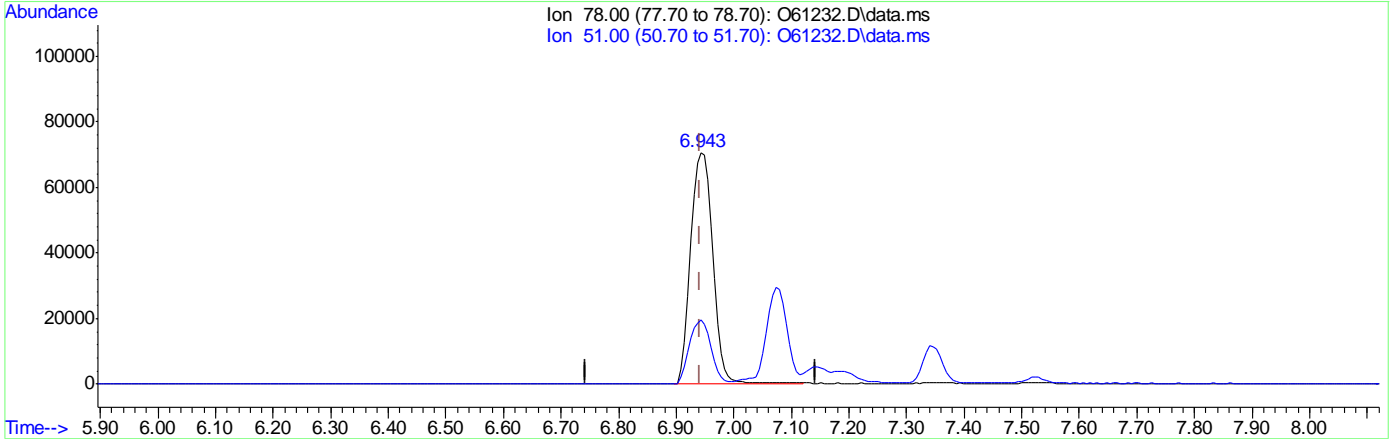
7.6.3.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 2.05ug/L  
 response 193530

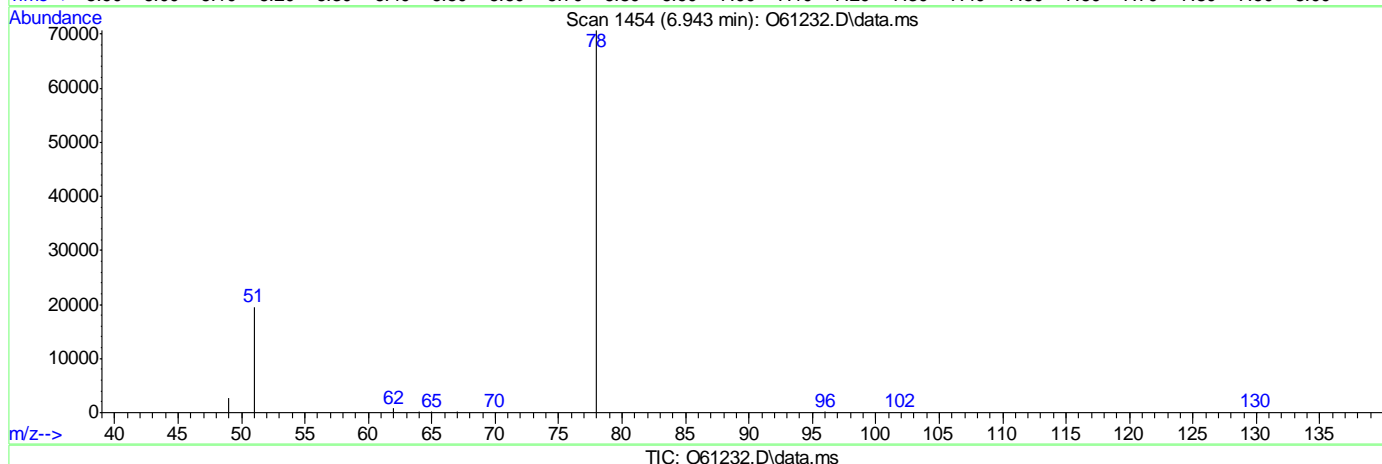
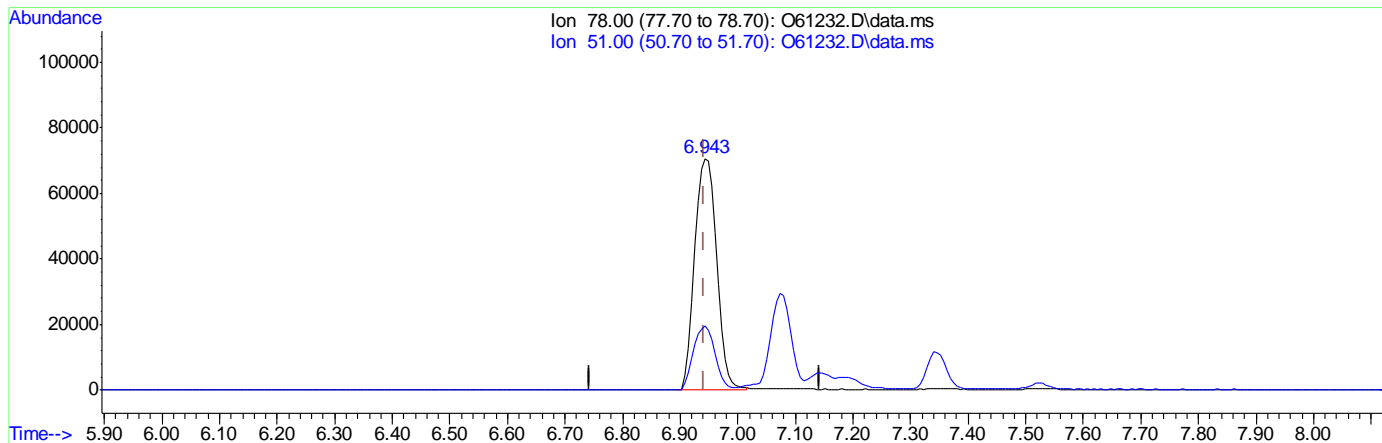
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 2.02ug/L m

response 190849

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

7.6.3.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	331492	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	258539	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	143850	4.94	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.80%	
19) Toluene-d8	8.900	98	286563	4.53	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.60%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.916	62	189960	6.08	ug/L	98
3) Chloromethane	2.810	50	274617	5.99	ug/L	94
4) 1,1-Dichloroethene	4.100	61	243476	5.42	ug/L	92
5) Methylene Chloride	4.707	49	387657	4.95	ug/L	99
6) trans-1,2-Dichloroethene	4.873	61	280716	5.19	ug/L	83
7) 1,1-Dichloroethane	5.518	63	322308	5.17	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	156323	5.64	ug/L #	81
9) Chloroform	6.339	83	274074	5.43	ug/L	96
10) Carbon Tetrachloride	6.517	117	189329	6.01	ug/L	88
11) 1,1,1-Trichloroethane	6.582	97	213837	5.87	ug/L	93
12) Benzene	6.943	78	539806m	5.49	ug/L	
14) 1,2-Dichloroethane	7.145	62	258506	4.75	ug/L	90
15) Trichloroethene	7.518	95	161314	5.59	ug/L	88
16) 1,2-Dichloropropane	8.044	63	181717	5.06	ug/L	93
17) cis-1,3-Dichloropropene	8.711	75	182931	4.54	ug/L	99
20) trans-1,3-Dichloropropene	9.343	75	176190	4.47	ug/L	99
21) Tetrachloroethene	9.343	166	150705	6.02	ug/L	98
22) 1,4-Dichlorobenzene	12.827	146	311628	5.72	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	52936	3.70	ug/L	90

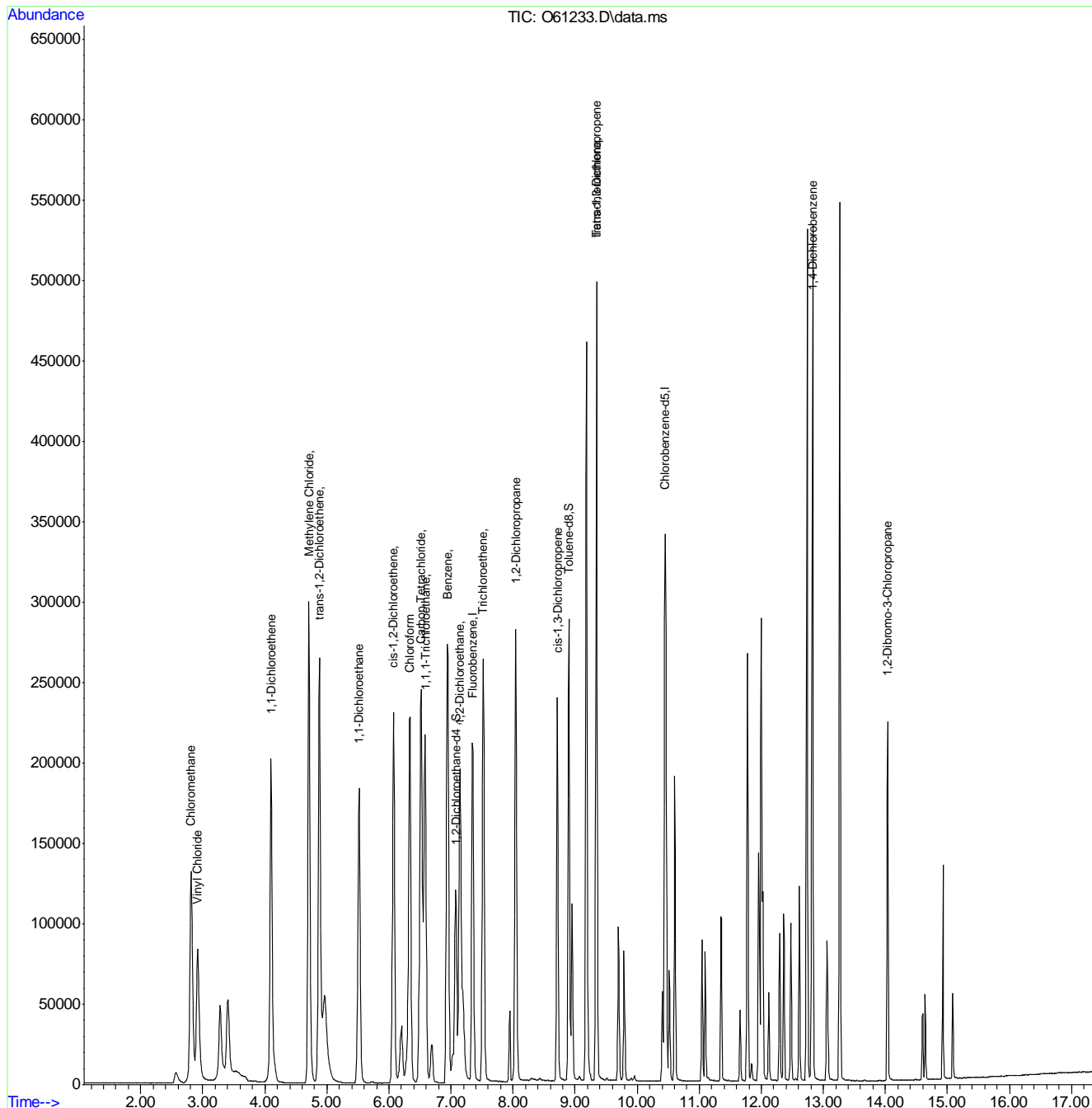
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.4  
7

# Manual Integration Approval Summary

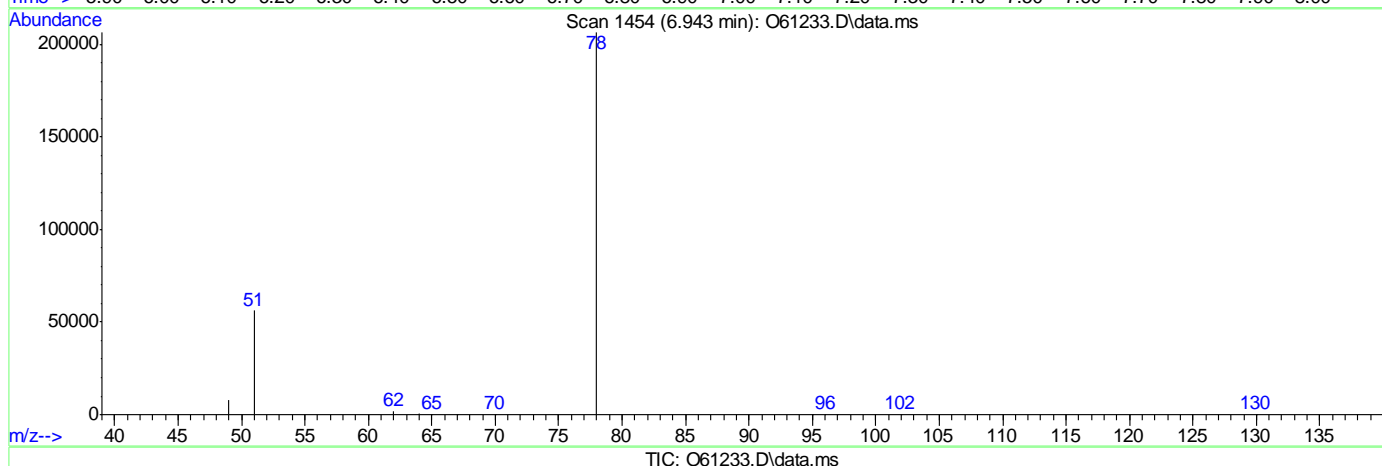
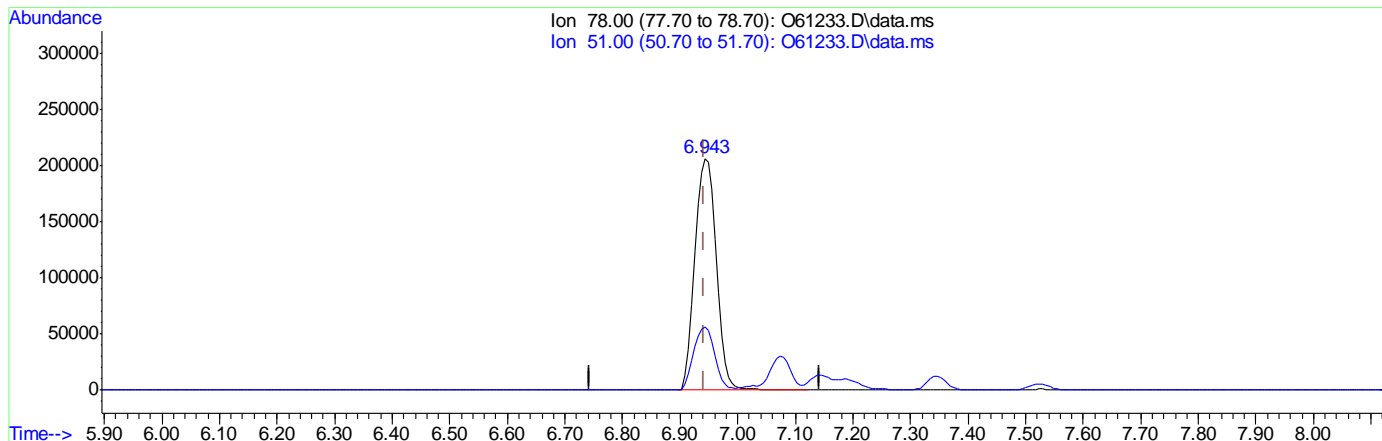
**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61233.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:35      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 5.54ug/L  
 response 544298

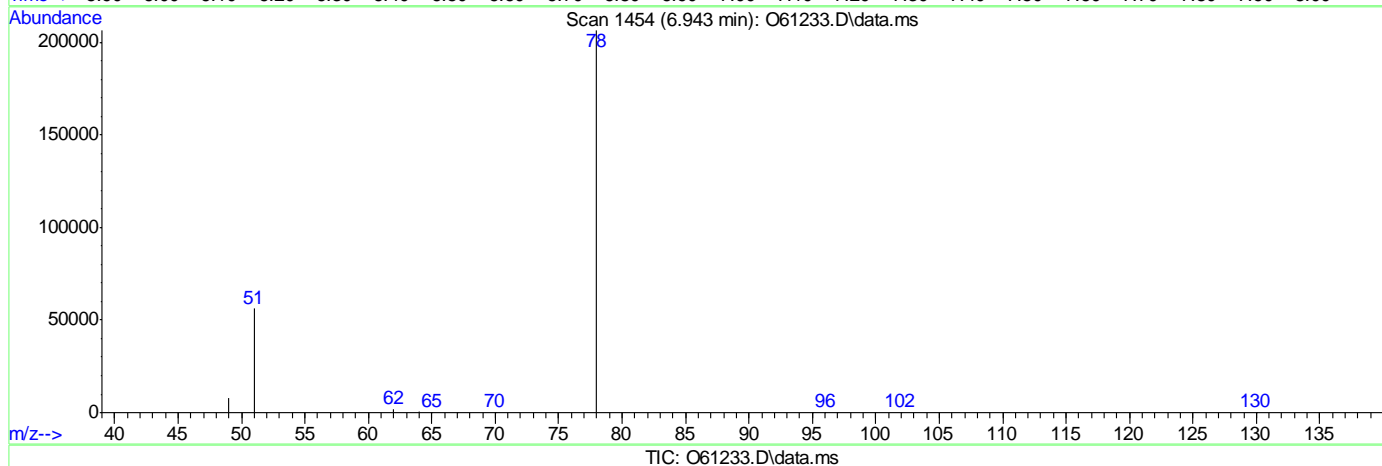
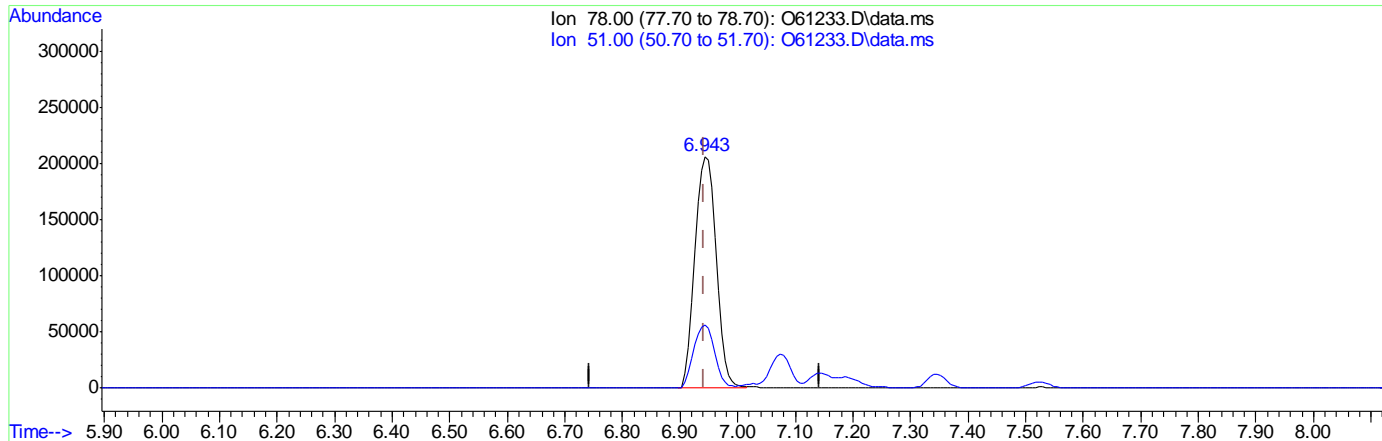
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.49ug/L m

response 539806

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.4.3

7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICC2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	367891	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	288681	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	143276	4.43	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%		
19) Toluene-d8	8.900	98	317520	4.50	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	385419	11.68	ug/L		97
3) Chloromethane	2.807	50	542034	11.18	ug/L		93
4) 1,1-Dichloroethene	4.096	61	516893	10.38	ug/L		93
5) Methylene Chloride	4.703	49	746865	9.11	ug/L		99
6) trans-1,2-Dichloroethene	4.873	61	592225	10.01	ug/L		86
7) 1,1-Dichloroethane	5.514	63	676382	9.78	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	333880	10.85	ug/L		84
9) Chloroform	6.333	83	573497	10.24	ug/L		97
10) Carbon Tetrachloride	6.511	117	409043	11.71	ug/L		87
11) 1,1,1-Trichloroethane	6.582	97	456875	11.31	ug/L		94
12) Benzene	6.943	78	1143203m	10.51	ug/L		
14) 1,2-Dichloroethane	7.145	62	542073	8.97	ug/L		90
15) Trichloroethene	7.518	95	346969	10.84	ug/L		88
16) 1,2-Dichloropropane	8.043	63	380072	9.56	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	405529	9.07	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	393915	8.95	ug/L		97
21) Tetrachloroethene	9.343	166	320442	11.51	ug/L		98
22) 1,4-Dichlorobenzene	12.827	146	679269	11.17	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.038	75	120855	7.57	ug/L		87

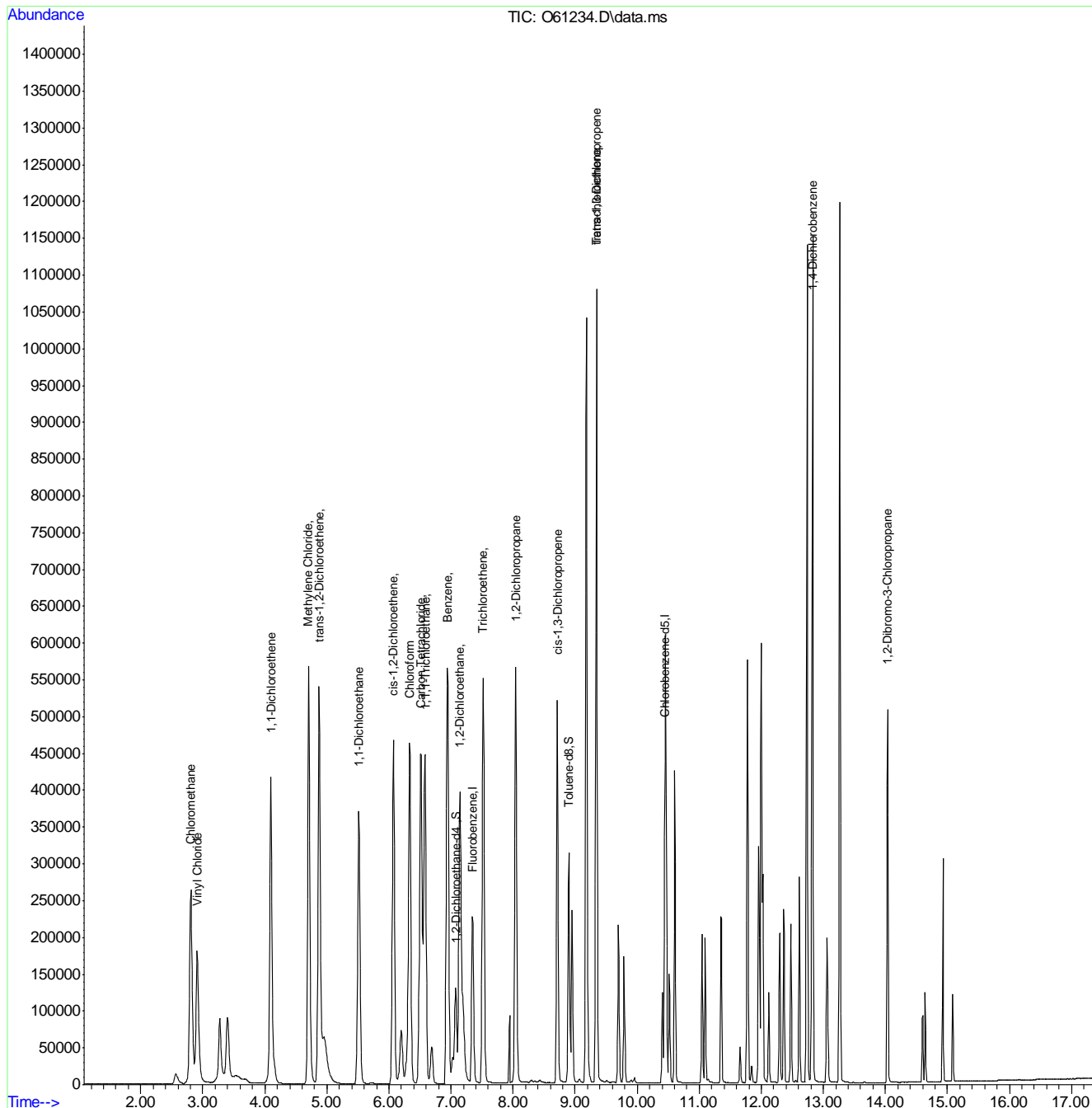
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICc2356-5  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-ICC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61234.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:55      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.5.1

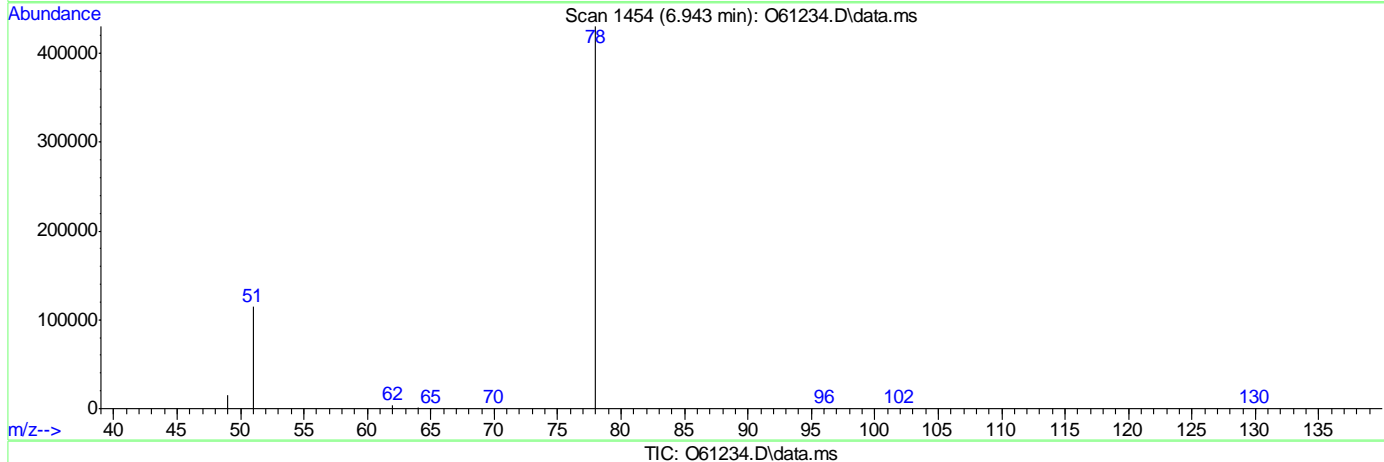
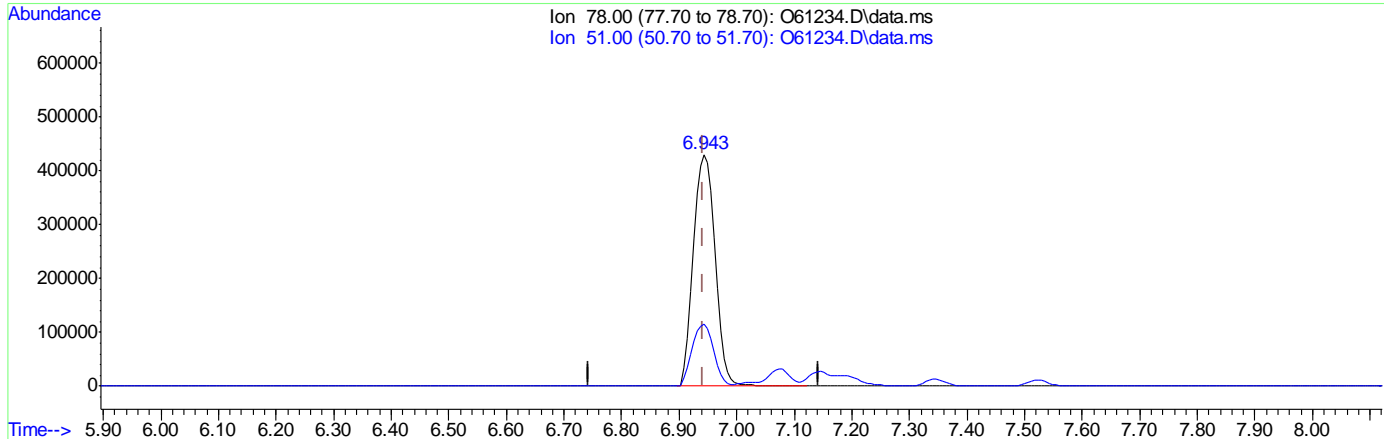
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 10.57ug/L

response 1149895

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

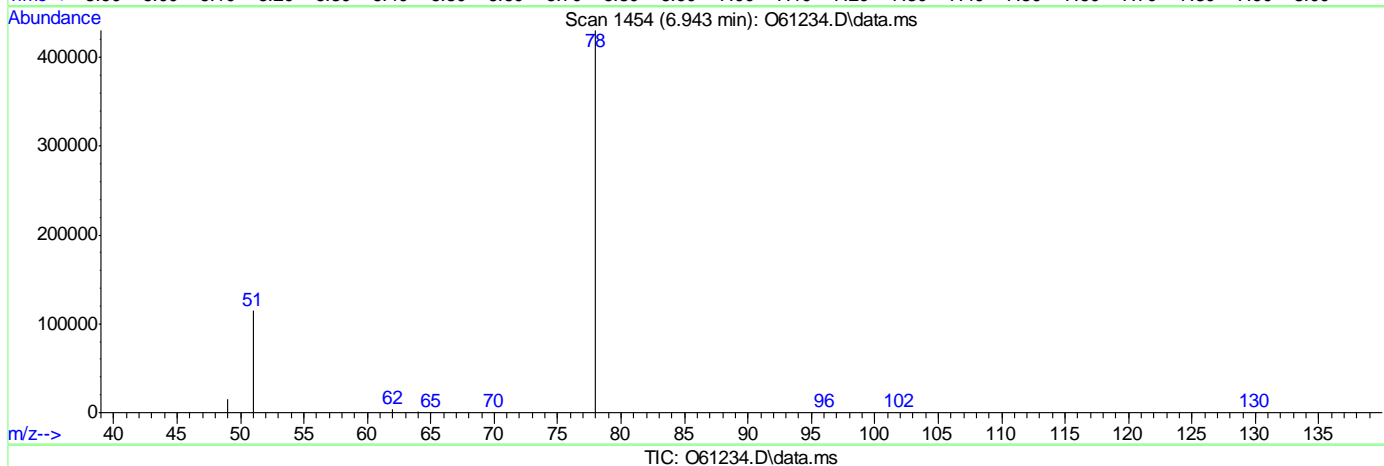
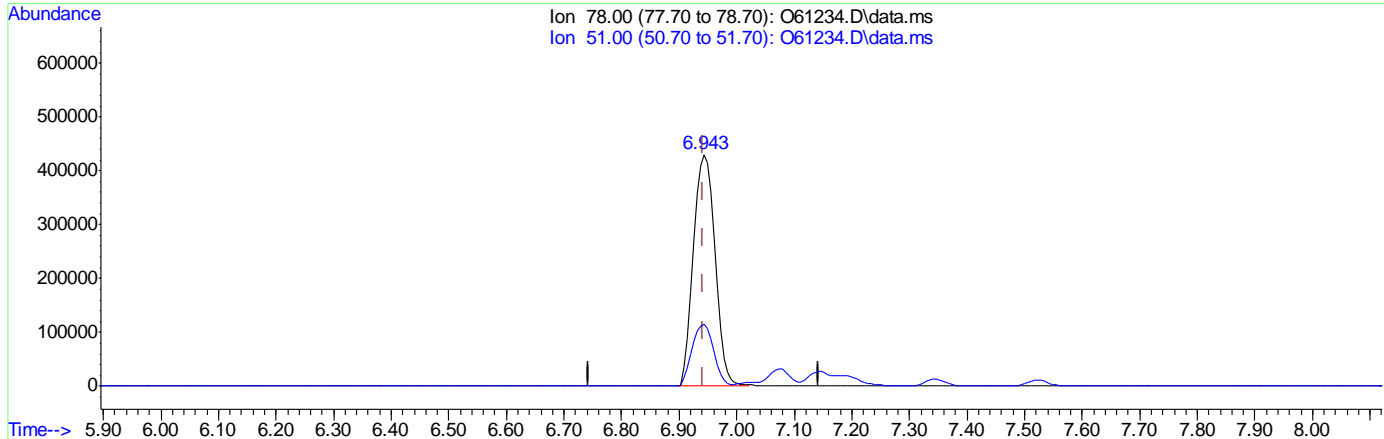
7.6.5.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.51ug/L m  
 response 1143203

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

7.6.5.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	393958	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	307376	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	153155	4.43	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%		
19) Toluene-d8	8.896	98	343376	4.57	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	581790	17.36	ug/L		98
3) Chloromethane	2.791	50	805942	16.33	ug/L		94
4) 1,1-Dichloroethene	4.085	61	794045	14.88	ug/L		93
5) Methylene Chloride	4.696	49	1121963	13.69	ug/L		100
6) trans-1,2-Dichloroethene	4.861	61	919410	14.72	ug/L		84
7) 1,1-Dichloroethane	5.506	63	1045292	14.12	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	524339	15.91	ug/L		84
9) Chloroform	6.333	83	891365	14.86	ug/L		97
10) Carbon Tetrachloride	6.505	117	634944	16.97	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	713480	16.49	ug/L		94
12) Benzene	6.943	78	1776329m	15.29	ug/L		
14) 1,2-Dichloroethane	7.139	62	860563	13.30	ug/L		90
15) Trichloroethene	7.512	95	544590	15.88	ug/L		90
16) 1,2-Dichloropropane	8.040	63	594236	13.99	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	663239	13.85	ug/L		93
20) trans-1,3-Dichloropropene	9.343	75	651125	13.89	ug/L		95
21) Tetrachloroethene	9.337	166	499062	16.90	ug/L		92
22) 1,4-Dichlorobenzene	12.827	146	1064594	16.45	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	202684	11.92	ug/L		90

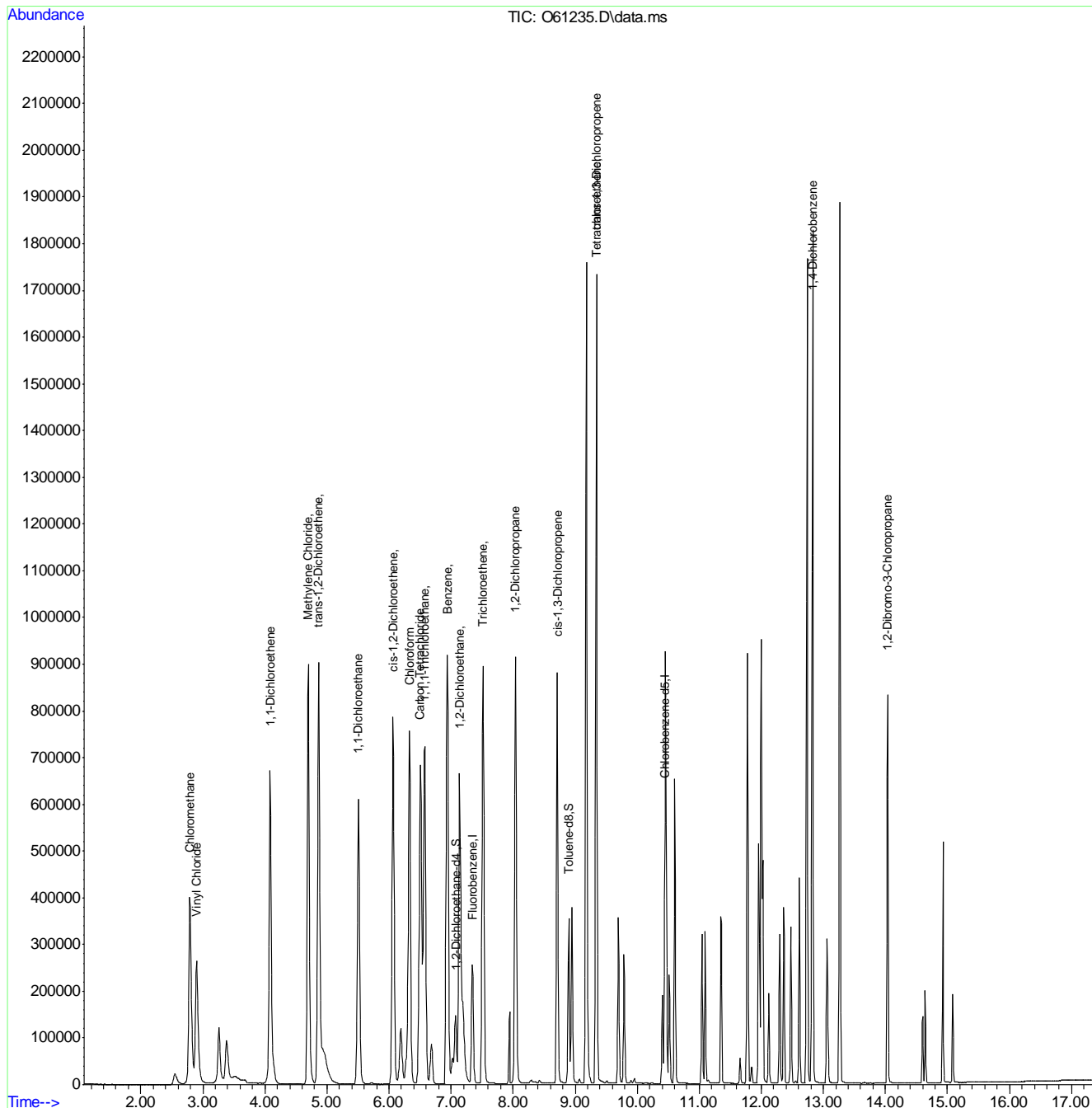
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



9'9'7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61235.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:15      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.6.1

7

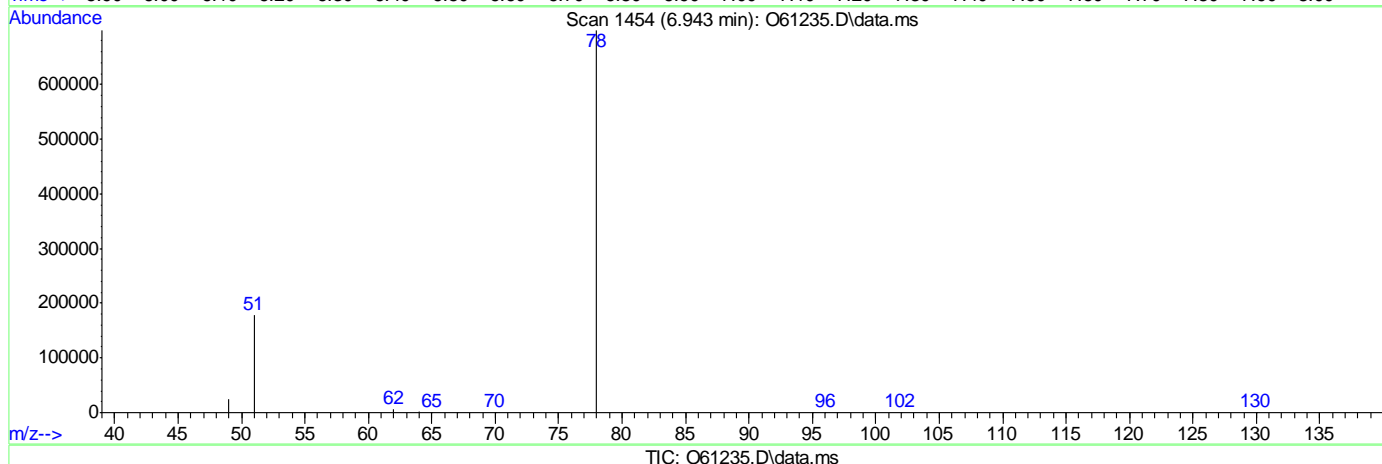
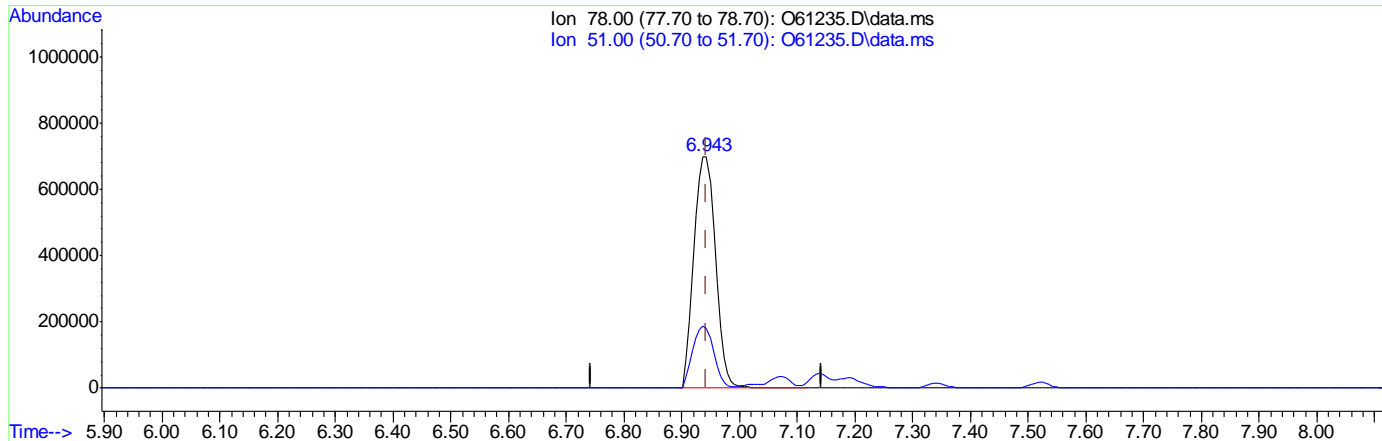


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 15.36ug/L

response 1784608

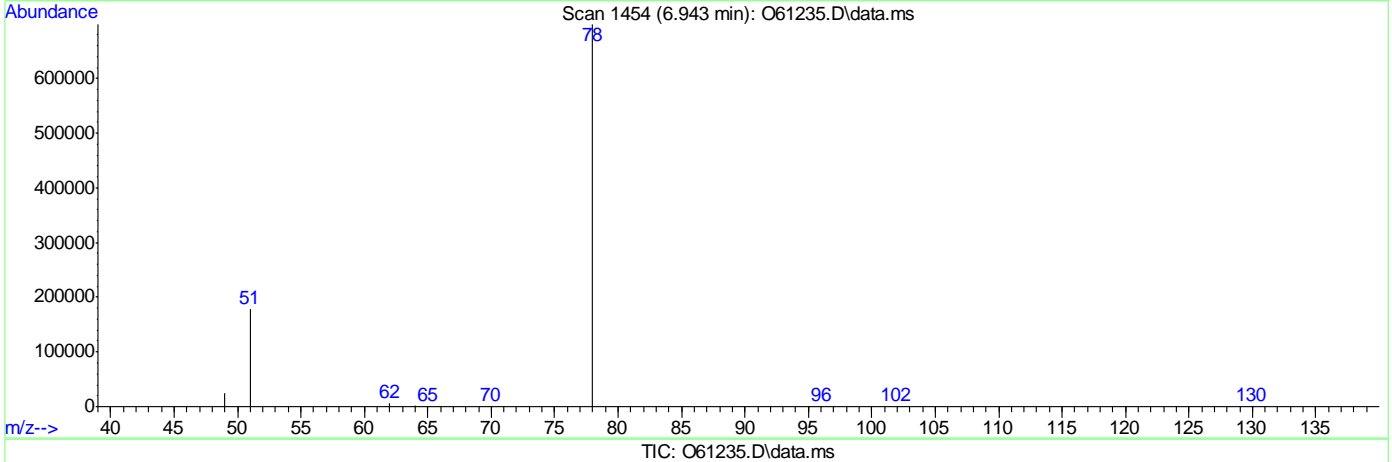
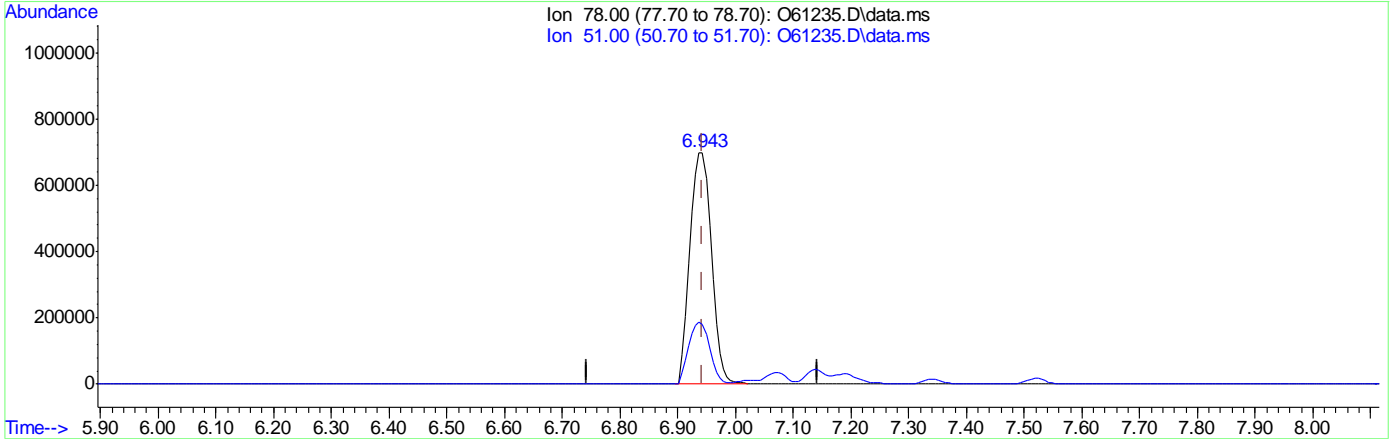
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00

7.6.6.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 15.29ug/L m  
 response 1776329

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.352	96	430313	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	330631	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	166372	4.40	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.00%		
19) Toluene-d8	8.900	98	374232	4.63	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	814030	23.66	ug/L		98
3) Chloromethane	2.803	50	1116385	21.95	ug/L		94
4) 1,1-Dichloroethene	4.092	61	1194148	20.49	ug/L		94
5) Methylene Chloride	4.703	49	1613536	19.98	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	1391011	20.75	ug/L		85
7) 1,1-Dichloroethane	5.514	63	1560149	19.30	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	791148	21.98	ug/L		85
9) Chloroform	6.333	83	1332932	20.34	ug/L		97
10) Carbon Tetrachloride	6.510	117	982791	24.05	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	1094990	23.17	ug/L		95
12) Benzene	6.943	78	2670290m	21.11	ug/L		
14) 1,2-Dichloroethane	7.145	62	1260966	17.85	ug/L		89
15) Trichloroethene	7.518	95	818610	21.86	ug/L		88
16) 1,2-Dichloropropane	8.043	63	893916	19.34	ug/L		91
17) cis-1,3-Dichloropropene	8.711	75	1001044	19.14	ug/L		95
20) trans-1,3-Dichloropropene	9.343	75	975862	19.36	ug/L		94
21) Tetrachloroethene	9.343	166	748457	23.68	ug/L		97
22) 1,4-Dichlorobenzene	12.827	146	1570512	22.56	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	297989	16.29	ug/L		91

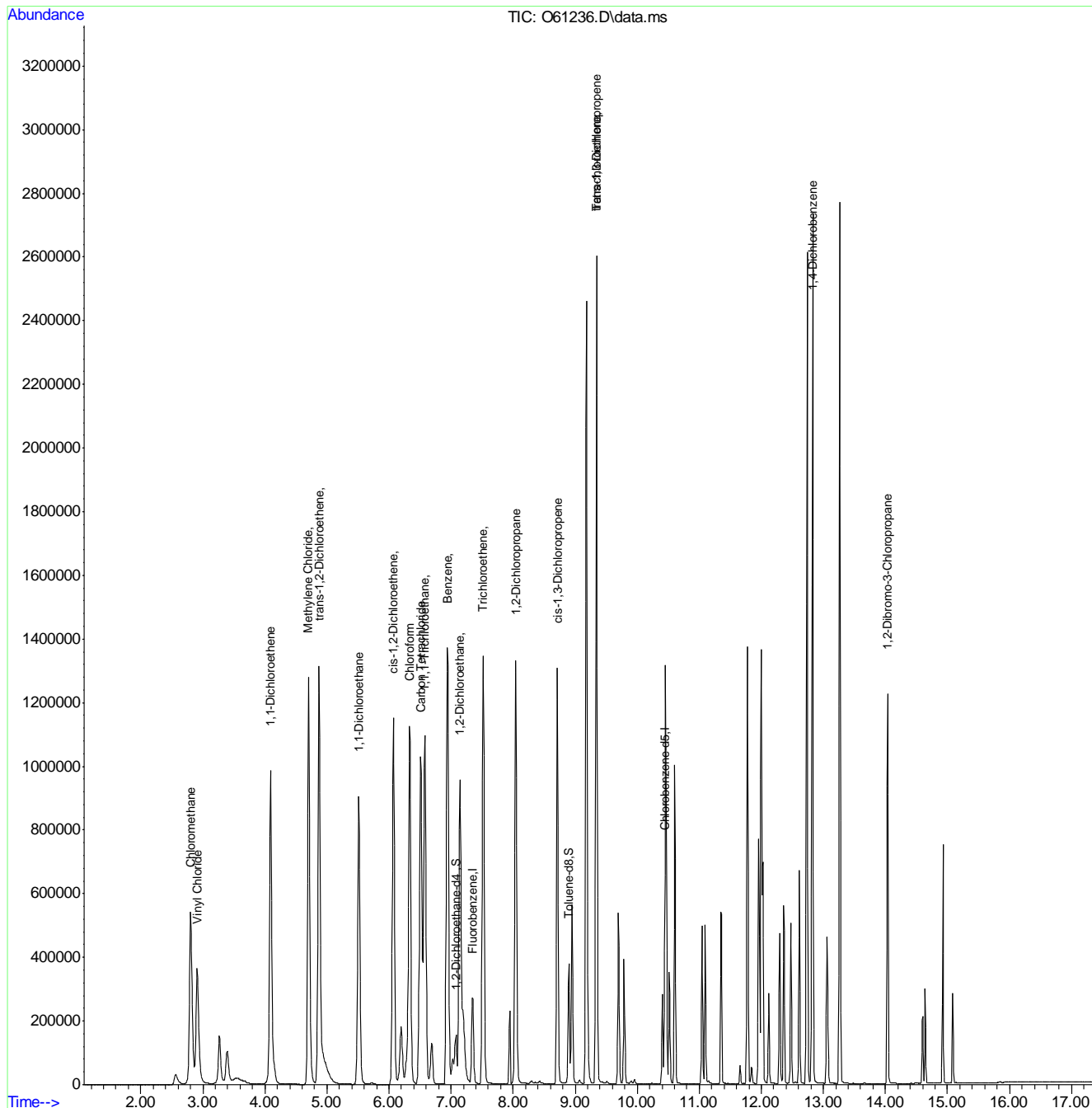
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61236.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:36      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

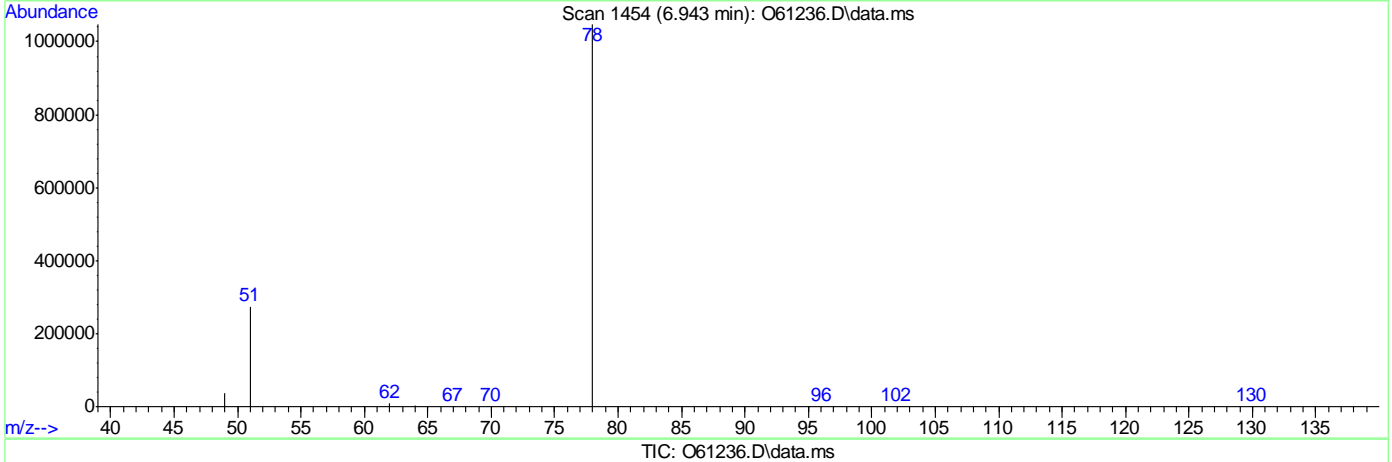
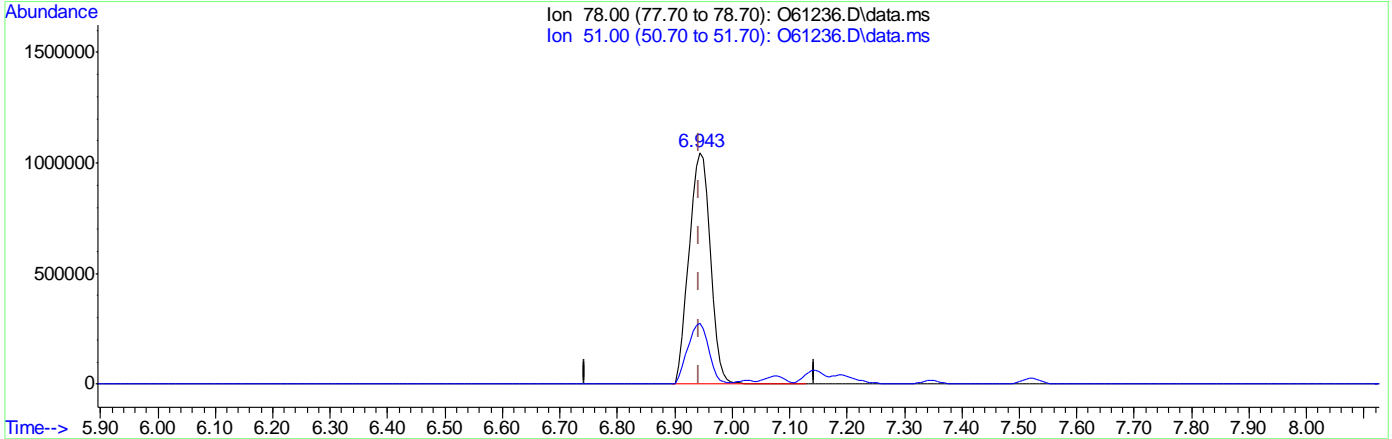
7.6.7.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



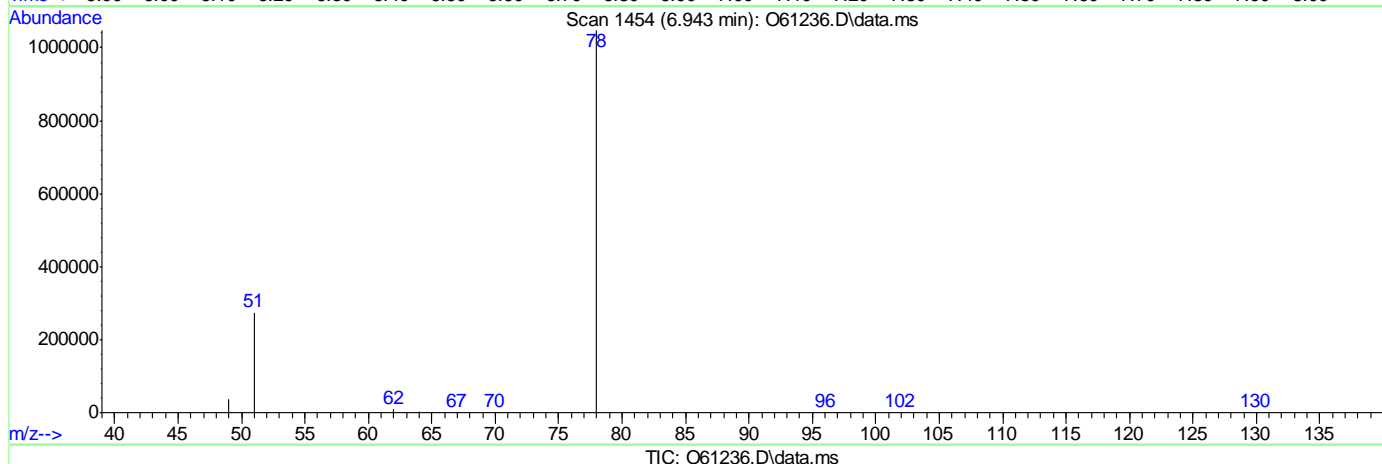
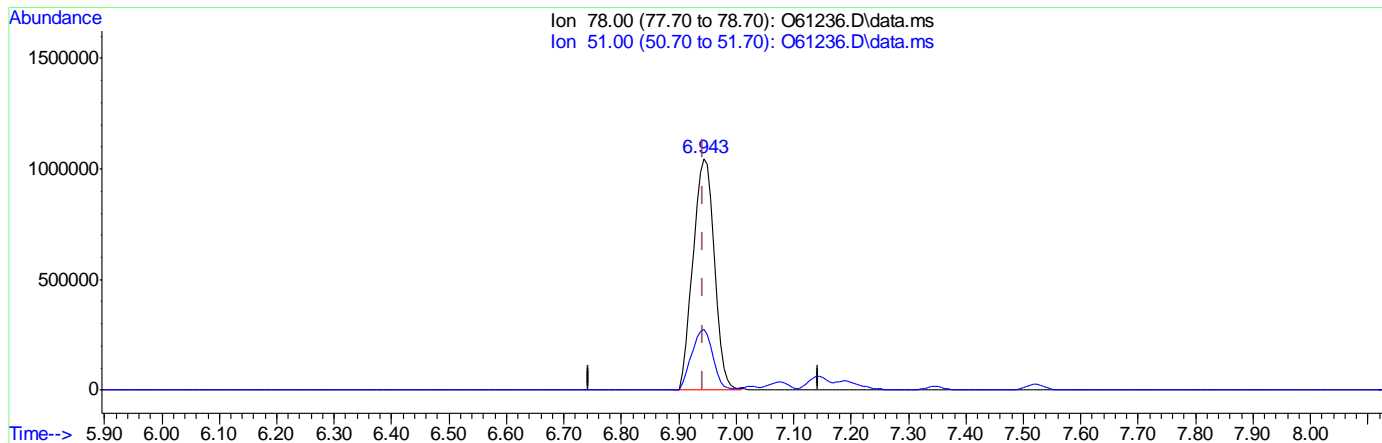
(12) Benzene ( )  
 6.943min (-0.000) 21.23ug/L  
 response 2686132

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (-0.000) 21.11ug/L m  
 response 2670290

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	392529	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	305591	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	151418	4.78	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	95.60%	
19) Toluene-d8	8.896	98	341369	4.95	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.905	62	359054	8.49	ug/L	98
3) Chloromethane	2.803	50	507353	8.27	ug/L	94
4) 1,1-Dichloroethene	4.092	61	507491	9.35	ug/L	91
5) Methylene Chloride	4.703	49	755284	8.89	ug/L	99
6) trans-1,2-Dichloroethene	4.869	61	597300	9.53	ug/L	84
7) 1,1-Dichloroethane	5.514	63	694519	9.54	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	347499	9.66	ug/L	85
9) Chloroform	6.333	83	585017	9.34	ug/L	97
10) Carbon Tetrachloride	6.511	117	409874	9.60	ug/L	88
11) 1,1,1-Trichloroethane	6.576	97	455396	9.43	ug/L	94
12) Benzene	6.943	78	1221796	10.10	ug/L	100
14) 1,2-Dichloroethane	7.139	62	581587	9.82	ug/L	90
15) Trichloroethene	7.518	95	365705	9.91	ug/L	88
16) 1,2-Dichloropropane	8.043	63	408716	10.10	ug/L	92
17) cis-1,3-Dichloropropene	8.711	75	449848	10.71	ug/L	94
20) trans-1,3-Dichloropropene	9.343	75	443597	11.04	ug/L	95
21) Tetrachloroethene	9.343	166	323529	9.60	ug/L	99
22) 1,4-Dichlorobenzene	12.827	146	714911	10.10	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	131759	10.13	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.8

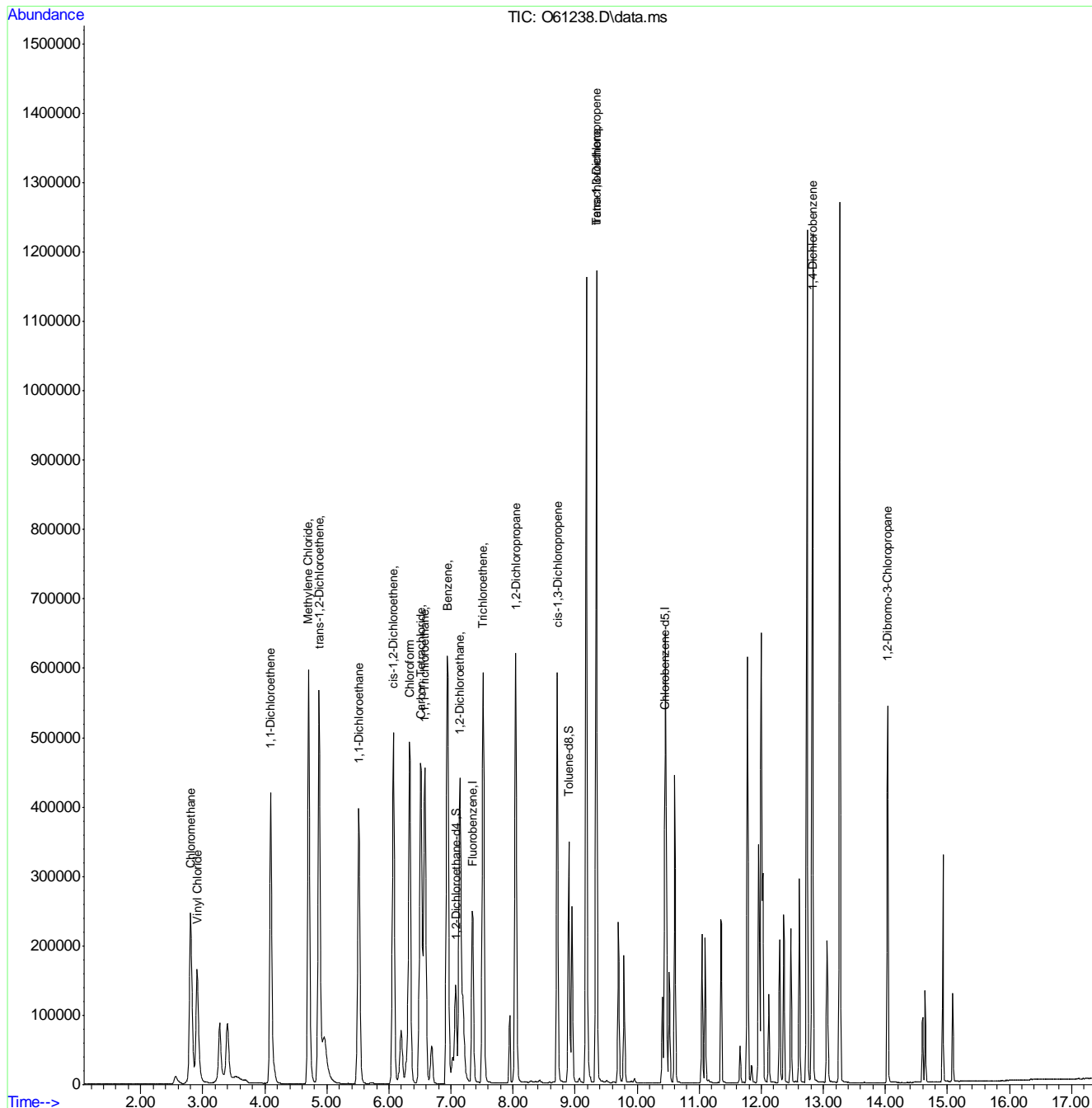


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

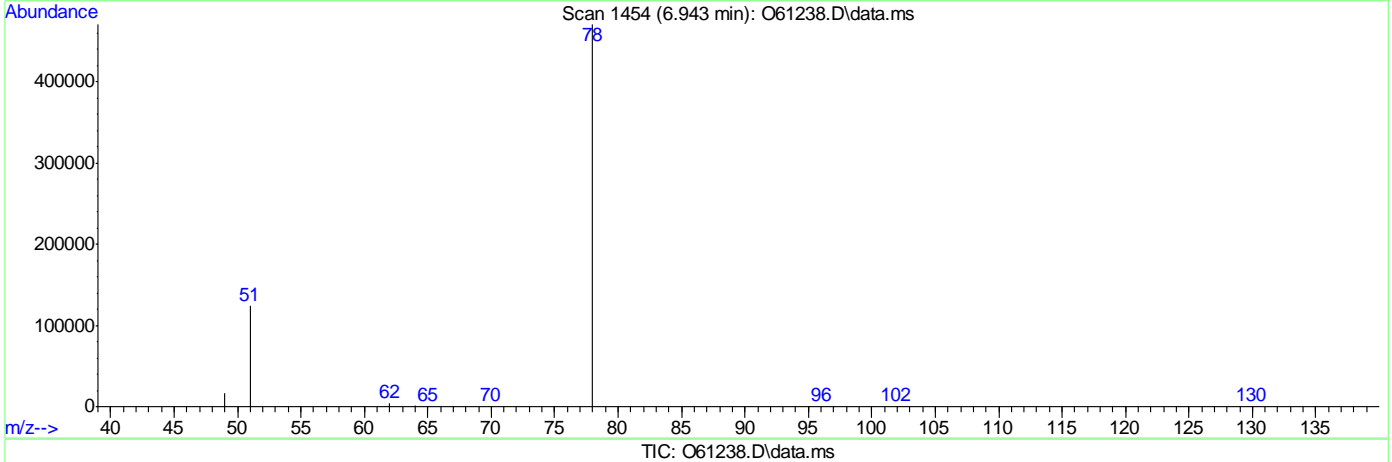
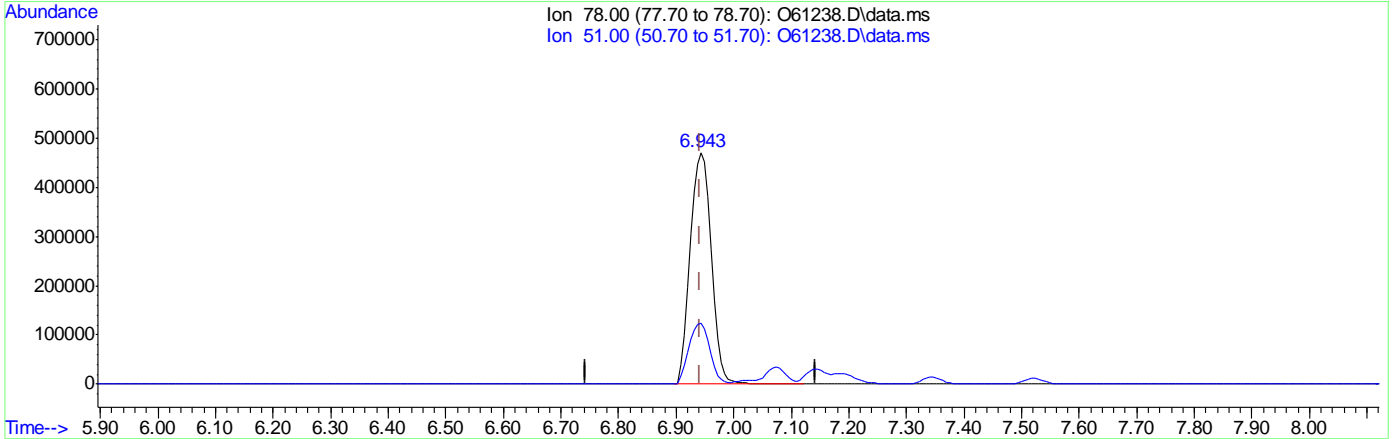


8'9'7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 10.10ug/L

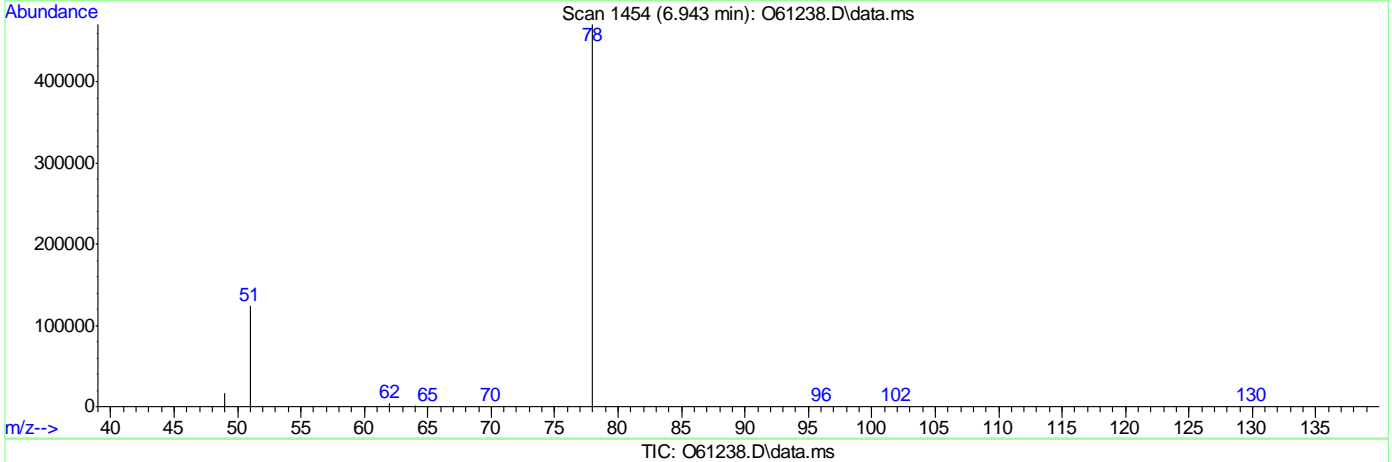
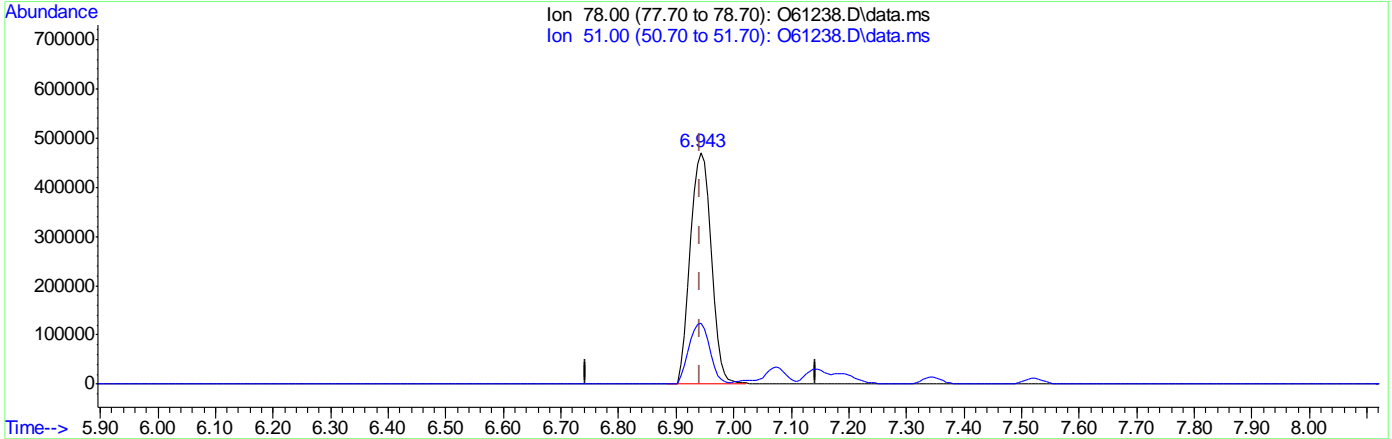
response 1221796

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.04ug/L m  
 response 1214827

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61243.d  
 Acq On : 11 Sep 2020 8:15 pm  
 Operator : stutip  
 Sample : CC2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 03:05:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	355114	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	279352	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	137830	4.81	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	96.20%		
19) Toluene-d8	8.896	98	308526	4.90	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	333565	8.74	ug/L		98
3) Chloromethane	2.799	50	483381	8.78	ug/L		93
4) 1,1-Dichloroethene	4.089	61	435965	8.88	ug/L		93
5) Methylene Chloride	4.699	49	646373	8.41	ug/L		99
6) trans-1,2-Dichloroethene	4.865	61	501887	8.86	ug/L		86
7) 1,1-Dichloroethane	5.506	63	583989	8.87	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	291316	8.95	ug/L		84
9) Chloroform	6.327	83	500267	8.83	ug/L		97
10) Carbon Tetrachloride	6.505	117	342419	8.87	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	388294	8.89	ug/L		94
12) Benzene	6.943	78	988180m	9.02	ug/L		
14) 1,2-Dichloroethane	7.139	62	484904	9.05	ug/L		90
15) Trichloroethene	7.512	95	296096	8.87	ug/L		90
16) 1,2-Dichloropropane	8.040	63	337355	9.22	ug/L		93
17) cis-1,3-Dichloropropene	8.707	75	361622	9.52	ug/L		97
20) trans-1,3-Dichloropropene	9.343	75	352705	9.60	ug/L		96
21) Tetrachloroethene	9.337	166	273554	8.89	ug/L		94
22) 1,4-Dichlorobenzene	12.821	146	596843	9.22	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	107851	9.13	ug/L		88

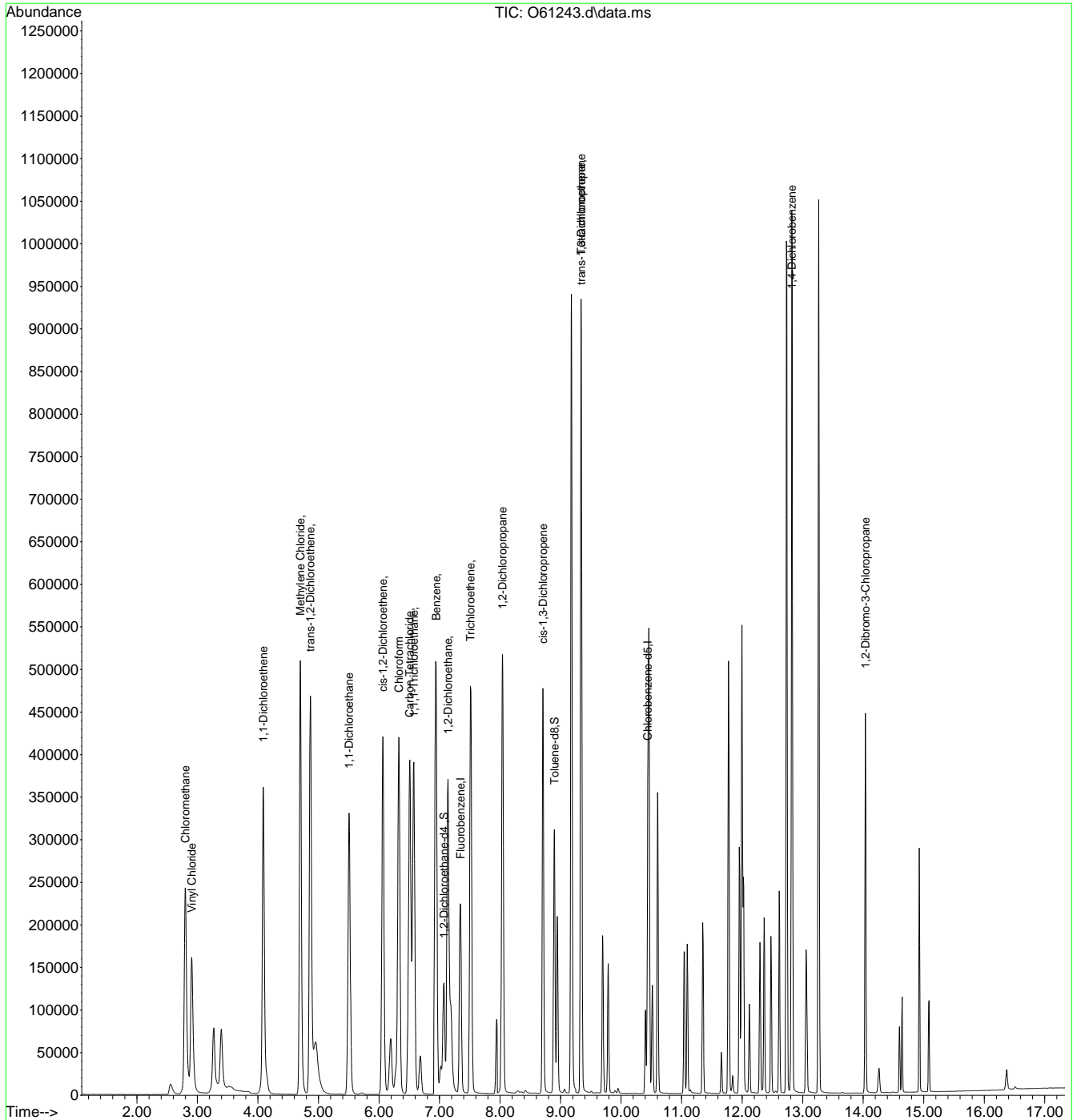
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61243.d  
 Acq On : 11 Sep 2020 8:15 pm  
 Operator : stutip  
 Sample : CC2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 03:05:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2357-CC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61243.D      **Analyst approved:** 09/14/20 03:32 Edessa Sumagaysay  
**Injection Time:** 09/11/20 20:15      **Supervisor approved:** 09/14/20 14:12 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

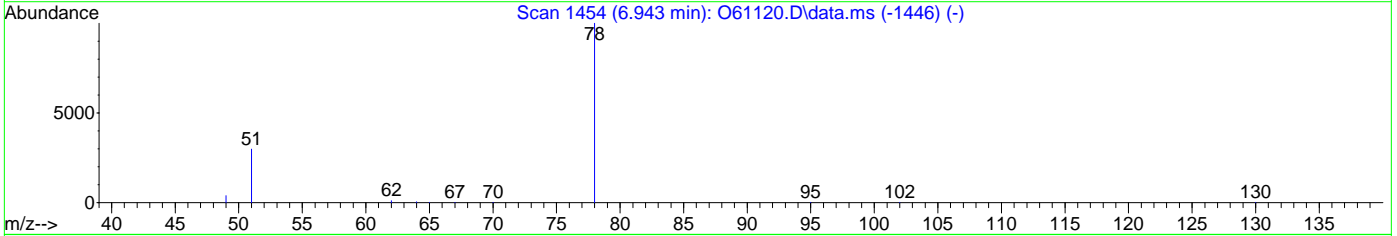
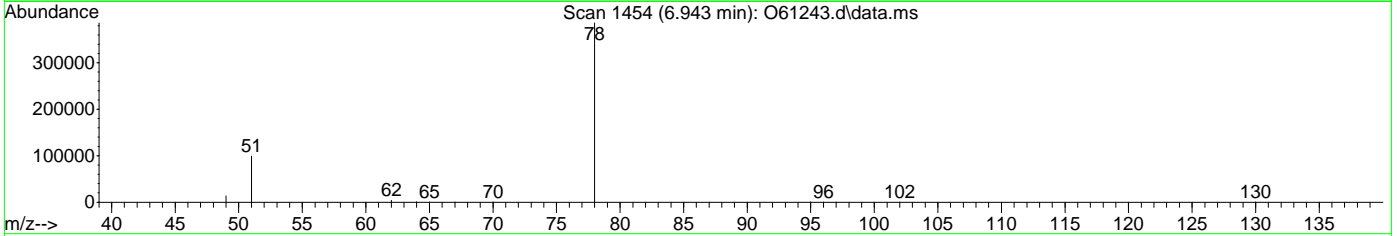
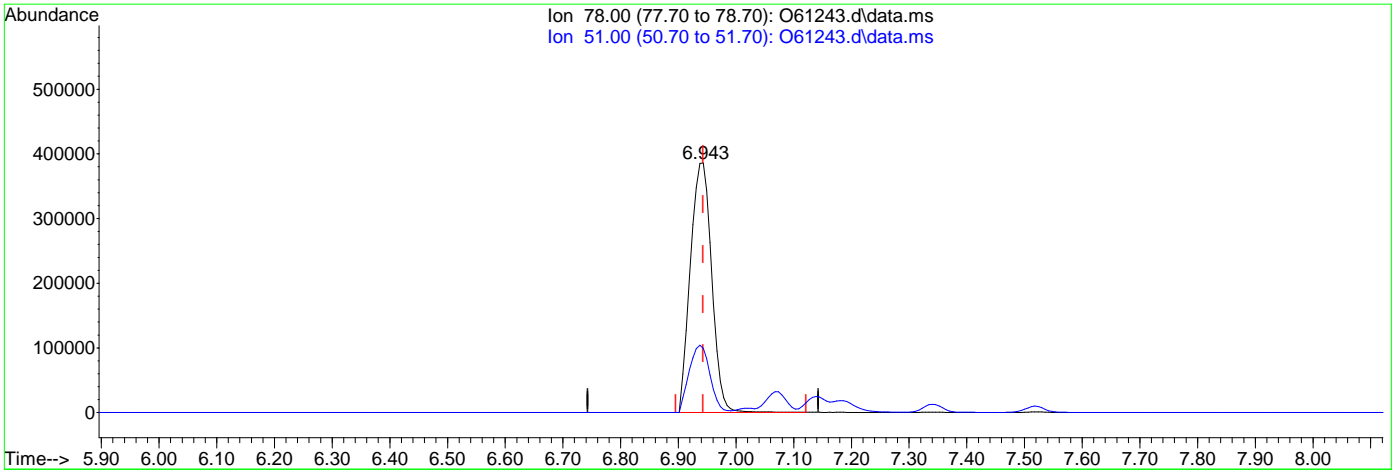
7.6.9.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61243.d  
 Acq On : 11 Sep 2020 8:15 pm  
 Operator : stutip  
 Sample : CC2356-5  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 02:55:13 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 9.07ug/L

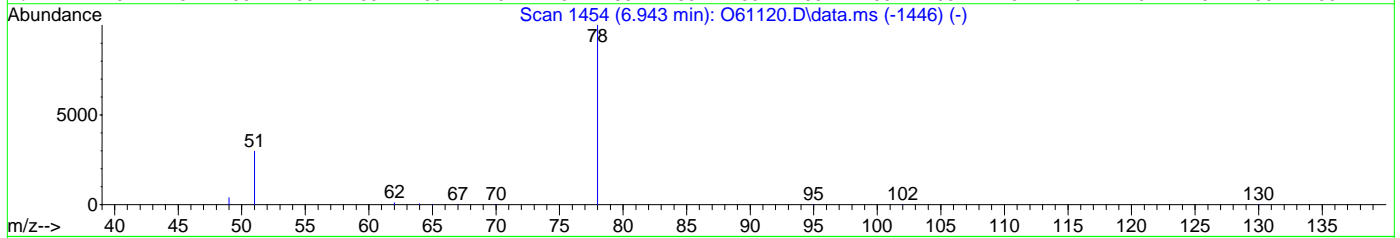
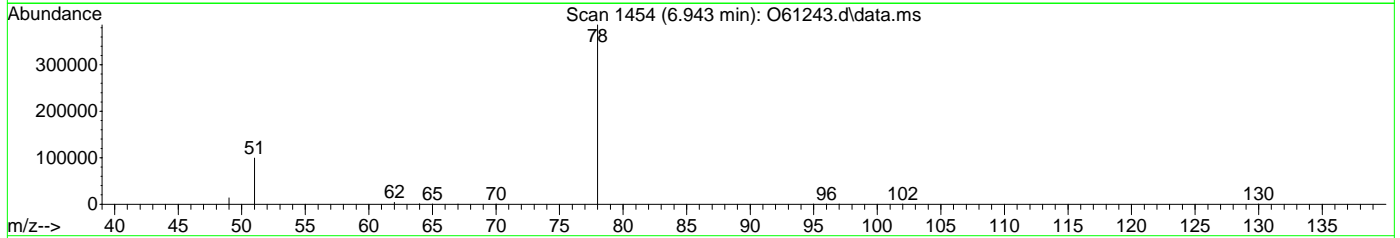
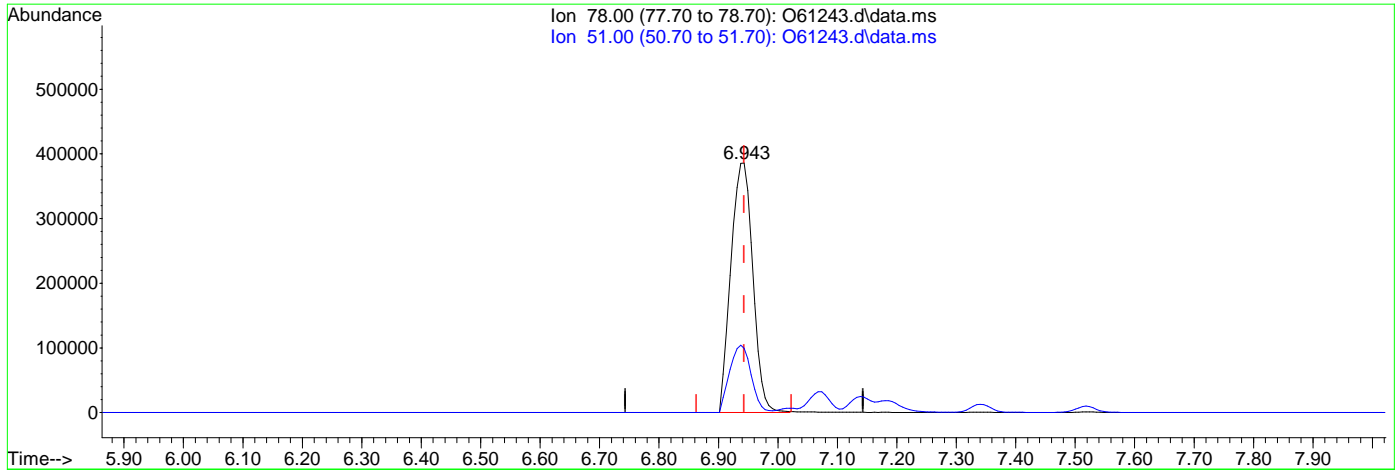
response 993457

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61243.d  
 Acq On : 11 Sep 2020 8:15 pm  
 Operator : stutip  
 Sample : CC2356-5  
 Misc : MS47184,VO2357,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 02:55:13 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 9.02ug/L m

response 988180

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.76
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61269.d  
 Acq On : 12 Sep 2020 5:18 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 03:18:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	311282	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	243812	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	121203	4.82	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	96.40%		
19) Toluene-d8	8.900	98	261895	4.76	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	338069	10.29	ug/L		98
3) Chloromethane	2.799	50	498654	10.66	ug/L		95
4) 1,1-Dichloroethene	4.089	61	447843	10.41	ug/L		92
5) Methylene Chloride	4.703	49	685977	10.18	ug/L		99
6) trans-1,2-Dichloroethene	4.869	61	522924	10.52	ug/L		85
7) 1,1-Dichloroethane	5.514	63	603923	10.47	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	292076	10.24	ug/L		84
9) Chloroform	6.333	83	506697	10.20	ug/L		96
10) Carbon Tetrachloride	6.511	117	336035	9.93	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	381810	9.97	ug/L		92
12) Benzene	6.943	78	998401m	10.40	ug/L		
14) 1,2-Dichloroethane	7.139	62	489024	10.41	ug/L		92
15) Trichloroethene	7.518	95	296948	10.14	ug/L		87
16) 1,2-Dichloropropane	8.043	63	338578	10.55	ug/L		93
17) cis-1,3-Dichloropropene	8.711	75	335691	10.08	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	331132	10.33	ug/L		98
21) Tetrachloroethene	9.343	166	264326	9.83	ug/L		98
22) 1,4-Dichlorobenzene	12.827	146	593079	10.50	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.038	75	103897	10.02	ug/L		88

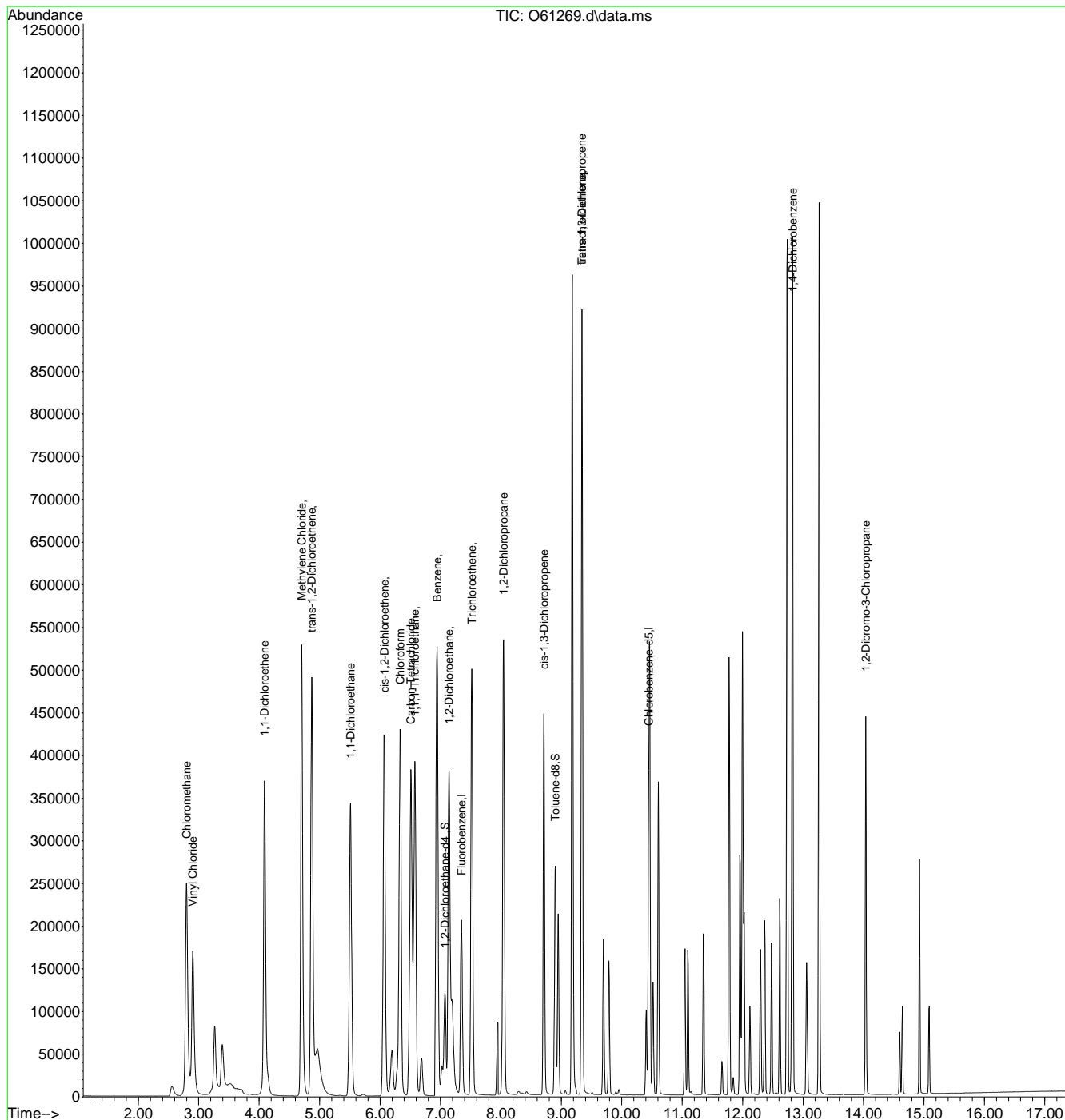
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61269.d  
 Acq On : 12 Sep 2020 5:18 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 03:18:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.6.10  
7



# Manual Integration Approval Summary

**Sample Number:** VO2357-ECC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61269.D      **Analyst approved:** 09/14/20 03:30 Edessa Sumagaysay  
**Injection Time:** 09/12/20 05:18      **Supervisor approved:** 09/14/20 14:17 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

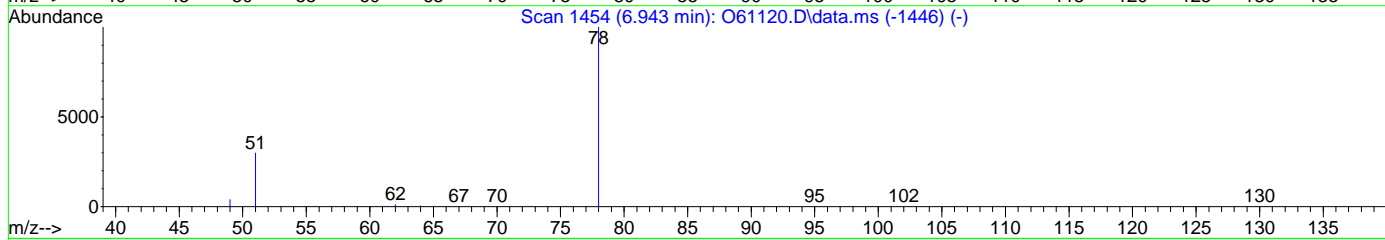
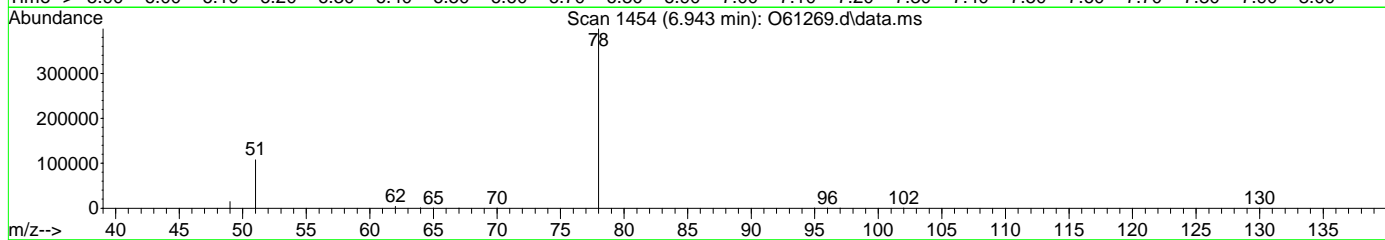
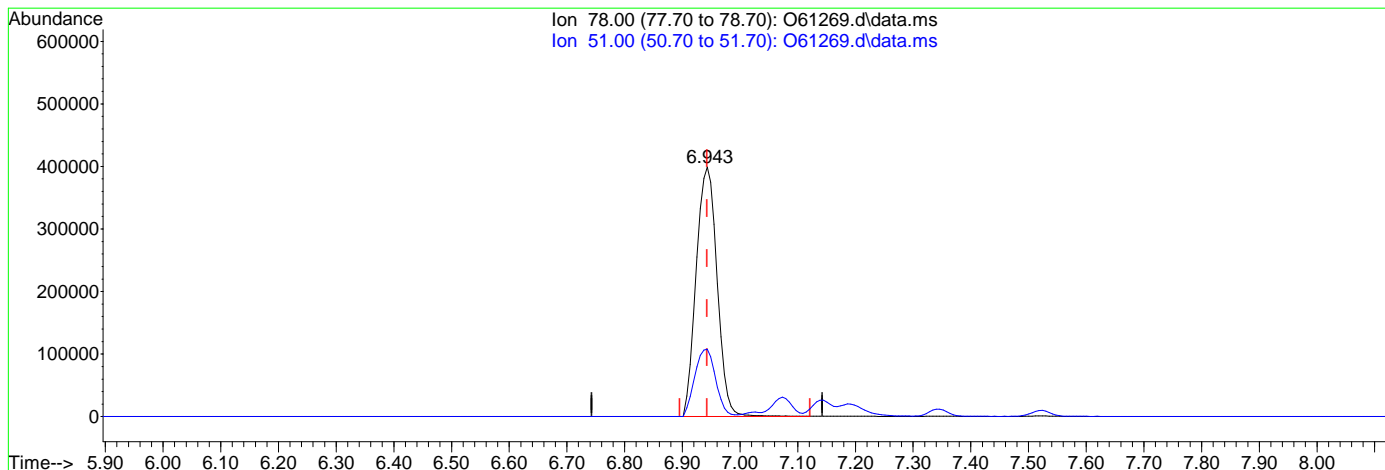
7.6.10.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61269.d  
 Acq On : 12 Sep 2020 5:18 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 02:56:03 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 10.48ug/L

response 1005851

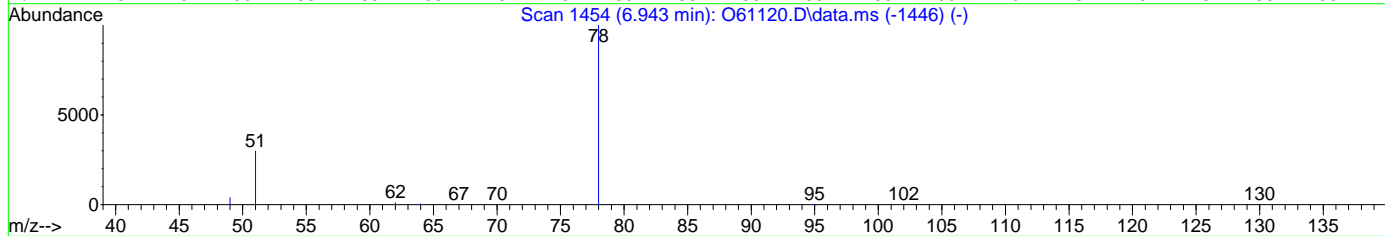
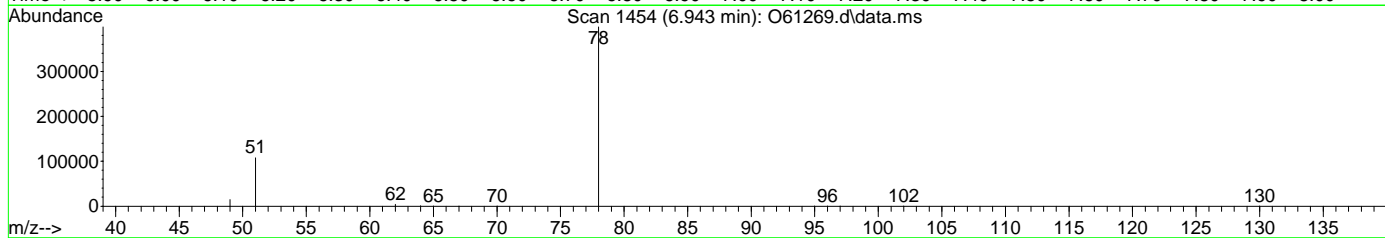
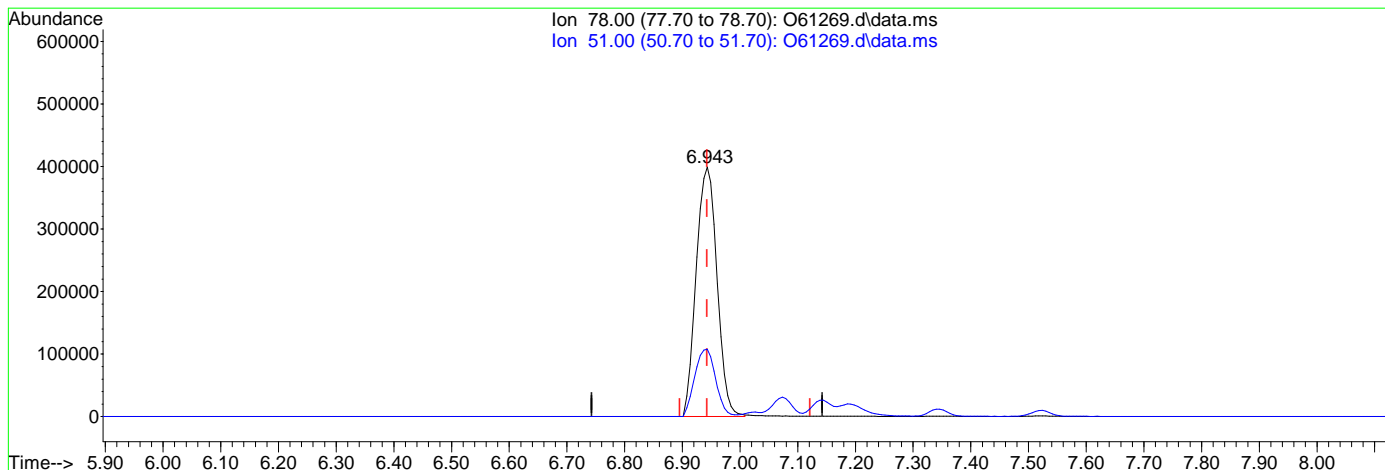
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.04
0.00	0.00	0.00
0.00	0.00	0.00

7.6.10.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vo2357\  
 Data File : O61269.d  
 Acq On : 12 Sep 2020 5:18 am  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47191,VO2357,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 02:56:03 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 10.40ug/L m

response 998401

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.04
0.00	0.00	0.00
0.00	0.00	0.00

7.6.10.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62207.D  
 Acq On : 11 Sep 2020 6:15 pm  
 Operator : SHANICAO  
 Sample : IC2414-1  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 20:45:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1911916	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1500837	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	582041	4.07	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	81.40%		
19) Toluene-d8	8.961	98	1882184	5.19	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	103.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	28495	0.14	ppb		64
3) Chloromethane	2.741	50	25350	0.11	ppb		98
4) 1,1-Dichloroethene	4.083	96	11716	0.09	ppb	#	82
5) Methylene Chloride	4.713	84	104791	0.50	ppb	#	85
6) trans-1,2-Dichloroethene	4.886	96	13680	0.09	ppb	#	86
7) 1,1-Dichloroethane	5.542	63	21987	0.07	ppb	#	93
8) cis-1,2-Dichloroethene	6.104	96	16012	0.10	ppb		90
9) Chloroform	6.371	83	29706	0.09	ppb		94
10) Carbon Tetrachloride	6.543	117	19024	0.09	ppb		96
11) 1,1,1-Trichloroethane	6.614	97	24317	0.09	ppb		56
12) Benzene	6.994	78	51294	0.09	ppb		91
14) 1,2-Dichloroethane	7.198	62	19143	0.08	ppb		99
15) Trichloroethene	7.564	95	15849	0.09	ppb		96
16) 1,2-Dichloropropane	8.101	63	13157	0.09	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	13481	0.09	ppb		96
20) trans-1,3-Dichloropropene	9.411	75	10019	0.09	ppb		96
21) Tetrachloroethene	9.399	166	15170	0.09	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

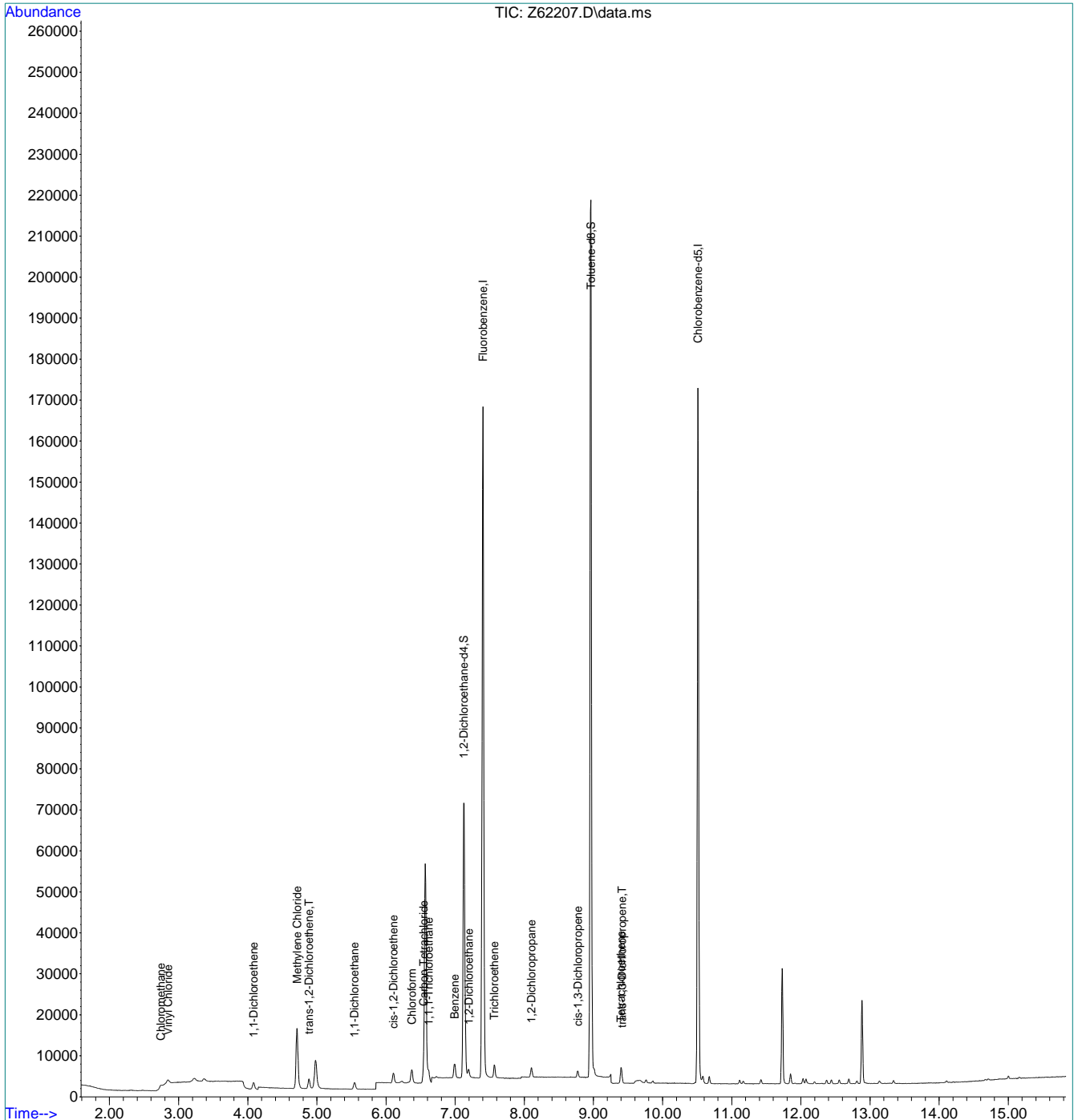
7.6.11  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62207.D  
 Acq On : 11 Sep 2020 6:15 pm  
 Operator : SHANICAO  
 Sample : IC2414-1  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 20:45:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.11  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62208.D  
 Acq On : 11 Sep 2020 6:34 pm  
 Operator : SHANICAO  
 Sample : IC2414-2  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 20:45:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1904308	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1505590	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	590498	4.14	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.80%	
19) Toluene-d8	8.961	98	1879356	5.17	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	100902	0.49	ppb		94
3) Chloromethane	2.737	50	94917	0.43	ppb		99
4) 1,1-Dichloroethene	4.087	96	56778	0.46	ppb	#	85
5) Methylene Chloride	4.717	84	159658	0.77	ppb	#	84
6) trans-1,2-Dichloroethene	4.890	96	72093	0.47	ppb	#	87
7) 1,1-Dichloroethane	5.546	63	125841	0.43	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	81784	0.50	ppb		91
9) Chloroform	6.377	83	149761	0.46	ppb		99
10) Carbon Tetrachloride	6.543	117	93184	0.46	ppb		100
11) 1,1,1-Trichloroethane	6.620	97	125772	0.46	ppb		93
12) Benzene	6.994	78	278106	0.49	ppb		95
14) 1,2-Dichloroethane	7.198	62	107084	0.46	ppb		99
15) Trichloroethene	7.571	95	81536	0.46	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	71854	0.47	ppb		96
17) cis-1,3-Dichloropropene	8.773	75	62431	0.42	ppb		97
20) trans-1,3-Dichloropropene	9.411	75	51134	0.43	ppb		97
21) Tetrachloroethene	9.399	166	81006	0.45	ppb		99

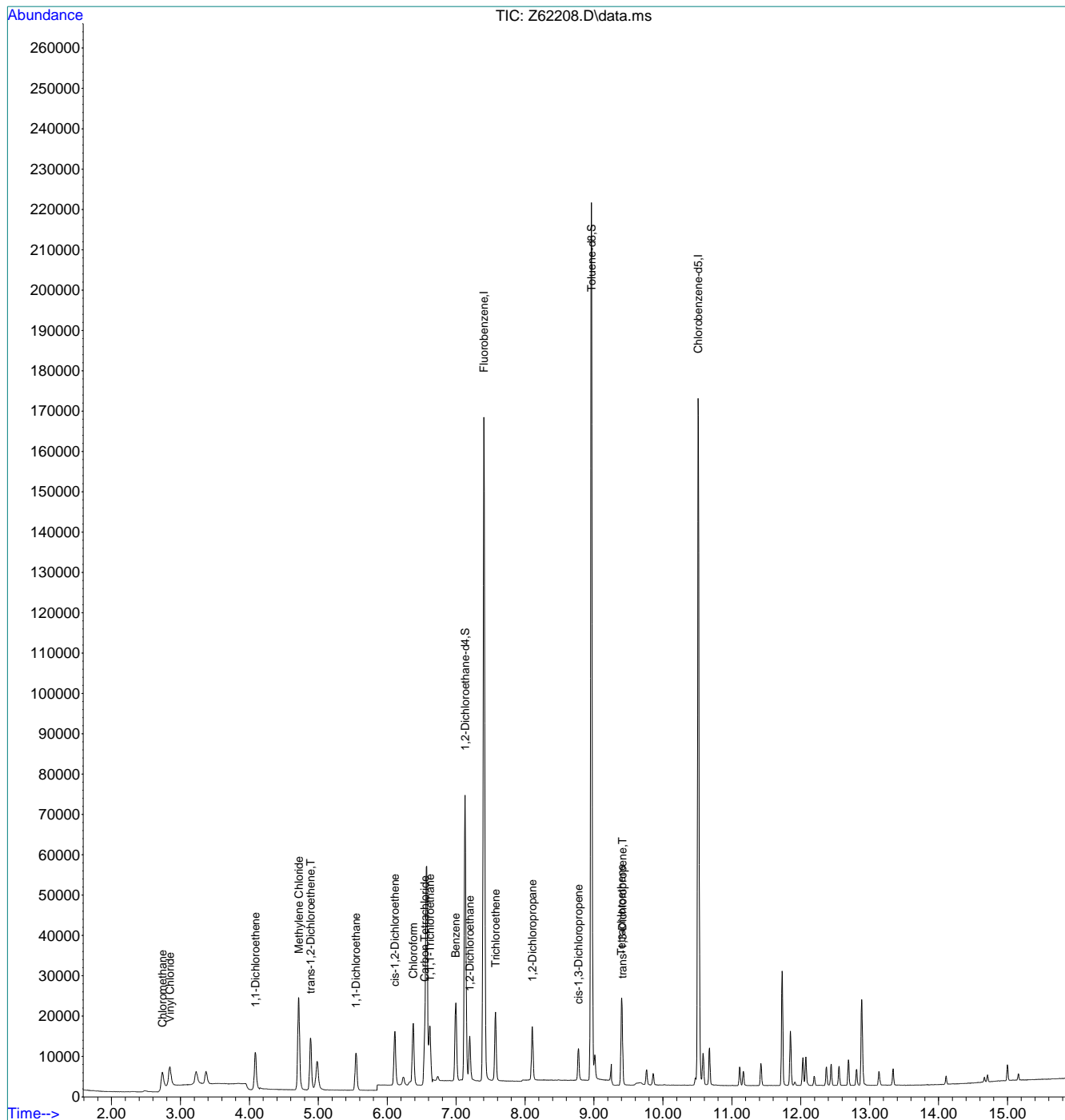
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62208.D  
 Acq On : 11 Sep 2020 6:34 pm  
 Operator : SHANICAO  
 Sample : IC2414-2  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 20:45:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.12  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62209.D  
 Acq On : 11 Sep 2020 6:53 pm  
 Operator : SHANICAO  
 Sample : IC2414-3  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 20:45:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

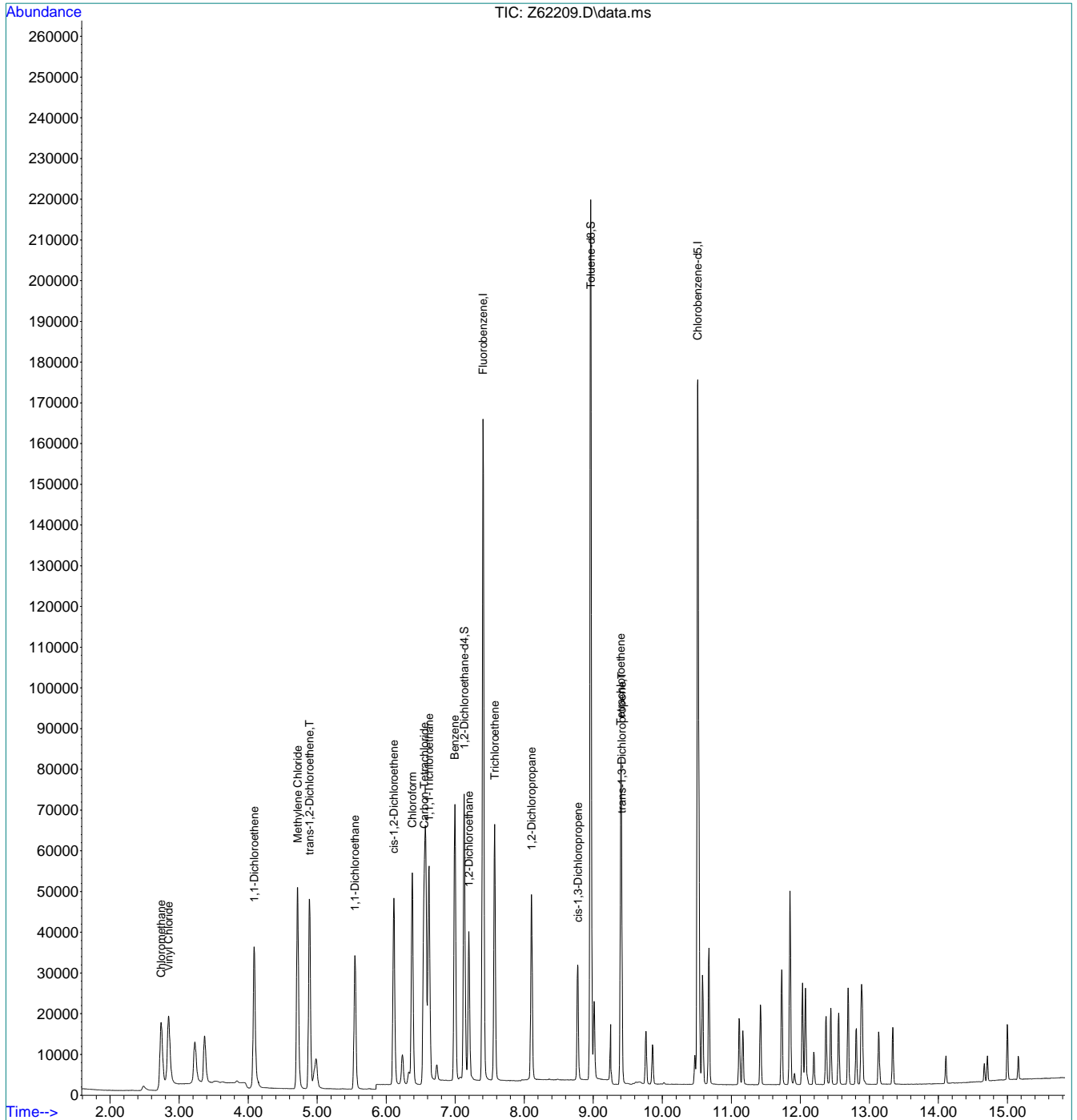
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1880383	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1501976	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	577590	4.10	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.00%	
19) Toluene-d8	8.961	98	1874357	5.17	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	355035	1.73	ppb		99
3) Chloromethane	2.737	50	361423	1.66	ppb		99
4) 1,1-Dichloroethene	4.087	96	211318	1.74	ppb	#	86
5) Methylene Chloride	4.717	84	343631	1.70	ppb	#	85
6) trans-1,2-Dichloroethene	4.890	96	256460	1.69	ppb	#	88
7) 1,1-Dichloroethane	5.546	63	437656	1.50	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	282000	1.74	ppb		93
9) Chloroform	6.377	83	511484	1.59	ppb		99
10) Carbon Tetrachloride	6.549	117	347244	1.75	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	460357	1.71	ppb		97
12) Benzene	6.994	78	967414	1.72	ppb		96
14) 1,2-Dichloroethane	7.198	62	357979	1.54	ppb		100
15) Trichloroethene	7.571	95	292723	1.66	ppb		86
16) 1,2-Dichloropropane	8.105	63	240964	1.60	ppb		94
17) cis-1,3-Dichloropropene	8.777	75	222972	1.51	ppb		97
20) trans-1,3-Dichloropropene	9.411	75	182860	1.51	ppb		99
21) Tetrachloroethene	9.399	166	294888	1.65	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62209.D  
 Acq On : 11 Sep 2020 6:53 pm  
 Operator : SHANICAO  
 Sample : IC2414-3  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 20:45:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.13  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62210.D  
 Acq On : 11 Sep 2020 7:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-4  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 20:45:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

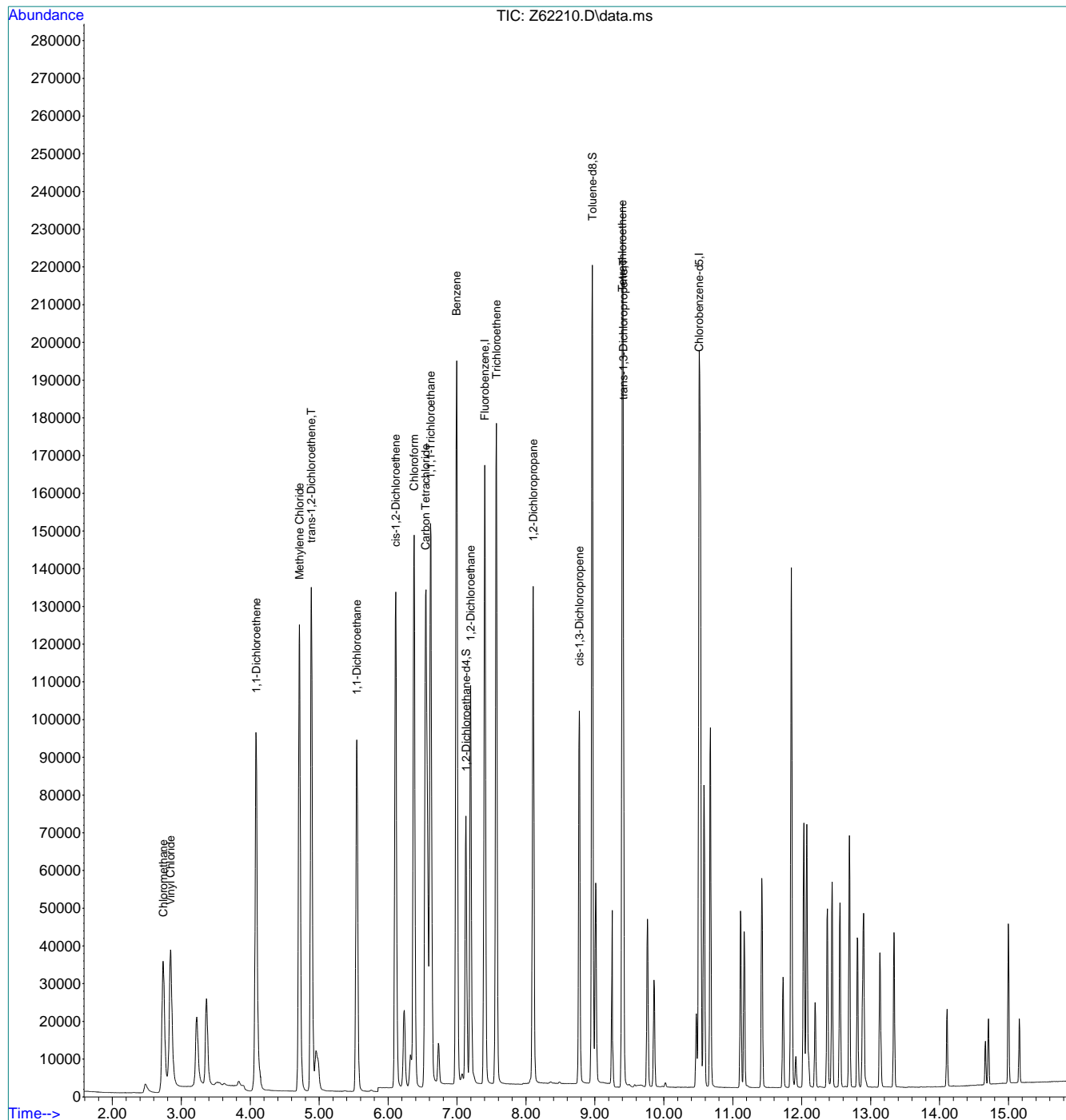
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1874569	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1501119	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	580143	4.14	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.80%	
19) Toluene-d8	8.961	98	1856134	5.12	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%	
Target Compounds							
2) Vinyl Chloride	2.843	62	746636	3.65	ppb	100	Qvalue
3) Chloromethane	2.737	50	689642	3.18	ppb	100	
4) 1,1-Dichloroethene	4.087	96	578860	4.78	ppb	#	84
5) Methylene Chloride	4.713	84	844960	4.28	ppb	#	87
6) trans-1,2-Dichloroethene	4.887	96	721782	4.77	ppb		90
7) 1,1-Dichloroethane	5.546	63	1240697	4.27	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	799673	4.96	ppb		91
9) Chloroform	6.377	83	1469750	4.59	ppb		100
10) Carbon Tetrachloride	6.543	117	991099	5.00	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1287900	4.80	ppb		99
12) Benzene	6.994	78	2731897	4.86	ppb		94
14) 1,2-Dichloroethane	7.198	62	1039442	4.49	ppb		100
15) Trichloroethene	7.571	95	828558	4.70	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	697663	4.66	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	770426	4.98	ppb		99
20) trans-1,3-Dichloropropene	9.412	75	644715	4.96	ppb		99
21) Tetrachloroethene	9.399	166	826179	4.63	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62210.D  
 Acq On : 11 Sep 2020 7:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-4  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 20:45:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.14  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62211.D  
 Acq On : 11 Sep 2020 7:32 pm  
 Operator : SHANICAO  
 Sample : ICC2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 20:45:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

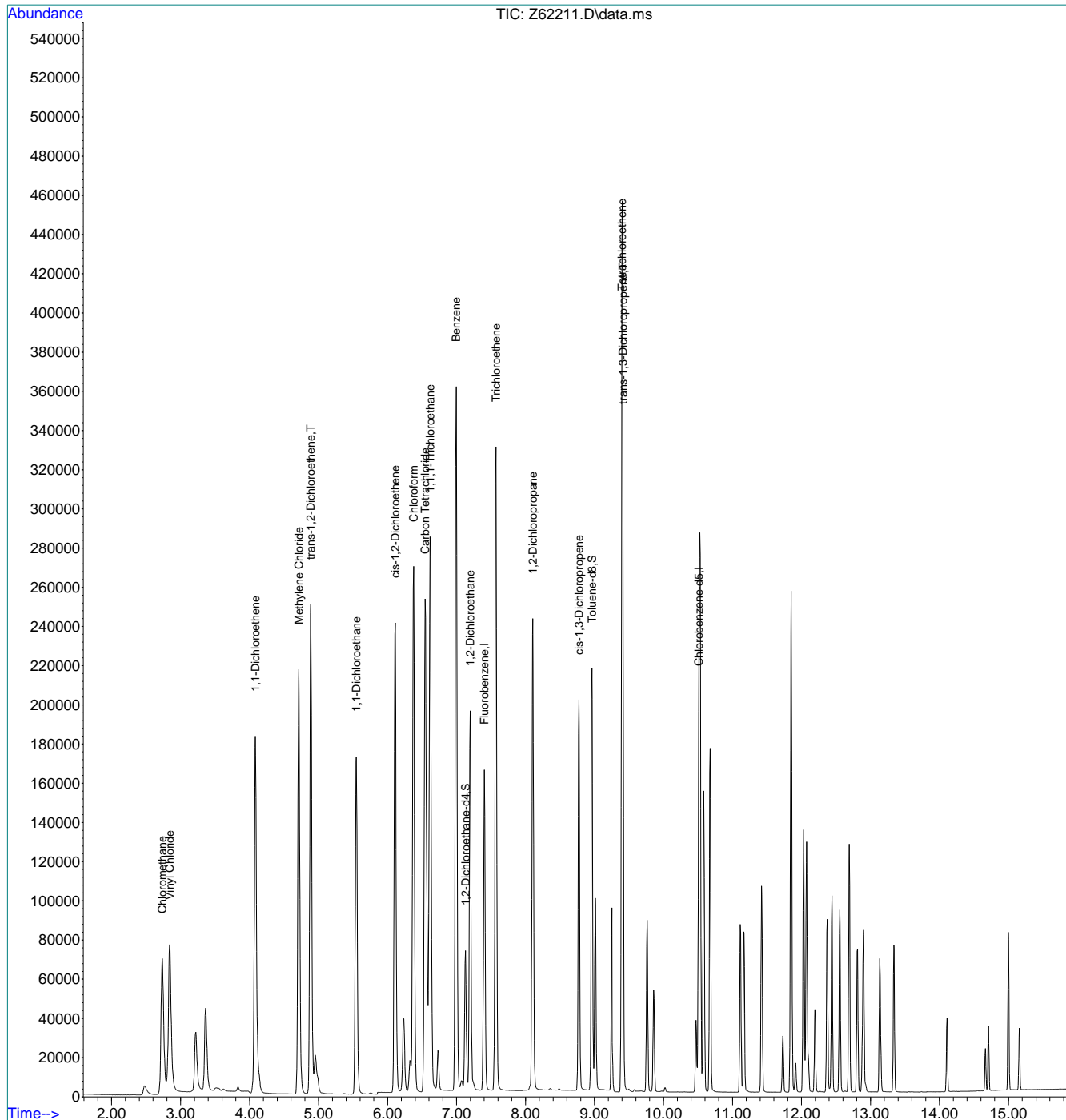
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1875869	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1507669	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	588321	4.19	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	83.80%	
19) Toluene-d8	8.961	98	1858099	5.10	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1492558	7.29	ppb		99
3) Chloromethane	2.733	50	1346933	6.21	ppb		100
4) 1,1-Dichloroethene	4.083	96	1096324	9.05	ppb	#	86
5) Methylene Chloride	4.713	84	1470542	7.68	ppb	#	86
6) trans-1,2-Dichloroethene	4.886	96	1349910	8.92	ppb		89
7) 1,1-Dichloroethane	5.546	63	2297659	7.91	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1467363	9.09	ppb		90
9) Chloroform	6.377	83	2692203	8.40	ppb		99
10) Carbon Tetrachloride	6.543	117	1927309	9.72	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2452792	9.14	ppb		99
12) Benzene	6.994	78	5069961	9.02	ppb		94
14) 1,2-Dichloroethane	7.198	62	1897782	8.19	ppb		100
15) Trichloroethene	7.571	95	1558656	8.84	ppb	#	82
16) 1,2-Dichloropropane	8.105	63	1281972	8.55	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	1534300	9.33	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	1291984	9.12	ppb		98
21) Tetrachloroethene	9.399	166	1556787	8.70	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62211.D  
 Acq On : 11 Sep 2020 7:32 pm  
 Operator : SHANICAO  
 Sample : ICC2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 20:45:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.15  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 13:35:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1928565	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1554348	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	598324	4.15	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	83.00%		
19) Toluene-d8	8.961	98	1902886	5.07	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	101.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	2372157	11.27	ppb		99
3) Chloromethane	2.737	50	2193747m	9.84	ppb		
4) 1,1-Dichloroethene	4.083	96	1744774	14.01	ppb	#	85
5) Methylene Chloride	4.713	84	2365093	12.57	ppb	#	86
6) trans-1,2-Dichloroethene	4.886	96	2193890	14.11	ppb		89
7) 1,1-Dichloroethane	5.546	63	3742058	12.53	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	2407966	14.50	ppb		90
9) Chloroform	6.377	83	4396659	13.34	ppb		99
10) Carbon Tetrachloride	6.543	117	3121791	15.31	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	3949841	14.31	ppb		100
12) Benzene	6.994	78	8243521	14.26	ppb		94
14) 1,2-Dichloroethane	7.198	62	3118382	13.08	ppb		100
15) Trichloroethene	7.564	95	2545311	14.04	ppb		96
16) 1,2-Dichloropropane	8.105	63	2098124	13.62	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	2732029	15.02	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2318445	14.41	ppb		99
21) Tetrachloroethene	9.399	166	2516093	13.63	ppb		100

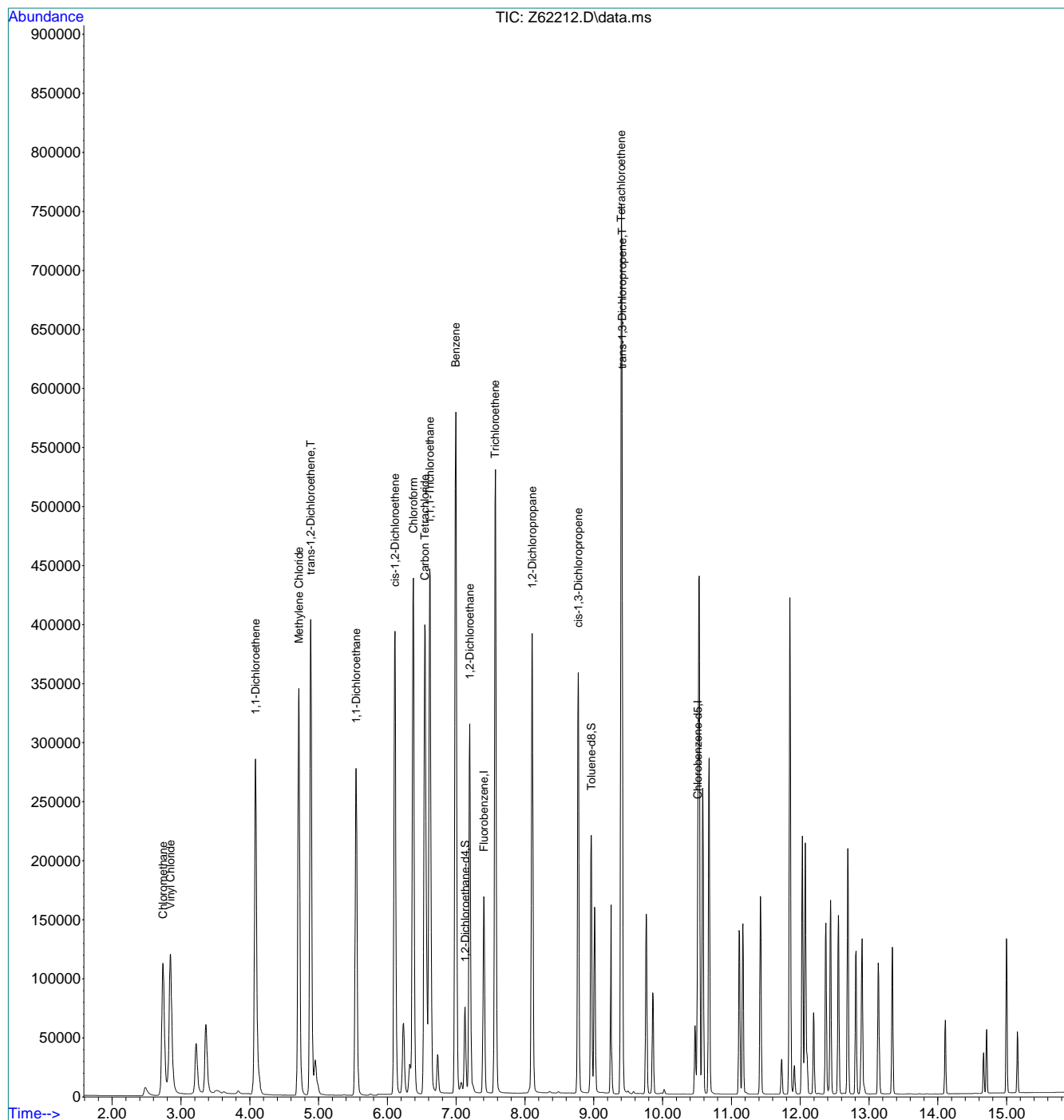
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 13:35:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.16  
7



# Manual Integration Approval Summary

**Sample Number:** VZ2414-IC2414      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62212.D      **Analyst approved:** 09/13/20 13:47 Stuti Patel  
**Injection Time:** 09/11/20 19:51      **Supervisor approved:** 09/14/20 11:09 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.74	Overlapping peak

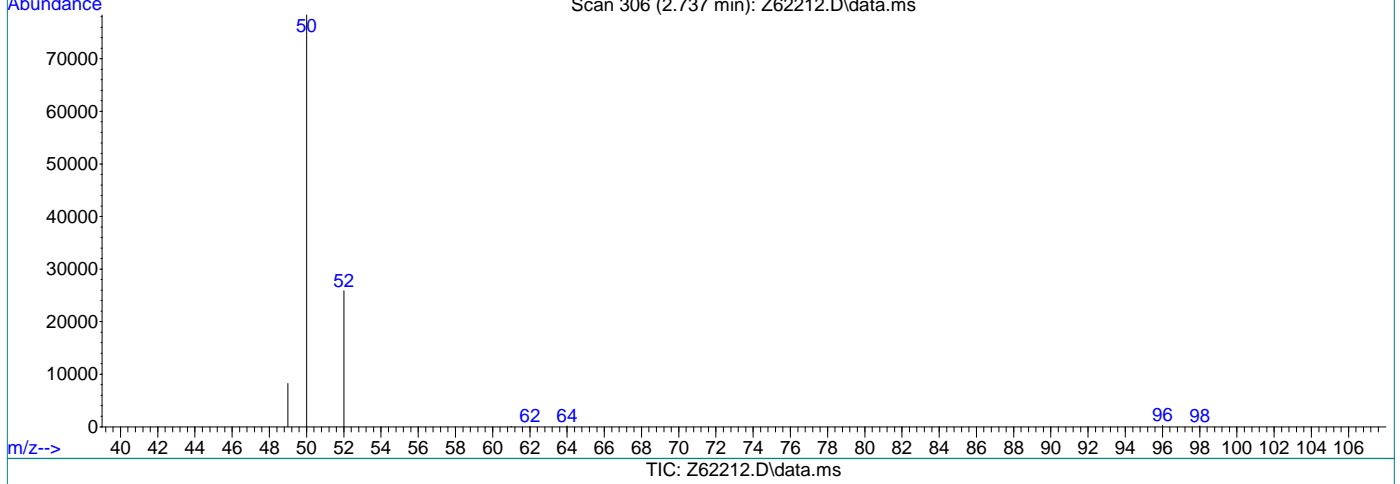
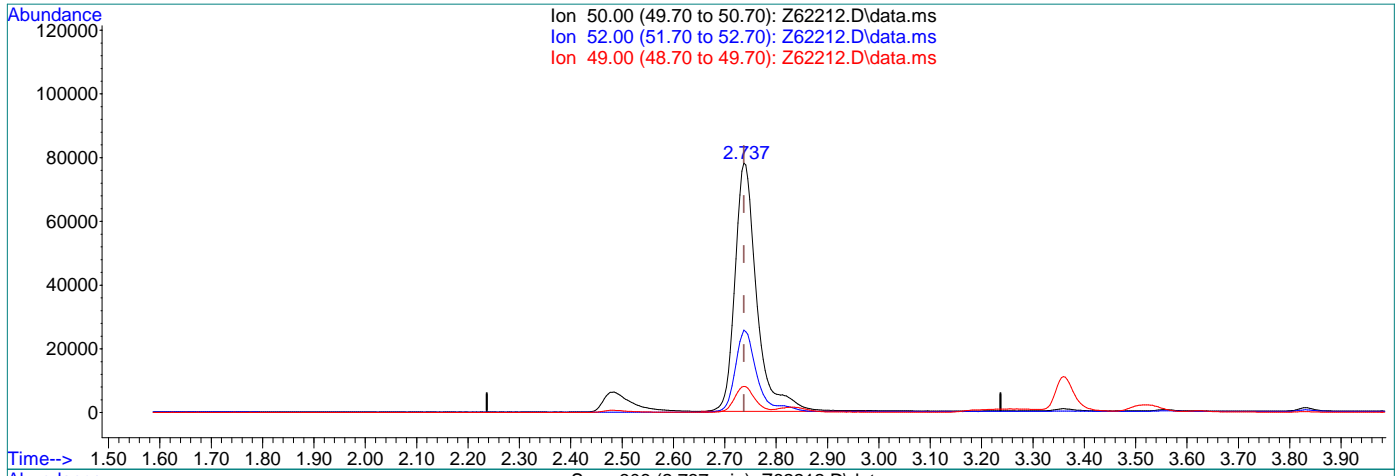
7.6.16.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 20:45:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.737min (-0.000) 10.40ppb

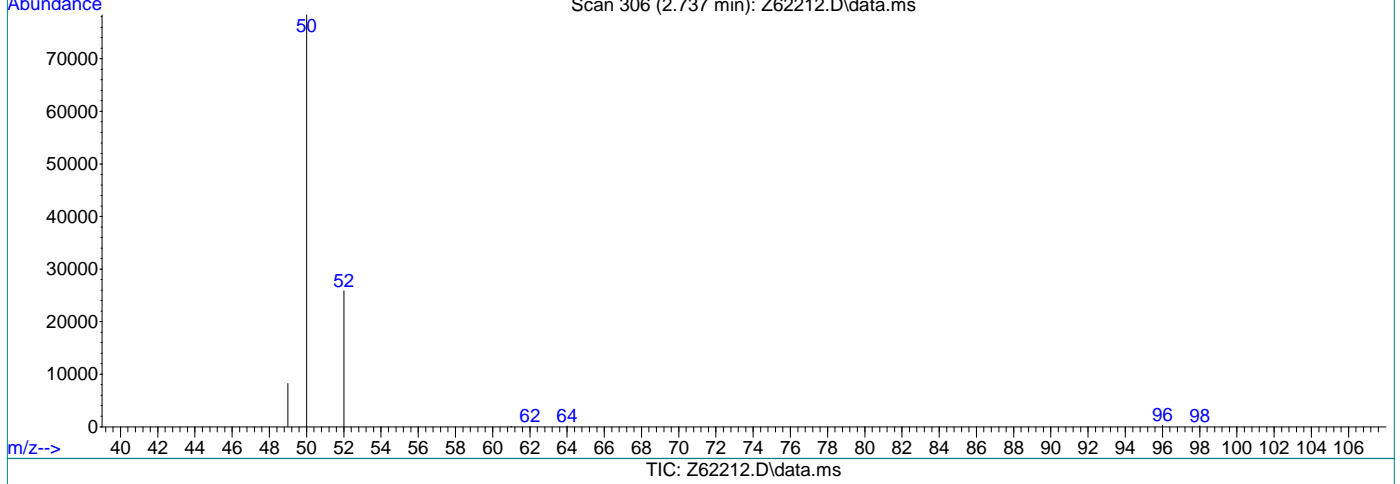
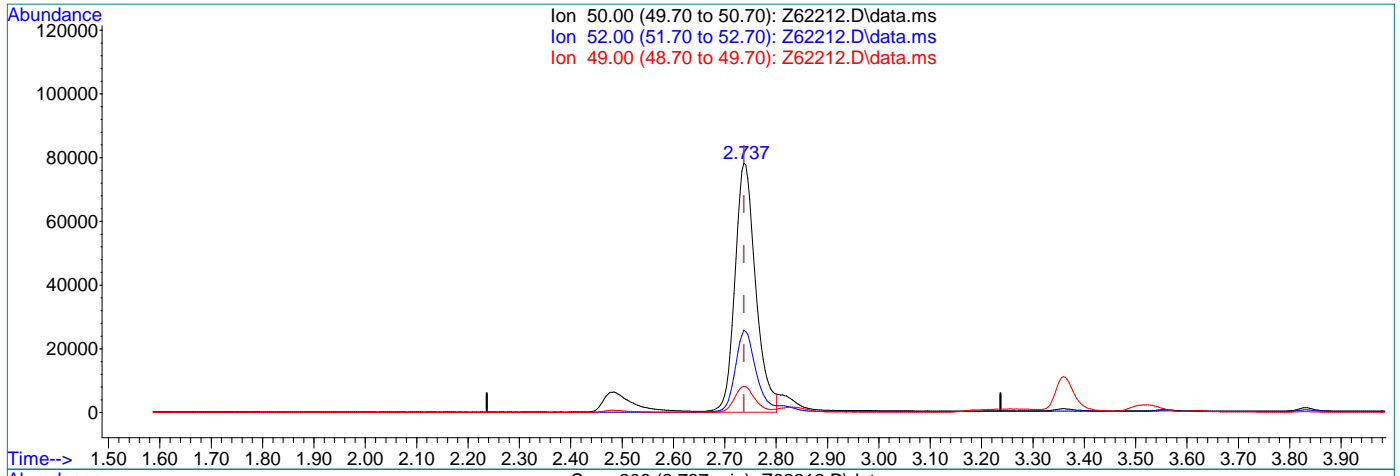
response 2319513

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	33.01
49.00	10.80	10.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 20:45:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.737min (-0.000) 9.84ppb m

response 2193747

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	33.03
49.00	10.80	10.53
0.00	0.00	0.00

7.6.16.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 13:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

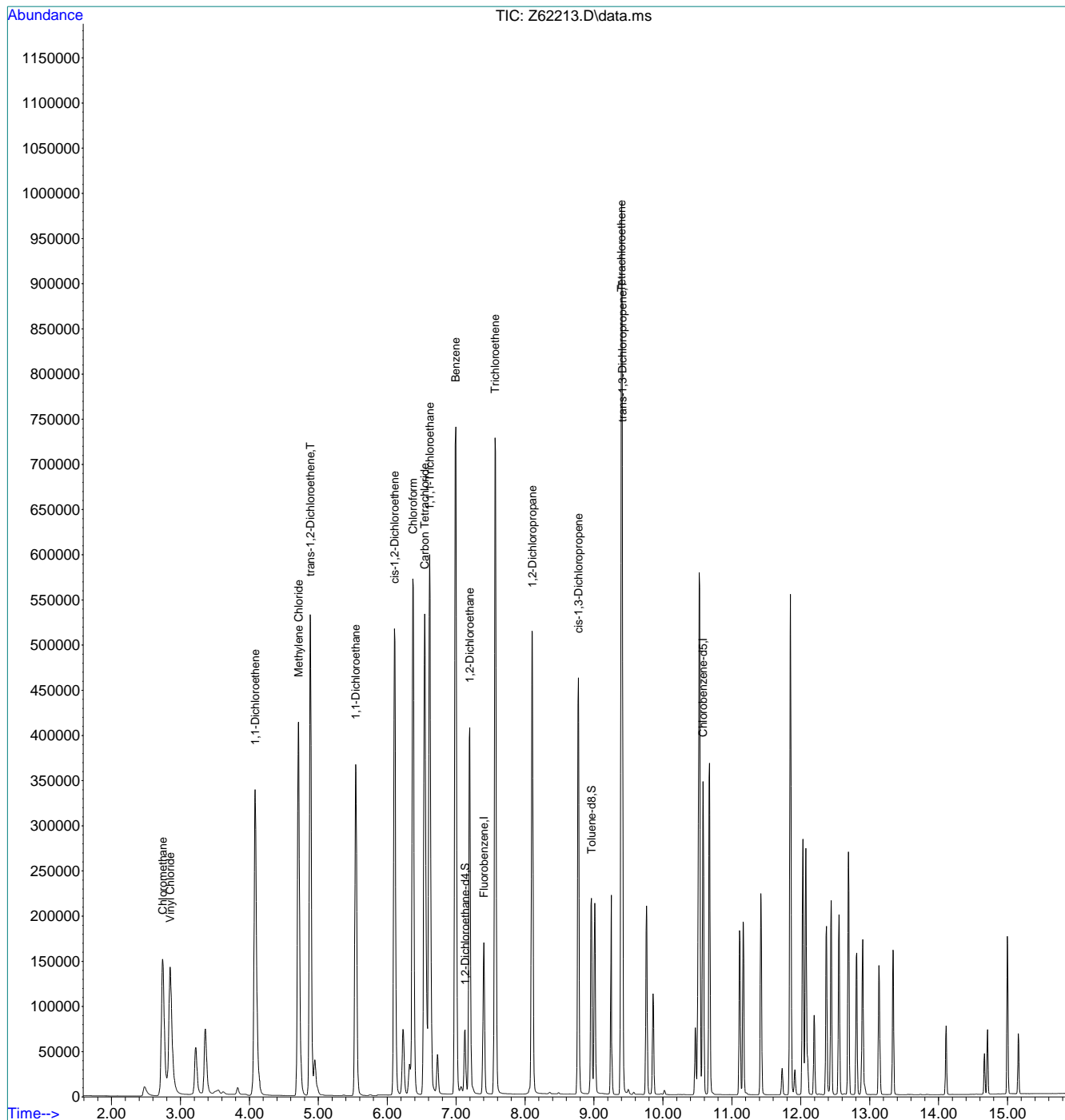
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1917621	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.583	117	1788256	5.00	ppb	# 0.07	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	594422	4.14	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.80%	
19) Toluene-d8	8.961	98	1887402	4.37	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.850	62	3290825	15.73	ppb		100
3) Chloromethane	2.741	50	3221181m	14.53	ppb		
4) 1,1-Dichloroethene	4.083	96	2349554	18.97	ppb	#	85
5) Methylene Chloride	4.713	84	3082122	17.24	ppb	#	85
6) trans-1,2-Dichloroethene	4.886	96	2926695	18.93	ppb	#	87
7) 1,1-Dichloroethane	5.542	63	4937816	16.63	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	3175295	19.23	ppb		94
9) Chloroform	6.371	83	5799532	17.70	ppb		99
10) Carbon Tetrachloride	6.543	117	4140429	20.43	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	5188910	18.91	ppb		100
12) Benzene	6.994	78	10899346	18.97	ppb		93
14) 1,2-Dichloroethane	7.198	62	4096394	17.29	ppb		100
15) Trichloroethene	7.564	95	3527962	19.57	ppb		93
16) 1,2-Dichloropropane	8.105	63	2768908	18.07	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	3527102	18.66	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2974601m	15.72	ppb		
21) Tetrachloroethene	9.399	166	3343761	15.75	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 13:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.17  
7

# Manual Integration Approval Summary

**Sample Number:** VZ2414-IC2414      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62213.D      **Analyst approved:** 09/13/20 13:47 Stuti Patel  
**Injection Time:** 09/11/20 20:13      **Supervisor approved:** 09/14/20 11:09 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.74	Overlapping peak
trans-1,3-Dichloropropene	10061-02-6		9.41	Missed peak

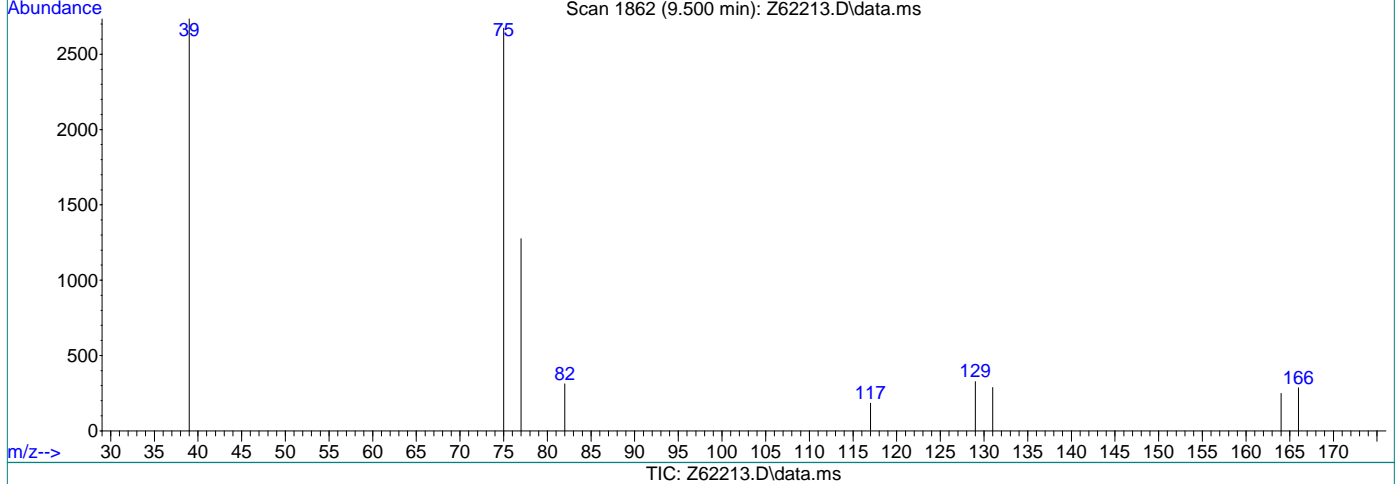
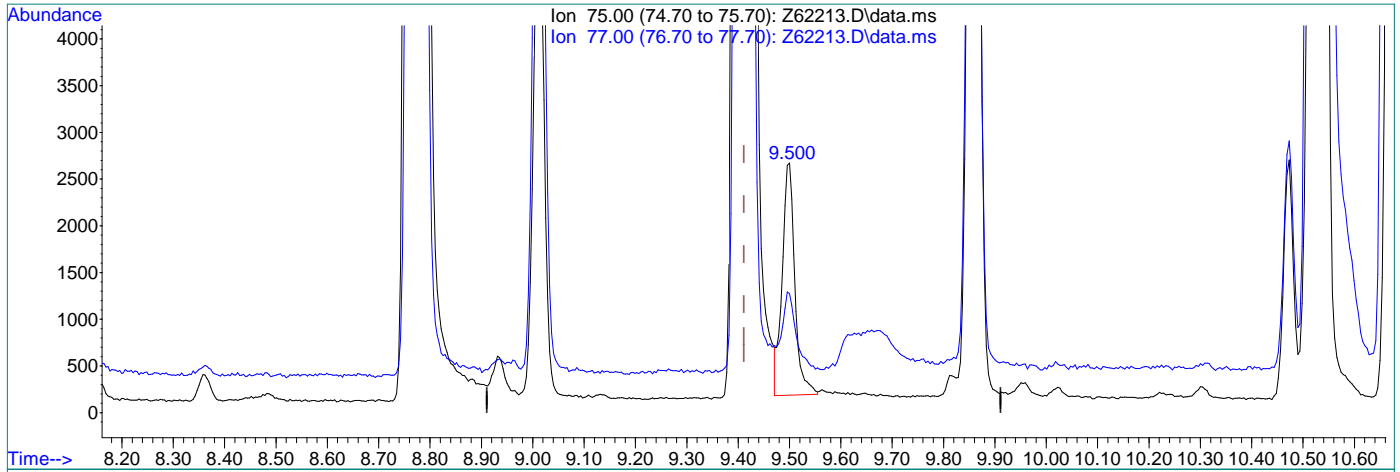
7.6.17.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:45:34 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.500min (+0.089) 0.30ppb

response 42280

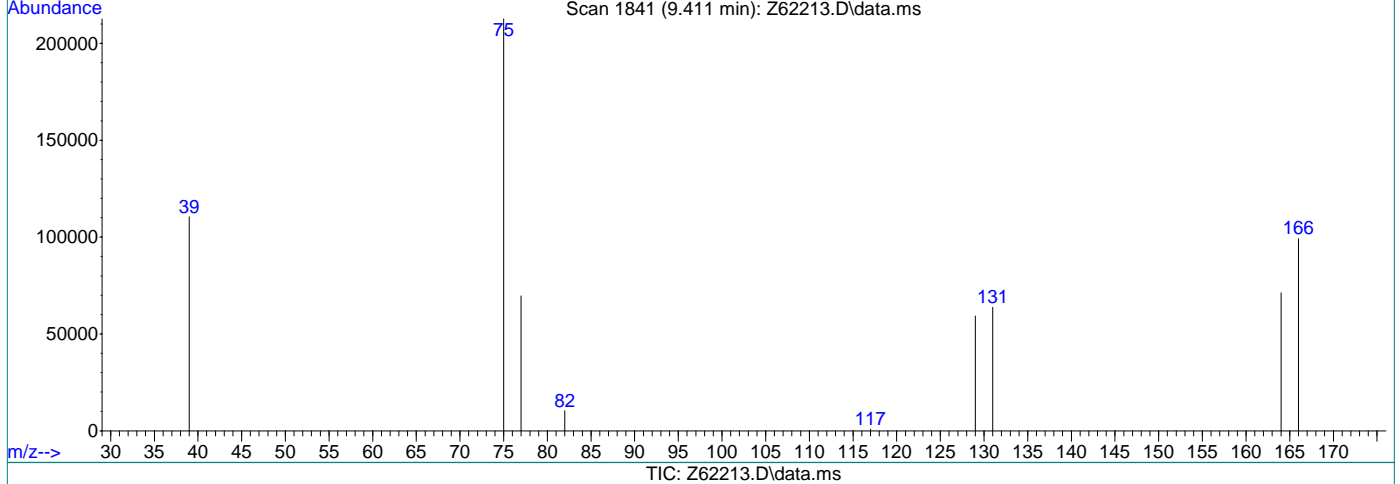
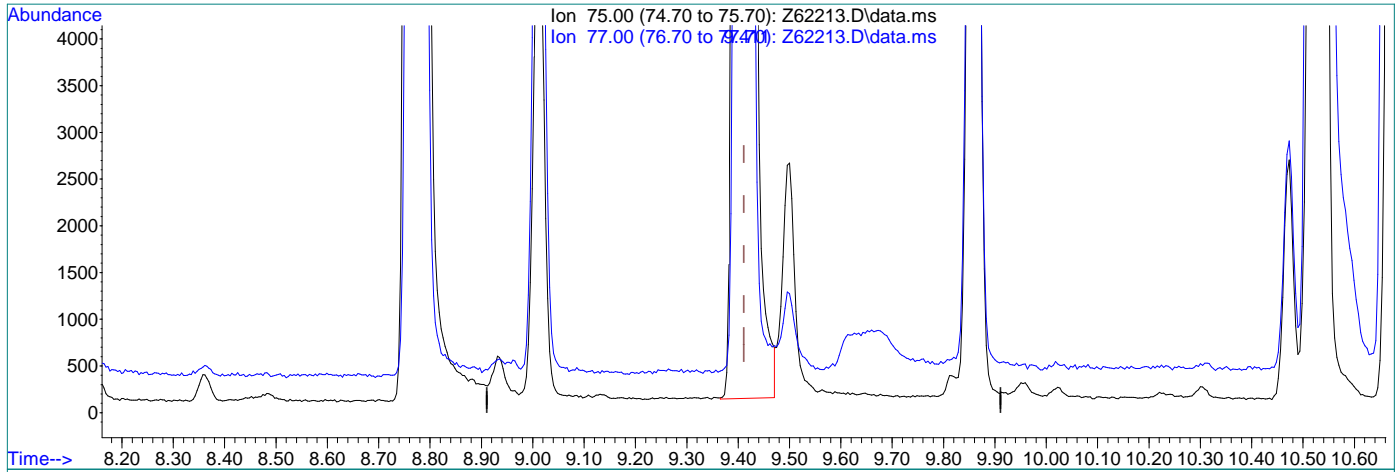
Ion	Exp%	Act%
75.00	100	100
77.00	31.50	32.52
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:45:34 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.411min (+0.000) 15.72ppb m

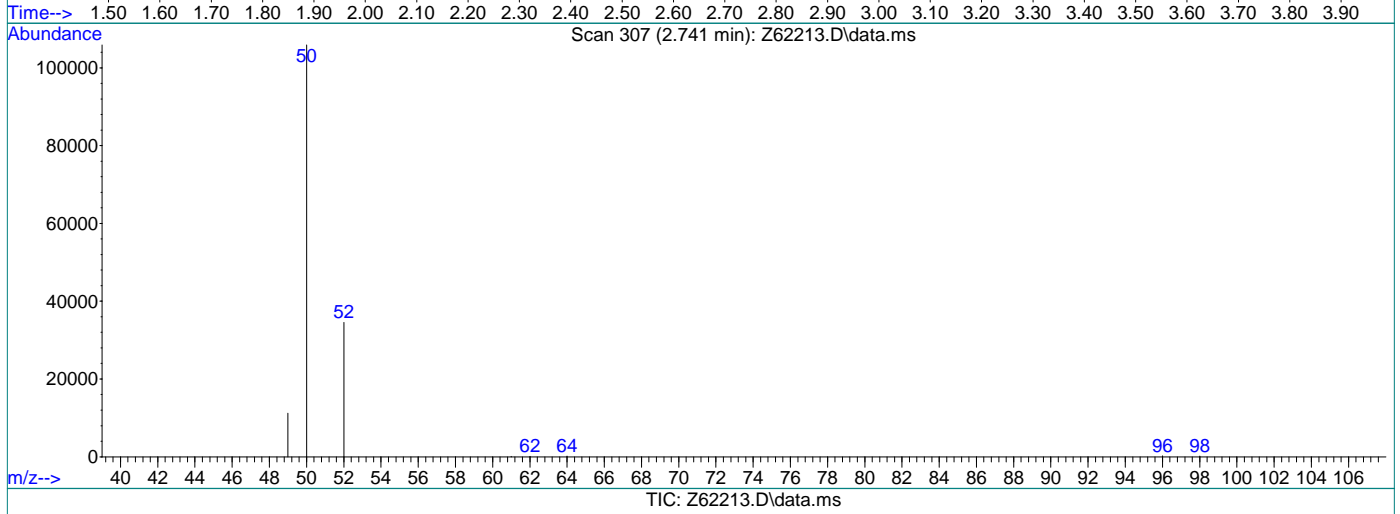
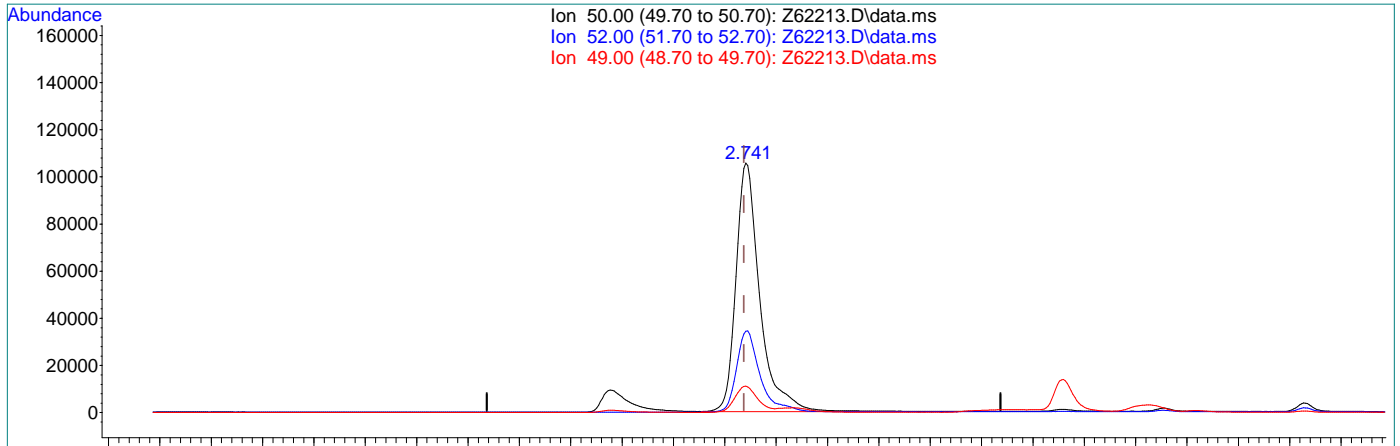
response 2974601

Ion	Exp%	Act%
75.00	100	100
77.00	31.50	32.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:49:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane  
 2.741min (+0.004) 15.35ppb  
 response 3403148

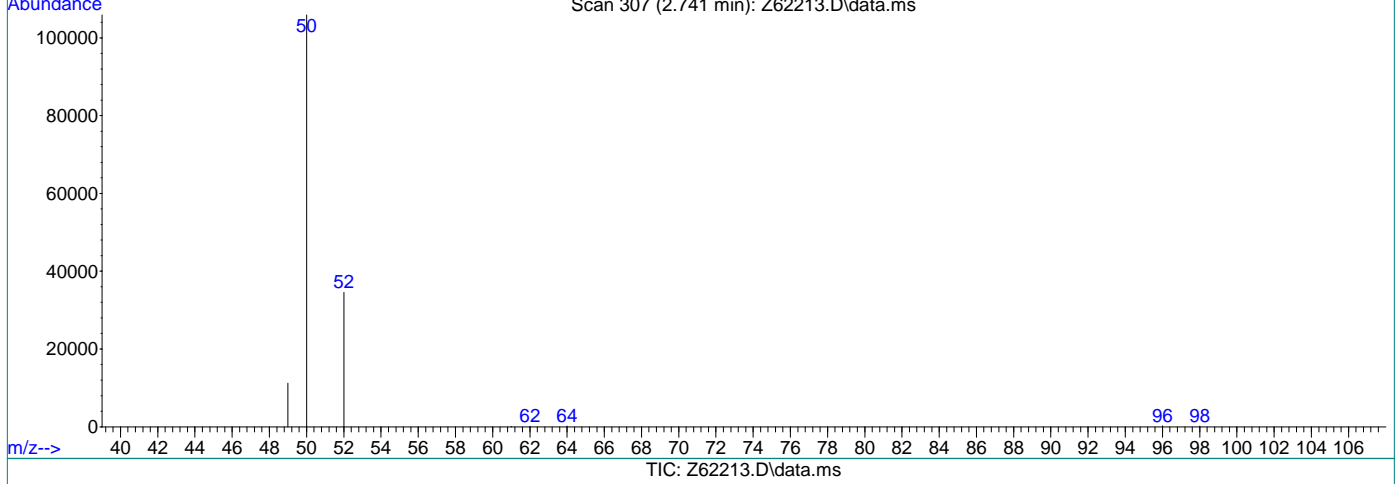
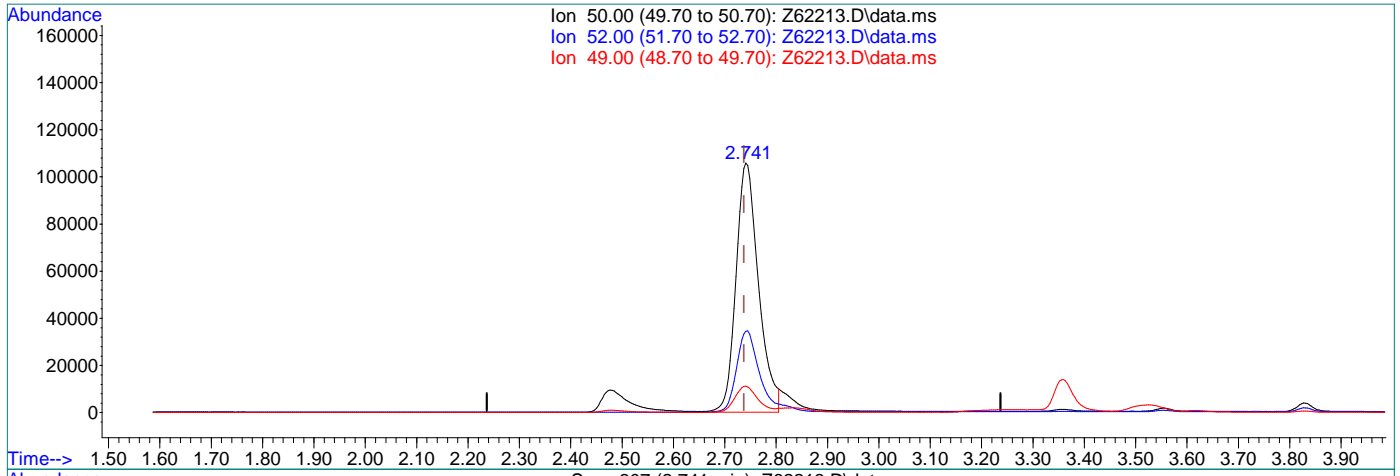
Ion	Exp%	Act%
50.00	100	100
52.00	32.60	32.61
49.00	10.80	10.56
0.00	0.00	0.00

7.6.17.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:49:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.741min (+0.004) 14.53ppb m

response 3221181

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	32.60
49.00	10.80	10.61
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62215.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : SHANICAO  
 Sample : ICV2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 13:41:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.402	96	1913422	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.512	117	1533777	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.131	65	601973	5.09	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.80%	
19) Toluene-d8	8.962	98	1888455	5.07	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1616654	10.13	ppb		99
3) Chloromethane	2.733	50	1398748	9.96	ppb		100
4) 1,1-Dichloroethene	4.083	96	1273981	10.99	ppb	#	85
5) Methylene Chloride	4.713	84	1568776	9.19	ppb	#	87
6) trans-1,2-Dichloroethene	4.886	96	1451630	10.28	ppb		91
7) 1,1-Dichloroethane	5.546	63	2482127	10.36	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1578267	10.06	ppb		91
9) Chloroform	6.377	83	2861428	9.95	ppb		99
10) Carbon Tetrachloride	6.543	117	2066805	10.59	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2614500	10.38	ppb		100
12) Benzene	6.995	78	5609186	10.53	ppb		94
14) 1,2-Dichloroethane	7.199	62	2071875	10.32	ppb		100
15) Trichloroethene	7.565	95	1708163	10.45	ppb		95
16) 1,2-Dichloropropane	8.106	63	1410167	10.40	ppb		94
17) cis-1,3-Dichloropropene	8.774	75	1756808	10.89	ppb		98
20) trans-1,3-Dichloropropene	9.412	75	1511145	11.39	ppb		98
21) Tetrachloroethene	9.400	166	1702489	10.36	ppb		99
-----							

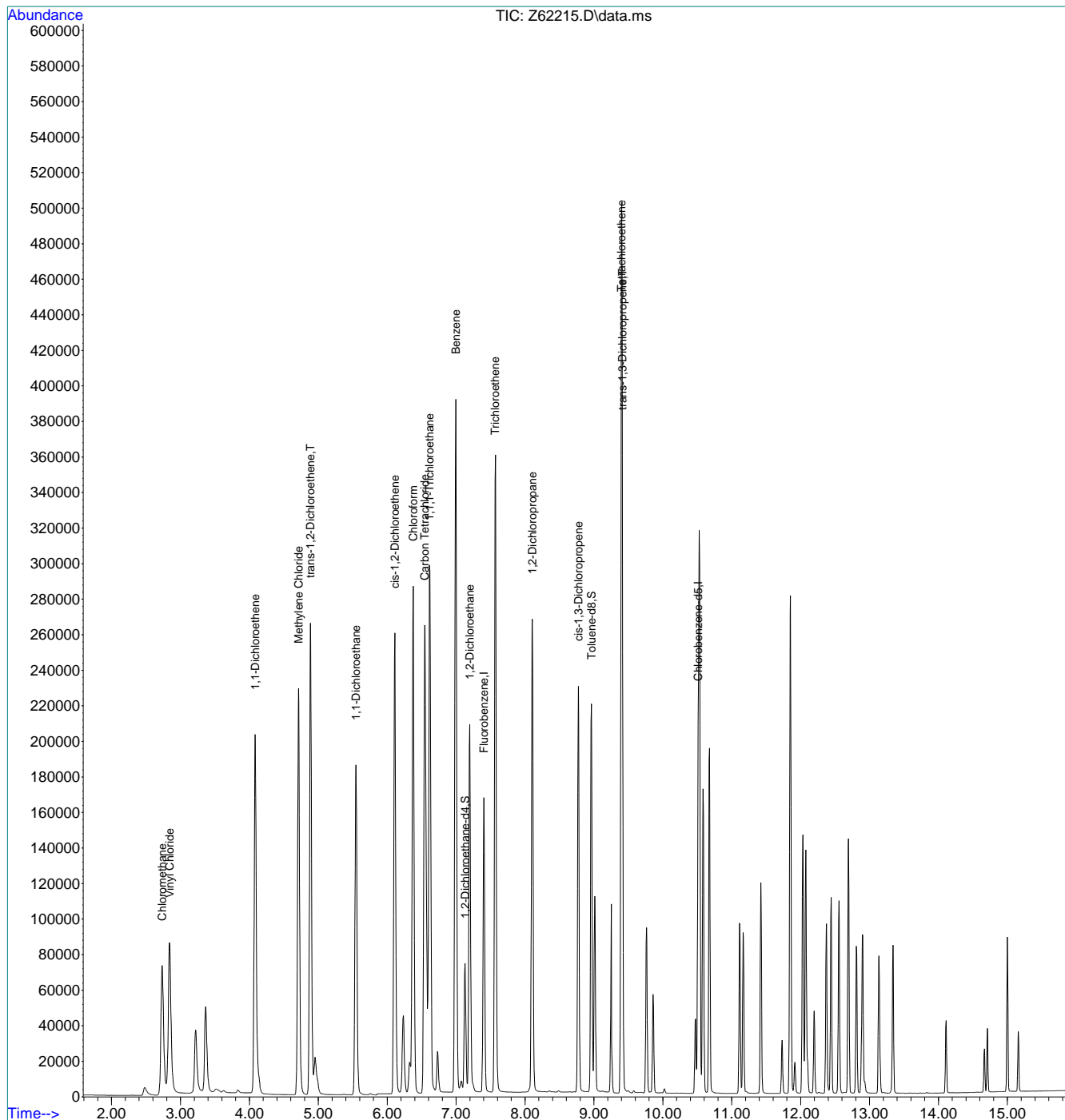
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.18  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62215.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : SHANICAO  
 Sample : ICV2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 13:41:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.18  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2415\  
 Data File : Z62239.d  
 Acq On : 12 Sep 2020 11:07 am  
 Operator : stutip  
 Sample : CC2414-5  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 06:27:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2158555	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1730511	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	661326	4.95	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	99.00%		
19) Toluene-d8	8.958	98	2125770	5.06	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	101.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	2092269	11.61	ppb		99
3) Chloromethane	2.729	50	1936156	11.92	ppb		99
4) 1,1-Dichloroethene	4.083	96	1441507	11.02	ppb	#	87
5) Methylene Chloride	4.713	84	2154101	11.52	ppb	#	87
6) trans-1,2-Dichloroethene	4.886	96	1882875	11.82	ppb		89
7) 1,1-Dichloroethane	5.542	63	3261806	12.07	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	2062956	11.65	ppb		94
9) Chloroform	6.371	83	3739879	11.53	ppb		99
10) Carbon Tetrachloride	6.543	117	2521961	11.45	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	3277786	11.53	ppb		99
12) Benzene	6.994	78	7089174	11.80	ppb		93
14) 1,2-Dichloroethane	7.191	62	2599457	11.48	ppb		100
15) Trichloroethene	7.564	95	2027887	11.00	ppb		92
16) 1,2-Dichloropropane	8.101	63	1776959	11.62	ppb		95
17) cis-1,3-Dichloropropene	8.773	75	2428004	12.97	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2063618	13.66	ppb		98
21) Tetrachloroethene	9.399	166	2078330	11.33	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

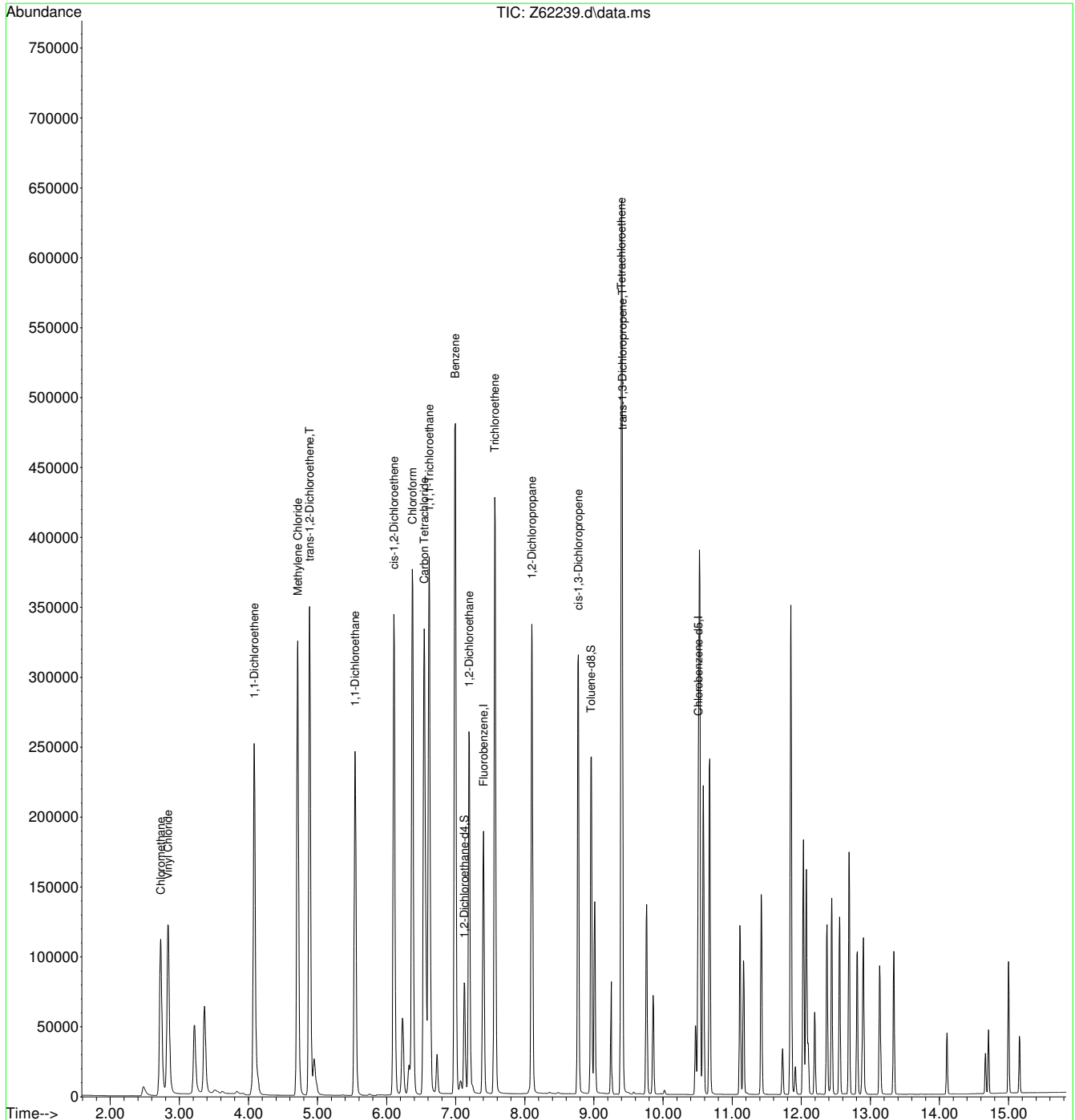
7.6.19  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62239.d  
 Acq On : 12 Sep 2020 11:07 am  
 Operator : stutip  
 Sample : CC2414-5  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 06:27:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.19  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2415\  
 Data File : Z62256.d  
 Acq On : 12 Sep 2020 4:41 pm  
 Operator : stutip  
 Sample : ecc2414-5  
 Misc : MS47192,VZ2415,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 14 06:28:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1867030	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1507510	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	605218	5.24	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	104.80%		
19) Toluene-d8	8.961	98	1824102	4.98	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.842	62	1969022	12.63	ppb		100
3) Chloromethane	2.733	50	1743253	12.35	ppb		100
4) 1,1-Dichloroethene	4.087	96	1306275	11.55	ppb	#	87
5) Methylene Chloride	4.717	84	1874685	11.60	ppb	#	87
6) trans-1,2-Dichloroethene	4.890	96	1657815	12.03	ppb		90
7) 1,1-Dichloroethane	5.546	63	2907593	12.44	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1830803	11.95	ppb		94
9) Chloroform	6.377	83	3412956	12.16	ppb		99
10) Carbon Tetrachloride	6.549	117	2133383	11.20	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	2932832	11.93	ppb		100
12) Benzene	6.994	78	6357119	12.23	ppb		96
14) 1,2-Dichloroethane	7.198	62	2490227	12.71	ppb		100
15) Trichloroethene	7.571	95	1939959	12.17	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	1627814	12.31	ppb		96
17) cis-1,3-Dichloropropene	8.773	75	1656672	10.57	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	1375417	10.59	ppb		99
21) Tetrachloroethene	9.399	166	1887067	11.88	ppb		98
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.20  
7

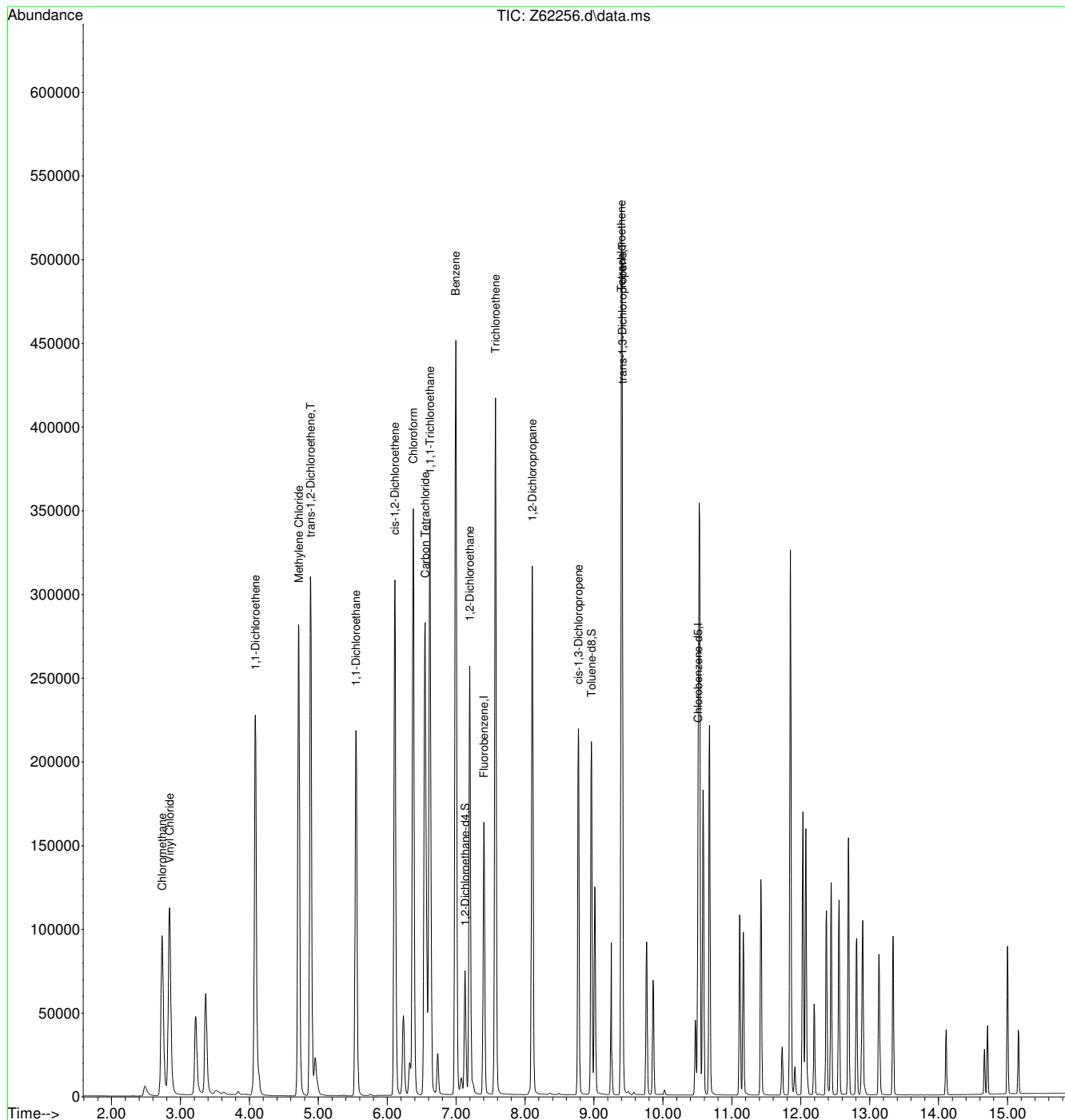




Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62256.d  
 Acq On : 12 Sep 2020 4:41 pm  
 Operator : stutip  
 Sample : ecc2414-5  
 Misc : MS47192,VZ2415,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 14 06:28:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.20  
7



Date: 9/11/2020  
 COLUMN TYPE: RTX VMS  
 DETECTOR: 5975 MSD  
 INSTRUMENT: MSVOA12-O  
 PURGE PRESSURE: 8.4PSI  
 PURGE VOLUME: 5 mL  
 ANALYST: AKARI(G)stutip

METHODS\*: SIMCLm  
 METHOD FILE: SIMCL091120.M  
 CALIB. DATE: 9/11/2020  
 EM VOLTAGE: 1424v  
 BFB RESPONSE: 6052279  
 RUN ID: VO2356

BFB: V25942b  
 ICAL/JC: V25806, VS0804  
 ISTD/SUR: VS0799  
 ICV/QC: VS0805 VS0802  
 data reviewed by: stutip

PH LOT1-12 :230814  
 ph lot 0.0-3.0 : 220416a  
 KI PAPER LOT:030317  
 SAMPLE ID VERIFIED BY:  
 stutip  
 DATE VERIFIED: 09/14/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
O61211	BLANK	-	-	w	1	ACQ_SIMCL		-	?		
O61212	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61213	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61214	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61215	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61216	COND. STD.	-	-	w	2	ACQ_SIMCL		-	-		
O61217	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61218	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61219	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, returned
O61220	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61221	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61222	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61223	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61224	BFB	-	-	w	100	BFB		-	-		autofind 2ul passed
O61225	CC2352-5	-	-	w	2	ACQ_SIMCL		-	-		50ul -> 50ml passed
O61226	BS	-	-	w	3	ACQ_SIMCL		-	-		20ul -> vial passed
O61227	BFB	-	-	w	100	BFB		-	-		pass autofind 2ul
O61228	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61229	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61230	IC2356-1	-	-	w	2	ACQ_SIMCL	pii-3,12,16,21,30	-	-		1ul -> 100ml
O61231	IC2356-2	-	-	w	3	ACQ_SIMCL	pii-12	-	-		5ul -> 100ml
O61232	IC2356-3	-	-	w	4	ACQ_SIMCL	pii-12	-	-		10ul -> 50ml
O61233	IC2356-4	-	-	w	5	ACQ_SIMCL	pii-12	-	-		25ul -> 50ml
O61234	ICe2356-5	-	-	w	6	ACQ_SIMCL	pii-12	-	-		50ul -> 50ml
O61235	IC2356-6	-	-	w	7	ACQ_SIMCL	pii-12	-	-		75ul -> 50ml
O61236	IC2356-7	-	-	w	8	ACQ_SIMCL	pii-12	-	-		100ul -> 50ml
O61237	BLANK	-	-	w	9	ACQ_SIMCL		-	-		
O61238	iev2356-5	-	-	w	10	ACQ_SIMCL	pii-12	-	-		50ul-50ml

\* For NELAC purposes, Method 8280 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
 Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

Date:	9/11/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSV0A12-O
PURGE PRESSURE:	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	stufp

METHODS:*	SIMCLM
METHOD FILE:	SIMCL091120.M
CALIB. DATE:	9/11/2020
EM VOLTAGE:	1424v
BFB RESPONSE	6826166
RUN ID:	VO2357

BFB:	V25942b
ICAL/CC:	V25606, VS0804
ISTD/SUR:	VS0799
ICV/CQ:	VS0805, VS0802

PH LOT1-12.230814
ph lot 0.0-3.0 : 220416a
KI PAPER LOT:030317
PROCESSED BY:Edassas
SAMPLE ID VERIFIED BY:
stufp
DATE VERIFIED: 09/11/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL ?	RR	COMMENTS
061239	BLK	-	-	w	1	ACQ_SIMCL		-	-		
061240	BLK	-	-	w	2	ACQ_SIMCL		-	-		
061241	BLK	-	-	w	3	ACQ_SIMCL		-	-		
061242	BFB	-	-	w	4	bfb		-	-		pass autofind
061243	CC2356-5	-	-	w	5	ACQ_SIMCL	#12(P11)	-	-		50ul-50ml
061244	bs	-	-	w	6	ACQ_SIMCL		-	-		20ul-40ml
061245	mb	-	-	w	7	ACQ_SIMCL	Not synced	-	-		XNot used
061246	mb	-	-	w	8	ACQ_SIMCL		-	-		ND✓
061247	fa78570-1	-	1	w	9	ACQ_SIMCL		-	-		ND✓
061248	fa78570-2	-	1	w	10	ACQ_SIMCL	#3(P11)	1	n		ND✓
061249	fa78570-3	-	1	w	11	ACQ_SIMCL		1	n		✓
061250	fa78570-4	-	1	w	12	ACQ_SIMCL		1	n		✓
061251	fa78570-5	-	1	w	13	ACQ_SIMCL		1	n		✓
061252	fa78571-1	-	1	w	14	ACQ_SIMCL		1	n		✓
061253	fa78571-2	-	1	w	15	ACQ_SIMCL	#21(P11)	1	n		✓
061254	fa78571-3	-	1	w	16	ACQ_SIMCL	#21(P11)	1	n		✓
061255	fa78571-4	-	1	w	17	ACQ_SIMCL	#21(P11)	1	n		✓
061256	fa78571-5	-	1	w	18	ACQ_SIMCL		1	n		✓
061257	fa78571-6	-	1	w	19	ACQ_SIMCL		1	n		ND✓
061258	fa78571-7	-	1	w	20	ACQ_SIMCL		1	n		ND✓
061259	fa78571-8	-	1	w	21	ACQ_SIMCL		1	n		✓
061260	fa78571-9	-	1	w	22	ACQ_SIMCL		1	n		✓
061261	fa78571-10	-	1	w	23	ACQ_SIMCL	#3,21(P11)	1	n		✓
061262	fa78571-11	-	1	w	24	ACQ_SIMCL		1	n		✓
061263	fa78571-12	-	1	w	25	ACQ_SIMCL	#21(P11)	1	n		✓
061264	fa78571-13	-	1	w	26	ACQ_SIMCL	#21(P11)	1	n		✓
061265	fa78571-14	-	1	w	27	ACQ_SIMCL		1	n		✓
061266	fa78571-15	-	1	w	28	ACQ_SIMCL		1	n		✓
061267	fa78570-1.ms_10	-	1	w	29	ACQ_SIMCL	5ml-50ml #12(P11)#13(OP)	1	n		20ul-40ml
061268	fa78570-1.ms_10	-	1	w	30	ACQ_SIMCL	5ml-50ml #12(P11)#13(OP)	1	n		20ul-40ml
061269	ecc2356-5	-	1	w	31	ACQ_SIMCL	#12(P11)	1	n		50ul-50ml

\* For NELAC purposes, Method 8260 Includes analyses by SOP MS005 Matrix. Designate "w" for Water, "s" for soil, "o" for Oil, "l" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
 Manual Integration, Rational SOP QA029, MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PI Poor Instrument

Stuti P.

MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

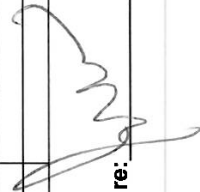
DATE: 09/11/20		METHOD(s): SimCI		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814					
COLUMN TYPE: RTX-VMS		METHOD FILE(s): simcl0911120.m		ICAL/CC: VS0806, VS0804		0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD		CALIB. DATE: 09/11/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0802, VS0805		Processed BY: SO/SPIES					
PURGE PRESSURE: 9.7psi		BFB Response: 15262853		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL		RUN ID: VZ2414				stutip					
ANALYST: STUTIP						DATE VERIFIED: 09/14/20					
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL ?	RR	COMMENTS
Z62205	BFB	-	-	w	1	bfb		-	-	-	Passed Autofind✓
Z62206	MB	-	-	w	2	acq_simcl0214		-	-	-	✓
Z62207	IC2414-1	-	-	w	3	acq_simcl0214		-	-	-	1ul-100ml
Z62208	IC2414-2	-	-	w	4	acq_simcl0214		-	-	-	5ul-100ml
Z62209	IC2414-3	-	-	w	5	acq_simcl0214		-	-	-	10ul-50ml
Z62210	IC2414-4	-	-	w	6	acq_simcl0214		-	-	-	25ul-50ml
Z62211	IC2414-5	-	-	w	7	acq_simcl0214		-	-	-	50ul-50ml
Z62212	IC2414-6	-	-	w	8	acq_simcl0214	op-3	-	-	-	75ul-50ml
Z62213	IC2414-7	-	-	w	9	acq_simcl0214	mp-20,op-3	-	-	-	100ul-50ml
Z62214	MB	-	-	w	10	acq_simcl0214		-	-	-	
Z62215	ICV2414-5	-	-	w	11	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62216	BS	-	-	w	12	acq_simcl0214		-	-	-	20ul-40ml✓
Z62217	MB	-	-	w	13	acq_simcl0214		-	-	-	xNot used
Z62218	MB	-	-	w	14	acq_simcl0214		-	-	-	ND✓
Z62219	FA78573-1	-	2	w	15	acq_simcl0214		1	NO	-	✓
Z62220	FA78573-2	-	2	w	16	acq_simcl0214		1	NO	-	✓
Z62221	FA78573-3	-	2	w	17	acq_simcl0214		1	NO	-	ND✓
Z62222	FA78573-4	-	2	w	18	acq_simcl0214		1	NO	-	ND✓
Z62223	FA78573-5	-	2	w	19	acq_simcl0214		1	NO	-	✓
Z62224	FA78573-6	-	2	w	20	acq_simcl0214		1	NO	-	✓
Z62225	FA78573-7	-	2	w	21	acq_simcl0214		1	NO	-	✓
Z62226	FA78573-8	-	2	w	22	acq_simcl0214		1	NO	-	✓
Z62227	FA78573-9	-	2	w	23	acq_simcl0214		1	NO	-	✓
Z62228	FA78573-10	-	2	w	24	acq_simcl0214		1	NO	-	✓
Z62229	FA78573-11	-	2	w	25	acq_simcl0214		1	NO	-	✓
Z62230	FA78573-12	-	2	w	26	acq_simcl0214		1	NO	-	✓
Z62231	FA78573-13	-	2	w	27	acq_simcl0214		1	NO	-	✓
Z62232	FA78573-14	-	2	w	28	acq_simcl0214		1	NO	-	ND✓
Z62233	FA78573-1MS,10	-	2	w	29	acq_simcl0214	5ml-50ml	1	NO	-	20ul-40ml✓
Z62234	FA78573-1MSD,10	-	2	w	30	acq_simcl0214	5ml-50ml	1	NO	-	20ul-40ml✓
Z62235	ECC2414-5	-	-	w	31	acq_simcl0214		-	-	-	50µL→50mL ✓

Analyst's Signature: 

MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/12/20		METHOD FILE(s): * SimCI		BFB: V25942A		PH LOT: 1 to 12 pH lot #, 200814				
COLUMN TYPE: RTX-VMS		METHOD FILE(s): simcl091120.m		ICAL/CC: VS0806, VS0804		0 to 3 pH lot#: 220416				
DETECTOR: 5975C MSD		CALIB. DATE: 09/11/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117				
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0802, VS0805		Processed BY: Johnm				
PURGE PRESSURE: 9.7psi		BFB Response: 20758140		AFA: VS0418A		SAMPLE ID VERIFIED BY: stutip				
PURGE VOLUME: 5 mL		RUN ID: VZ2415		DATE VERIFIED: 09/14/20		COMMENTS				
ANALYST: STUTIP										
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR
Z62236	BLK	-	-	w	1	acq_simcl0214		-	-	✓
Z62237	BLK	-	-	w	2	acq_simcl0214		-	-	✓
Z62238	BFB	-	-	w	3	bf		-	-	Passed Autofind
Z62239	CC2414-5	-	-	w	4	acq_simcl0214		-	-	50µL→50mL ✓
Z62240	BS	-	-	w	5	acq_simcl0214		-	-	20µL→40mL ✓
Z62241	MB	-	-	w	6	acq_simcl0214		-	-	ND ✓
Z62242	MB	-	-	w	7	acq_simcl0214		-	-	ND ✓
Z62243	fa78573-15	1x	2	w	8	acq_simcl0214		1	n	ND ✓
Z62244	fa78573-16	1x	2	w	9	acq_simcl0214		1	n	✓
Z62245	fa78573-17	1x	2	w	10	acq_simcl0214		1	n	✓
Z62246	fa78573-18	1x	3	w	11	acq_simcl0214		1	n	✓
Z62247	fa78571-16	1x	1	w	12	acq_simcl0214		1	n	✓
Z62248	fa78571-17	1x	1	w	13	acq_simcl0214		1	n	✓
Z62249	fa78571-18	1x	1	w	14	acq_simcl0214		1	n	ND ✓
Z62250	fa78571-19	1x	1	w	15	acq_simcl0214		1	n	✓
Z62251	fa78571-20	1x	1	w	16	acq_simcl0214		1	n	✓
Z62252	fa78571-21	1x	1	w	17	acq_simcl0214		1	n	✓
Z62253	fa78571-22	1x	1	w	18	acq_simcl0214		1	n	✓
Z62254	fa78571-16ms,10	10x	1	w	19	acq_simcl0214	5ml-50ml	1	n	20µL→40mL ✓
Z62255	fa78571-16msd,10	10x	1	w	20	acq_simcl0214	5ml-50ml	1	n	20µL→40mL ✓
Z62256	ecc2414-5	-	-	w	21	acq_simcl0214		-	-	50µL→50mL ✓

Analyst's Signature: 

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

SGS Job Number: FA78573

Sampling Date: 09/02/20



Report to:

Ahtna Global, LLC  
9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
dlieberman@ahtna.net; mfisher@ahtna.net;  
hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: **177**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA78573

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA78573-1	09/02/20	07:55	RMCG09/08/20	AQ	Ground Water	2036X0BW210F
FA78573-2	09/02/20	08:10	RMCG09/08/20	AQ	Ground Water	2036X0BW211F
FA78573-3	09/02/20	08:00	RMCG09/08/20	AQ	Trip Blank Water	2036X0BW212A
FA78573-4	09/02/20	08:18	RMCG09/08/20	AQ	Ground Water	2036X0BW213C
FA78573-5	09/02/20	08:48	RMCG09/08/20	AQ	Ground Water	2036X0BW214F
FA78573-6	09/02/20	08:50	RMCG09/08/20	AQ	Ground Water	2036X0BW215D
FA78573-7	09/02/20	09:05	RMCG09/08/20	AQ	Ground Water	2036X0BW216F
FA78573-8	09/02/20	09:20	RMCG09/08/20	AQ	Ground Water	2036X0BW217F
FA78573-9	09/02/20	09:22	RMCG09/08/20	AQ	Ground Water	2036X0BW218D
FA78573-10	09/02/20	09:40	RMCG09/08/20	AQ	Ground Water	2036X0BW219F
FA78573-11	09/02/20	10:05	RMCG09/08/20	AQ	Ground Water	2036X0BW220F
FA78573-12	09/02/20	10:42	RMCG09/08/20	AQ	Ground Water	2036X00B221F
FA78573-13	09/02/20	10:54	RMCG09/08/20	AQ	Ground Water	2036X0BW222F





### Sample Summary

(continued)

Ahtna Global, LLC

Job No: FA78573

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA78573-14	09/02/20	11:10	RMCG09/08/20	AQ	Ground Water	2036X0BW223F
FA78573-15	09/02/20	13:23	RMCG09/08/20	AQ	Ground Water	2036X0BW225F
FA78573-16	09/02/20	15:17	RMCG09/08/20	AQ	Ground Water	2036X0BW229F
FA78573-17	09/02/20	15:40	RMCG09/08/20	AQ	Ground Water	2036X0BW230F
FA78573-18	09/02/20	16:03	RMCG09/08/20	AQ	Ground Water	2036X0BW231F

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78573

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/18/2020 12:30:49

17 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 09/02/2020 and were received at SGS North America Inc - Orlando on 09/08/2020 properly preserved, at 1.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA78573. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ **Batch ID:** VZ2414

All samples were analyzed within the recommended method holding time.  
Sample(s) FA78573-1MS, FA78573-1MSD were used as the QC samples indicated.  
All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** VZ2415

All samples were analyzed within the recommended method holding time.  
Sample(s) FA78571-16MS, FA78571-16MSD were used as the QC samples indicated.  
All method blanks for this batch meet method specific criteria.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA78573  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
<b>FA78573-1</b>		<b>2036X0BW210F</b>				
Carbon Tetrachloride		0.20 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		9.3	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-2</b>		<b>2036X0BW211F</b>				
Carbon Tetrachloride		0.71	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		7.5	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-3</b>		<b>2036X0BW212A</b>				
No hits reported in this sample.						
<b>FA78573-4</b>		<b>2036X0BW213C</b>				
No hits reported in this sample.						
<b>FA78573-5</b>		<b>2036X0BW214F</b>				
Carbon Tetrachloride		0.33 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		2.3	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene		0.37 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-6</b>		<b>2036X0BW215D</b>				
Carbon Tetrachloride		0.42 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		1.8	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene		0.44 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-7</b>		<b>2036X0BW216F</b>				
Carbon Tetrachloride		1.0	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.29 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-8</b>		<b>2036X0BW217F</b>				
Carbon Tetrachloride		0.64	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.17 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-9</b>		<b>2036X0BW218D</b>				
Carbon Tetrachloride		0.64	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.16 J	0.50	0.25	ug/l	SW846 8260B BY SIM

## Summary of Hits

**Job Number:** FA78573  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
<b>FA78573-10</b>	<b>2036X0BW219F</b>					
Carbon Tetrachloride		0.22 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene		0.65	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-11</b>	<b>2036X0BW220F</b>					
Chloroform		0.20 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene		0.23 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-12</b>	<b>2036X00B221F</b>					
Carbon Tetrachloride		0.49 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.20 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-13</b>	<b>2036X0BW222F</b>					
Carbon Tetrachloride		0.17 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.13 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-14</b>	<b>2036X0BW223F</b>					
No hits reported in this sample.						
<b>FA78573-15</b>	<b>2036X0BW225F</b>					
No hits reported in this sample.						
<b>FA78573-16</b>	<b>2036X0BW229F</b>					
Trichloroethylene		0.20 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-17</b>	<b>2036X0BW230F</b>					
Trichloroethylene		0.23 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA78573-18</b>	<b>2036X0BW231F</b>					
Carbon Tetrachloride		0.63	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform		0.33 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene		0.44 J	0.50	0.25	ug/l	SW846 8260B BY SIM

Sample Results

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Report of Analysis

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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW210F	
<b>Lab Sample ID:</b> FA78573-1	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62219.D	1	09/11/20 22:08	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.20	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	9.3	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

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<b>Client Sample ID:</b>	2036X0BW211F	<b>Date Sampled:</b>	09/02/20
<b>Lab Sample ID:</b>	FA78573-2	<b>Date Received:</b>	09/08/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62220.D	1	09/11/20 22:27	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.71	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	7.5	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW212A	
<b>Lab Sample ID:</b> FA78573-3	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Trip Blank Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62221.D	1	09/11/20 22:47	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW213C	
<b>Lab Sample ID:</b> FA78573-4	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62222.D	1	09/11/20 23:06	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

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<b>Client Sample ID:</b>	2036X0BW214F	<b>Date Sampled:</b>	09/02/20
<b>Lab Sample ID:</b>	FA78573-5	<b>Date Received:</b>	09/08/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62223.D	1	09/11/20 23:26	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.33	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	2.3	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.37	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW215D	
<b>Lab Sample ID:</b> FA78573-6	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62224.D	1	09/11/20 23:45	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.42	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	1.8	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.44	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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<b>Client Sample ID:</b>	2036X0BW216F	<b>Date Sampled:</b>	09/02/20
<b>Lab Sample ID:</b>	FA78573-7	<b>Date Received:</b>	09/08/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62225.D	1	09/12/20 00:04	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	1.0	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.29	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW217F	<b>Date Sampled:</b>	09/02/20
<b>Lab Sample ID:</b>	FA78573-8	<b>Date Received:</b>	09/08/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62226.D	1	09/12/20 00:23	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.64	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.17	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW218D	<b>Date Sampled:</b> 09/02/20
<b>Lab Sample ID:</b> FA78573-9	<b>Date Received:</b> 09/08/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62227.D	1	09/12/20 00:42	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.64	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.16	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW219F	
<b>Lab Sample ID:</b> FA78573-10	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62228.D	1	09/12/20 01:02	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.22	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.65	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW220F	
<b>Lab Sample ID:</b> FA78573-11	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62229.D	1	09/12/20 01:21	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.20	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.23	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



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<b>Client Sample ID:</b> 2036X00B221F	
<b>Lab Sample ID:</b> FA78573-12	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62230.D	1	09/12/20 01:40	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.49	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.20	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW222F	
<b>Lab Sample ID:</b> FA78573-13	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62231.D	1	09/12/20 02:00	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.17	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.13	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW223F	
<b>Lab Sample ID:</b> FA78573-14	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62232.D	1	09/12/20 02:19	SO	n/a	n/a	VZ2414
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW225F	<b>Date Sampled:</b>	09/02/20
<b>Lab Sample ID:</b>	FA78573-15	<b>Date Received:</b>	09/08/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62243.D	1	09/12/20 12:30	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW229F	
<b>Lab Sample ID:</b> FA78573-16	<b>Date Sampled:</b> 09/02/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/08/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62244.D	1	09/12/20 12:49	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.20	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW230F	<b>Date Sampled:</b>	09/02/20
<b>Lab Sample ID:</b>	FA78573-17	<b>Date Received:</b>	09/08/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62245.D	1	09/12/20 13:08	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.23	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW231F	<b>Date Sampled:</b>	09/02/20
<b>Lab Sample ID:</b>	FA78573-18	<b>Date Received:</b>	09/08/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62246.D	1	09/12/20 13:27	SP	n/a	n/a	VZ2415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.63	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.33	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.44	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits



CA052033  
Ahtna

CHAIN OF CUSTODY

FA78573  
WATER / SOIL

Chain of Custody #: 0134  
Carbon Copies: White - Laboratory Yellow - Ahtna

10F2

**Project Information:**  
 Project Location: Former Fort Ord, CA      Sampler/s: R. MIKOVICH, C. GARZA  
 Project Name: FFO GWM      Report To: Derek Lieberman  
 Project Number: 21065.000.01.0000      E-Mail: dlieberman@ahtna.net  
 Sampling Event/Site: 3Q 2020      Laboratory: SGS

**Analysis Requested:**  
 VOCs 8260 - SIM  
 Metals 6010 C  
 Chloride 9056A

**Lab Sample Receipt:**  
 Laboratory Sample Delivery  
 Group #: \_\_\_\_\_  
 Custody Seal: \_\_\_\_\_  
 Temp (°C): \_\_\_\_\_

Lab Number	Sample Number/Description	Sample Collection		Matrix			Number of Preserved Bottles										VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Notes	
		Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other						
1	2036X0Bw210F	9-2-20	0755	X			3	3										X			
2	2036X0Bw211F	9-2-20	0810	X			3	3										X			
3	2036X0Bw212A	9-2-20	0800	X			2	2										X			
4	2036X0Bw213C	9-2-20	0818	X			3	3										X			
5	2036X0Bw214F	9-2-20	0848	X			3	3										X			
6	2036X0Bw215D	9-2-20	0850	X			2	2										X			
7	2036X0Bw216F	9-2-20	0905	X			3	3										X			
8	2036X0Bw217F	9-2-20	0920	X			3	3										X			
9	2036X0Bw218D	9-2-20	0922	X			2	2										X			
10	2036X0Bw219F	9-2-20	0948	X			3	3										X			
11	2036X0Bw220F	9-2-20	1005	X			3	3										X			
12	2036X0Bw221F	9-2-20	1042	X			3	3										X			
13	2036X0Bw222F	9-2-20	1054	X			3	3										X			
14	2036X0Bw223F	9-2-20	1118	X			3	3										X			
15	2036X0Bw225F	9-2-20	1323	X			3	3										X			

Turnaround Time: X Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush      Shipment: Method: Tracking ID:

Comments:

OUCTP-A

Chain of Custody Tracking:

Relinquished By Sampler: <i>R. Mikovich</i>	Date/Time: 9-2-20 1645	Received By: <i>[Signature]</i>	Date/Time: 9/2/20 1645
Relinquished By: <i>[Signature]</i>	Date/Time: 9/3/20 1035	Received By: <i>Lee Bowen</i>	Date/Time: 9/3/20 1040
Relinquished By: <i>Lee Bowen</i>	Date/Time: 9/8/20 1500	Received By Laboratory: <i>Fedex</i>	Date/Time: 9/8/20 1500

1.8

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CAOS2033  
Ahtna

FA78573  
WATER / SOIL

Chain of Custody #: 2012  
0136  
Carbon Copies: White - Laboratory Yellow - Ahtna

CHAIN OF CUSTODY

Project Information:										Analysis Requested			Lab Sample Receipt				
Project Location: <u>Former Fort Ord, CA</u>			Sampler/s: <u>R. MIKOVILTA, C. GARCIA</u>							VOCs 8260 - SIM Metals 6010 C Chloride 9056A			Laboratory Sample Delivery				
Project Name: <u>FFU Basehole Caom</u>			Report To: <u>Derek Lieberman</u>										Group #:				
Project Number: <u>21065.000.01.0000</u>			E-Mail: <u>dlieberman@ahna.net</u>										Custody Seal:				
Sampling Event/Site: <u>3Q2020</u>			Laboratory: <u>SGS</u>										Temp (°C):				
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles										Notes	
	Sample Number/Description	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other		
16	2036X00W229F	9-2-20	1517	X			3	3								X	
17	2036X00W230F	9-2-20	1540	X			3	3								X	
18	2036X00W231F	9-2-20	1603	X			3	3								X	

Turnaround Time: R Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush  
 Shipment: Method: Tracking ID:

Comments:

OULTP-A

Chain of Custody Tracking:

Relinquished By Sampler: <u>R. Mikovilta</u> <u>BTS</u>	Date/Time: <u>9-2-20 1645</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/2/20 16:45</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/3/20 1035</u>	Received By: <u>Lee Bar...</u>	Date/Time: <u>9/3/20 1040</u>
Relinquished By: <u>Lee Bar...</u>	Date/Time: <u>9/18/20 1500</u>	Received By Laboratory: <u>FEDEx</u>	Date/Time: <u>9/18/20 1500</u>



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## SGS Sample Receipt Summary

Job Number: FA78573

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP A

Date / Time Received: 9/8/2020 10:15:00 AM

Delivery Method: FedEx

Airbill #s: 771472263859

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (1.8);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Sample Information**

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 230315  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 219813A

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: ADAMK

Date: 9/8/2020 10:15:00 AM

Reviewer: PH

Date: 9/10/2020

**FA78573: Chain of Custody**

**Page 3 of 3**

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78573  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VZ2414	SW846 8260B BY SIM						
VZ2414-BS	56-23-5	Carbon Tetrachloride	BSP	REC	116	%	72-136
VZ2414-BS	67-66-3	Chloroform	BSP	REC	110	%	79-124
VZ2414-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	116	%	71-131
VZ2414-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	114	%	79-121
VZ2414-BS	75-09-2	Methylene Chloride	BSP	REC	94	%	74-124
VZ2414-BS	127-18-4	Tetrachloroethylene	BSP	REC	112	%	74-129
VZ2414-BS	79-01-6	Trichloroethylene	BSP	REC	118	%	79-123
VZ2414-BS	75-01-4	Vinyl Chloride	BSP	REC	102	%	58-137
VZ2414-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	101	%	81-118
VZ2414-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	89-112
FA78573-1MS	56-23-5	Carbon Tetrachloride	MS	REC	106	%	72-136
FA78573-1MS	67-66-3	Chloroform	MS	REC	102	%	79-124
FA78573-1MS	75-35-4	1,1-Dichloroethylene	MS	REC	111	%	71-131
FA78573-1MS	540-59-0	1,2-Dichloroethene (total)	MS	REC	108	%	79-121
FA78573-1MS	75-09-2	Methylene Chloride	MS	REC	94	%	74-124
FA78573-1MS	127-18-4	Tetrachloroethylene	MS	REC	103	%	74-129
FA78573-1MS	79-01-6	Trichloroethylene	MS	REC	111	%	79-123
FA78573-1MS	75-01-4	Vinyl Chloride	MS	REC	100	%	58-137
FA78573-1MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	103	%	81-118
FA78573-1MS	2037-26-5	Toluene-D8	MS	SURR	101	%	89-112
FA78573-1MSD	56-23-5	Carbon Tetrachloride	MSD	REC	105	%	72-136
FA78573-1MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	1	%	20
FA78573-1MSD	67-66-3	Chloroform	MSD	REC	101	%	79-124
FA78573-1MSD	67-66-3	Chloroform	MSD	RPD	1	%	20
FA78573-1MSD	75-35-4	1,1-Dichloroethylene	MSD	REC	110	%	71-131
FA78573-1MSD	75-35-4	1,1-Dichloroethylene	MSD	RPD	1	%	20
FA78573-1MSD	540-59-0	1,2-Dichloroethene (total)	MSD	REC	107	%	79-121
FA78573-1MSD	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	1	%	20
FA78573-1MSD	75-09-2	Methylene Chloride	MSD	REC	95	%	74-124
FA78573-1MSD	75-09-2	Methylene Chloride	MSD	RPD	1	%	20
FA78573-1MSD	127-18-4	Tetrachloroethylene	MSD	REC	103	%	74-129
FA78573-1MSD	127-18-4	Tetrachloroethylene	MSD	RPD	1	%	20
FA78573-1MSD	79-01-6	Trichloroethylene	MSD	REC	111	%	79-123
FA78573-1MSD	79-01-6	Trichloroethylene	MSD	RPD	1	%	20
FA78573-1MSD	75-01-4	Vinyl Chloride	MSD	REC	109	%	58-137
FA78573-1MSD	75-01-4	Vinyl Chloride	MSD	RPD	9	%	20
FA78573-1MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	103	%	81-118
FA78573-1MSD	2037-26-5	Toluene-D8	MSD	SURR	101	%	89-112
VZ2414-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	102	%	81-118
VZ2414-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	89-112
FA78573-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FA78573-1	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112

\* Sample used for QC is not from job FA78573

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78573  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78573-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FA78573-2	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FA78573-3	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FA78573-4	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-5	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-6	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-7	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-8	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-9	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-10	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-11	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-12	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-12	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-13	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-13	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-14	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA78573-14	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112

**VZ2415 SW846 8260B BY SIM**

VZ2415-BS	56-23-5	Carbon Tetrachloride	BSP	REC	118	%	72-136
VZ2415-BS	67-66-3	Chloroform	BSP	REC	110	%	79-124
VZ2415-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	116	%	71-131
VZ2415-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	115	%	79-121
VZ2415-BS	75-09-2	Methylene Chloride	BSP	REC	98	%	74-124
VZ2415-BS	127-18-4	Tetrachloroethylene	BSP	REC	110	%	74-129
VZ2415-BS	79-01-6	Trichloroethylene	BSP	REC	114	%	79-123
VZ2415-BS	75-01-4	Vinyl Chloride	BSP	REC	106	%	58-137
VZ2415-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
VZ2415-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	89-112
FA78571-16MS*	56-23-5	Carbon Tetrachloride	MS	REC	100	%	72-136
FA78571-16MS*	67-66-3	Chloroform	MS	REC	106	%	79-124
FA78571-16MS*	75-35-4	1,1-Dichloroethylene	MS	REC	111	%	71-131
FA78571-16MS*	540-59-0	1,2-Dichloroethene (total)	MS	REC	107	%	79-121
FA78571-16MS*	75-09-2	Methylene Chloride	MS	REC	96	%	74-124
FA78571-16MS*	127-18-4	Tetrachloroethylene	MS	REC	104	%	74-129

\* Sample used for QC is not from job FA78573

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78573  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/02/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78571-16MS*	79-01-6	Trichloroethylene	MS	REC	111	%	79-123
FA78571-16MS*	75-01-4	Vinyl Chloride	MS	REC	103	%	58-137
FA78571-16MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	106	%	81-118
FA78571-16MS*	2037-26-5	Toluene-D8	MS	SURR	100	%	89-112
FA78571-16MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	103	%	72-136
FA78571-16MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	2	%	20
FA78571-16MSD*	67-66-3	Chloroform	MSD	REC	109	%	79-124
FA78571-16MSD*	67-66-3	Chloroform	MSD	RPD	3	%	20
FA78571-16MSD*	75-35-4	1,1-Dichloroethylene	MSD	REC	115	%	71-131
FA78571-16MSD*	75-35-4	1,1-Dichloroethylene	MSD	RPD	3	%	20
FA78571-16MSD*	540-59-0	1,2-Dichloroethene (total)	MSD	REC	111	%	79-121
FA78571-16MSD*	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	4	%	20
FA78571-16MSD*	75-09-2	Methylene Chloride	MSD	REC	100	%	74-124
FA78571-16MSD*	75-09-2	Methylene Chloride	MSD	RPD	4	%	20
FA78571-16MSD*	127-18-4	Tetrachloroethylene	MSD	REC	107	%	74-129
FA78571-16MSD*	127-18-4	Tetrachloroethylene	MSD	RPD	2	%	20
FA78571-16MSD*	79-01-6	Trichloroethylene	MSD	REC	115	%	79-123
FA78571-16MSD*	79-01-6	Trichloroethylene	MSD	RPD	3	%	20
FA78571-16MSD*	75-01-4	Vinyl Chloride	MSD	REC	117	%	58-137
FA78571-16MSD*	75-01-4	Vinyl Chloride	MSD	RPD	13	%	20
FA78571-16MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	105	%	81-118
FA78571-16MSD*	2037-26-5	Toluene-D8	MSD	SURR	100	%	89-112
VZ2415-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	102	%	81-118
VZ2415-MB	2037-26-5	Toluene-D8	MB	SURR	102	%	89-112
FA78573-15	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FA78573-15	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-16	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FA78573-16	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78573-17	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FA78573-17	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78573-18	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA78573-18	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112

\* Sample used for QC is not from job FA78573

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## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2414-MB	Z62218.D	1	09/11/20	SO	n/a	n/a	VZ2414

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78573-1, FA78573-2, FA78573-3, FA78573-4, FA78573-5, FA78573-6, FA78573-7, FA78573-8, FA78573-9, FA78573-10, FA78573-11, FA78573-12, FA78573-13, FA78573-14

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	102%	74-125%
2037-26-5	Toluene-D8	103%	88-111%



**Method Blank Summary**

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2415-MB	Z62242.D	1	09/12/20	SP	n/a	n/a	VZ2415

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78573-15, FA78573-16, FA78573-17, FA78573-18

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	102%	74-125%
2037-26-5	Toluene-D8	102%	88-111%

**Blank Spike Summary**

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2414-BS	Z62216.D	1	09/11/20	SO	n/a	n/a	VZ2414

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78573-1, FA78573-2, FA78573-3, FA78573-4, FA78573-5, FA78573-6, FA78573-7, FA78573-8, FA78573-9, FA78573-10, FA78573-11, FA78573-12, FA78573-13, FA78573-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.8	116	76-136
67-66-3	Chloroform	5	5.5	110	80-124
75-35-4	1,1-Dichloroethylene	5	5.8	116	78-137
540-59-0	1,2-Dichloroethene (total)	10	11.4	114	76-127
75-09-2	Methylene Chloride	5	4.7	94	69-135
127-18-4	Tetrachloroethylene	5	5.6	112	76-135
79-01-6	Trichloroethylene	5	5.9	118	81-126
75-01-4	Vinyl Chloride	5	5.1	102	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	74-125%
2037-26-5	Toluene-D8	102%	88-111%

\* = Outside of Control Limits.

**Blank Spike Summary**

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2415-BS	Z62240.D	1	09/12/20	SP	n/a	n/a	VZ2415

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78573-15, FA78573-16, FA78573-17, FA78573-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.9	118	76-136
67-66-3	Chloroform	5	5.5	110	80-124
75-35-4	1,1-Dichloroethylene	5	5.8	116	78-137
540-59-0	1,2-Dichloroethene (total)	10	11.5	115	76-127
75-09-2	Methylene Chloride	5	4.9	98	69-135
127-18-4	Tetrachloroethylene	5	5.5	110	76-135
79-01-6	Trichloroethylene	5	5.7	114	81-126
75-01-4	Vinyl Chloride	5	5.3	106	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	74-125%
2037-26-5	Toluene-D8	102%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78573-1MS	Z62233.D	10	09/12/20	SO	n/a	n/a	VZ2414
FA78573-1MSD	Z62234.D	10	09/12/20	SO	n/a	n/a	VZ2414
FA78573-1	Z62219.D	1	09/11/20	SO	n/a	n/a	VZ2414

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78573-1, FA78573-2, FA78573-3, FA78573-4, FA78573-5, FA78573-6, FA78573-7, FA78573-8, FA78573-9, FA78573-10, FA78573-11, FA78573-12, FA78573-13, FA78573-14

CAS No.	Compound	FA78573-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.20	J	50	53.1	106	50	52.8	105	1	76-136/23
67-66-3	Chloroform	9.3		50	60.4	102	50	59.9	101	1	80-124/15
75-35-4	1,1-Dichloroethylene	0.50 U		50	55.4	111	50	55.1	110	1	78-137/18
540-59-0	1,2-Dichloroethene (total)	0.50 U		100	108	108	100	107	107	1	76-127/17
75-09-2	Methylene Chloride	2.0 U		50	47.0	94	50	47.4	95	1	69-135/16
127-18-4	Tetrachloroethylene	0.50 U		50	51.3	103	50	51.6	103	1	76-135/16
79-01-6	Trichloroethylene	0.50 U		50	55.7	111	50	55.3	111	1	81-126/15
75-01-4	Vinyl Chloride	0.10 U		50	49.8	100	50	54.7	109	9	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA78573-1	Limits
17060-07-0	1,2-Dichloroethane-D4	103%	103%	101%	74-125%
2037-26-5	Toluene-D8	101%	101%	102%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78571-16MS	Z62254.D	10	09/12/20	SP	n/a	n/a	VZ2415
FA78571-16MSD	Z62255.D	10	09/12/20	SP	n/a	n/a	VZ2415
FA78571-16	Z62247.D	1	09/12/20	SP	n/a	n/a	VZ2415

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78573-15, FA78573-16, FA78573-17, FA78573-18

CAS No.	Compound	FA78571-16 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
56-23-5	Carbon Tetrachloride	1.4		50	51.6	100	50	52.8	103	2	76-136/23
67-66-3	Chloroform	0.24	J	50	53.0	106	50	54.7	109	3	80-124/15
75-35-4	1,1-Dichloroethylene	0.50 U		50	55.6	111	50	57.4	115	3	78-137/18
540-59-0	1,2-Dichloroethene (total)	0.50 U		100	107	107	100	111	111	4	76-127/17
75-09-2	Methylene Chloride	2.0 U		50	48.0	96	50	50.1	100	4	69-135/16
127-18-4	Tetrachloroethylene	0.50 U		50	52.1	104	50	53.4	107	2	76-135/16
79-01-6	Trichloroethylene	0.50 U		50	55.6	111	50	57.4	115	3	81-126/15
75-01-4	Vinyl Chloride	0.10 U		50	51.4	103	50	58.6	117	13	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA78571-16	Limits
17060-07-0	1,2-Dichloroethane-D4	106%	105%	104%	74-125%
2037-26-5	Toluene-D8	100%	100%	101%	88-111%

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2414-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> Z62205.D	<b>Injection Time:</b> 17:20
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	24546	21.4	Pass
75	30.0 - 60.0% of mass 95	61341	53.4	Pass
95	Base peak, 100% relative abundance	114880	100.0	Pass
96	5.0 - 9.0% of mass 95	7912	6.89	Pass
173	Less than 2.0% of mass 174	429	0.37 (0.48) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	89573	78.0	Pass
175	5.0 - 9.0% of mass 174	6903	6.01 (7.71) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	89128	77.6 (99.5) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	5541	4.82 (6.22) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2414-IC2414	Z62207.D	09/11/20	18:15	00:55	Initial cal 1
VZ2414-IC2414	Z62208.D	09/11/20	18:34	01:14	Initial cal 2
VZ2414-IC2414	Z62209.D	09/11/20	18:53	01:33	Initial cal 3
VZ2414-IC2414	Z62210.D	09/11/20	19:13	01:53	Initial cal 4
VZ2414-ICC2414	Z62211.D	09/11/20	19:32	02:12	Initial cal 5
VZ2414-IC2414	Z62212.D	09/11/20	19:51	02:31	Initial cal 6
VZ2414-IC2414	Z62213.D	09/11/20	20:13	02:53	Initial cal 7
VZ2414-ICV2414	Z62215.D	09/11/20	20:51	03:31	Initial cal verification 5
VZ2414-BS	Z62216.D	09/11/20	21:10	03:50	Blank Spike
VZ2414-MB	Z62218.D	09/11/20	21:49	04:29	Method Blank
FA78573-1	Z62219.D	09/11/20	22:08	04:48	2036X0BW210F
FA78573-2	Z62220.D	09/11/20	22:27	05:07	2036X0BW211F
FA78573-3	Z62221.D	09/11/20	22:47	05:27	2036X0BW212A
FA78573-4	Z62222.D	09/11/20	23:06	05:46	2036X0BW213C
FA78573-5	Z62223.D	09/11/20	23:26	06:06	2036X0BW214F
FA78573-6	Z62224.D	09/11/20	23:45	06:25	2036X0BW215D
FA78573-7	Z62225.D	09/12/20	00:04	06:44	2036X0BW216F
FA78573-8	Z62226.D	09/12/20	00:23	07:03	2036X0BW217F
FA78573-9	Z62227.D	09/12/20	00:42	07:22	2036X0BW218D
FA78573-10	Z62228.D	09/12/20	01:02	07:42	2036X0BW219F
FA78573-11	Z62229.D	09/12/20	01:21	08:01	2036X0BW220F
FA78573-12	Z62230.D	09/12/20	01:40	08:20	2036X0B221F
FA78573-13	Z62231.D	09/12/20	02:00	08:40	2036X0BW222F
FA78573-14	Z62232.D	09/12/20	02:19	08:59	2036X0BW223F

# Instrument Performance Check (BFB)

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2414-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> Z62205.D	<b>Injection Time:</b> 17:20
<b>Instrument ID:</b> GCMSZ	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78573-1MS	Z62233.D	09/12/20	02:38	09:18	Matrix Spike
FA78573-1MSD	Z62234.D	09/12/20	02:57	09:37	Matrix Spike Duplicate
VZ2414-ECC2414	Z62235.D	09/12/20	03:16	09:56	Ending cal 5

6.4.1

6

**Instrument Performance Check (BFB)**

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2415-BFB	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> Z62238.D	<b>Injection Time:</b> 10:44
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	31960	23.2	Pass
75	30.0 - 60.0% of mass 95	78448	57.0	Pass
95	Base peak, 100% relative abundance	137600	100.0	Pass
96	5.0 - 9.0% of mass 95	9223	6.70	Pass
173	Less than 2.0% of mass 174	456	0.33 (0.39) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	116125	84.4	Pass
175	5.0 - 9.0% of mass 174	7682	5.58 (6.62) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	112669	81.9 (97.0) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	7473	5.43 (6.63) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2415-CC2414	Z62239.D	09/12/20	11:07	00:23	Continuing cal 5
VZ2415-BS	Z62240.D	09/12/20	11:32	00:48	Blank Spike
VZ2415-MB	Z62242.D	09/12/20	12:11	01:27	Method Blank
FA78573-15	Z62243.D	09/12/20	12:30	01:46	2036X0BW225F
FA78573-16	Z62244.D	09/12/20	12:49	02:05	2036X0BW229F
FA78573-17	Z62245.D	09/12/20	13:08	02:24	2036X0BW230F
FA78573-18	Z62246.D	09/12/20	13:27	02:43	2036X0BW231F
FA78571-16	Z62247.D	09/12/20	13:47	03:03	(used for QC only; not part of job FA78573)
ZZZZZZ	Z62248.D	09/12/20	14:06	03:22	(unrelated sample)
ZZZZZZ	Z62249.D	09/12/20	14:25	03:41	(unrelated sample)
ZZZZZZ	Z62250.D	09/12/20	14:44	04:00	(unrelated sample)
ZZZZZZ	Z62251.D	09/12/20	15:04	04:20	(unrelated sample)
ZZZZZZ	Z62252.D	09/12/20	15:23	04:39	(unrelated sample)
ZZZZZZ	Z62253.D	09/12/20	15:44	05:00	(unrelated sample)
FA78571-16MS	Z62254.D	09/12/20	16:03	05:19	Matrix Spike
FA78571-16MSD	Z62255.D	09/12/20	16:22	05:38	Matrix Spike Duplicate
VZ2415-ECC2414	Z62256.D	09/12/20	16:41	05:57	Ending cal 5



# Internal Standard Area Summary

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2414-ICC2414	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> Z62211.D	<b>Injection Time:</b> 19:32
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	1875869	7.40	1507669	10.51
Check Std <sup>b</sup>	1875869	7.40	1507669	10.51
Upper Limit <sup>c</sup>	3751738	7.57	3015338	10.68
Lower Limit <sup>d</sup>	937935	7.23	753835	10.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ2414-BS	1843566	7.40	1464201	10.51
VZ2414-MB	1860414	7.40	1469042	10.51
FA78573-1	1789980	7.40	1415763	10.51
FA78573-2	1788862	7.40	1424727	10.51
FA78573-3	1830615	7.40	1449150	10.51
FA78573-4	1822446	7.40	1449766	10.51
FA78573-5	1847896	7.40	1463298	10.51
FA78573-6	1785795	7.40	1416471	10.51
FA78573-7	1846316	7.40	1466366	10.51
FA78573-8	1842510	7.40	1467719	10.51
FA78573-9	1843152	7.40	1460473	10.51
FA78573-10	1814592	7.40	1448562	10.51
FA78573-11	1760716	7.40	1392581	10.51
FA78573-12	1869681	7.40	1478666	10.51
FA78573-13	1890573	7.40	1499030	10.51
FA78573-14	1848069	7.40	1462295	10.51
FA78573-1MS	1861103	7.40	1496217	10.51
FA78573-1MSD	1813875	7.40	1450340	10.51
VZ2414-ECC2414	1929563	7.40	1554143	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2414-ICC2414 Z62211.D 09/11/20 19:32
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Internal Standard Area Summary

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2415-CC2414	<b>Injection Date:</b> 09/12/20
<b>Lab File ID:</b> Z62239.D	<b>Injection Time:</b> 11:07
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
	<b>AREA</b>		<b>AREA</b>	
Initial Cal <sup>a</sup>	1875869	7.40	1507669	10.51
Check Std <sup>b</sup>	2158555	7.40	1730511	10.51
Upper Limit <sup>c</sup>	4317110	7.57	3461022	10.68
Lower Limit <sup>d</sup>	1079278	7.23	865256	10.34

<b>Lab</b>	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
<b>Sample ID</b>	<b>AREA</b>		<b>AREA</b>	
VZ2415-BS	2094740	7.40	1674222	10.51
VZ2415-MB	2135397	7.40	1690689	10.51
FA78573-15	2059475	7.40	1634767	10.51
FA78573-16	1985616	7.40	1581206	10.51
FA78573-17	1911999	7.40	1511547	10.51
FA78573-18	1985392	7.40	1575798	10.51
FA78571-16	1929512	7.40	1517908	10.51
ZZZZZZ	1948772	7.40	1545447	10.51
ZZZZZZ	1889628	7.40	1501530	10.51
ZZZZZZ	1752541	7.40	1388998	10.51
ZZZZZZ	1869808	7.40	1482729	10.51
ZZZZZZ	1832083	7.40	1453974	10.51
ZZZZZZ	1868484	7.40	1476265	10.51
FA78571-16MS	1916862	7.40	1548625	10.51
FA78571-16MSD	1780202	7.40	1433451	10.51
VZ2415-ECC2414	1867030	7.40	1507510	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2414-ICC2414 Z62211.D 09/11/20 19:32
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Surrogate Recovery Summary

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Method:** SW846 8260B BY SIM **Matrix:** AQ

**Samples and QC shown here apply to the above method**

Lab Sample ID	Lab File ID	S1	S2
FA78573-1	Z62219.D	101	102
FA78573-2	Z62220.D	101	102
FA78573-3	Z62221.D	101	102
FA78573-4	Z62222.D	102	102
FA78573-5	Z62223.D	103	102
FA78573-6	Z62224.D	103	102
FA78573-7	Z62225.D	103	102
FA78573-8	Z62226.D	103	102
FA78573-9	Z62227.D	103	102
FA78573-10	Z62228.D	103	102
FA78573-11	Z62229.D	103	102
FA78573-12	Z62230.D	103	102
FA78573-13	Z62231.D	103	102
FA78573-14	Z62232.D	104	102
FA78573-15	Z62243.D	101	102
FA78573-16	Z62244.D	101	101
FA78573-17	Z62245.D	102	102
FA78573-18	Z62246.D	103	102
FA78571-16MS	Z62254.D	106	100
FA78571-16MSD	Z62255.D	105	100
FA78573-1MS	Z62233.D	103	101
FA78573-1MSD	Z62234.D	103	101
VZ2414-BS	Z62216.D	101	102
VZ2414-MB	Z62218.D	102	103
VZ2415-BS	Z62240.D	100	102
VZ2415-MB	Z62242.D	102	102

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

# Initial Calibration Summary

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICC2414  
**Lab FileID:** Z62211.D

Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Calibration Files

1 =Z62207.D 2 =Z62208.D 3 =Z62209.D 4 =Z62210.D  
 5 =Z62211.D 6 =Z62212.D 7 =Z62213.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
----------	---	---	---	---	---	---	---	-----	------

1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.745	0.530	0.472	0.398	0.398	0.410	0.429	0.483	25.87
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983								
	Response Ratio = 0.00000 + 0.41463 *A + 0.00115 *A^2								
3) Chloromethane	0.663	0.498	0.481	0.368	0.359	0.379	0.420	0.453	23.78
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980								
	Response Ratio = 0.00000 + 0.31946 *A + 0.02378 *A^2								
4) 1,1-Dichloroethen	0.306	0.298	0.281	0.309	0.292	0.302	0.306	0.299	3.29
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.30297 *A								
5) Methylene Chlorid	2.740	0.838	0.457	0.451	0.392	0.409	0.402	0.813	106.36
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9908								
	Response Ratio = 0.00000 + 0.49775 *A + -0.02806 *A^2								
6)T trans-1,2-Dichlor	0.358	0.379	0.341	0.385	0.360	0.379	0.382	0.369	4.44
7) 1,1-Dichloroethan	0.575	0.661	0.582	0.662	0.612	0.647	0.644	0.626	5.82
8) cis-1,2-Dichloroe	0.419	0.429	0.375	0.427	0.391	0.416	0.414	0.410	4.85
9) Chloroform	0.777	0.786	0.680	0.784	0.718	0.760	0.756	0.752	5.23
10) Carbon Tetrachlor	0.498	0.489	0.462	0.529	0.514	0.540	0.540	0.510	5.69
11) 1,1,1-Trichloroet	0.636	0.660	0.612	0.687	0.654	0.683	0.676	0.658	4.12
12) Benzene	1.341	1.460	1.286	1.457	1.351	1.425	1.421	1.392	4.75
13)S 1,2-Dichloroethan	0.304	0.310	0.307	0.309	0.314	0.310	0.310	0.309	0.92
14) 1,2-Dichloroethan	0.501	0.562	0.476	0.554	0.506	0.539	0.534	0.525	5.98
15) Trichloroethene	0.414	0.428	0.389	0.442	0.415	0.440	0.460	0.427	5.41
16) 1,2-Dichloropropa	0.344	0.377	0.320	0.372	0.342	0.363	0.361	0.354	5.62
17) cis-1,3-Dichlorop	0.353	0.328	0.296	0.411	0.409	0.472	0.460	0.390	17.03
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9970								
	Response Ratio = 0.00000 + 0.35911 *A + 0.02868 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.254	1.248	1.248	1.237	1.232	1.224	1.055	1.214	5.83
20)T trans-1,3-Dichlor	0.334	0.340	0.304	0.429	0.428	0.497	0.416	0.393	17.45
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9900								
	Response Ratio = 0.00000 + 0.41206 *A + 0.00891 *A^2								
21) Tetrachloroethene	0.505	0.538	0.491	0.550	0.516	0.540	0.467	0.515	5.78
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9961								
	Response Ratio = 0.00000 + 0.59840 *A + -0.03017 *A^2								

(#) = Out of Range

6.7.1  
6

# Initial Calibration Summary

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICC2414  
**Lab FileID:** Z62211.D

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SIMCL091120.M

Sun Sep 13 14:24:15 2020

# Initial Calibration Verification

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICV2414  
**Lab FileID:** Z62215.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\091120\Z62215.D Vial: 10  
 Acq On : 11 Sep 2020 8:51 pm Operator: SHANICAO  
 Sample : ICV2414-5 Inst : MSVOA15  
 Misc : MS47171,VZ2414,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I Fluorobenzene	1.000	1.000	0.0	102	0.00	7.40
----- Amount Calc. %Drift -----						
2 Vinyl Chloride	10.000	10.131	-1.3	108	0.00	2.84
3 Chloromethane	10.000	9.964	0.4	104	0.00	2.73
4 1,1-Dichloroethene	10.000	10.988	-9.9	116	0.00	4.08
5 Methylene Chloride	10.000	9.188	8.1	107	0.00	4.71
----- AvgRF CCRF %Dev -----						
6 T trans-1,2-Dichloroethene	0.369	0.379	-2.7	108	0.00	4.89
7 1,1-Dichloroethane	0.626	0.649	-3.7	108	0.00	5.55
8 cis-1,2-Dichloroethene	0.410	0.412	-0.5	108	0.00	6.11
9 Chloroform	0.752	0.748	0.5	106	0.00	6.38
10 Carbon Tetrachloride	0.510	0.540	-5.9	107	0.00	6.54
11 1,1,1-Trichloroethane	0.658	0.683	-3.8	107	0.00	6.61
12 Benzene	1.392	1.466	-5.3	111	0.00	6.99
13 S 1,2-Dichloroethane-d4	0.309	0.315	-1.9	102	0.00	7.13
14 1,2-Dichloroethane	0.525	0.541	-3.0	109	0.00	7.20
15 Trichloroethene	0.427	0.446	-4.4	110	0.00	7.57
16 1,2-Dichloropropane	0.354	0.368	-4.0	110	0.00	8.11
----- Amount Calc. %Drift -----						
17 cis-1,3-Dichloropropene	10.000	10.889	-8.9	115	0.00	8.77
----- AvgRF CCRF %Dev -----						
18 I Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.51
19 S Toluene-d8	1.214	1.231	-1.4	102	0.00	8.96
----- Amount Calc. %Drift -----						
20 T trans-1,3-Dichloropropene	10.000	11.393	-13.9	117	0.00	9.41
21 Tetrachloroethene	10.000	10.356	-3.6	109	0.00	9.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 Z62211.D SIMCL091120.M Sun Sep 13 14:23:50 2020

6.7.2  
6

# Continuing Calibration Summary

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ECC2414  
**Lab FileID:** Z62235.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\ vz2414\Z62235.d Vial: 29  
 Acq On : 12 Sep 2020 3:16 am Operator: SHANICAO  
 Sample : ECC2414-5 Inst : MSVOA15  
 Misc : MS47183,VZ2414,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	11.007	-10.1	119	0.00	2.83
3	Chloromethane	10.000	10.460	-4.6	111	0.00	2.73
4	1,1-Dichloroethene	10.000	9.390	6.1	100	0.00	4.08
5	Methylene Chloride	10.000	8.424	15.8	100	0.00	4.71
	----- AvgRF	CCRF	% Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.350	5.1	100	0.00	4.89
7	1,1-Dichloroethane	0.626	0.601	4.0	101	0.00	5.55
8	cis-1,2-Dichloroethene	0.410	0.377	8.0	99	0.00	6.11
9	Chloroform	0.752	0.699	7.0	100	0.00	6.38
10	Carbon Tetrachloride	0.510	0.478	6.3	96	0.00	6.54
11	1,1,1-Trichloroethane	0.658	0.631	4.1	99	0.00	6.61
12	Benzene	1.392	1.310	5.9	100	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.316	-2.3	104	0.00	7.13
14	1,2-Dichloroethane	0.525	0.496	5.5	101	0.00	7.20
15	Trichloroethene	0.427	0.401	6.1	99	0.00	7.56
16	1,2-Dichloropropane	0.354	0.331	6.5	100	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	8.421	15.8	86	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00	10.51
19 S	Toluene-d8	1.214	1.219	-0.4	102	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	8.308	16.9	85	0.00	9.41
21	Tetrachloroethene	10.000	9.278	7.2	100	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62211.D    SIMCL091120.M            Mon Sep 14 02:39:42 2020

6.7.3  
6

# Continuing Calibration Summary

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2415-CC2414  
**Lab FileID:** Z62239.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vz2415\Z62239.d Vial: 3  
 Acq On : 12 Sep 2020 11:07 am Operator: stutip  
 Sample : CC2414-5 Inst : MSVOA15  
 Misc : MS47183,VZ2415,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	115	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	11.613	-16.1	140	0.00	2.84
3	Chloromethane	10.000	11.923	-19.2	144	0.00	2.73
4	1,1-Dichloroethene	10.000	11.021	-10.2	131	0.00	4.08
5	Methylene Chloride	10.000	11.521	-15.2	146	0.00	4.71
	----- AvgRF	CCRF	% Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.436	-18.2	139	0.00	4.89
7	1,1-Dichloroethane	0.626	0.756	-20.8#	142	0.00	5.54
8	cis-1,2-Dichloroethene	0.410	0.478	-16.6	141	0.00	6.10
9	Chloroform	0.752	0.866	-15.2	139	0.00	6.37
10	Carbon Tetrachloride	0.510	0.584	-14.5	131	0.00	6.54
11	1,1,1-Trichloroethane	0.658	0.759	-15.3	134	0.00	6.61
12	Benzene	1.392	1.642	-18.0	140	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.306	1.0	112	0.00	7.12
14	1,2-Dichloroethane	0.525	0.602	-14.7	137	0.00	7.19
15	Trichloroethene	0.427	0.470	-10.1	130	0.00	7.56
16	1,2-Dichloropropane	0.354	0.412	-16.4	139	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	12.973	-29.7#	158	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	115	0.00	10.51
19 S	Toluene-d8	1.214	1.228	-1.2	114	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	13.662	-36.6#	160	0.00	9.41
21	Tetrachloroethene	10.000	11.329	-13.3	134	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62211.D    SIMCL091120.M              Mon Sep 14 06:36:46 2020



## Continuing Calibration Summary

Job Number: FA78573  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2415-ECC2414  
 Lab FileID: Z62256.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vz2415\Z62256.d Vial: 17  
 Acq On : 12 Sep 2020 4:41 pm Operator: stutip  
 Sample : ecc2414-5 Inst : MSVOA15  
 Misc : MS47192,VZ2415,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	12.629	-26.3	132	0.00	2.84
3	Chloromethane	10.000	12.345	-23.5	129	0.00	2.73
4	1,1-Dichloroethene	10.000	11.546	-15.5	119	0.00	4.09
5	Methylene Chloride	10.000	11.605	-16.1	127	0.00	4.72
	----- AvgRF	CCRF	% Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.444	-20.3	123	0.00	4.89
7	1,1-Dichloroethane	0.626	0.779	-24.4	127	0.00	5.55
8	cis-1,2-Dichloroethene	0.410	0.490	-19.5	125	0.00	6.11
9	Chloroform	0.752	0.914	-21.5	127	0.00	6.38
10	Carbon Tetrachloride	0.510	0.571	-12.0	111	0.00	6.55
11	1,1,1-Trichloroethane	0.658	0.785	-19.3	120	0.00	6.62
12	Benzene	1.392	1.702	-22.3	125	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.324	-4.9	103	0.00	7.13
14	1,2-Dichloroethane	0.525	0.667	-27.0	131	0.00	7.20
15	Trichloroethene	0.427	0.520	-21.8	124	0.00	7.57
16	1,2-Dichloropropane	0.354	0.436	-23.2	127	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	10.570	-5.7	108	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	10.51
19 S	Toluene-d8	1.214	1.210	0.3	98	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	10.586	-5.9	106	0.00	9.41
21	Tetrachloroethene	10.000	11.883	-18.8	121	0.00	9.40

(#) = Out of Range  
 Z62211.D SIMCL091120.M

SPCC's out = 0 CCC's out = 0  
 Mon Sep 14 06:37:11 2020

**Run Sequence Report**

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2414      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2414-BFB	Z62205.D	09/11/20 17:20	n/a	BFB Tune
VZ2414-IC2414	Z62207.D	09/11/20 18:15	n/a	Initial cal 1
VZ2414-IC2414	Z62208.D	09/11/20 18:34	n/a	Initial cal 2
VZ2414-IC2414	Z62209.D	09/11/20 18:53	n/a	Initial cal 3
VZ2414-IC2414	Z62210.D	09/11/20 19:13	n/a	Initial cal 4
VZ2414-ICC2414	Z62211.D	09/11/20 19:32	n/a	Initial cal 5
VZ2414-IC2414	Z62212.D	09/11/20 19:51	n/a	Initial cal 6
VZ2414-IC2414	Z62213.D	09/11/20 20:13	n/a	Initial cal 7
VZ2414-ICV2414	Z62215.D	09/11/20 20:51	n/a	Initial cal verification 5
VZ2414-BS	Z62216.D	09/11/20 21:10	n/a	Blank Spike
VZ2414-MB	Z62218.D	09/11/20 21:49	n/a	Method Blank
FA78573-1	Z62219.D	09/11/20 22:08	n/a	2036X0BW210F
FA78573-2	Z62220.D	09/11/20 22:27	n/a	2036X0BW211F
FA78573-3	Z62221.D	09/11/20 22:47	n/a	2036X0BW212A
FA78573-4	Z62222.D	09/11/20 23:06	n/a	2036X0BW213C
FA78573-5	Z62223.D	09/11/20 23:26	n/a	2036X0BW214F
FA78573-6	Z62224.D	09/11/20 23:45	n/a	2036X0BW215D
FA78573-7	Z62225.D	09/12/20 00:04	n/a	2036X0BW216F
FA78573-8	Z62226.D	09/12/20 00:23	n/a	2036X0BW217F
FA78573-9	Z62227.D	09/12/20 00:42	n/a	2036X0BW218D
FA78573-10	Z62228.D	09/12/20 01:02	n/a	2036X0BW219F
FA78573-11	Z62229.D	09/12/20 01:21	n/a	2036X0BW220F
FA78573-12	Z62230.D	09/12/20 01:40	n/a	2036X00B221F
FA78573-13	Z62231.D	09/12/20 02:00	n/a	2036X0BW222F
FA78573-14	Z62232.D	09/12/20 02:19	n/a	2036X0BW223F
FA78573-1MS	Z62233.D	09/12/20 02:38	n/a	Matrix Spike
FA78573-1MSD	Z62234.D	09/12/20 02:57	n/a	Matrix Spike Duplicate
VZ2414-ECC2414	Z62235.D	09/12/20 03:16	n/a	Ending cal 5

**Run Sequence Report**

**Job Number:** FA78573  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2415	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2415-BFB	Z62238.D	09/12/20 10:44	n/a	BFB Tune
VZ2415-CC2414	Z62239.D	09/12/20 11:07	n/a	Continuing cal 5
VZ2415-BS	Z62240.D	09/12/20 11:32	n/a	Blank Spike
VZ2415-MB	Z62242.D	09/12/20 12:11	n/a	Method Blank
FA78573-15	Z62243.D	09/12/20 12:30	n/a	2036X0BW225F
FA78573-16	Z62244.D	09/12/20 12:49	n/a	2036X0BW229F
FA78573-17	Z62245.D	09/12/20 13:08	n/a	2036X0BW230F
FA78573-18	Z62246.D	09/12/20 13:27	n/a	2036X0BW231F
FA78571-16	Z62247.D	09/12/20 13:47	n/a	(used for QC only; not part of job FA78573)
ZZZZZZ	Z62248.D	09/12/20 14:06	n/a	(unrelated sample)
ZZZZZZ	Z62249.D	09/12/20 14:25	n/a	(unrelated sample)
ZZZZZZ	Z62250.D	09/12/20 14:44	n/a	(unrelated sample)
ZZZZZZ	Z62251.D	09/12/20 15:04	n/a	(unrelated sample)
ZZZZZZ	Z62252.D	09/12/20 15:23	n/a	(unrelated sample)
ZZZZZZ	Z62253.D	09/12/20 15:44	n/a	(unrelated sample)
FA78571-16MS	Z62254.D	09/12/20 16:03	n/a	Matrix Spike
FA78571-16MSD	Z62255.D	09/12/20 16:22	n/a	Matrix Spike Duplicate
VZ2415-ECC2414	Z62256.D	09/12/20 16:41	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62219.d  
Acq On : 11 Sep 2020 10:08 pm  
Operator : SHANICAO  
Sample : FA78573-1  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 02:08:37 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1789980	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1415763	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	559499	5.05	ppb	0.00
Spiked Amount	5.000	Range 79 - 125	Recovery	=	101.00%	
19) Toluene-d8	8.961	98	1757245	5.11	ppb	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	102.20%	
Target Compounds						
5) Methylene Chloride	4.713	84	47882	0.27	ppb	Qvalue # 86
9) Chloroform	6.377	83	2504714	9.31	ppb	98
10) Carbon Tetrachloride	6.543	117	35952	0.20	ppb	97
-----						

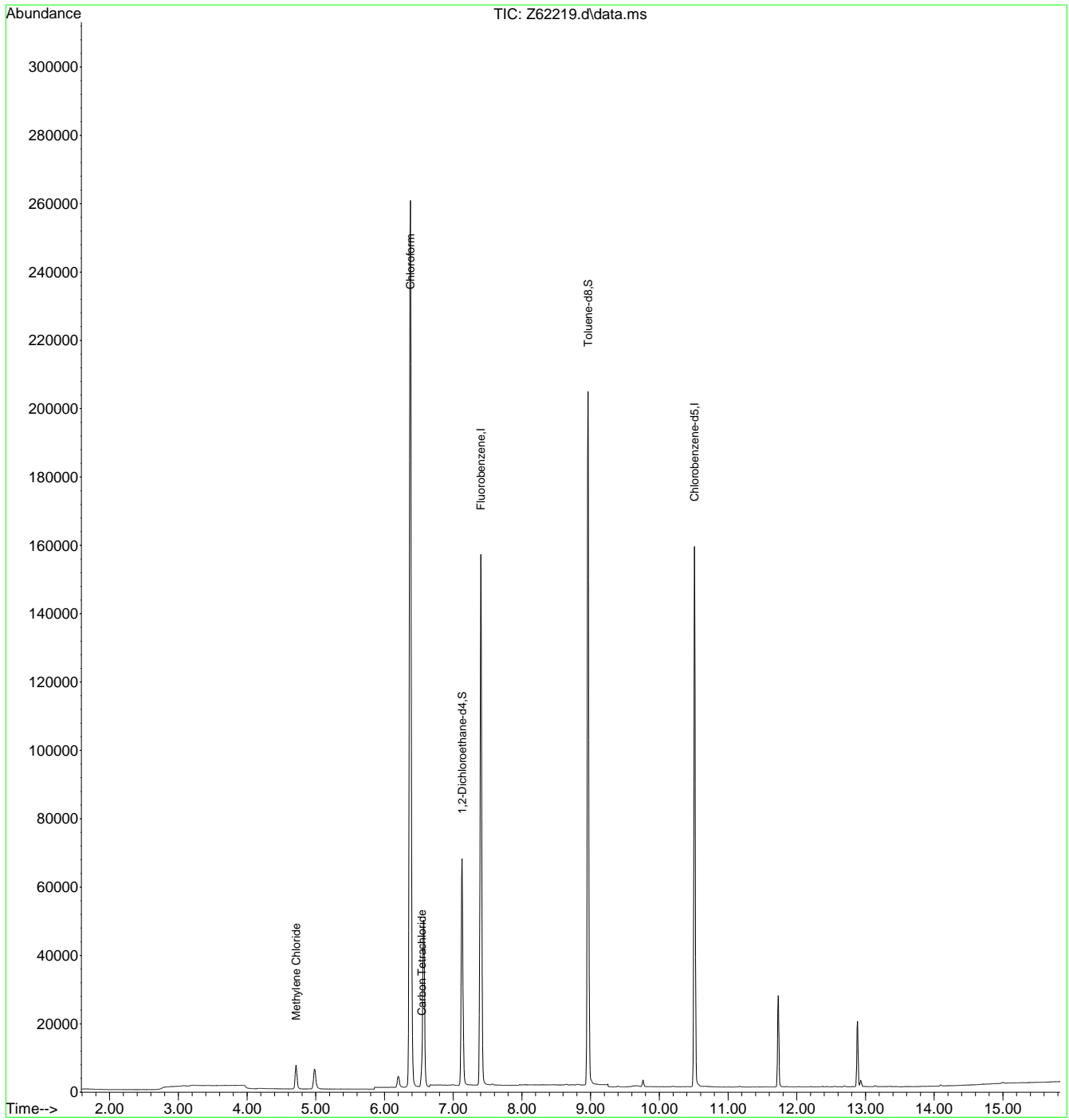
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1  
7

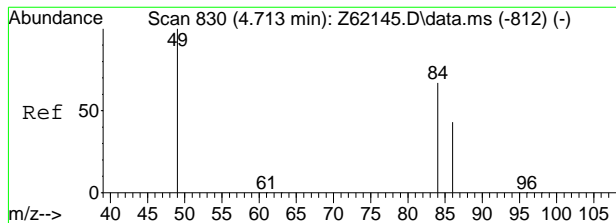
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62219.d  
Acq On : 11 Sep 2020 10:08 pm  
Operator : SHANICAO  
Sample : FA78573-1  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 02:08:37 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

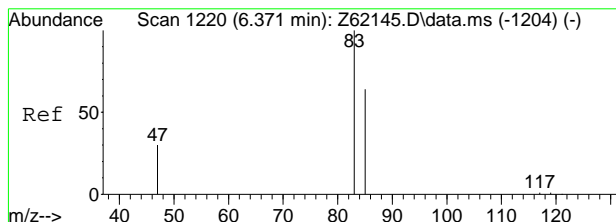
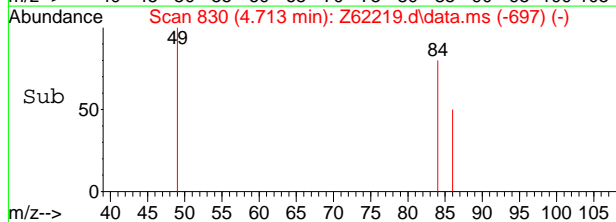
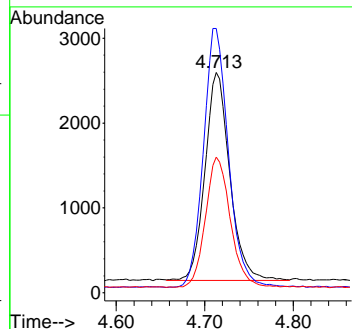
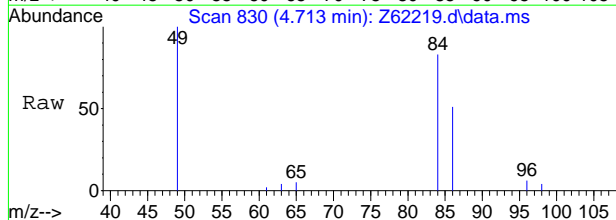


7  
117



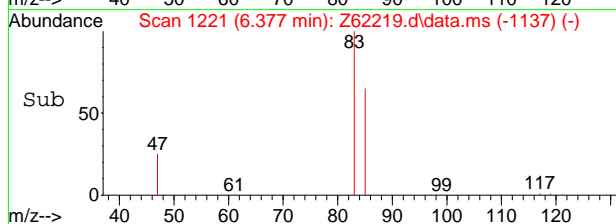
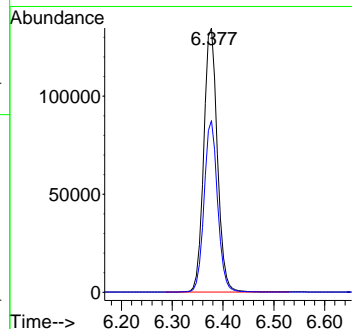
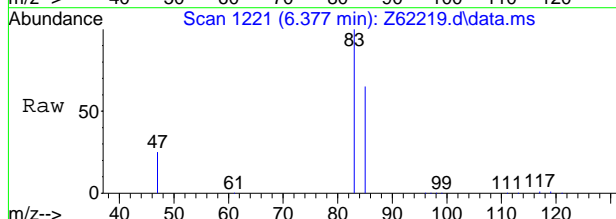
#5  
 Methylene Chloride  
 Concen: 0.27 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62219.d  
 Acq: 11 Sep 2020 10:08 pm

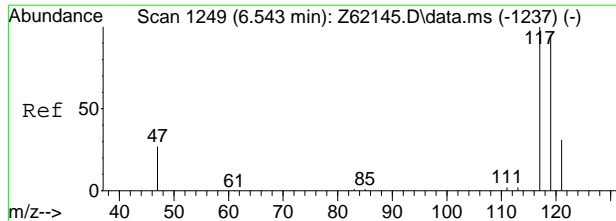
Tgt Ion	Resp	Lower	Upper
84	47882		
84	100		
49	124.7	128.7	168.7#
86	62.8	43.9	83.9



#9  
 Chloroform  
 Concen: 9.31 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62219.d  
 Acq: 11 Sep 2020 10:08 pm

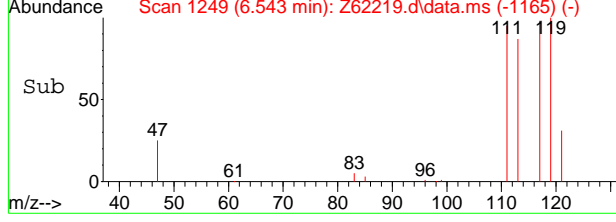
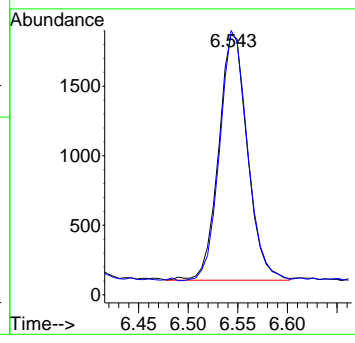
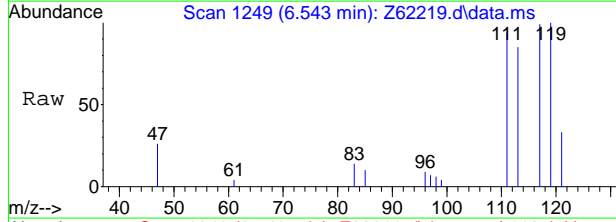
Tgt Ion	Resp	Lower	Upper
83	2504714		
83	100		
85	64.4	46.1	86.1





#10  
 Carbon Tetrachloride  
 Concen: 0.20 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. 0.000 min  
 Lab File: Z62219.d  
 Acq: 11 Sep 2020 10:08 pm

Tgt Ion	Resp	Lower	Upper
117	35952		
117	100		
119	98.0	75.5	115.5



7.1.1  
7





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
Data File : Z62220.d  
Acq On : 11 Sep 2020 10:27 pm  
Operator : SHANICAO  
Sample : FA78573-2  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 02:08:39 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1788862	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1424727	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	558750	5.05	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.00%	
19) Toluene-d8	8.961	98	1770158	5.12	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%	
Target Compounds							
5) Methylene Chloride	4.713	84	24230	0.14	ppb	88	Qvalue
9) Chloroform	6.377	83	2004086	7.45	ppb	98	
10) Carbon Tetrachloride	6.543	117	130240	0.71	ppb	97	
-----							

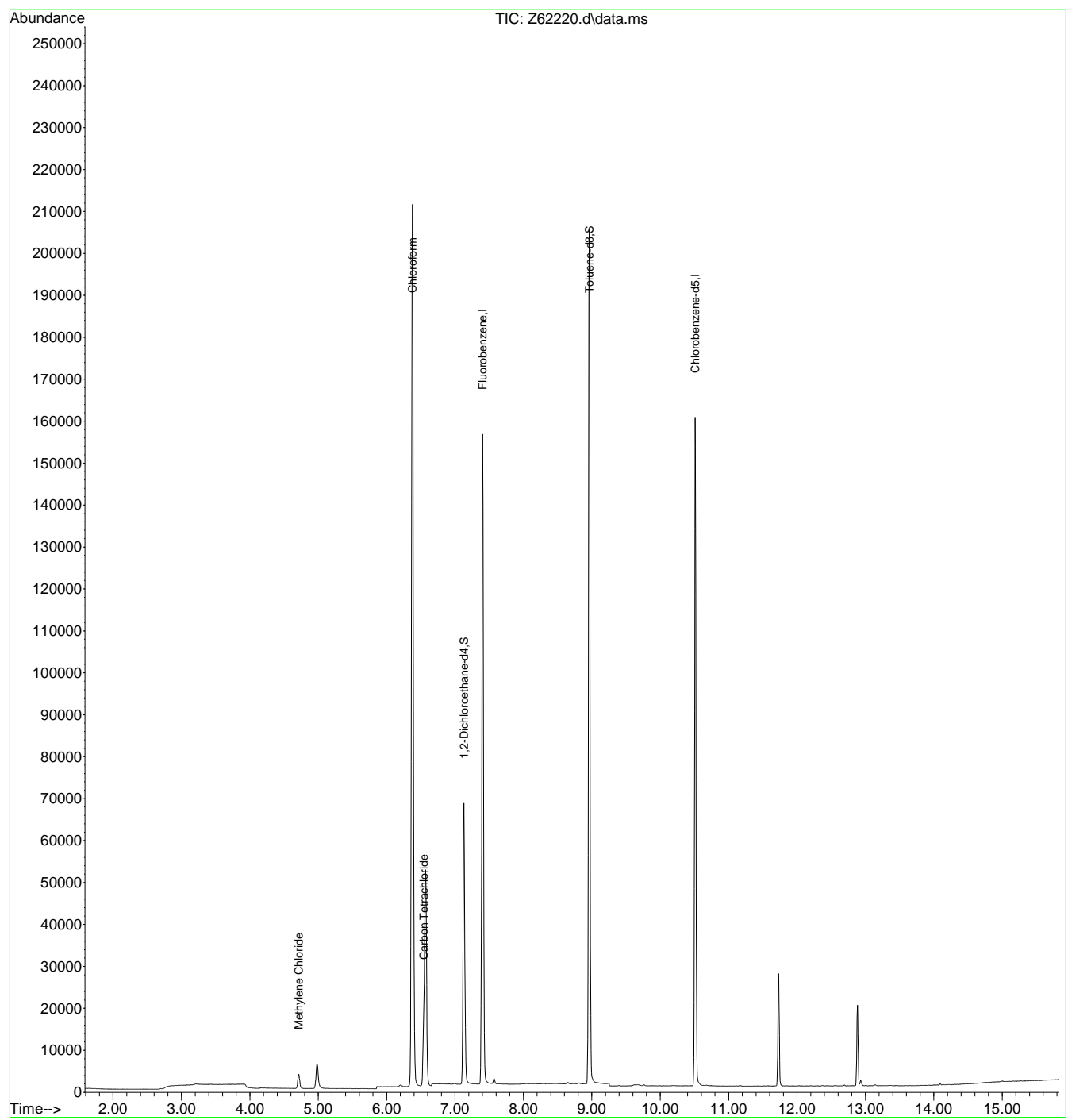
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.12  
7

Quantitation Report (QT Reviewed)

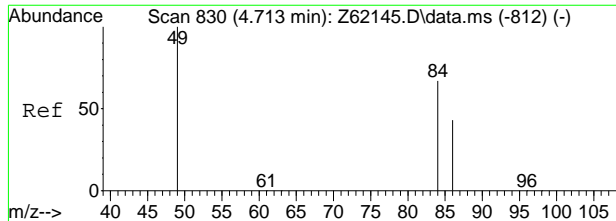
Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62220.d  
Acq On : 11 Sep 2020 10:27 pm  
Operator : SHANICAO  
Sample : FA78573-2  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 02:08:39 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.12  
7

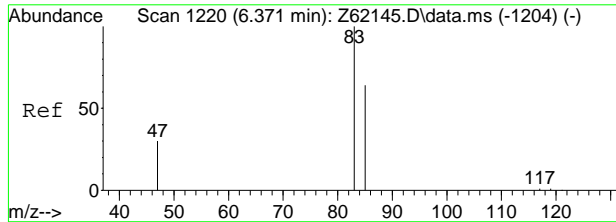
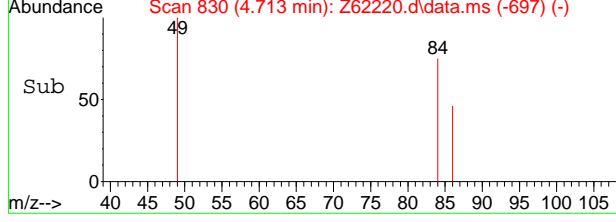
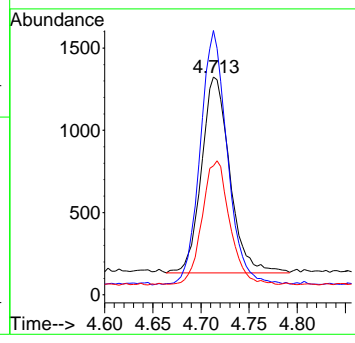
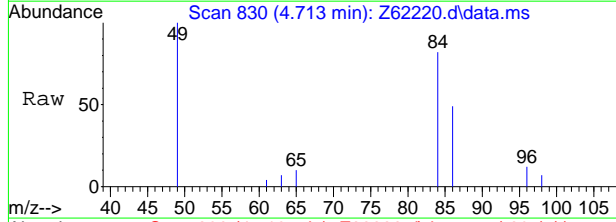




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62220.d  
 Acq: 11 Sep 2020 10:27 pm

Tgt Ion: 84 Resp: 24230

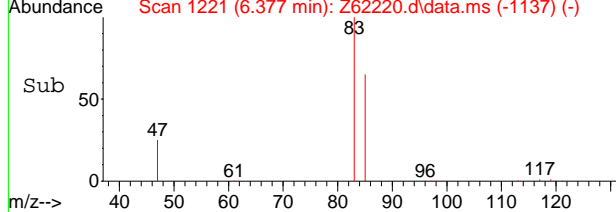
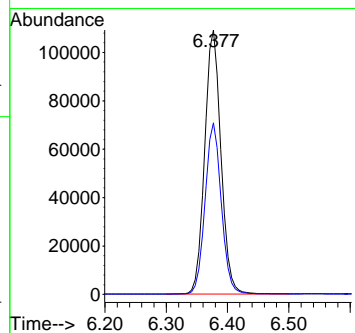
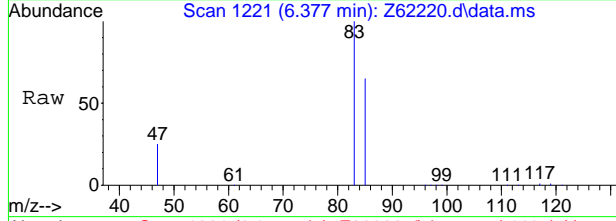
Ion	Ratio	Lower	Upper
84	100		
49	129.6	128.7	168.7
86	60.4	43.9	83.9



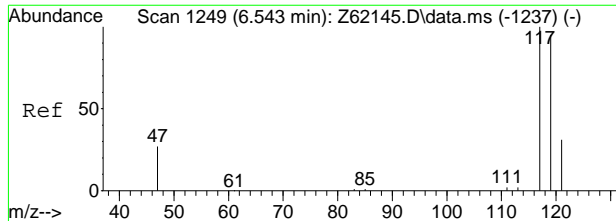
#9  
 Chloroform  
 Concen: 7.45 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62220.d  
 Acq: 11 Sep 2020 10:27 pm

Tgt Ion: 83 Resp: 2004086

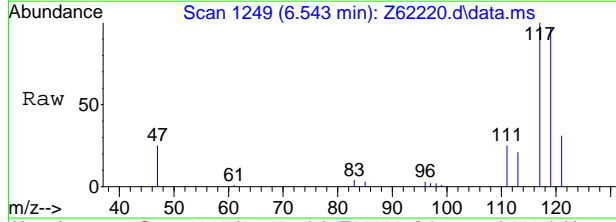
Ion	Ratio	Lower	Upper
83	100		
85	64.7	46.1	86.1



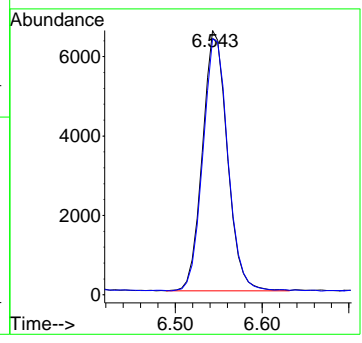
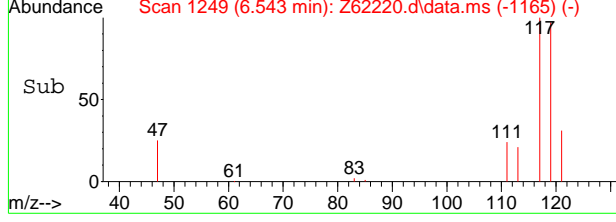
7.12  
7



#10  
Carbon Tetrachloride  
Concen: 0.71 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62220.d  
Acq: 11 Sep 2020 10:27 pm



Tgt Ion: 117 Resp: 130240  
Ion Ratio Lower Upper  
117 100  
119 98.8 75.5 115.5



7.1.2  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62221.d  
Acq On : 11 Sep 2020 10:47 pm  
Operator : SHANICAO  
Sample : FA78573-3  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 02:08:41 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1830615	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1449150	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	574332	5.07	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.40%
19) Toluene-d8	8.961	98	1800368	5.12	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%
Target Compounds						
5) Methylene Chloride	4.713	84	24086	0.13	ppb	Qvalue # 86
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

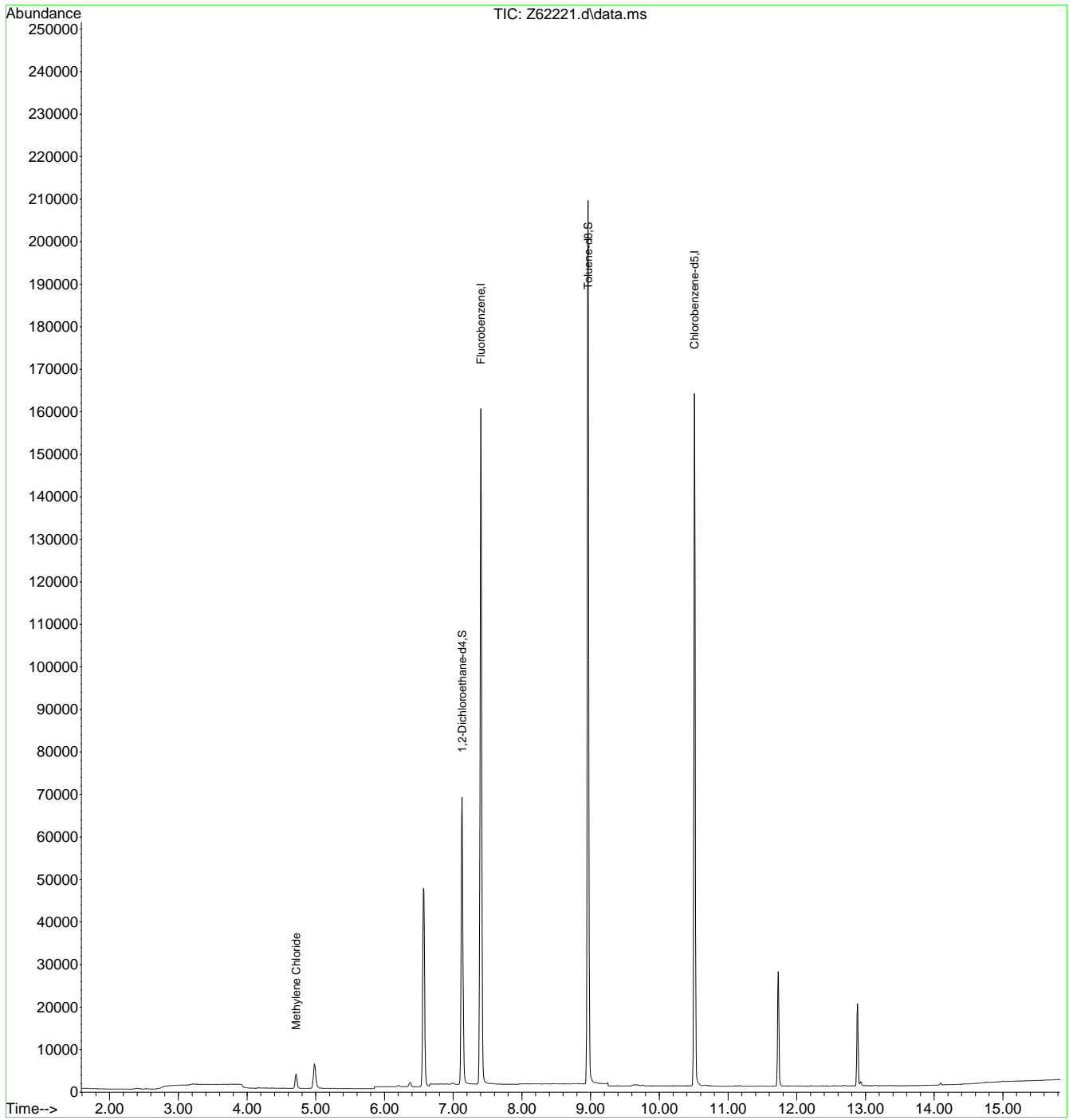
7.1.3  
7



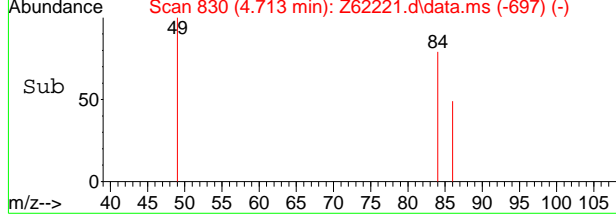
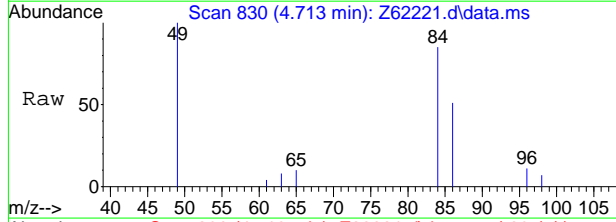
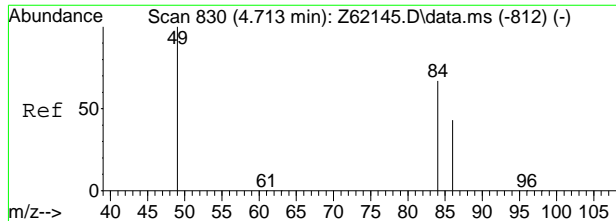
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62221.d  
Acq On : 11 Sep 2020 10:47 pm  
Operator : SHANICAO  
Sample : FA78573-3  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 02:08:41 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

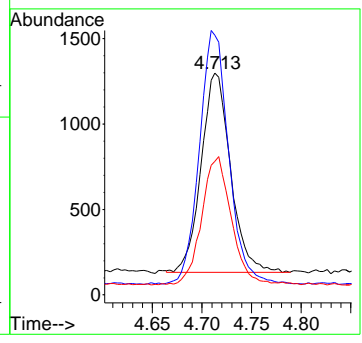


7.1.3  
7



#5  
 Methylene Chloride  
 Concen: 0.13 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62221.d  
 Acq: 11 Sep 2020 10:47 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	124.6	128.7	168.7#
86	61.7	43.9	83.9



7.1.3  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
 Data File : Z62222.d  
 Acq On : 11 Sep 2020 11:06 pm  
 Operator : SHANICAO  
 Sample : FA78573-4  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 14 02:35:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1822446	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1449766	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	572947	5.08	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.60%
19) Toluene-d8	8.961	98	1794169	5.10	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
5) Methylene Chloride	4.713	84	23123	0.13	ppb	Qvalue # 87
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.14  
7

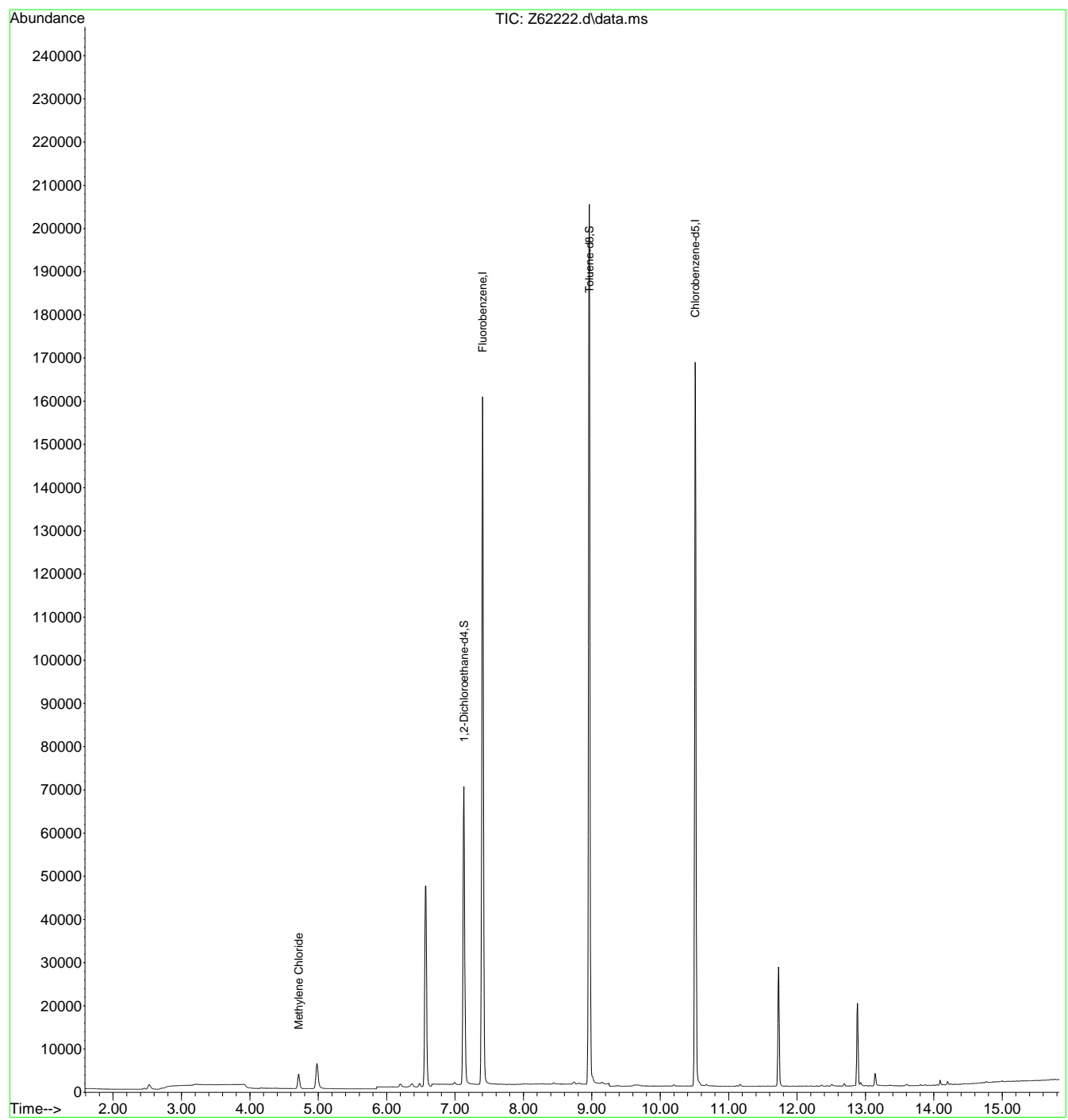




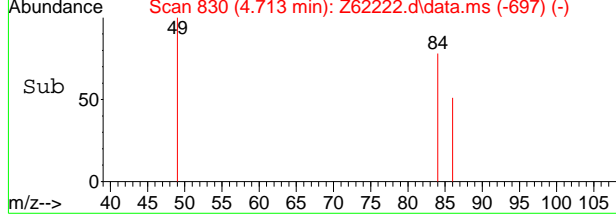
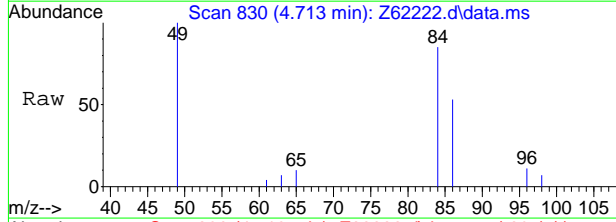
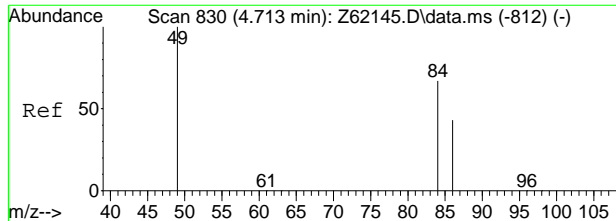
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
Data File : Z62222.d  
Acq On : 11 Sep 2020 11:06 pm  
Operator : SHANICAO  
Sample : FA78573-4  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 14 02:35:24 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

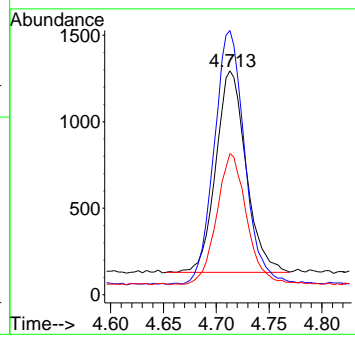


7.1.4  
7



#5  
 Methylene Chloride  
 Concen: 0.13 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62222.d  
 Acq: 11 Sep 2020 11:06 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	126.1	128.7	168.7#
86	64.6	43.9	83.9



7.14  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62223.d  
Acq On : 11 Sep 2020 11:26 pm  
Operator : SHANICAO  
Sample : FA78573-5  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 14 02:08:45 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1847896	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1463298	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	585928	5.13	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.60%	
19) Toluene-d8	8.961	98	1815774	5.11	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%	
Target Compounds							
5) Methylene Chloride	4.713	84	26515	0.14	ppb	89	
9) Chloroform	6.377	83	630243	2.27	ppb	100	
10) Carbon Tetrachloride	6.549	117	61984	0.33	ppb	97	
15) Trichloroethene	7.571	95	58668	0.37	ppb	88	
-----							

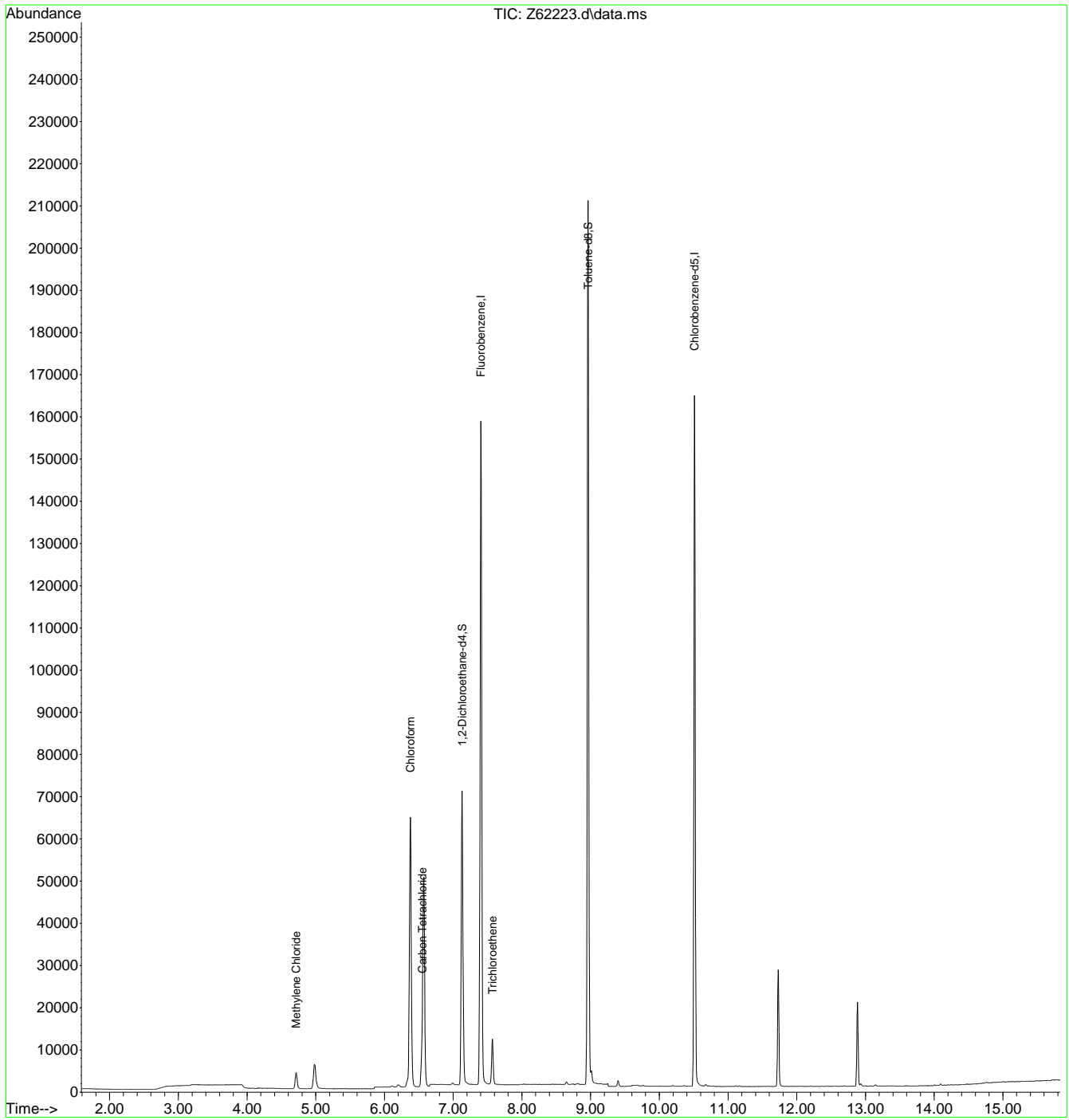
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.15  
7

Quantitation Report (QT Reviewed)

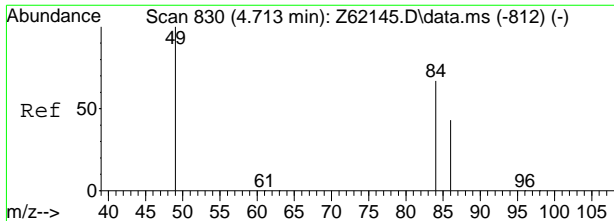
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
Data File : Z62223.d  
Acq On : 11 Sep 2020 11:26 pm  
Operator : SHANICAO  
Sample : FA78573-5  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 14 02:08:45 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



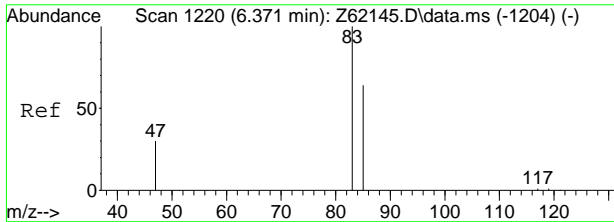
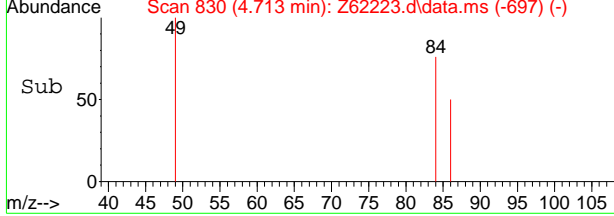
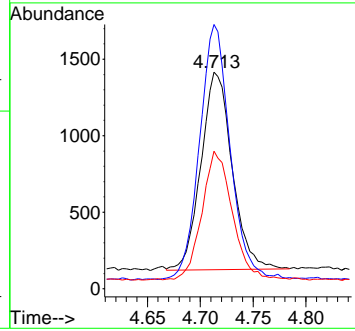
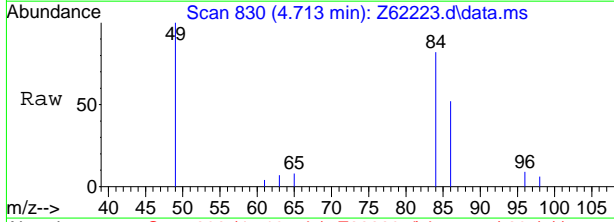
7.1.5  
7





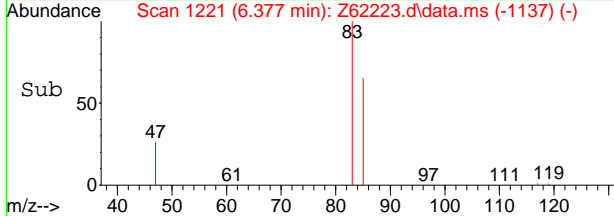
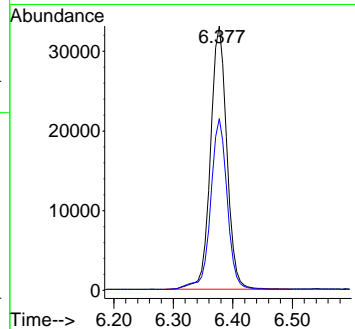
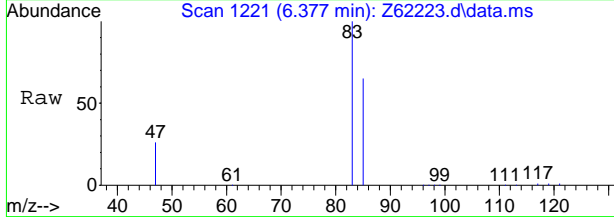
#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62223.d  
 Acq: 11 Sep 2020 11:26 pm

Tgt Ion	Resp	Lower	Upper
84	26515		
84	100		
49	129.0	128.7	168.7
86	65.2	43.9	83.9

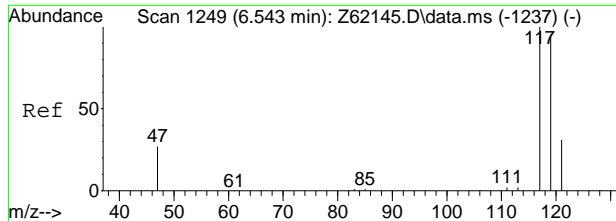


#9  
 Chloroform  
 Concen: 2.27 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62223.d  
 Acq: 11 Sep 2020 11:26 pm

Tgt Ion	Resp	Lower	Upper
83	630243		
83	100		
85	66.0	46.1	86.1



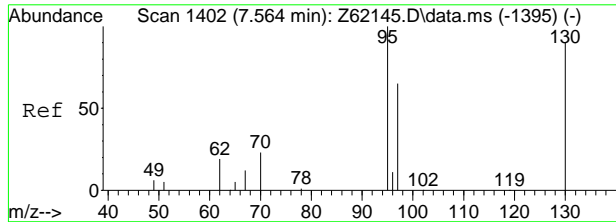
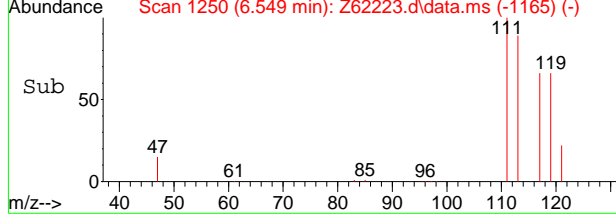
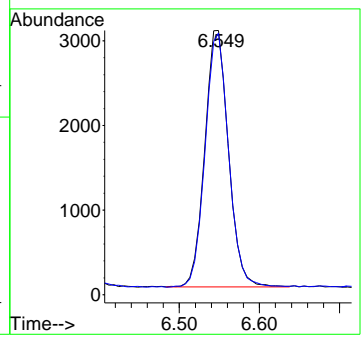
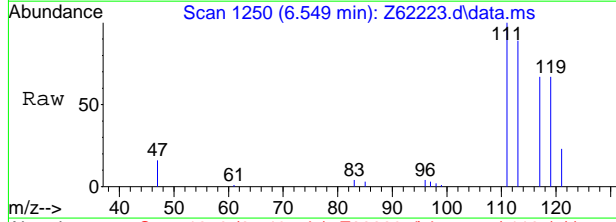
7.15  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.33 ppb  
 RT: 6.549 min Scan# 1250  
 Delta R.T. 0.006 min  
 Lab File: Z62223.d  
 Acq: 11 Sep 2020 11:26 pm

Tgt Ion: 117 Resp: 61984

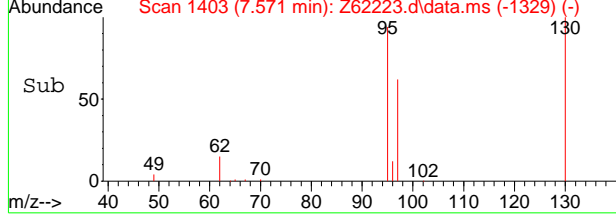
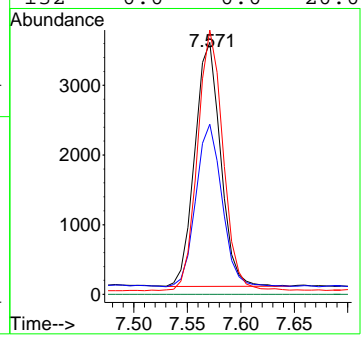
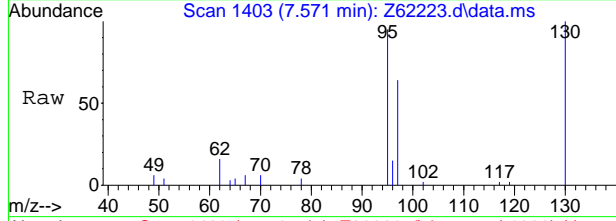
Ion	Ratio	Lower	Upper
117	100		
119	98.5	75.5	115.5



#15  
 Trichloroethene  
 Concen: 0.37 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62223.d  
 Acq: 11 Sep 2020 11:26 pm

Tgt Ion: 95 Resp: 58668

Ion	Ratio	Lower	Upper
95	100		
97	66.6	44.5	84.5
130	106.6	69.7	109.7
132	0.0	0.0	20.0



7.15  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62224.d  
Acq On : 11 Sep 2020 11:45 pm  
Operator : SHANICAO  
Sample : FA78573-6  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 02:08:47 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1785795	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1416471	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	567430	5.14	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.80%
19) Toluene-d8	8.961	98	1759851	5.12	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%
Target Compounds						
5) Methylene Chloride	4.713	84	25776	0.15	ppb	# 87
9) Chloroform	6.377	83	480480	1.79	ppb	99
10) Carbon Tetrachloride	6.543	117	76032	0.42	ppb	98
15) Trichloroethene	7.571	95	67786	0.44	ppb	# 85
-----						

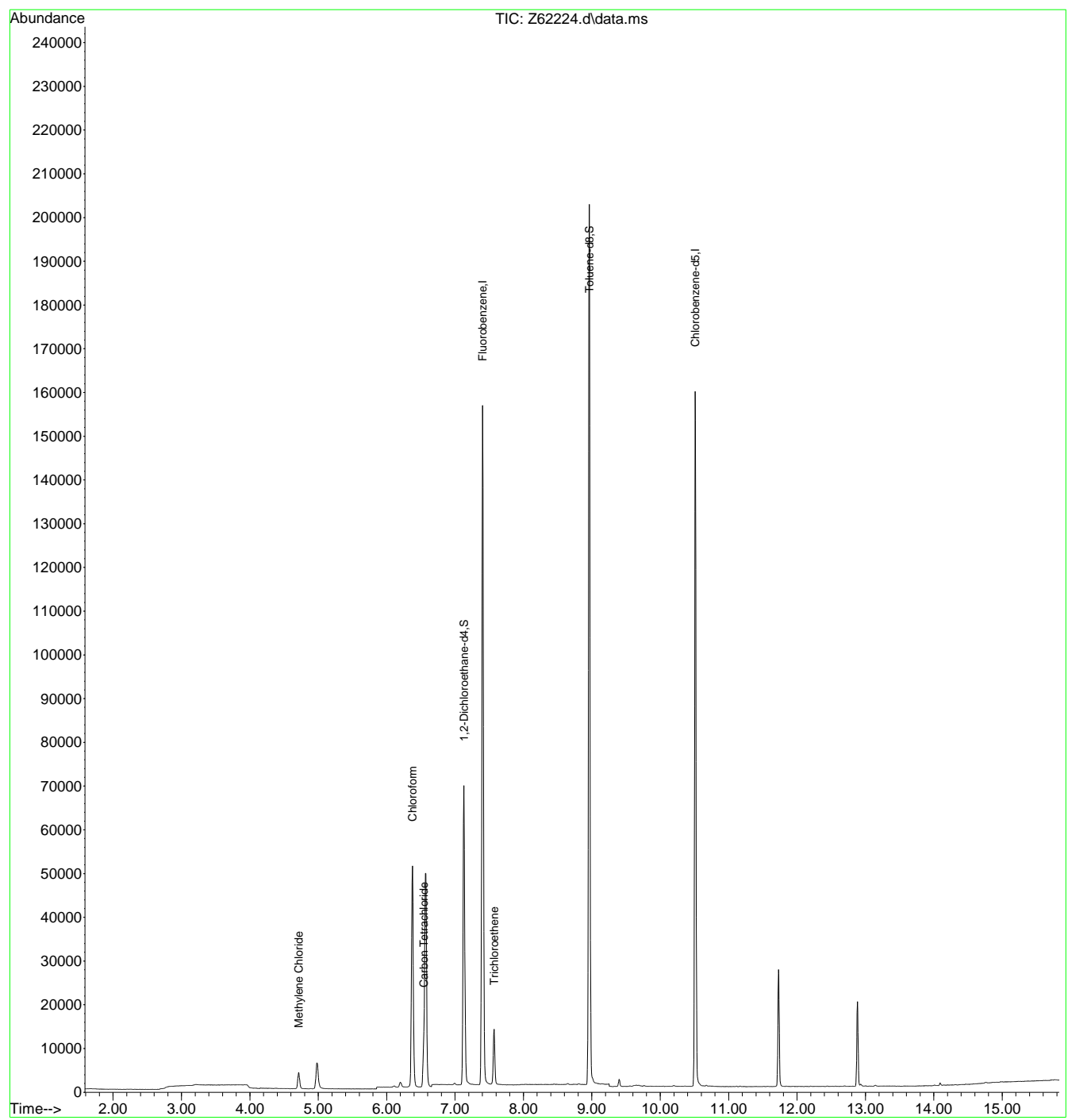
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.6  
7

Quantitation Report (QT Reviewed)

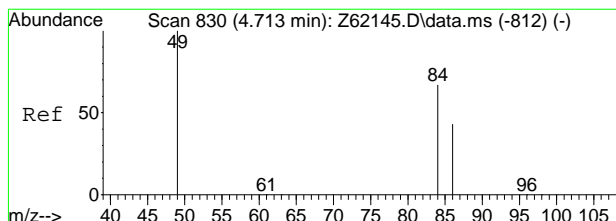
Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62224.d  
Acq On : 11 Sep 2020 11:45 pm  
Operator : SHANICAO  
Sample : FA78573-6  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 02:08:47 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



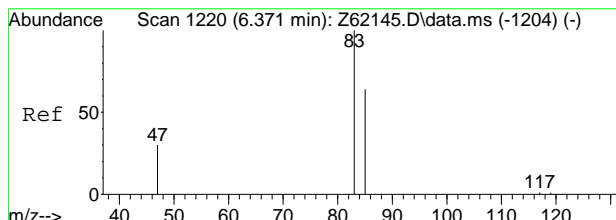
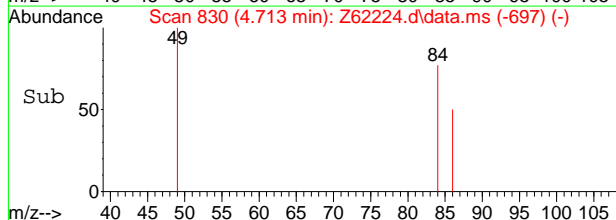
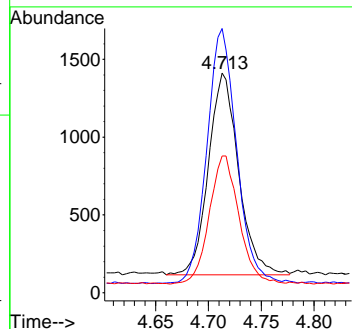
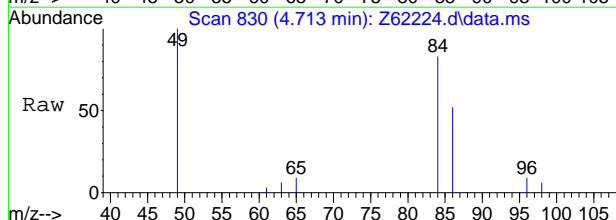
7.1.6  
7





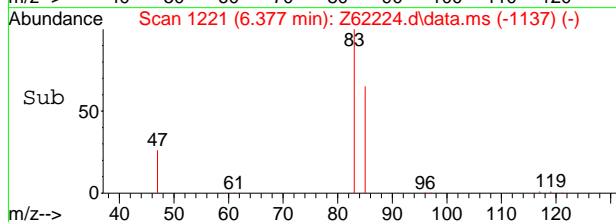
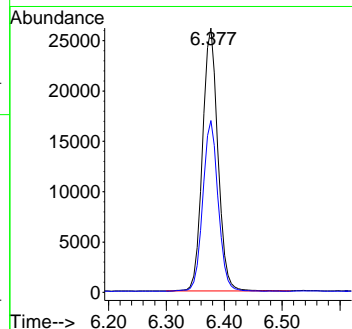
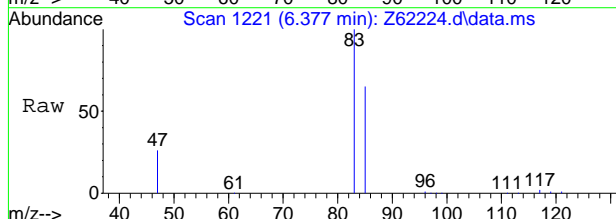
#5  
 Methylene Chloride  
 Concen: 0.15 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62224.d  
 Acq: 11 Sep 2020 11:45 pm

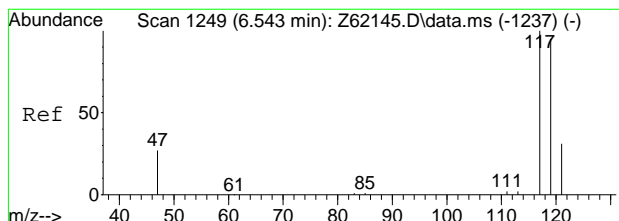
Tgt Ion	Resp	Lower	Upper
84	25776		
84	100		
49	126.2	128.7	168.7#
86	63.2	43.9	83.9



#9  
 Chloroform  
 Concen: 1.79 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62224.d  
 Acq: 11 Sep 2020 11:45 pm

Tgt Ion	Resp	Lower	Upper
83	480480		
83	100		
85	65.1	46.1	86.1

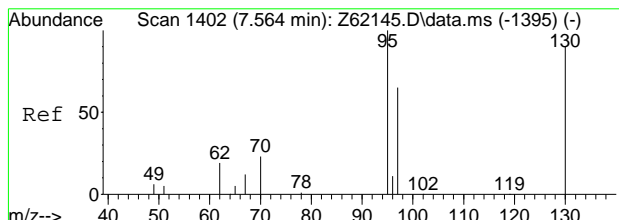
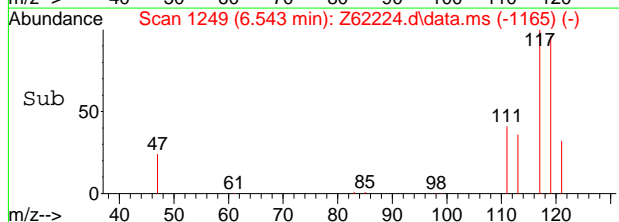
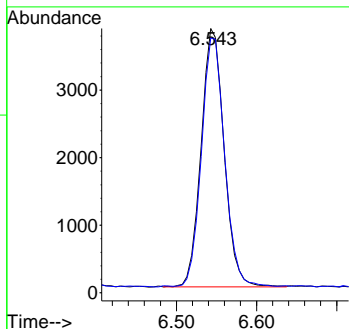
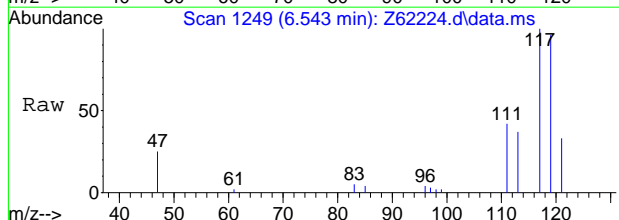




#10  
 Carbon Tetrachloride  
 Concen: 0.42 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62224.d  
 Acq: 11 Sep 2020 11:45 pm

Tgt Ion: 117 Resp: 76032

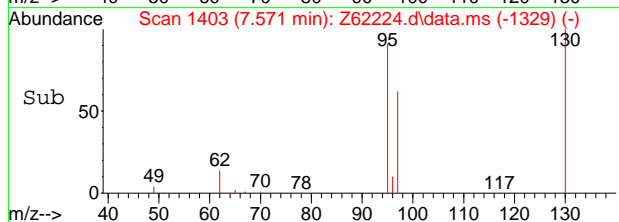
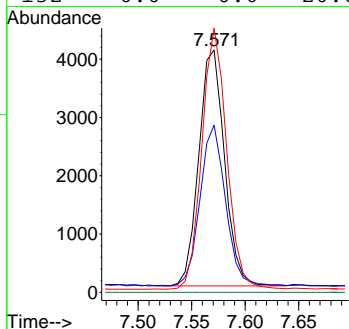
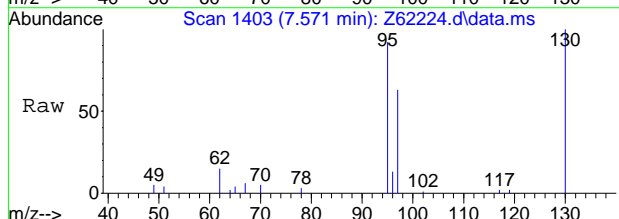
Ion	Ratio	Lower	Upper
117	100		
119	97.7	75.5	115.5



#15  
 Trichloroethene  
 Concen: 0.44 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. -0.000 min  
 Lab File: Z62224.d  
 Acq: 11 Sep 2020 11:45 pm

Tgt Ion: 95 Resp: 67786

Ion	Ratio	Lower	Upper
95	100		
97	68.0	44.5	84.5
130	110.7	69.7	109.7#
132	0.0	0.0	20.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62225.d  
Acq On : 12 Sep 2020 12:04 am  
Operator : SHANICAO  
Sample : FA78573-7  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 14 02:08:49 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1846316	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1466366	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	585423	5.13	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.60%
19) Toluene-d8	8.961	98	1824072	5.12	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%
Target Compounds						
5) Methylene Chloride	4.713	84	33771	0.18	ppb	Qvalue # 86
9) Chloroform	6.377	83	81376	0.29	ppb	98
10) Carbon Tetrachloride	6.543	117	190343	1.01	ppb	98
15) Trichloroethene	7.564	95	8899	0.06	ppb	97
-----						

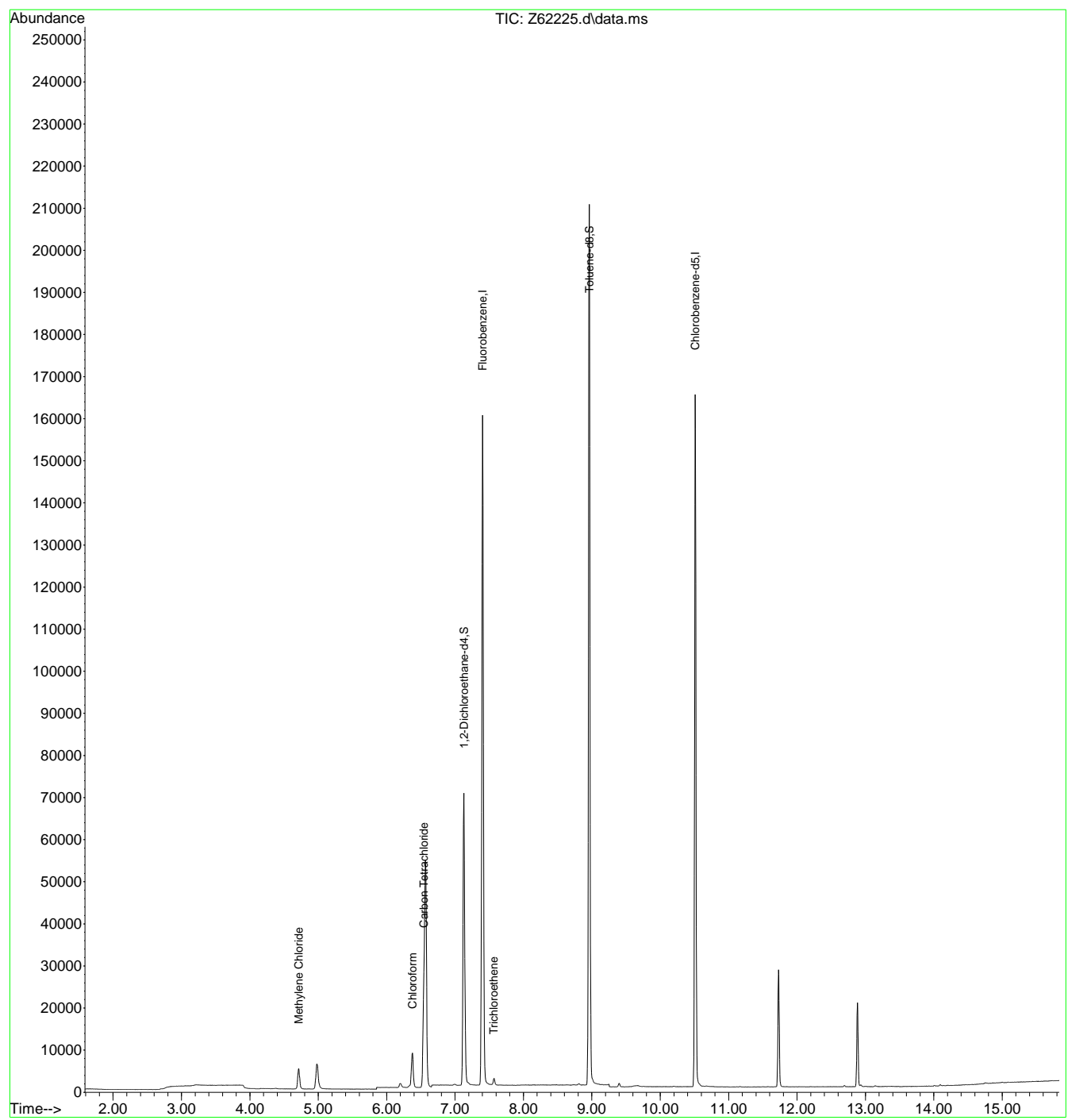
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.17  
7

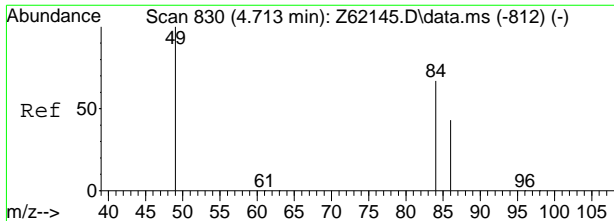
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
Data File : Z62225.d  
Acq On : 12 Sep 2020 12:04 am  
Operator : SHANICAO  
Sample : FA78573-7  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 14 02:08:49 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

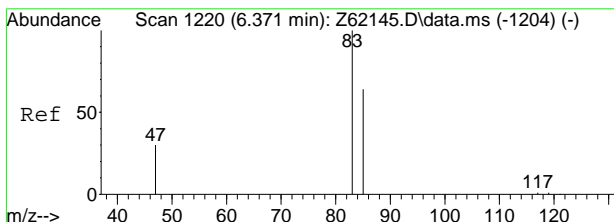
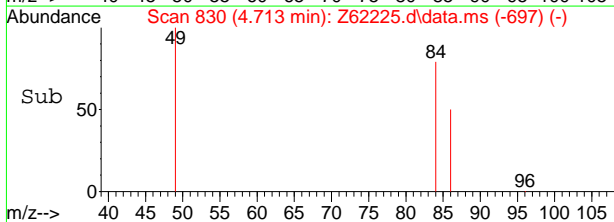
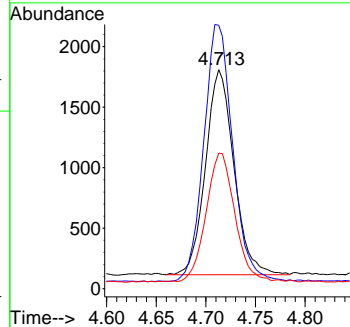
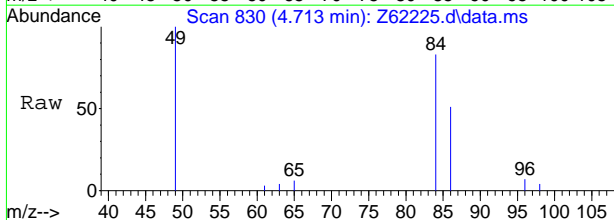


717  
7



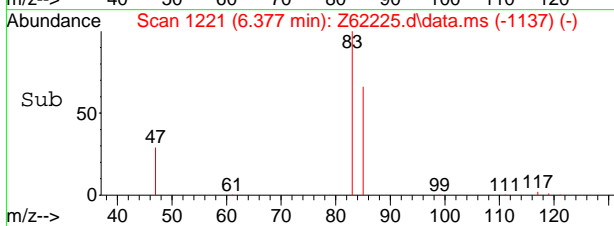
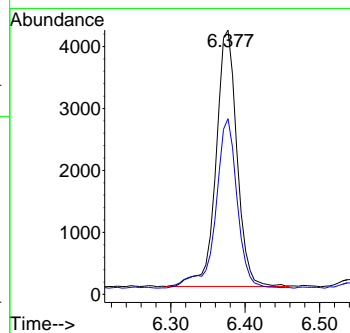
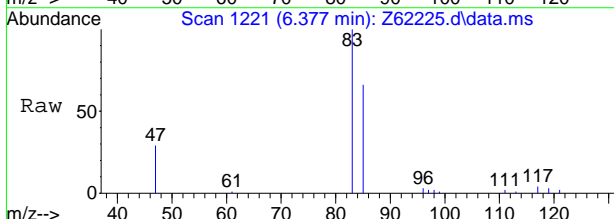
#5  
 Methylene Chloride  
 Concen: 0.18 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62225.d  
 Acq: 12 Sep 2020 12:04 am

Tgt Ion	Resp	Lower	Upper
84	33771		
84	100		
49	124.9	128.7	168.7#
86	62.5	43.9	83.9

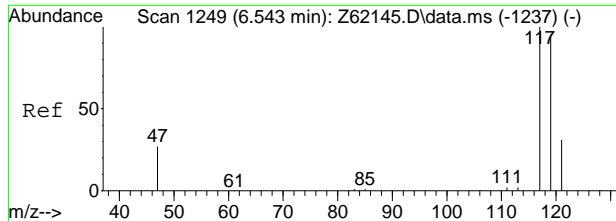


#9  
 Chloroform  
 Concen: 0.29 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62225.d  
 Acq: 12 Sep 2020 12:04 am

Tgt Ion	Resp	Lower	Upper
83	81376		
83	100		
85	67.8	46.1	86.1



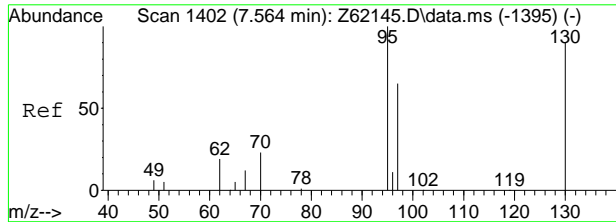
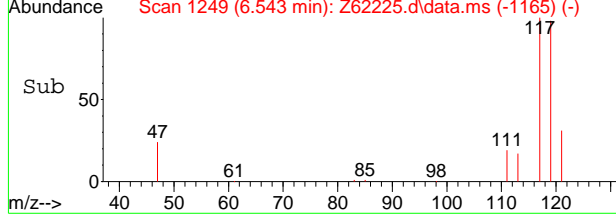
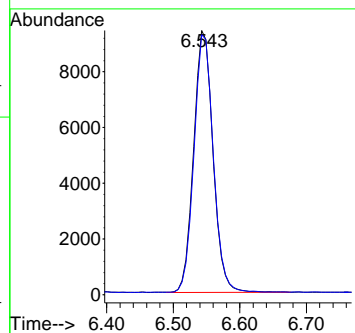
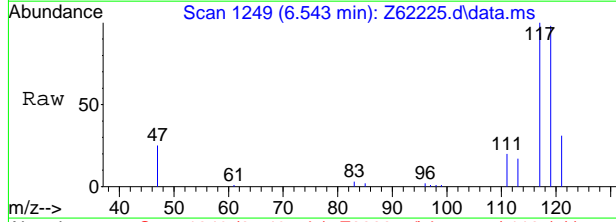
7.17



#10  
 Carbon Tetrachloride  
 Concen: 1.01 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62225.d  
 Acq: 12 Sep 2020 12:04 am

Tgt Ion: 117 Resp: 190343

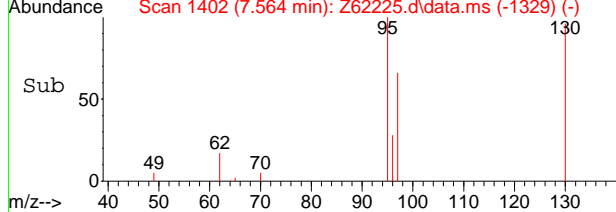
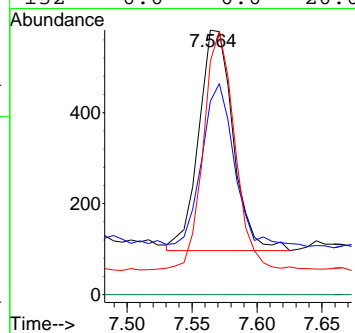
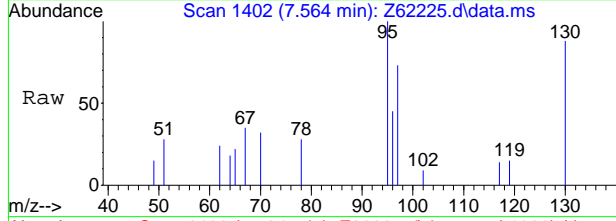
Ion	Ratio	Lower	Upper
117	100		
119	97.6	75.5	115.5



#15  
 Trichloroethene  
 Concen: 0.06 ppb  
 RT: 7.564 min Scan# 1402  
 Delta R.T. -0.007 min  
 Lab File: Z62225.d  
 Acq: 12 Sep 2020 12:04 am

Tgt Ion: 95 Resp: 8899

Ion	Ratio	Lower	Upper
95	100		
97	64.9	44.5	84.5
130	93.8	69.7	109.7
132	0.0	0.0	20.0



7.17  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62226.d  
Acq On : 12 Sep 2020 12:23 am  
Operator : SHANICAO  
Sample : FA78573-8  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 02:08:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1842510	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1467719	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	585519	5.14	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.80%
19) Toluene-d8	8.961	98	1815738	5.09	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
Target Compounds						
5) Methylene Chloride	4.717	84	22679	0.12	ppb	Qvalue # 83
9) Chloroform	6.377	83	48348	0.17	ppb	93
10) Carbon Tetrachloride	6.543	117	120827	0.64	ppb	98
-----						

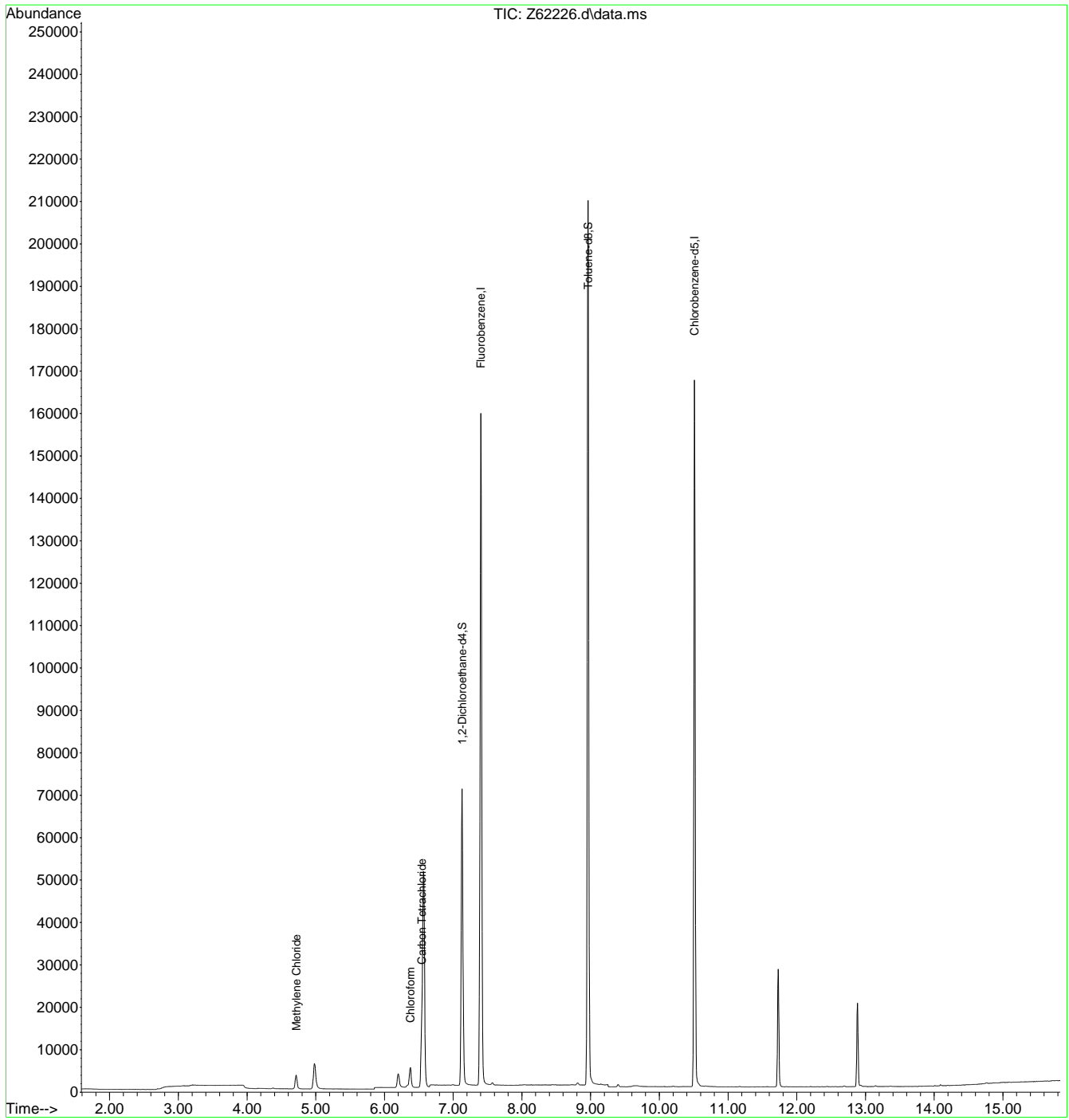
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.8  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
Data File : Z62226.d  
Acq On : 12 Sep 2020 12:23 am  
Operator : SHANICAO  
Sample : FA78573-8  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 20 Sample Multiplier: 1

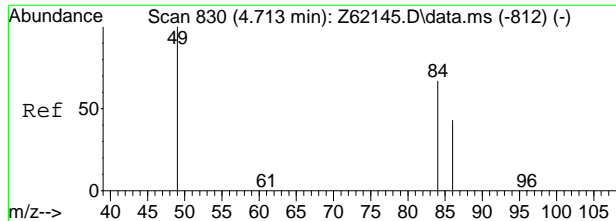
Quant Time: Sep 14 02:08:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



718



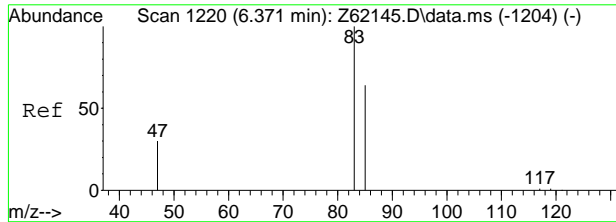
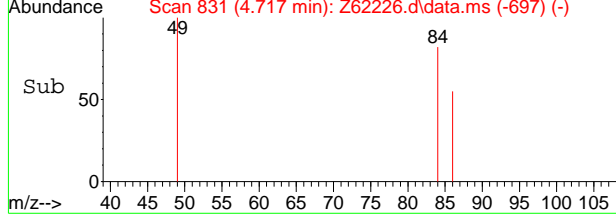
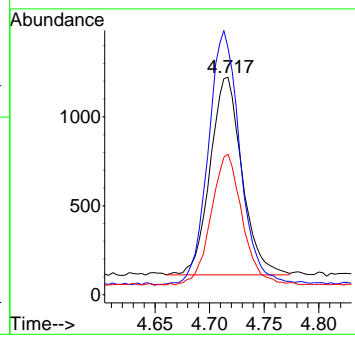
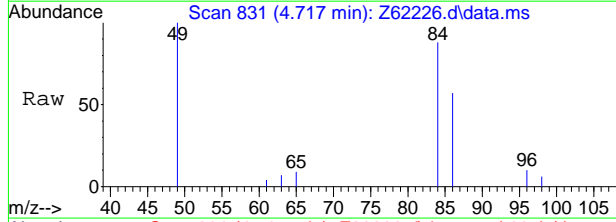




#5  
 Methylene Chloride  
 Concen: 0.12 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62226.d  
 Acq: 12 Sep 2020 12:23 am

Tgt Ion: 84 Resp: 22679

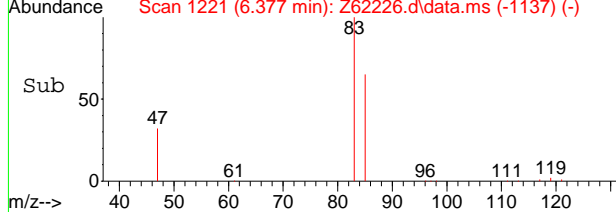
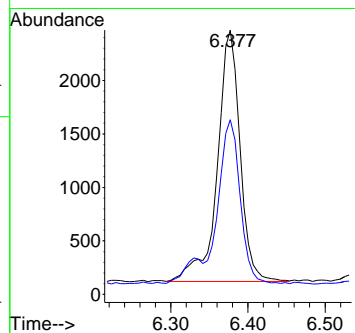
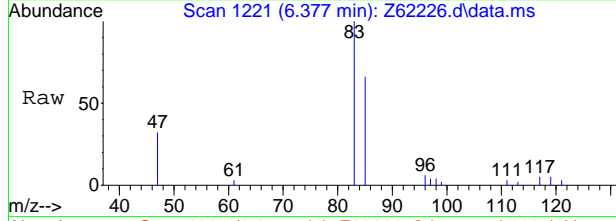
Ion	Ratio	Lower	Upper
84	100		
49	119.2	128.7	168.7#
86	66.2	43.9	83.9



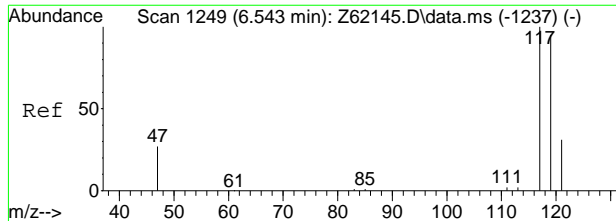
#9  
 Chloroform  
 Concen: 0.17 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62226.d  
 Acq: 12 Sep 2020 12:23 am

Tgt Ion: 83 Resp: 48348

Ion	Ratio	Lower	Upper
83	100		
85	60.3	46.1	86.1

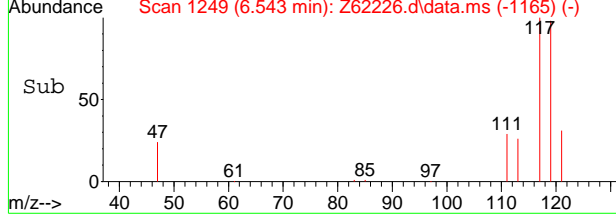
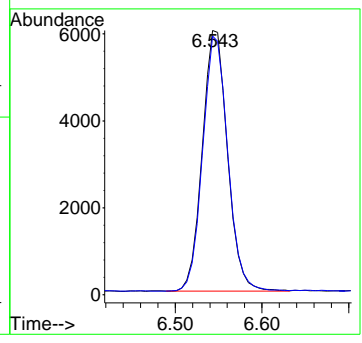
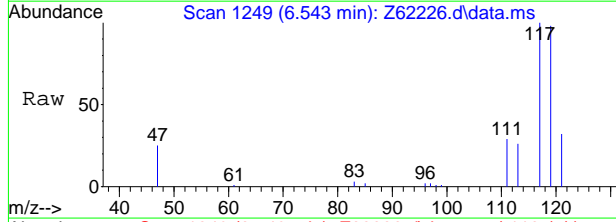


7.18  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.64 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. 0.000 min  
 Lab File: Z62226.d  
 Acq: 12 Sep 2020 12:23 am

Tgt Ion	Resp	Lower	Upper
117	120827		
117	100		
119	97.9	75.5	115.5



7.1.8  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
Data File : Z62227.d  
Acq On : 12 Sep 2020 12:42 am  
Operator : SHANICAO  
Sample : FA78573-9  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 02:08:54 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1843152	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1460473	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	587209	5.15	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.00%	
19) Toluene-d8	8.961	98	1809666	5.10	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%	
Target Compounds							
5) Methylene Chloride	4.713	84	22309	0.12	ppb		Qvalue 89
9) Chloroform	6.377	83	45052	0.16	ppb		99
10) Carbon Tetrachloride	6.543	117	120148	0.64	ppb		96
-----							

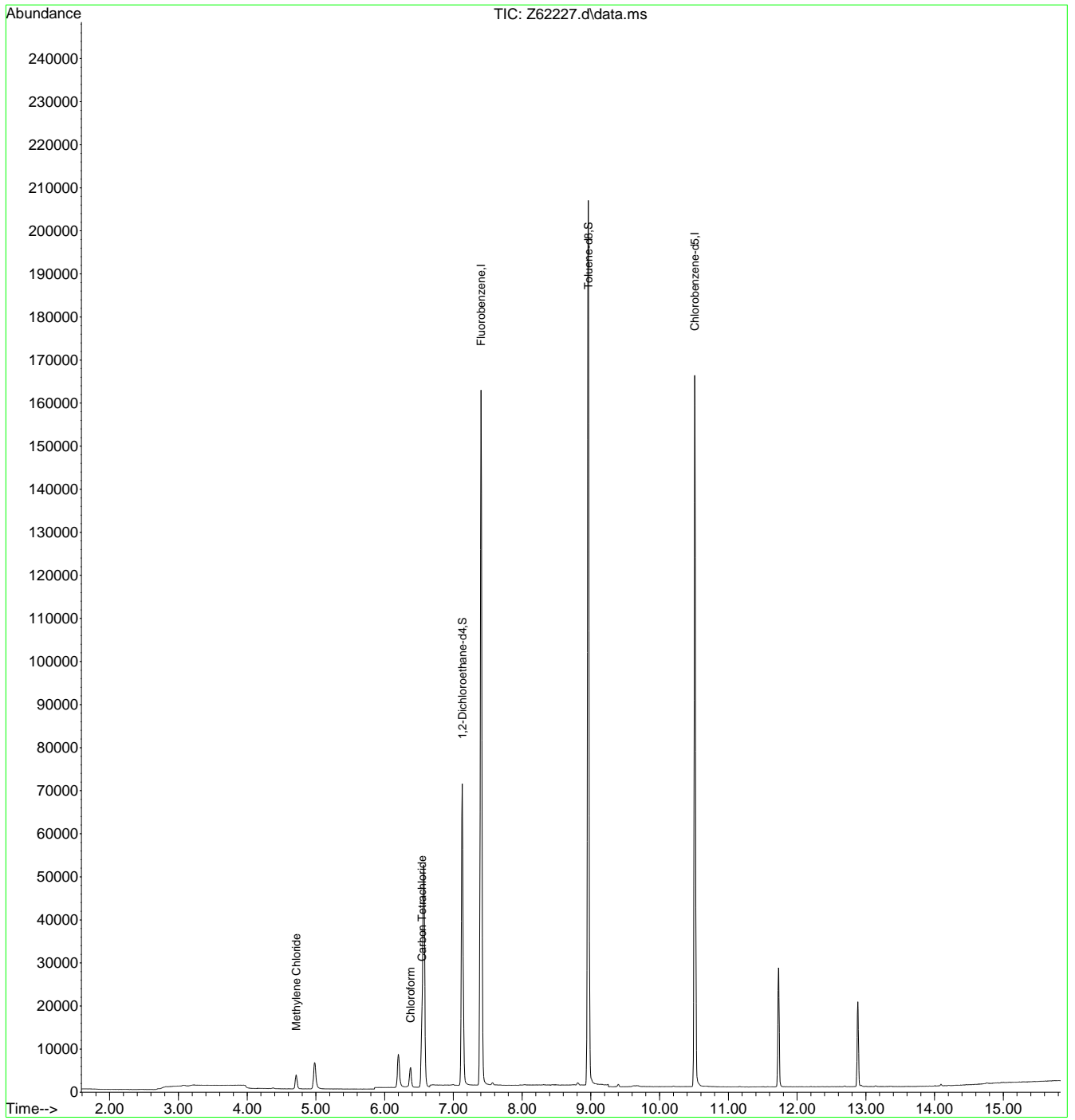
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.9  
7

Quantitation Report (QT Reviewed)

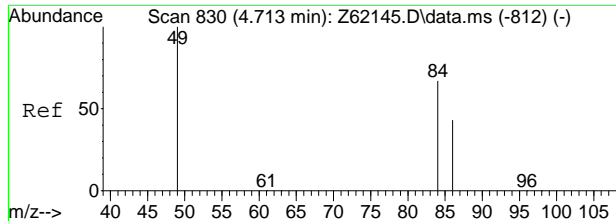
Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62227.d  
Acq On : 12 Sep 2020 12:42 am  
Operator : SHANICAO  
Sample : FA78573-9  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 02:08:54 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.19

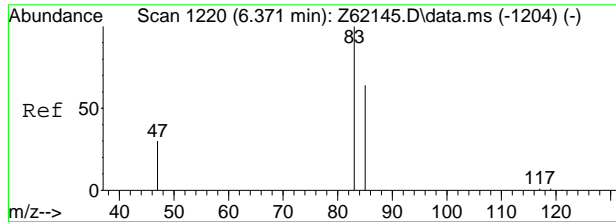
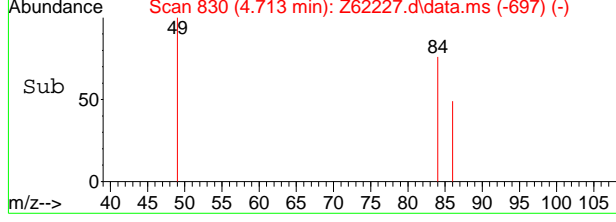
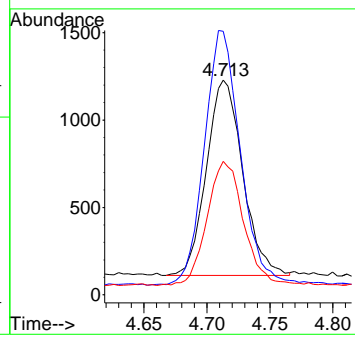
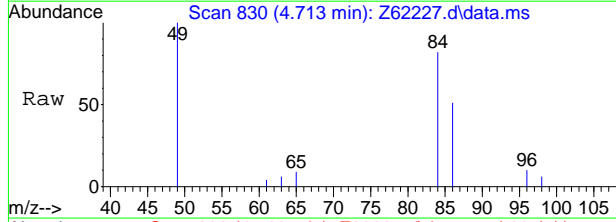




#5  
 Methylene Chloride  
 Concen: 0.12 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62227.d  
 Acq: 12 Sep 2020 12:42 am

Tgt Ion: 84 Resp: 22309

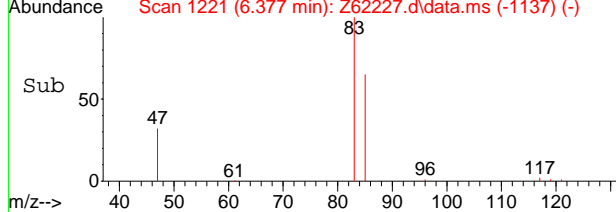
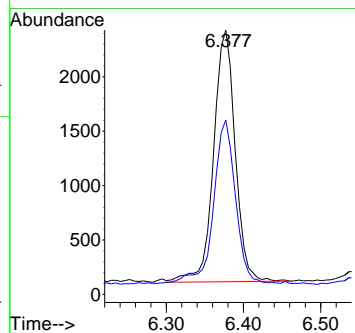
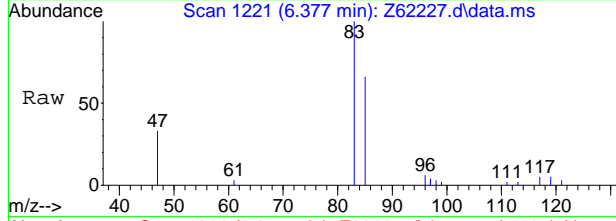
Ion	Ratio	Lower	Upper
84	100		
49	129.6	128.7	168.7
86	62.8	43.9	83.9



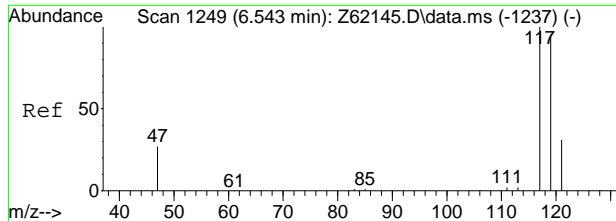
#9  
 Chloroform  
 Concen: 0.16 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62227.d  
 Acq: 12 Sep 2020 12:42 am

Tgt Ion: 83 Resp: 45052

Ion	Ratio	Lower	Upper
83	100		
85	65.4	46.1	86.1

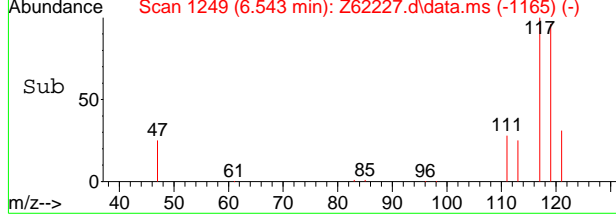
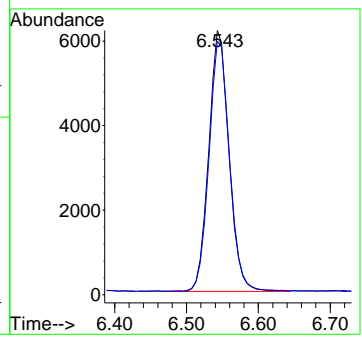
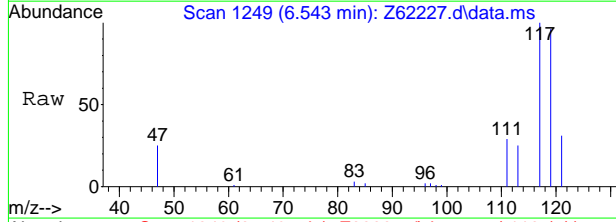


7.19  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.64 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62227.d  
 Acq: 12 Sep 2020 12:42 am

Tgt Ion:	117	Resp:	120148
Ion	Ratio	Lower	Upper
117	100		
119	99.3	75.5	115.5



7.1.9  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62228.d  
Acq On : 12 Sep 2020 1:02 am  
Operator : SHANICAO  
Sample : FA78573-10  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 14 02:08:56 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1814592	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1448562	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	579684	5.16	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.20%	
19) Toluene-d8	8.961	98	1792497	5.10	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%	
Target Compounds							
5) Methylene Chloride	4.717	84	23713	0.13	ppb	89	Qvalue
9) Chloroform	6.377	83	15684	0.06	ppb	97	
10) Carbon Tetrachloride	6.543	117	40008	0.22	ppb	98	
14) 1,2-Dichloroethane	7.198	62	18150	0.10	ppb	97	
15) Trichloroethene	7.571	95	101193	0.65	ppb	87	
-----							

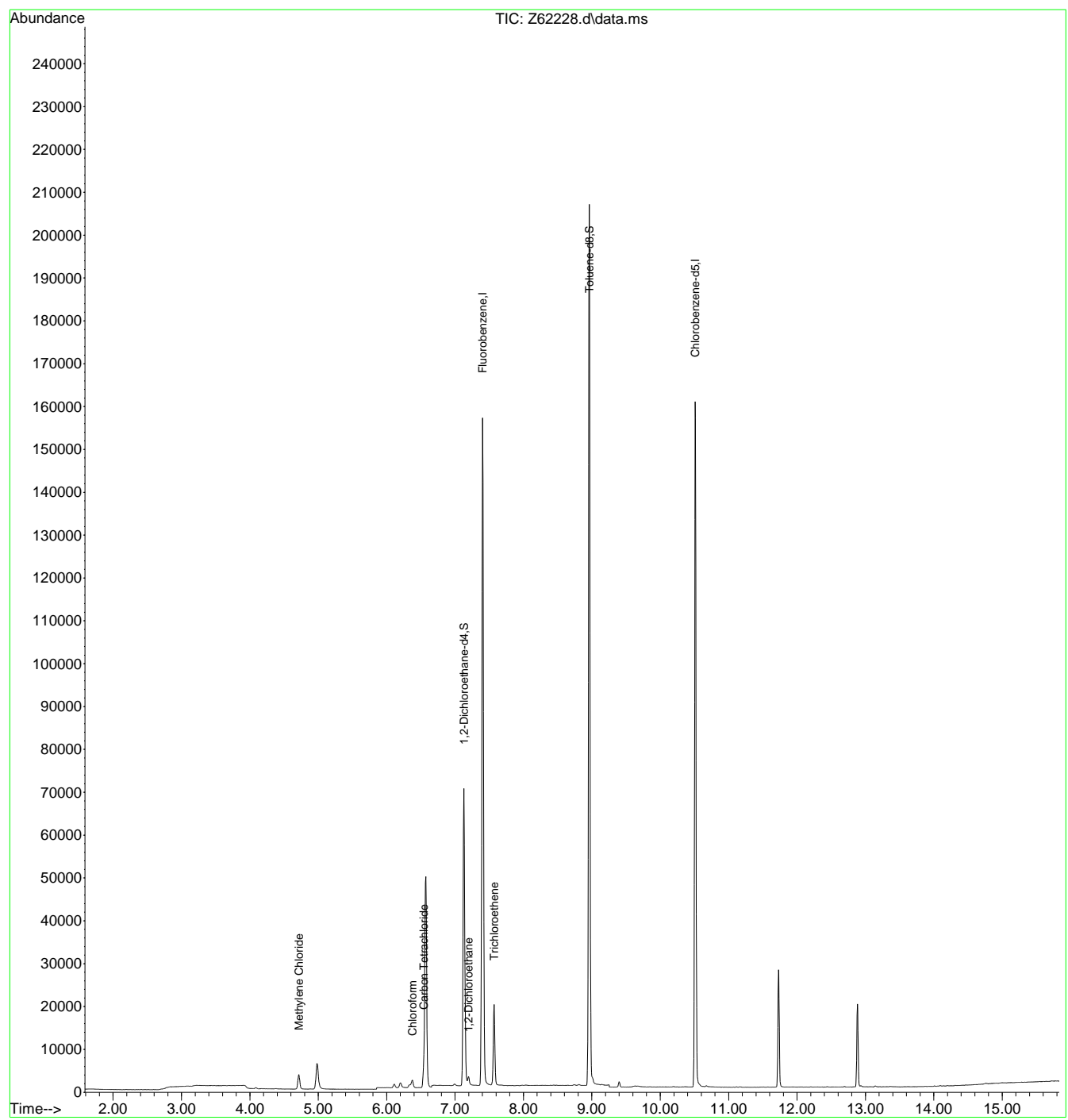
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.10  
7

Quantitation Report (QT Reviewed)

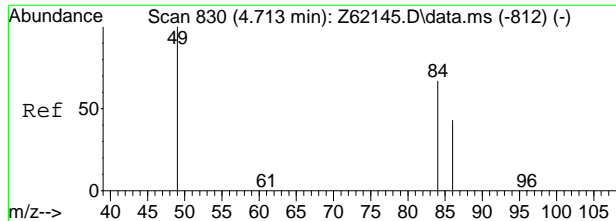
Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
Data File : Z62228.d  
Acq On : 12 Sep 2020 1:02 am  
Operator : SHANICAO  
Sample : FA78573-10  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 14 02:08:56 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.10  
7

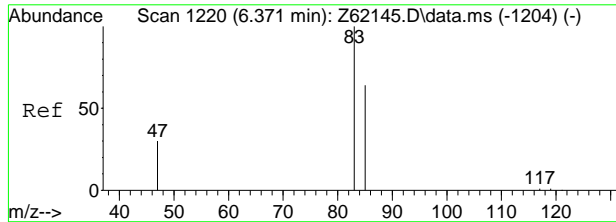
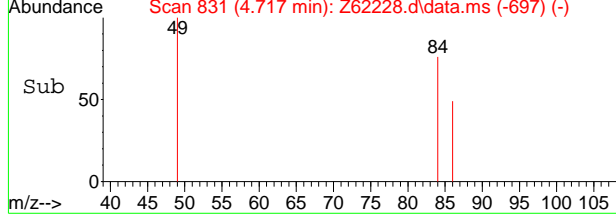
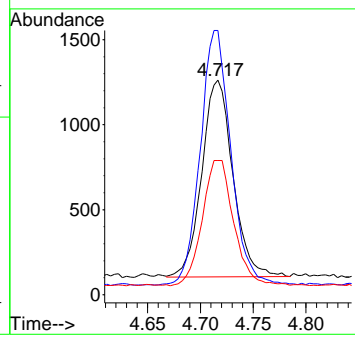
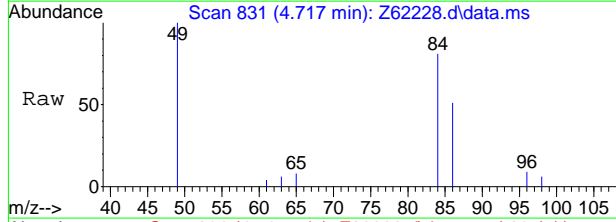




#5  
 Methylene Chloride  
 Concen: 0.13 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62228.d  
 Acq: 12 Sep 2020 1:02 am

Tgt Ion: 84 Resp: 23713

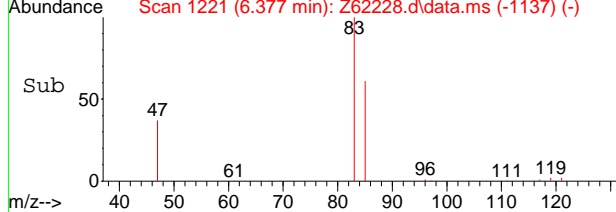
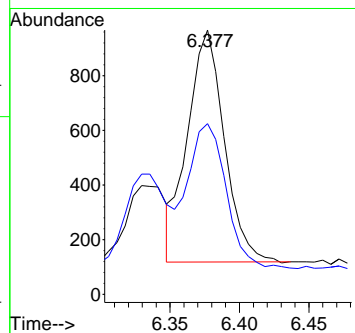
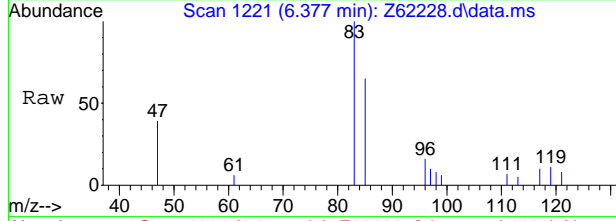
Ion	Ratio	Lower	Upper
84	100		
49	129.0	128.7	168.7
86	63.4	43.9	83.9



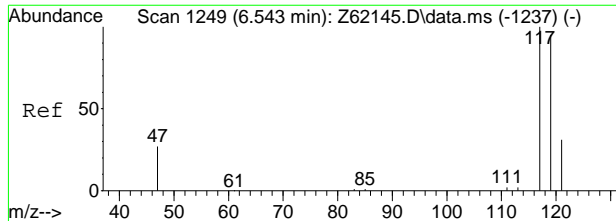
#9  
 Chloroform  
 Concen: 0.06 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62228.d  
 Acq: 12 Sep 2020 1:02 am

Tgt Ion: 83 Resp: 15684

Ion	Ratio	Lower	Upper
83	100		
85	63.9	46.1	86.1

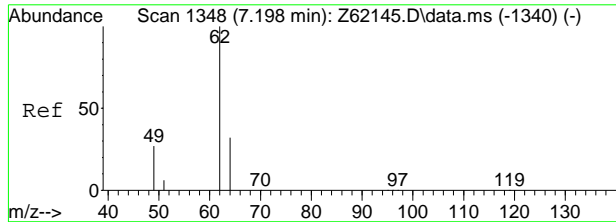
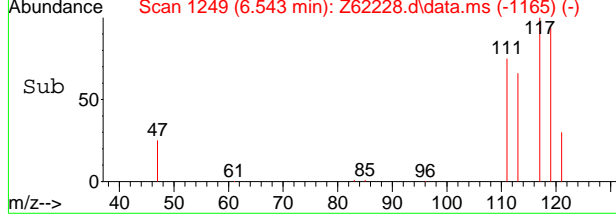
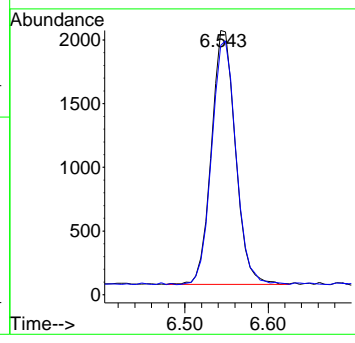
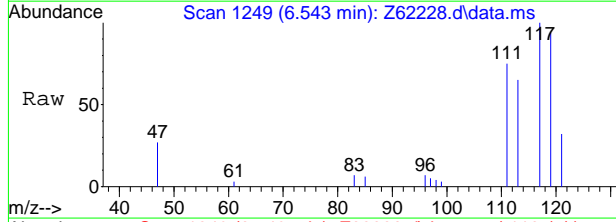


7.1.10  
7



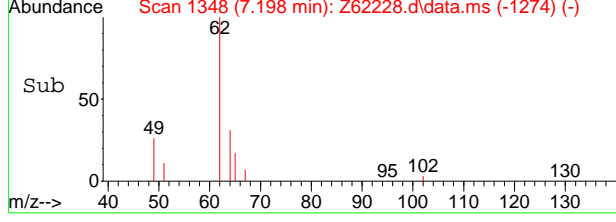
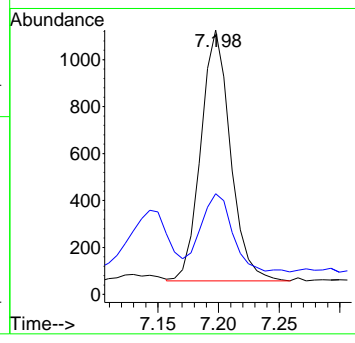
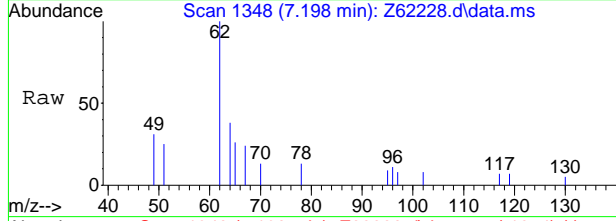
#10  
 Carbon Tetrachloride  
 Concen: 0.22 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62228.d  
 Acq: 12 Sep 2020 1:02 am

Tgt Ion	Resp	Lower	Upper
117	40008		
117	100		
119	97.2	75.5	115.5

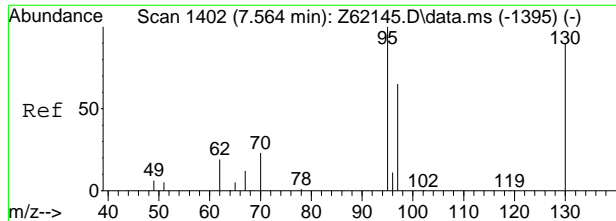


#14  
 1,2-Dichloroethane  
 Concen: 0.10 ppb  
 RT: 7.198 min Scan# 1348  
 Delta R.T. -0.000 min  
 Lab File: Z62228.d  
 Acq: 12 Sep 2020 1:02 am

Tgt Ion	Resp	Lower	Upper
62	18150		
62	100		
64	34.2	12.3	52.3



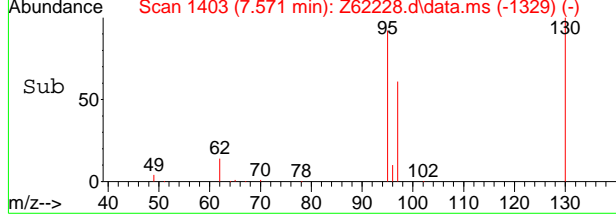
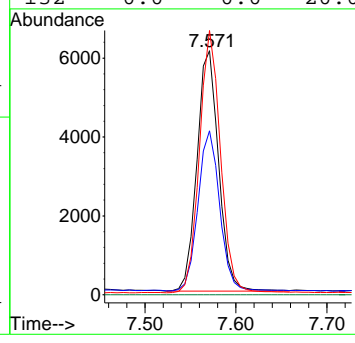
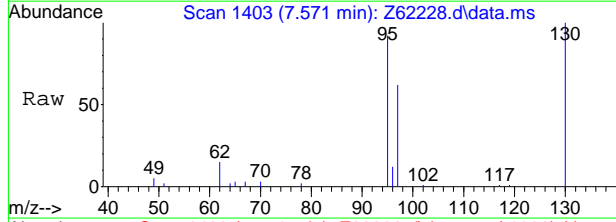
7.1.10  
7



#15  
 Trichloroethene  
 Concen: 0.65 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. -0.000 min  
 Lab File: Z62228.d  
 Acq: 12 Sep 2020 1:02 am

Tgt Ion: 95 Resp: 101193

Ion	Ratio	Lower	Upper
95	100		
97	66.5	44.5	84.5
130	109.1	69.7	109.7
132	0.0	0.0	20.0



7.1.10  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
 Data File : Z62229.d  
 Acq On : 12 Sep 2020 1:21 am  
 Operator : SHANICAO  
 Sample : FA78573-11  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 14 02:08:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1760716	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1392581	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	561946	5.16	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.20%	
19) Toluene-d8	8.961	98	1729042	5.11	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%	
Target Compounds							
5) Methylene Chloride	4.717	84	21562	0.12	ppb		Qvalue # 88
9) Chloroform	6.377	83	51841	0.20	ppb		90
15) Trichloroethene	7.571	95	34821	0.23	ppb		85
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

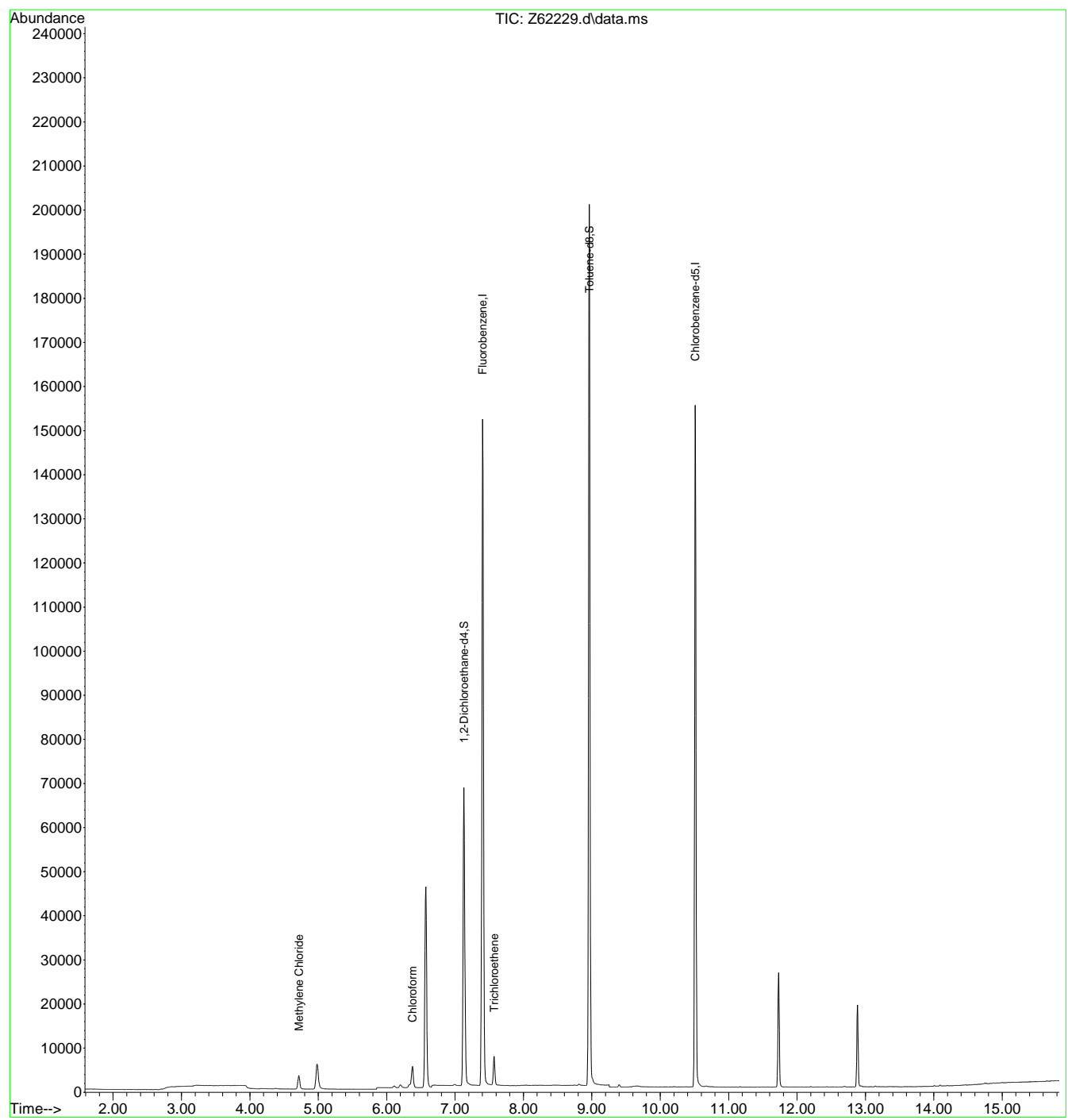
7.1.11  
7



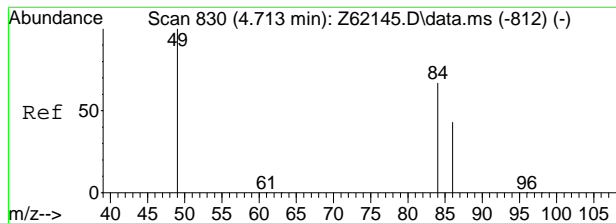
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
Data File : Z62229.d  
Acq On : 12 Sep 2020 1:21 am  
Operator : SHANICAO  
Sample : FA78573-11  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 14 02:08:58 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

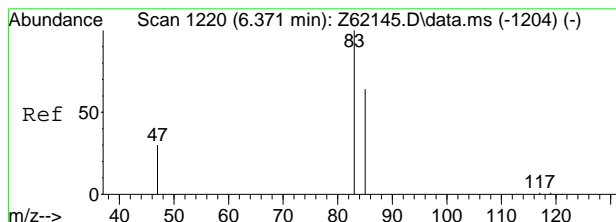
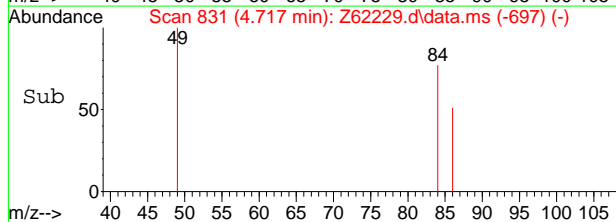
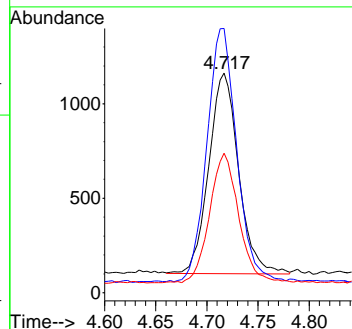
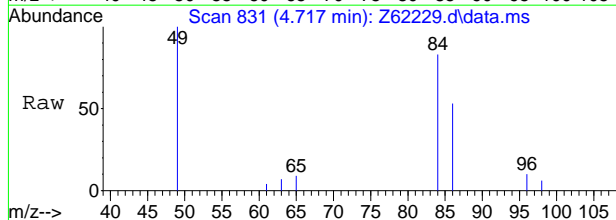


7.1.11  
7



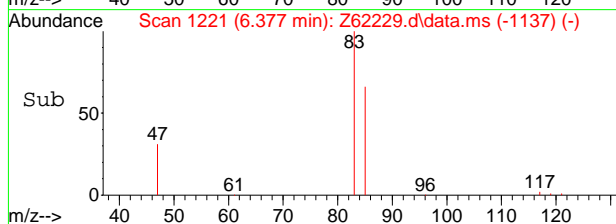
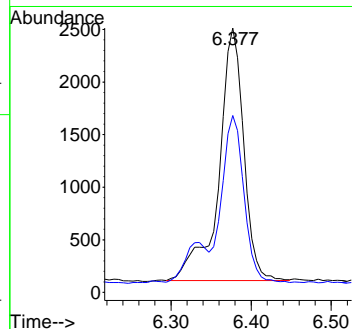
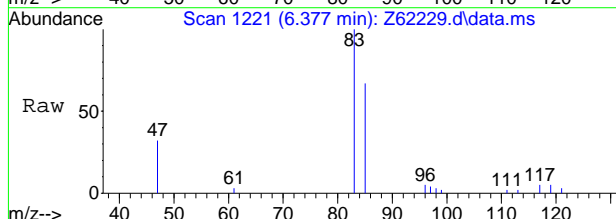
#5  
 Methylene Chloride  
 Concen: 0.12 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62229.d  
 Acq: 12 Sep 2020 1:21 am

Tgt Ion	Resp	Lower	Upper
84	21562		
84	100		
49	126.6	128.7	168.7#
86	64.5	43.9	83.9

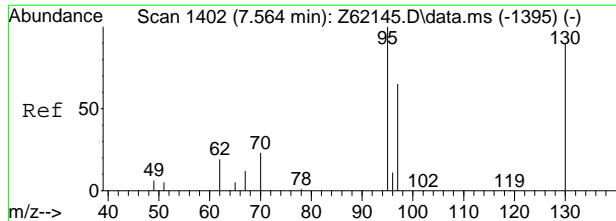


#9  
 Chloroform  
 Concen: 0.20 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62229.d  
 Acq: 12 Sep 2020 1:21 am

Tgt Ion	Resp	Lower	Upper
83	51841		
83	100		
85	58.0	46.1	86.1

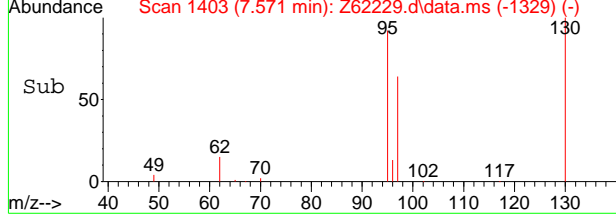
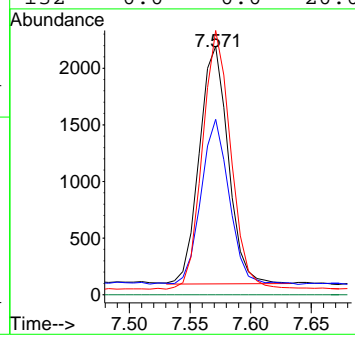
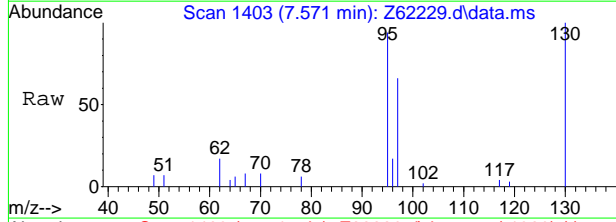


7.1.11  
7



#15  
 Trichloroethene  
 Concen: 0.23 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62229.d  
 Acq: 12 Sep 2020 1:21 am

Tgt Ion	Ratio	Lower	Upper
95	100		
97	69.2	44.5	84.5
130	109.2	69.7	109.7
132	0.0	0.0	20.0



7.1.11  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62230.D  
 Acq On : 12 Sep 2020 1:40 am  
 Operator : SHANICAO  
 Sample : FA78573-12  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 13 13:41:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1869681	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1478666	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	597346	5.16	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.20%
19) Toluene-d8	8.961	98	1831633	5.10	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
5) Methylene Chloride	4.717	84	21890	0.12	ppb	Qvalue # 87
9) Chloroform	6.377	83	56043	0.20	ppb	90
10) Carbon Tetrachloride	6.543	117	92569	0.49	ppb	97
15) Trichloroethene	7.571	95	8300	0.05	ppb	92
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.12  
7

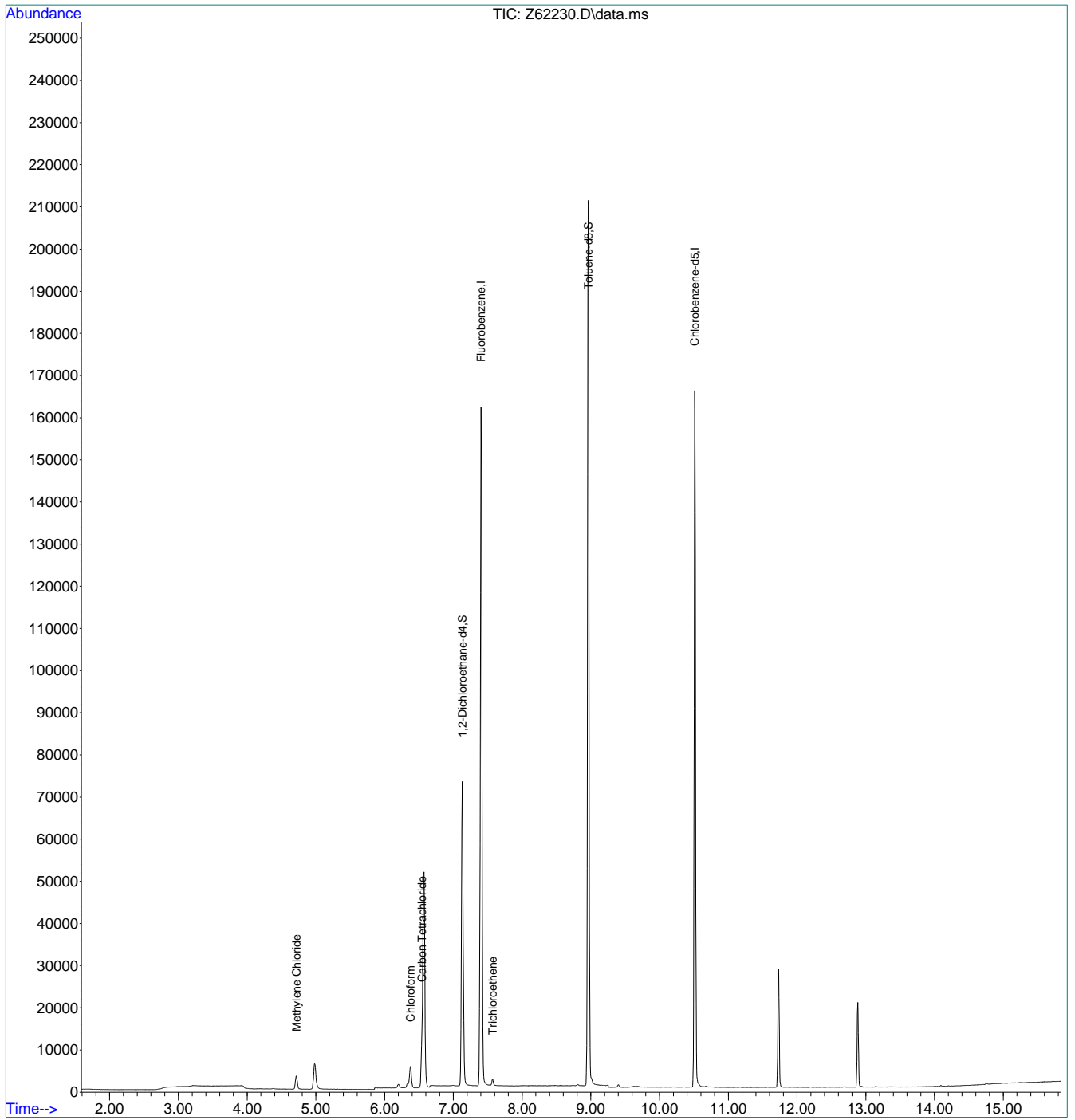




Quantitation Report (QT Reviewed)

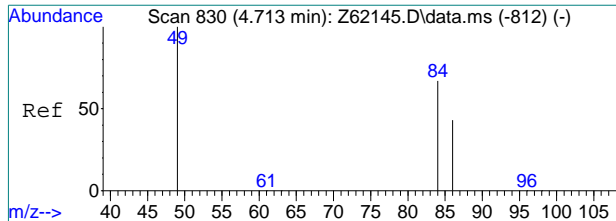
Data Path : C:\msdchem\1\data\091120\  
Data File : Z62230.D  
Acq On : 12 Sep 2020 1:40 am  
Operator : SHANICAO  
Sample : FA78573-12  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 13 13:41:32 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



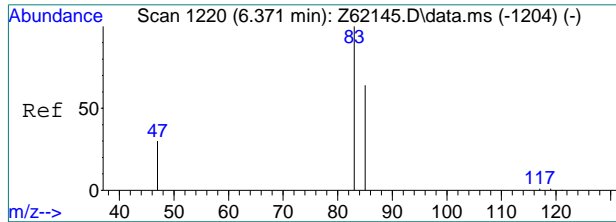
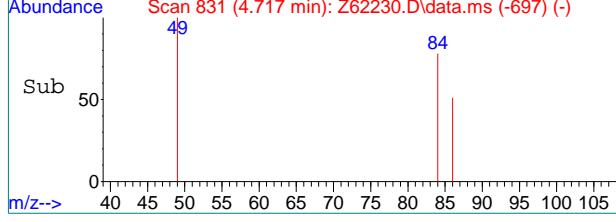
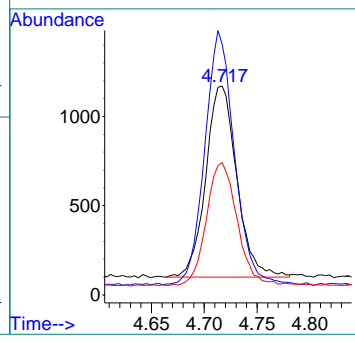
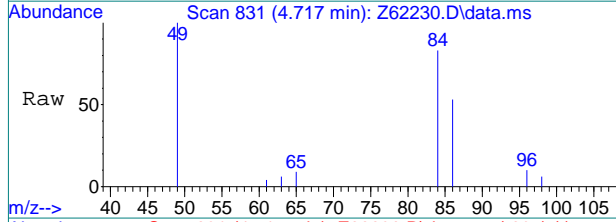
7.1.12  
7





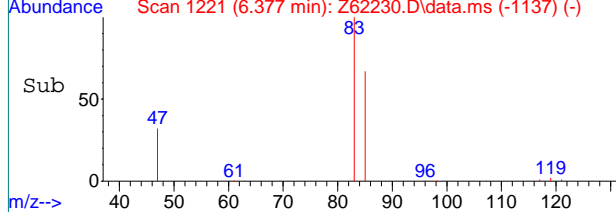
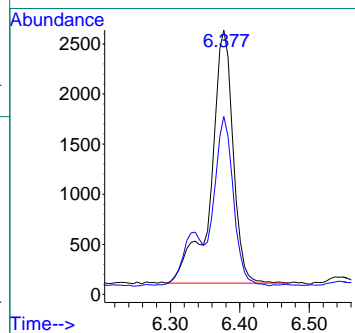
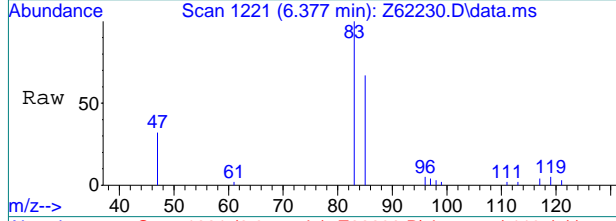
#5  
 Methylene Chloride  
 Concen: 0.12 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62230.D  
 Acq: 12 Sep 2020 1:40 am

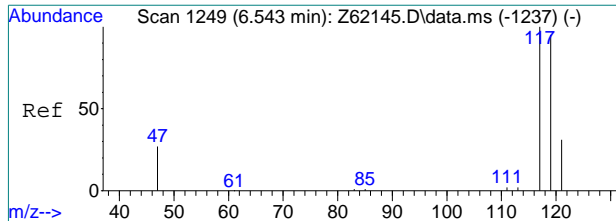
Tgt Ion	Resp	Lower	Upper
84	21890		
49	125.5	128.7	168.7#
86	64.5	43.9	83.9



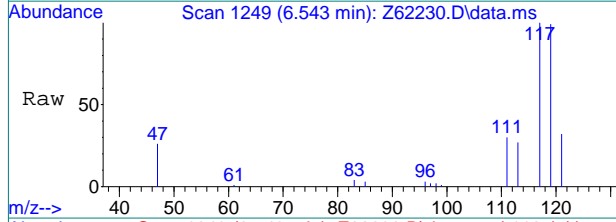
#9  
 Chloroform  
 Concen: 0.20 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62230.D  
 Acq: 12 Sep 2020 1:40 am

Tgt Ion	Resp	Lower	Upper
83	56043		
83	100		
85	57.8	46.1	86.1

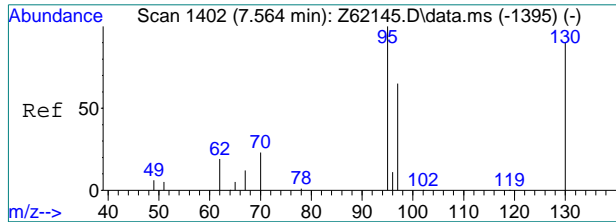
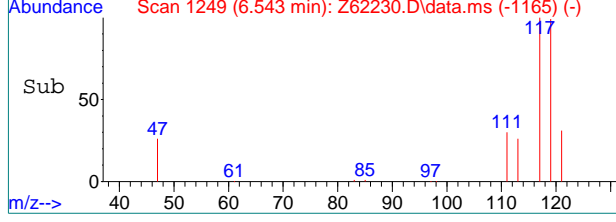
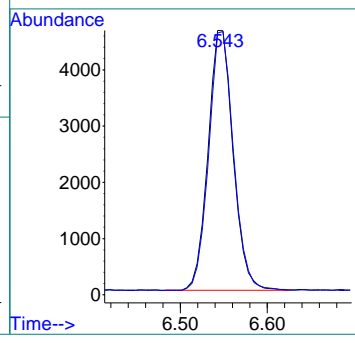




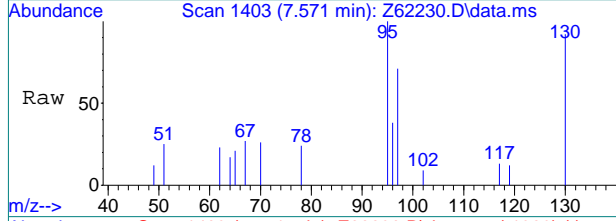
#10  
 Carbon Tetrachloride  
 Concen: 0.49 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62230.D  
 Acq: 12 Sep 2020 1:40 am



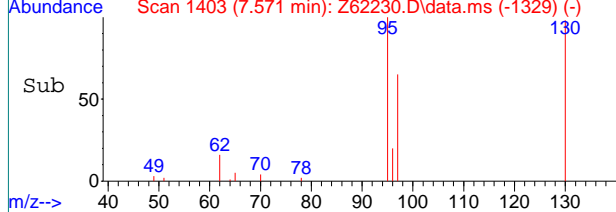
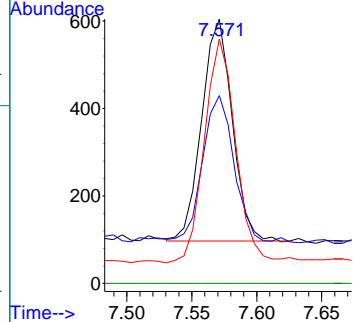
Tgt Ion: 117 Resp: 92569  
 Ion Ratio Lower Upper  
 117 100  
 119 98.8 75.5 115.5



#15  
 Trichloroethene  
 Concen: 0.05 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62230.D  
 Acq: 12 Sep 2020 1:40 am



Tgt Ion: 95 Resp: 8300  
 Ion Ratio Lower Upper  
 95 100  
 97 65.9 44.5 84.5  
 130 100.8 69.7 109.7  
 132 0.0 0.0 20.0



7.1.12  
 7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62231.D  
 Acq On : 12 Sep 2020 2:00 am  
 Operator : SHANICAO  
 Sample : FA78573-13  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 13 13:41:34 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1890573	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1499030	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	605128	5.17	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.40%
19) Toluene-d8	8.961	98	1856924	5.10	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
5) Methylene Chloride	4.717	84	22366	0.12	ppb	Qvalue # 87
9) Chloroform	6.377	83	36476	0.13	ppb	90
10) Carbon Tetrachloride	6.549	117	32592	0.17	ppb	97
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

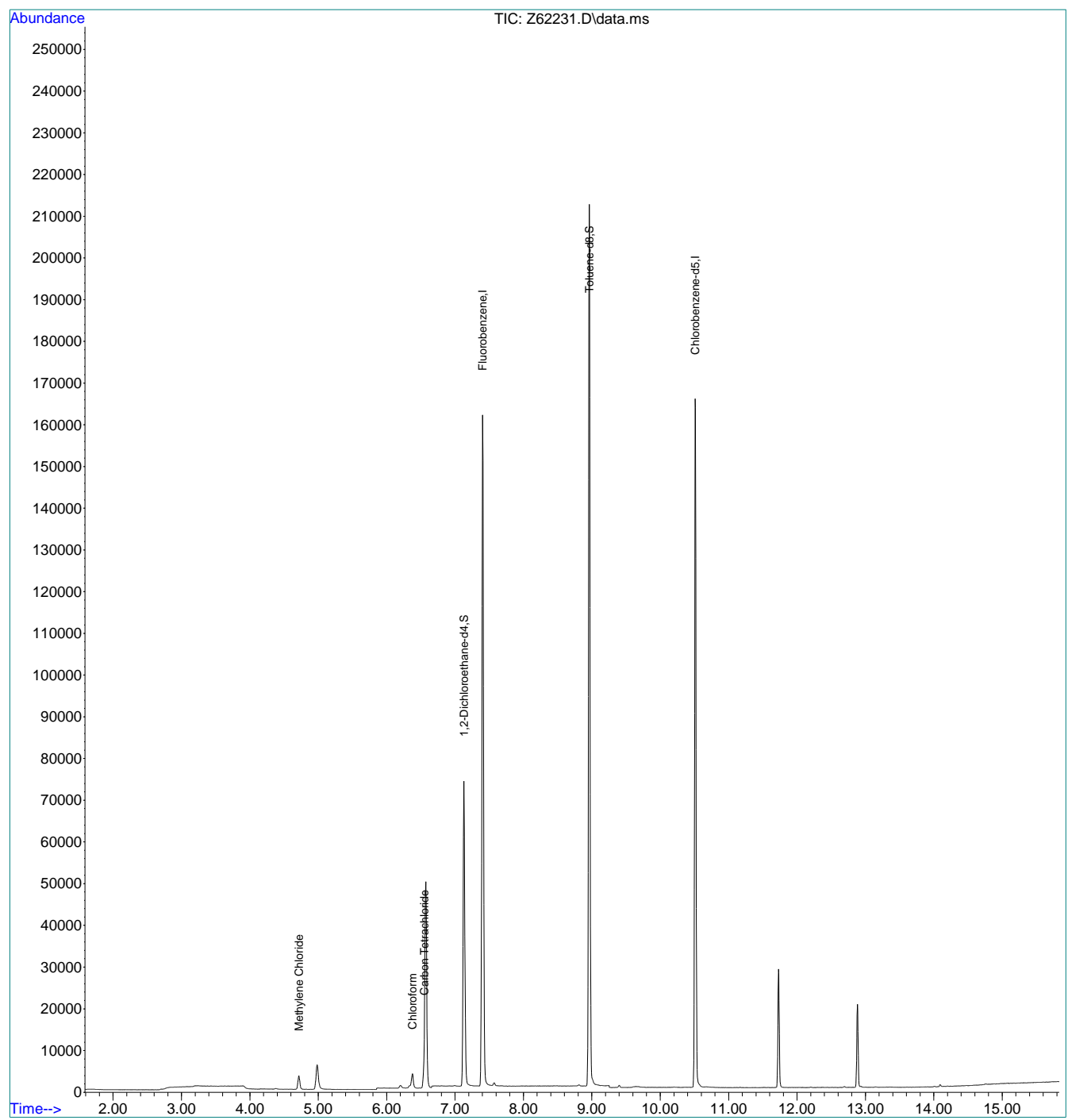
7.1.13  
7



Quantitation Report (QT Reviewed)

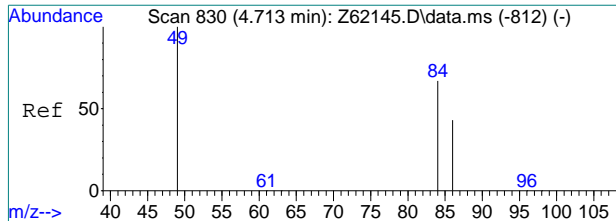
Data Path : C:\msdchem\1\data\091120\  
Data File : Z62231.D  
Acq On : 12 Sep 2020 2:00 am  
Operator : SHANICAO  
Sample : FA78573-13  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 13 13:41:34 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



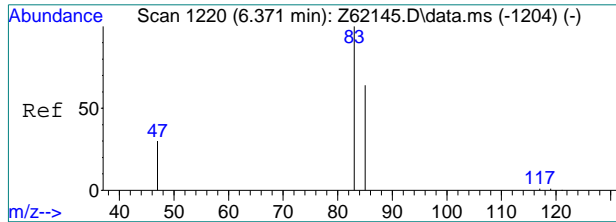
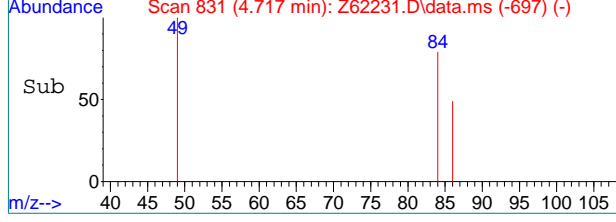
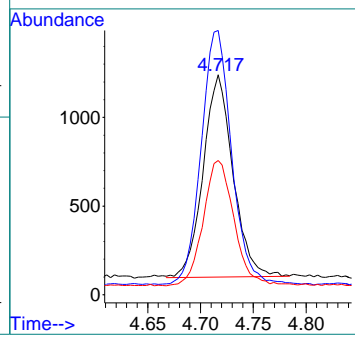
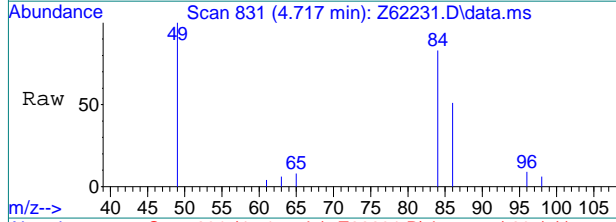
7.1.13  
7





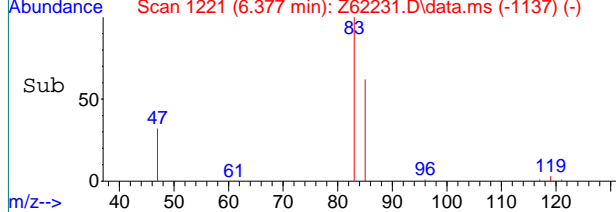
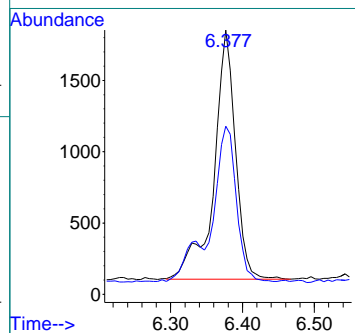
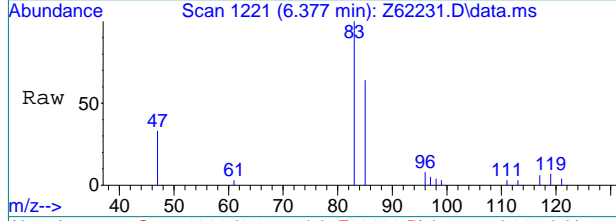
#5  
 Methylene Chloride  
 Concen: 0.12 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62231.D  
 Acq: 12 Sep 2020 2:00 am

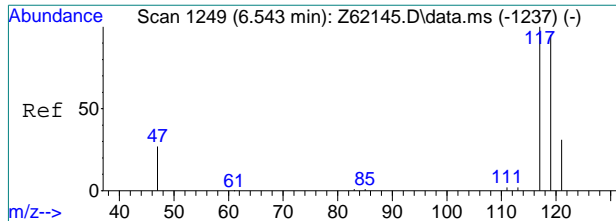
Tgt Ion	Resp	Lower	Upper
84	22366		
49	126.0	128.7	168.7#
86	62.2	43.9	83.9



#9  
 Chloroform  
 Concen: 0.13 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62231.D  
 Acq: 12 Sep 2020 2:00 am

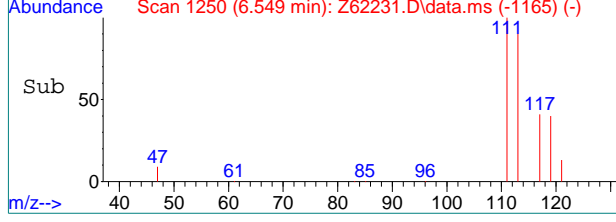
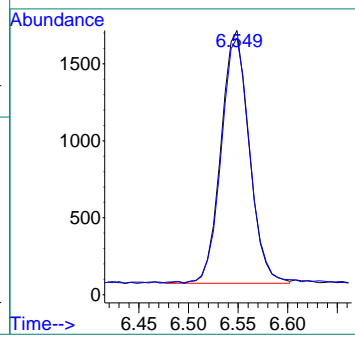
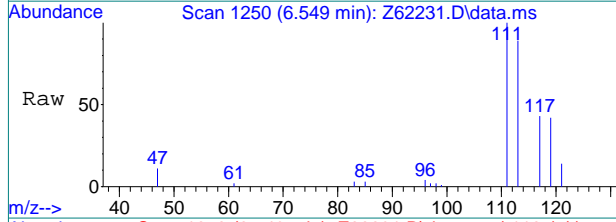
Tgt Ion	Resp	Lower	Upper
83	36476		
83	100		
85	58.3	46.1	86.1





#10  
Carbon Tetrachloride  
Concen: 0.17 ppb  
RT: 6.549 min Scan# 1250  
Delta R.T. 0.006 min  
Lab File: Z62231.D  
Acq: 12 Sep 2020 2:00 am

Tgt Ion:	117	Resp:	32592
Ion	Ratio	Lower	Upper
117	100		
119	98.2	75.5	115.5



7.1.13  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
 Data File : Z62232.d  
 Acq On : 12 Sep 2020 2:19 am  
 Operator : SHANICAO  
 Sample : FA78573-14  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 02:09:04 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1848069	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1462295	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	593566	5.19	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.80%
19) Toluene-d8	8.961	98	1809825	5.10	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
5) Methylene Chloride	4.717	84	21936	0.12	ppb	Qvalue # 86
9) Chloroform	6.377	83	14190	0.05	ppb	97
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.14  
7

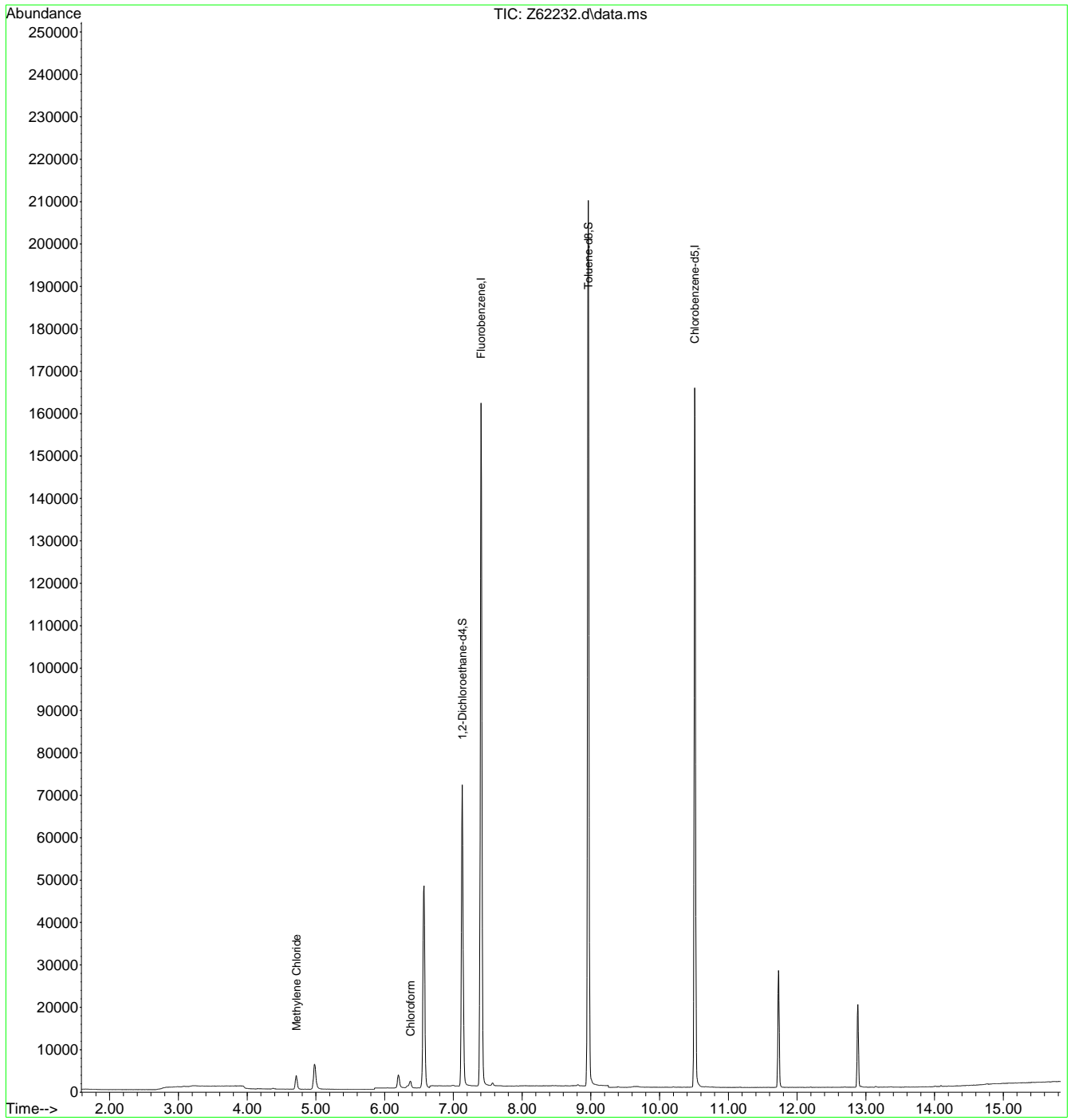




Quantitation Report (QT Reviewed)

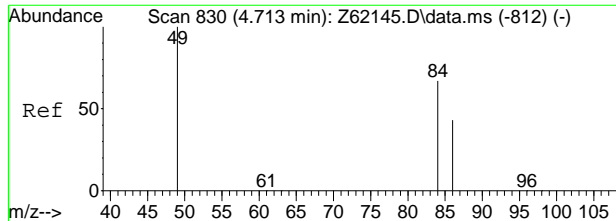
Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
Data File : Z62232.d  
Acq On : 12 Sep 2020 2:19 am  
Operator : SHANICAO  
Sample : FA78573-14  
Misc : MS47183,VZ2414,,,,,  
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 02:09:04 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.14  
7

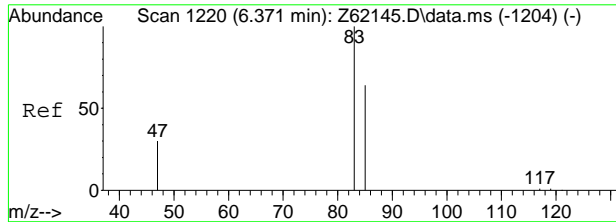
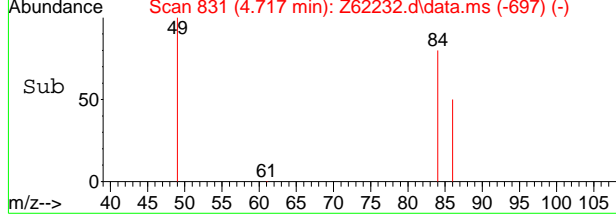
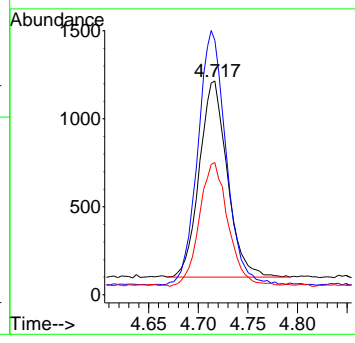
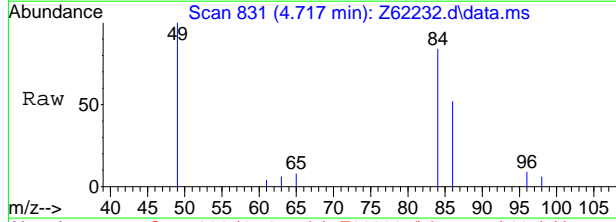




#5  
 Methylene Chloride  
 Concen: 0.12 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62232.d  
 Acq: 12 Sep 2020 2:19 am

Tgt Ion: 84 Resp: 21936

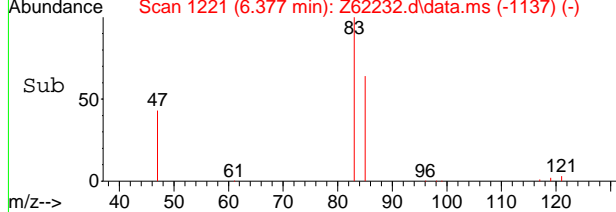
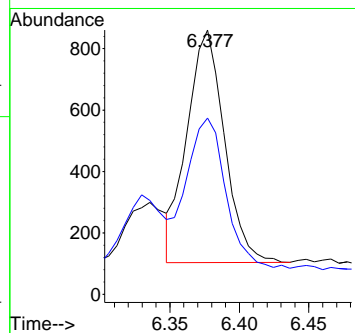
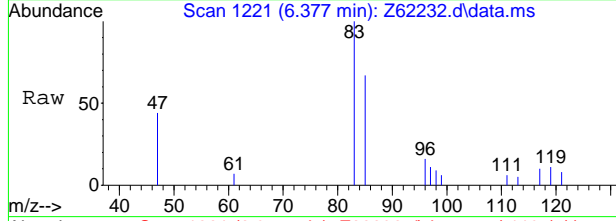
Ion	Ratio	Lower	Upper
84	100		
49	124.4	128.7	168.7#
86	62.6	43.9	83.9



#9  
 Chloroform  
 Concen: 0.05 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62232.d  
 Acq: 12 Sep 2020 2:19 am

Tgt Ion: 83 Resp: 14190

Ion	Ratio	Lower	Upper
83	100		
85	68.7	46.1	86.1



7.1.14  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62243.d  
Acq On : 12 Sep 2020 12:30 pm  
Operator : stutip  
Sample : fa78573-15  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 14 06:27:25 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2059475	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1634767	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	643074	5.05	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.00%	
19) Toluene-d8	8.961	98	2032381	5.12	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%	
Target Compounds							
5) Methylene Chloride	4.713	84	29114	0.14	ppb	90	
9) Chloroform	6.377	83	16048	0.05	ppb	96	
-----							

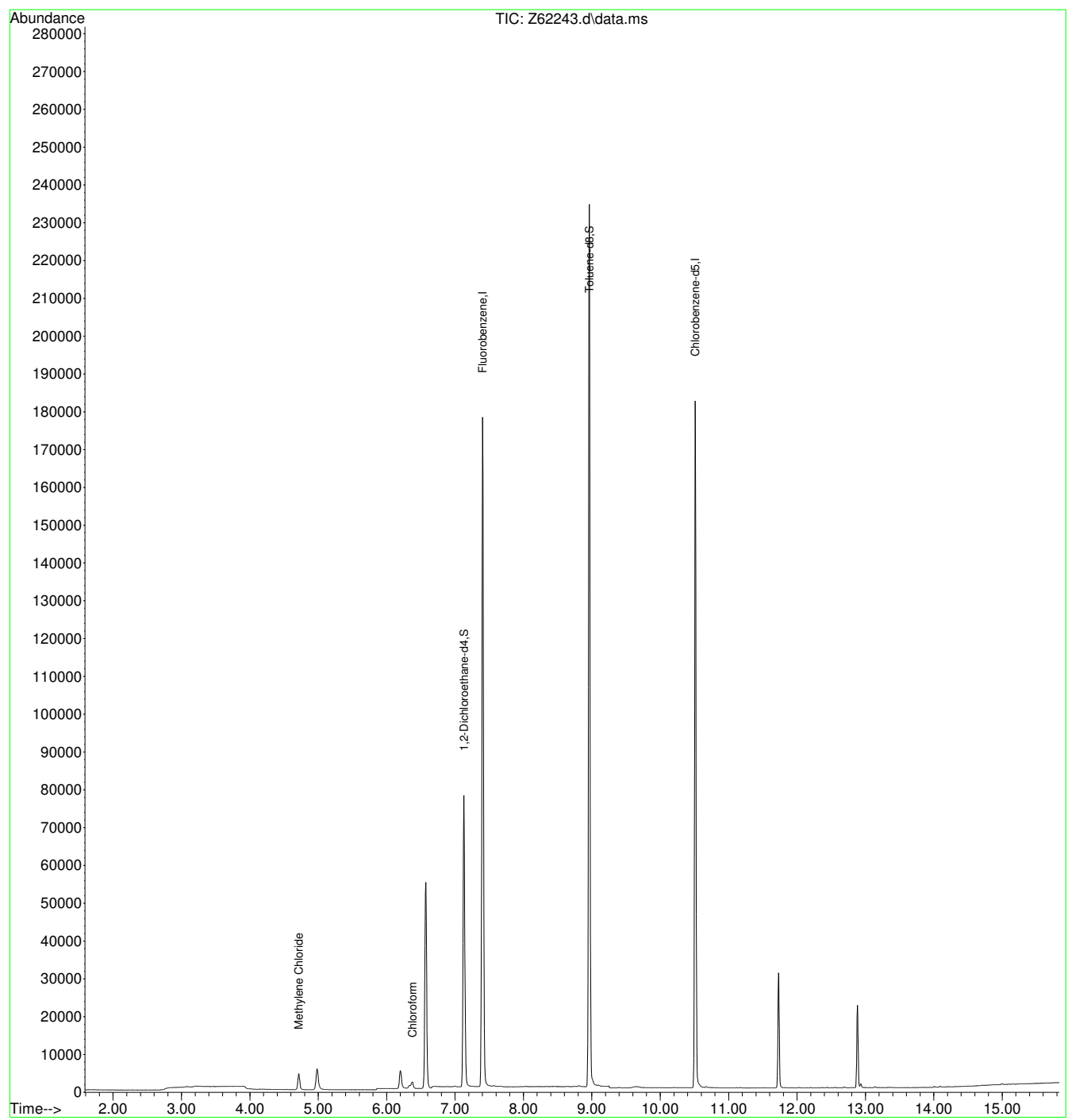
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.15  
7

Quantitation Report (QT Reviewed)

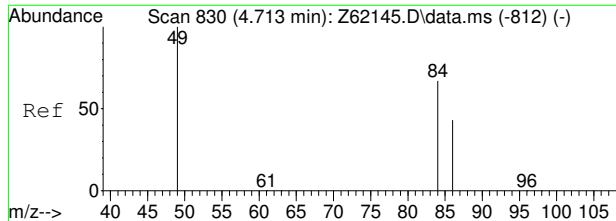
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62243.d  
Acq On : 12 Sep 2020 12:30 pm  
Operator : stutip  
Sample : fa78573-15  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 14 06:27:25 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.15  
7

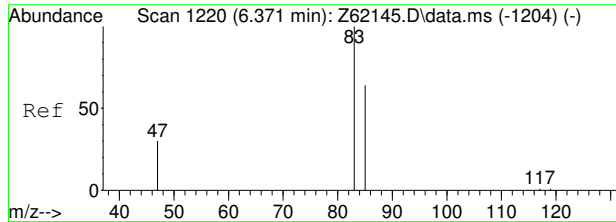
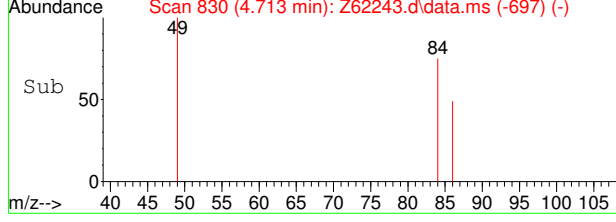
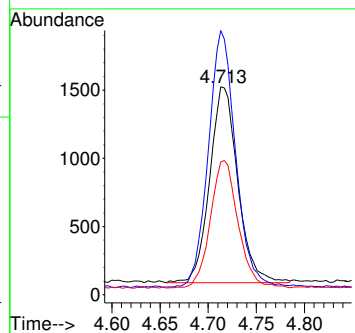
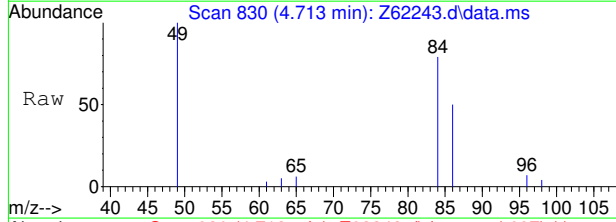




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62243.d  
 Acq: 12 Sep 2020 12:30 pm

Tgt Ion: 84 Resp: 29114

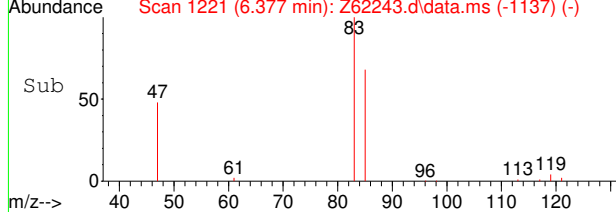
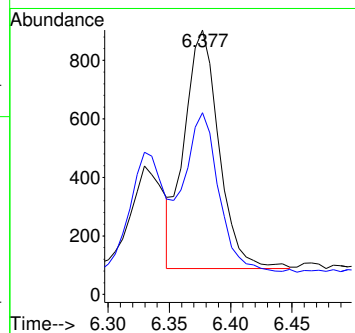
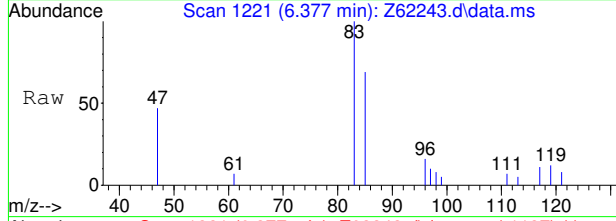
Ion	Ratio	Lower	Upper
84	100		
49	130.8	128.7	168.7
86	64.3	43.9	83.9



#9  
 Chloroform  
 Concen: 0.05 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62243.d  
 Acq: 12 Sep 2020 12:30 pm

Tgt Ion: 83 Resp: 16048

Ion	Ratio	Lower	Upper
83	100		
85	62.6	46.1	86.1



7.1.15  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62244.d  
Acq On : 12 Sep 2020 12:49 pm  
Operator : stutip  
Sample : fa78573-16  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 06:27:28 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1985616	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1581206	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	622403	5.07	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.40%
19) Toluene-d8	8.961	98	1945683	5.07	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
Target Compounds						
5) Methylene Chloride	4.717	84	32848	0.17	ppb	Qvalue # 85
9) Chloroform	6.377	83	21344	0.07	ppb	97
15) Trichloroethene	7.571	95	34735	0.20	ppb	86
-----						

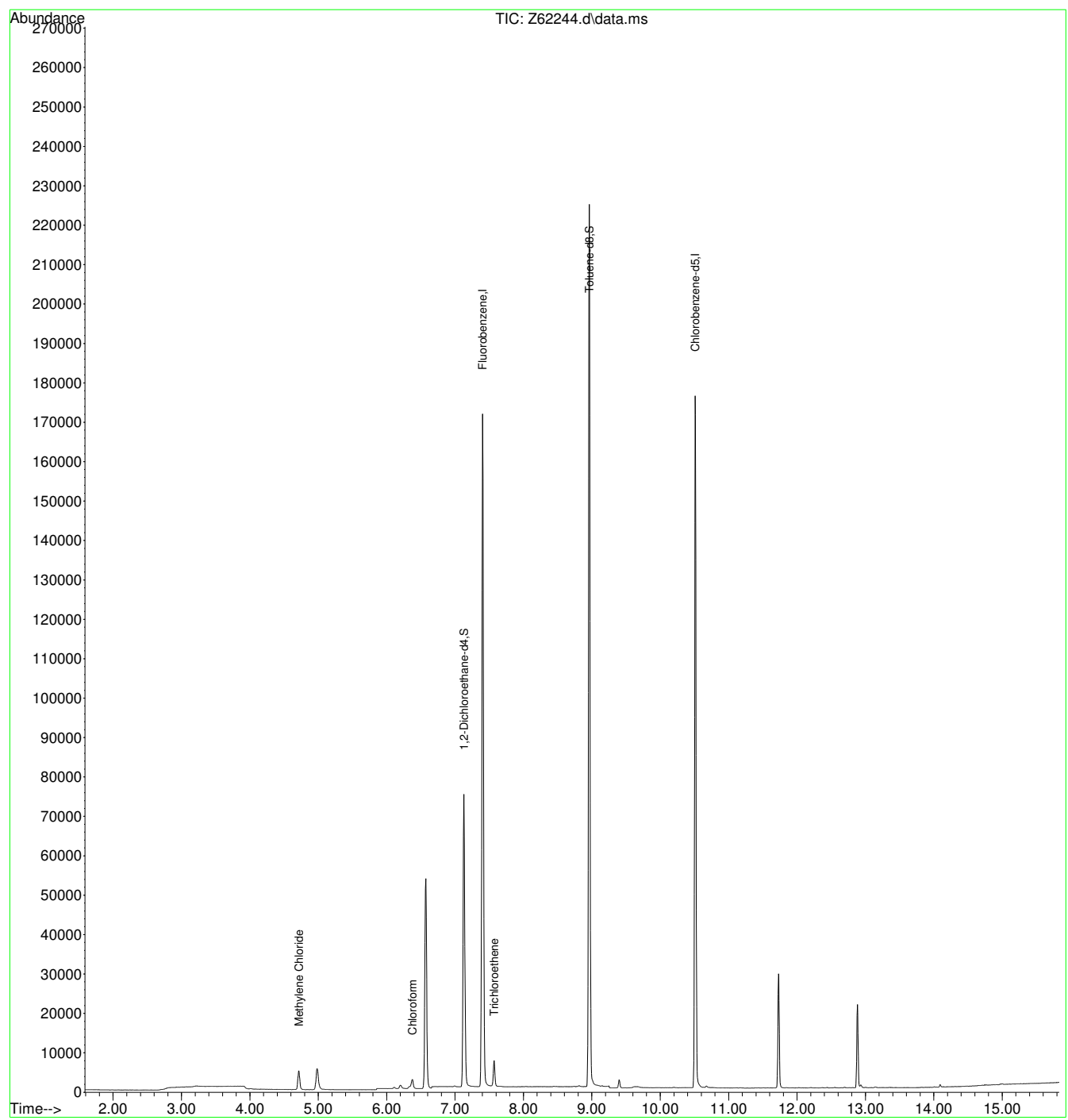
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.16  
7

Quantitation Report (QT Reviewed)

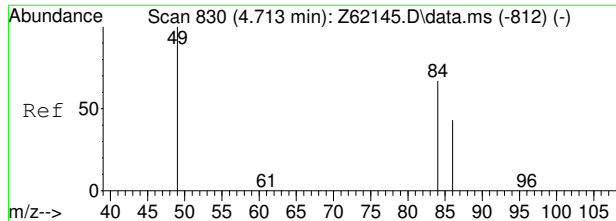
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62244.d  
Acq On : 12 Sep 2020 12:49 pm  
Operator : stutip  
Sample : fa78573-16  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 06:27:28 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



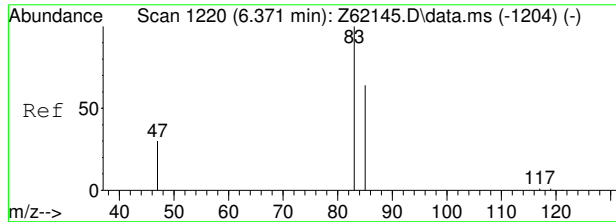
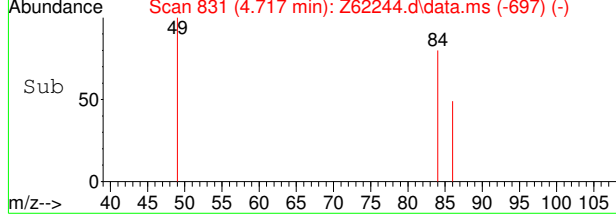
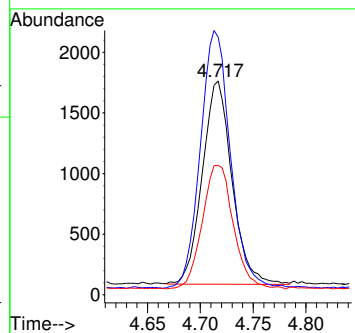
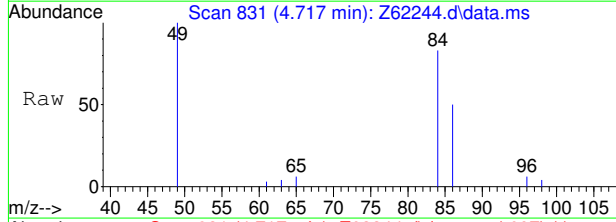
7.1.16  
7





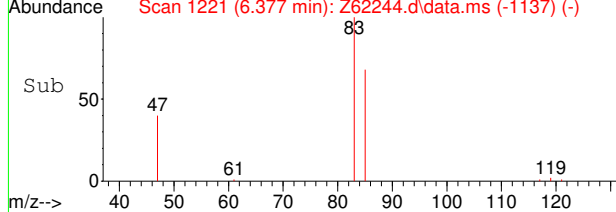
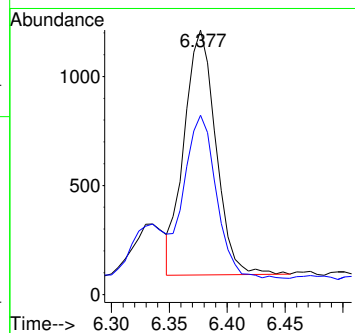
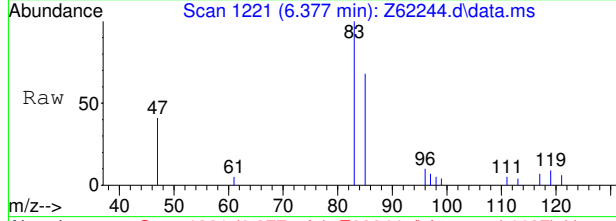
#5  
 Methylene Chloride  
 Concen: 0.17 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62244.d  
 Acq: 12 Sep 2020 12:49 pm

Tgt Ion	Resp	Lower	Upper
84	32848		
49	123.6	128.7	168.7#
86	60.9	43.9	83.9



#9  
 Chloroform  
 Concen: 0.07 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62244.d  
 Acq: 12 Sep 2020 12:49 pm

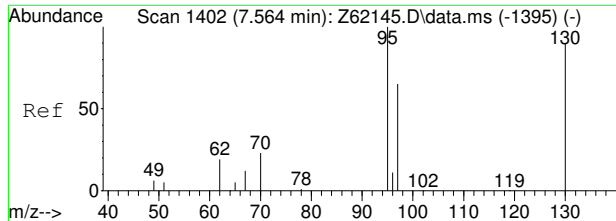
Tgt Ion	Resp	Lower	Upper
83	21344		
83	100		
85	68.7	46.1	86.1



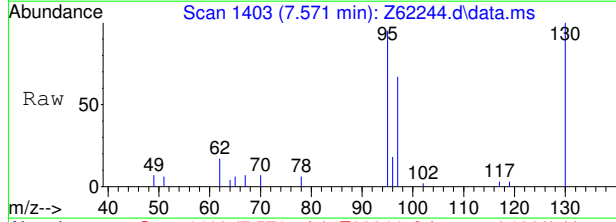
7.1.16  
7





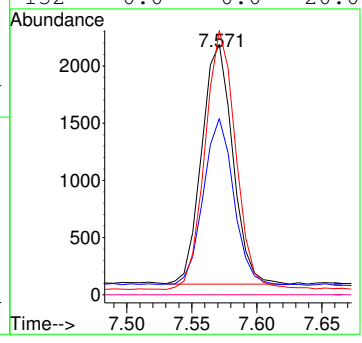
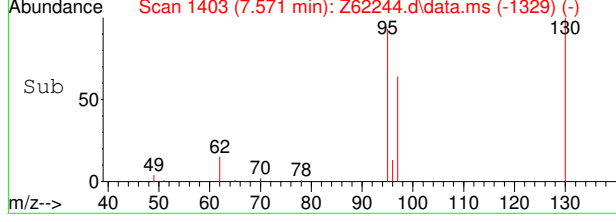


#15  
 Trichloroethene  
 Concen: 0.20 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62244.d  
 Acq: 12 Sep 2020 12:49 pm



Tgt Ion: 95 Resp: 34735

Ion	Ratio	Lower	Upper
95	100		
97	69.3	44.5	84.5
130	108.0	69.7	109.7
132	0.0	0.0	20.0



7.1.16  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62245.d  
Acq On : 12 Sep 2020 1:08 pm  
Operator : stutip  
Sample : fa78573-17  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 06:27:31 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1911999	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1511547	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	605243	5.12	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.40%
19) Toluene-d8	8.961	98	1870060	5.09	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
Target Compounds						
5) Methylene Chloride	4.717	84	26404	0.14	ppb	# 87
15) Trichloroethene	7.571	95	37789	0.23	ppb	# 86
-----						

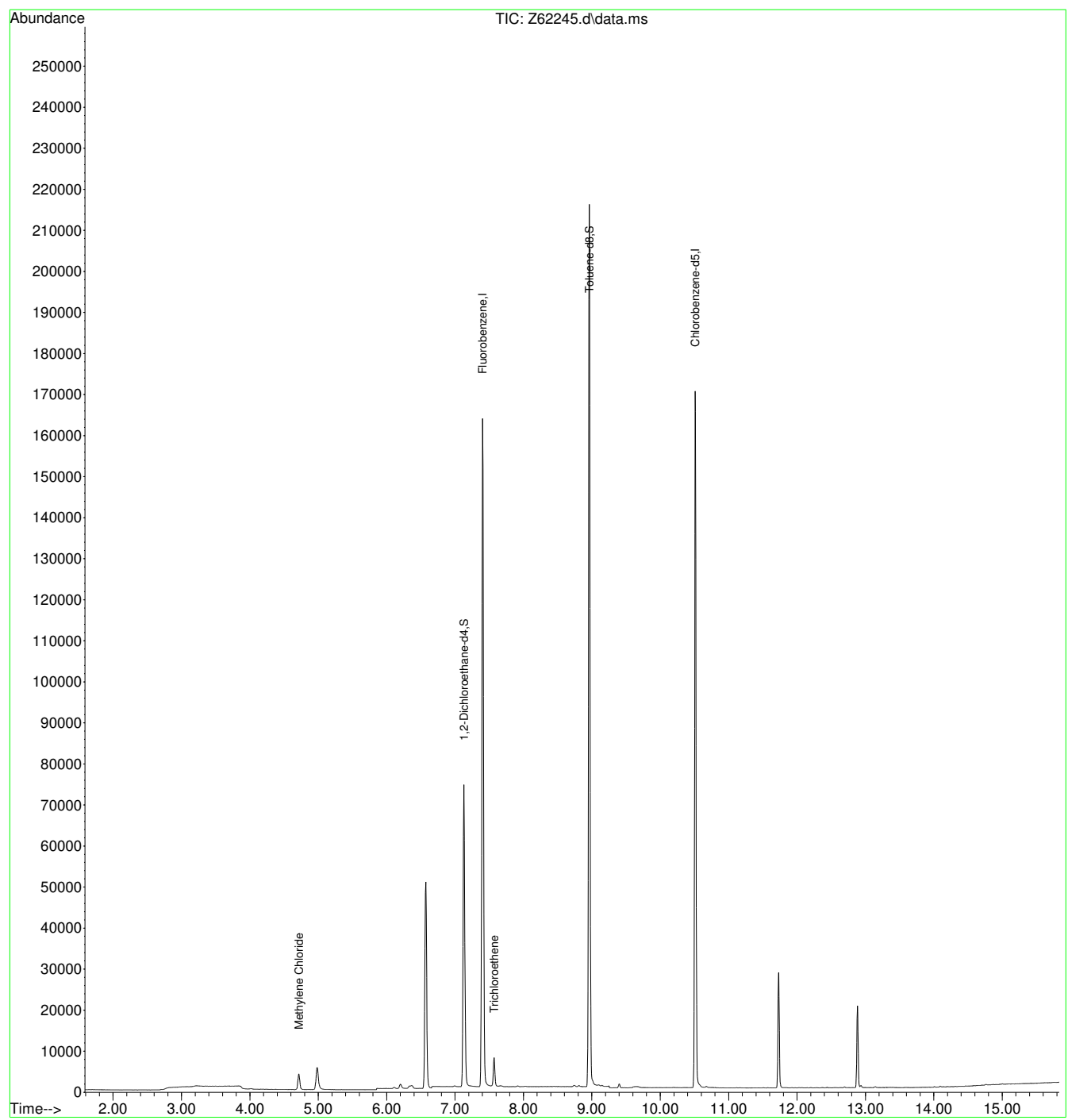
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.17  
7

Quantitation Report (QT Reviewed)

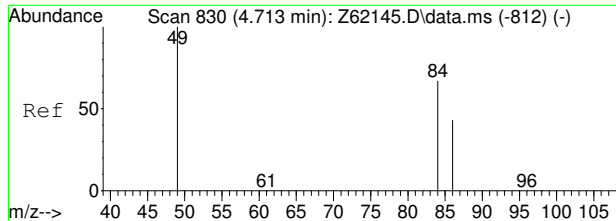
Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62245.d  
Acq On : 12 Sep 2020 1:08 pm  
Operator : stutip  
Sample : fa78573-17  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 06:27:31 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.17  
7

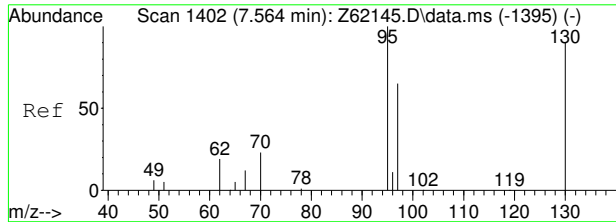
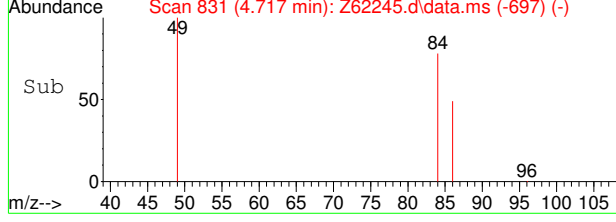
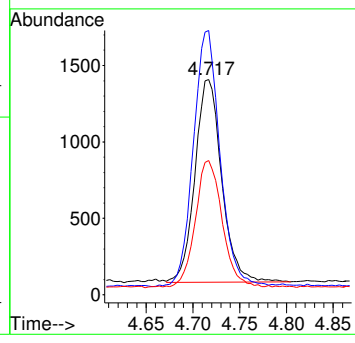
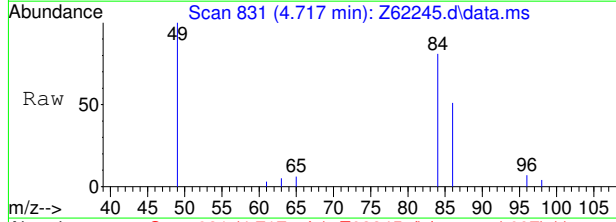




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62245.d  
 Acq: 12 Sep 2020 1:08 pm

Tgt Ion: 84 Resp: 26404

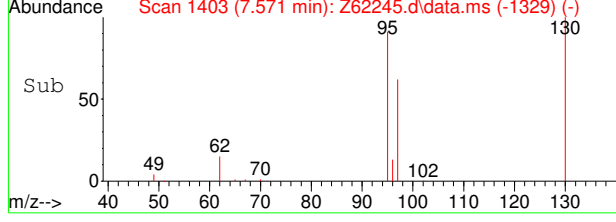
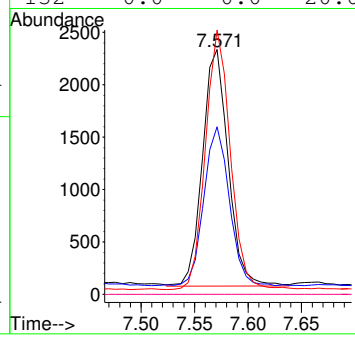
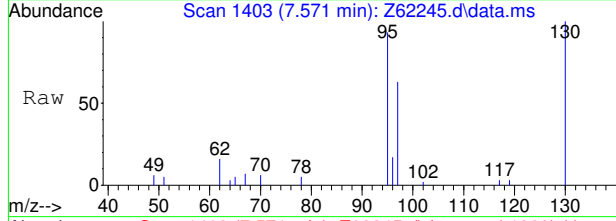
Ion	Ratio	Lower	Upper
84	100		
49	125.8	128.7	168.7#
86	62.2	43.9	83.9



#15  
 Trichloroethene  
 Concen: 0.23 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.000 min  
 Lab File: Z62245.d  
 Acq: 12 Sep 2020 1:08 pm

Tgt Ion: 95 Resp: 37789

Ion	Ratio	Lower	Upper
95	100		
97	67.4	44.5	84.5
130	110.3	69.7	109.7#
132	0.0	0.0	20.0



7.1.17



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091220\  
Data File : Z62246.D  
Acq On : 12 Sep 2020 1:27 pm  
Operator : stutip  
Sample : fa78573-18  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 15 13:39:15 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1985392	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1575798	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	633904	5.16	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.20%	
19) Toluene-d8	8.961	98	1943641	5.08	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%	
Target Compounds							
5) Methylene Chloride	4.713	84	27365	0.14	ppb		Qvalue 90
9) Chloroform	6.377	83	97559	0.33	ppb		91
10) Carbon Tetrachloride	6.543	117	126787	0.63	ppb		97
15) Trichloroethene	7.571	95	74930	0.44	ppb	#	84
-----							

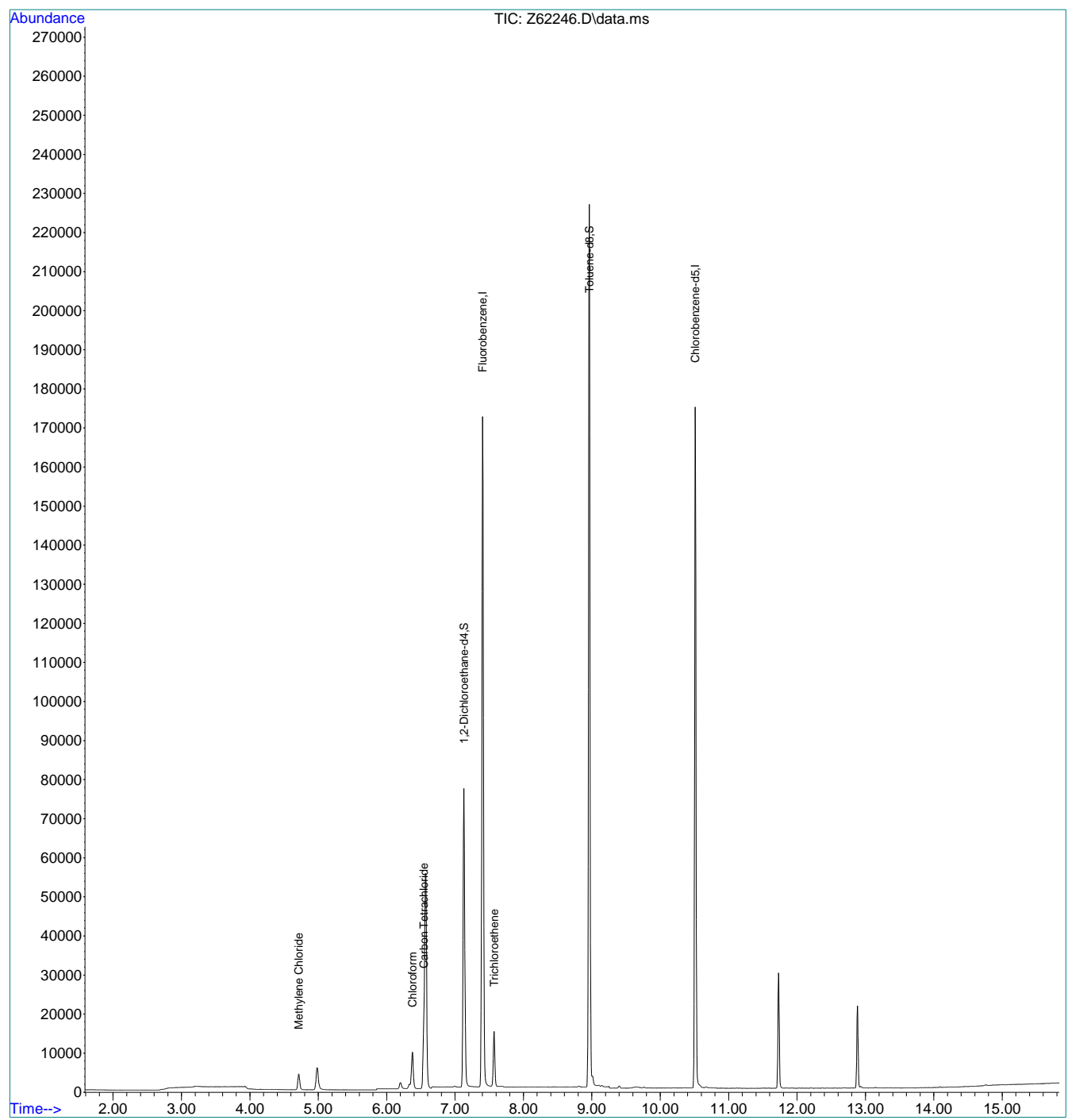
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.18  
7

Quantitation Report (QT Reviewed)

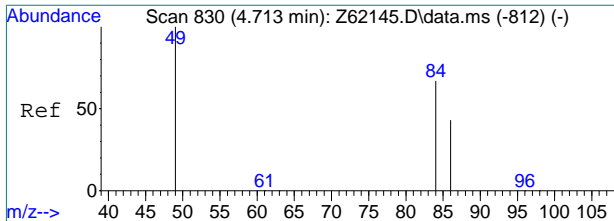
Data Path : C:\msdchem\1\data\091220\  
Data File : Z62246.D  
Acq On : 12 Sep 2020 1:27 pm  
Operator : stutip  
Sample : fa78573-18  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 15 13:39:15 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



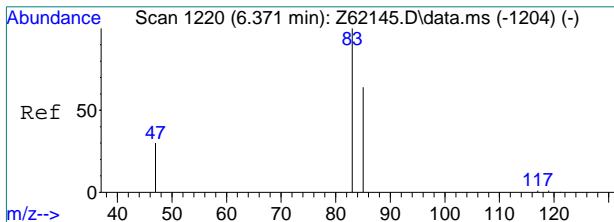
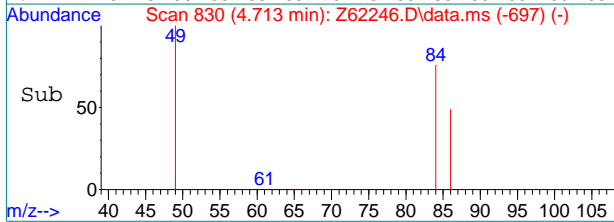
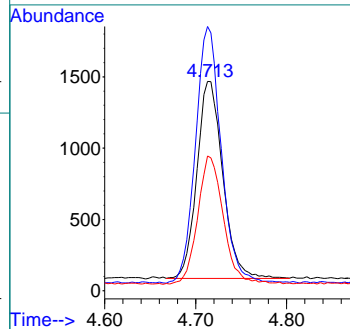
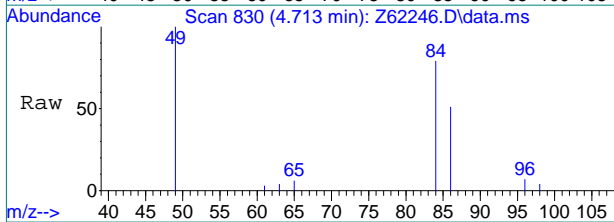
7.1.18  
7





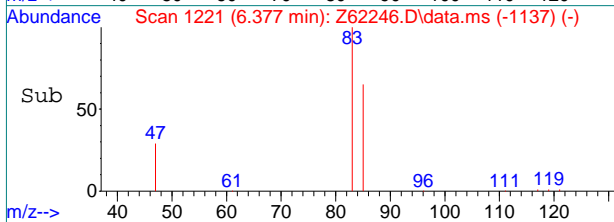
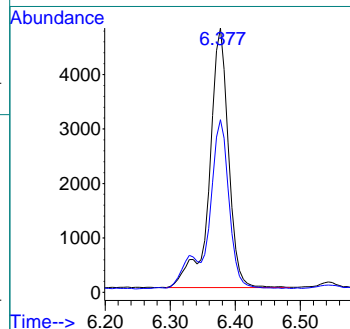
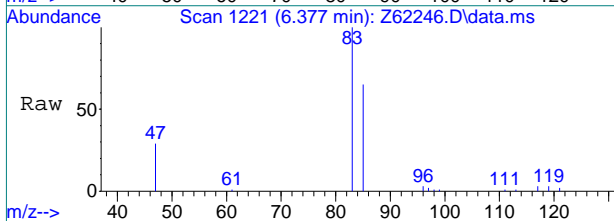
#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62246.D  
 Acq: 12 Sep 2020 1:27 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	130.3	128.7	168.7
86	64.7	43.9	83.9

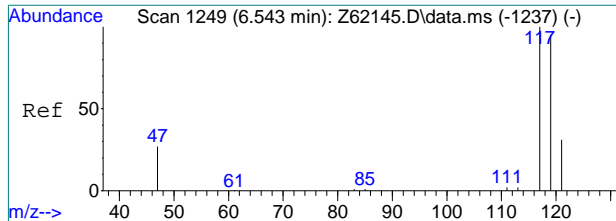


#9  
 Chloroform  
 Concen: 0.33 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62246.D  
 Acq: 12 Sep 2020 1:27 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.1	46.1	86.1



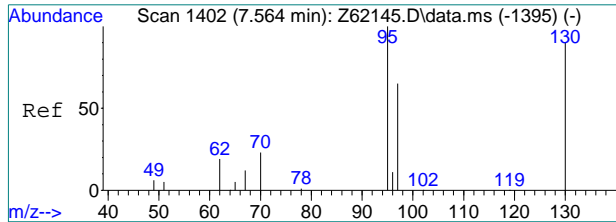
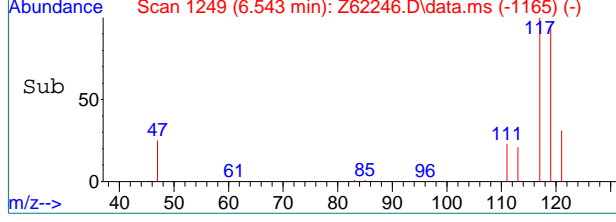
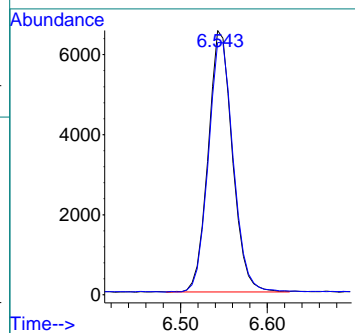
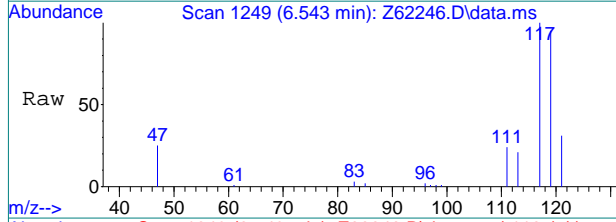
7.1.18  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.63 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62246.D  
 Acq: 12 Sep 2020 1:27 pm

Tgt Ion: 117 Resp: 126787

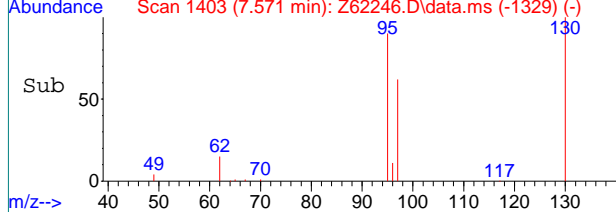
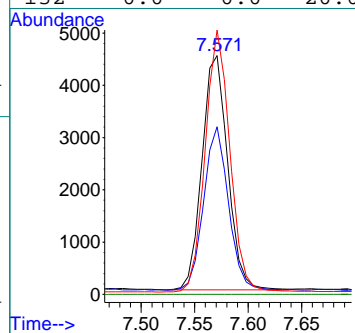
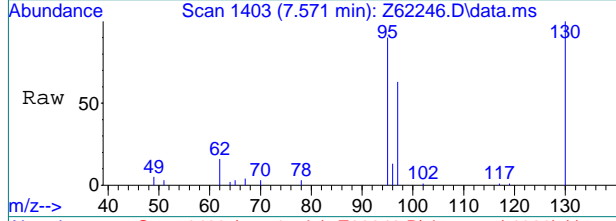
Ion	Ratio	Lower	Upper
117	100		
119	98.5	75.5	115.5



#15  
 Trichloroethene  
 Concen: 0.44 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. -0.000 min  
 Lab File: Z62246.D  
 Acq: 12 Sep 2020 1:27 pm

Tgt Ion: 95 Resp: 74930

Ion	Ratio	Lower	Upper
95	100		
97	69.6	44.5	84.5
130	111.7	69.7	109.7#
132	0.0	0.0	20.0



7.1.18  
7





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\VZ2414\  
 Data File : Z62218.d  
 Acq On : 11 Sep 2020 9:49 pm  
 Operator : SHANICAO  
 Sample : MB  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 02:08:35 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.402	96	1860414	5.00	ppb	0.00
18) Chlorobenzene-d5	10.512	117	1469042	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.131	65	586020	5.09	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.80%
19) Toluene-d8	8.962	98	1835093	5.14	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.80%
Target Compounds						
5) Methylene Chloride	4.717	84	39391	0.21	ppb	Qvalue # 86
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

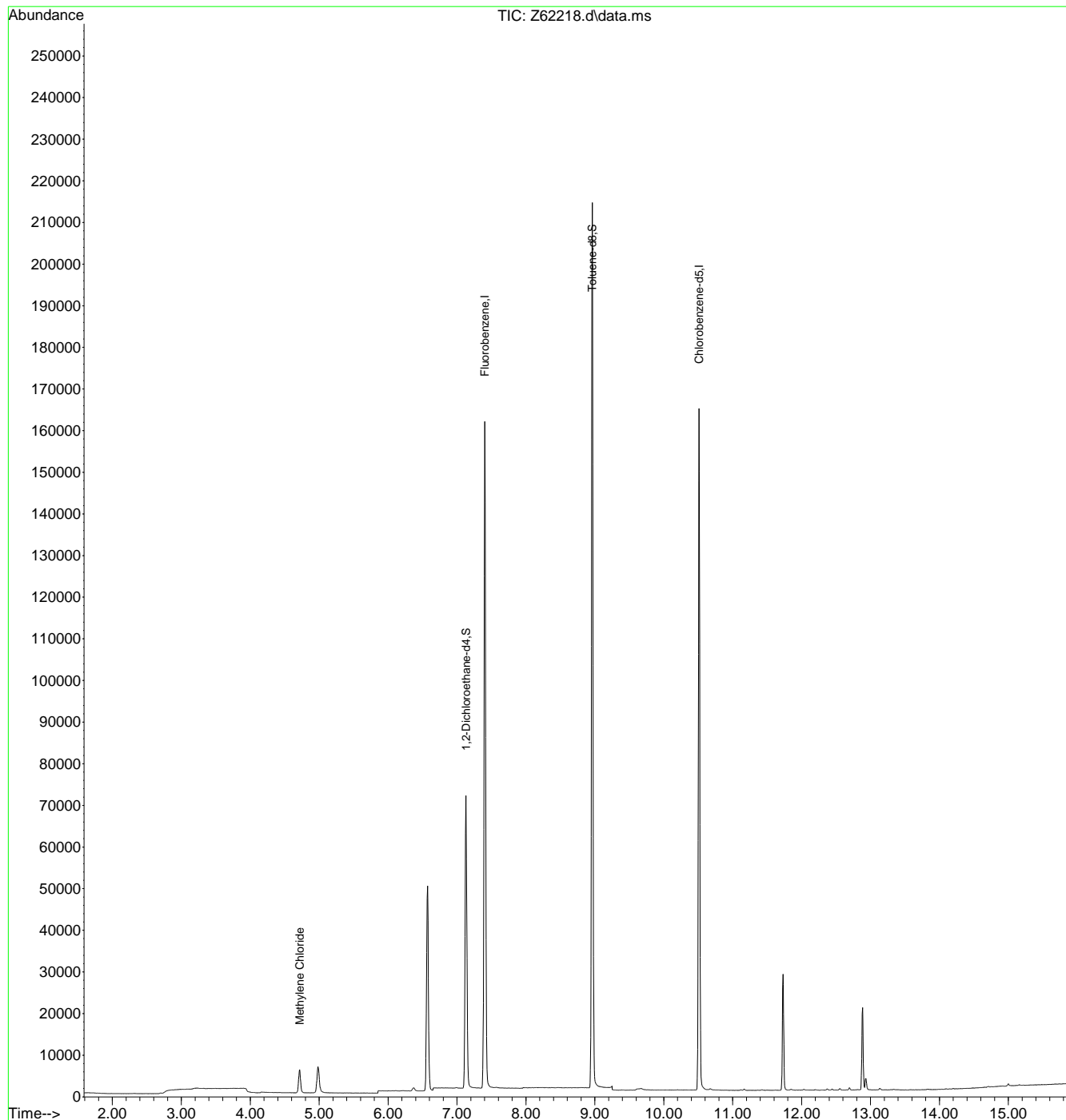
7.2.1

7

Quantitation Report (QT Reviewed)

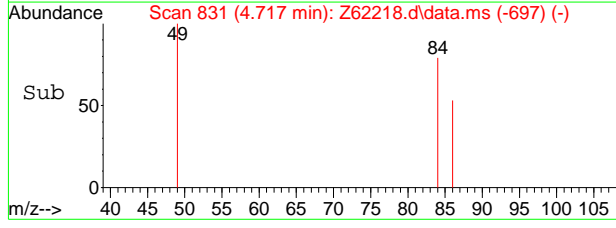
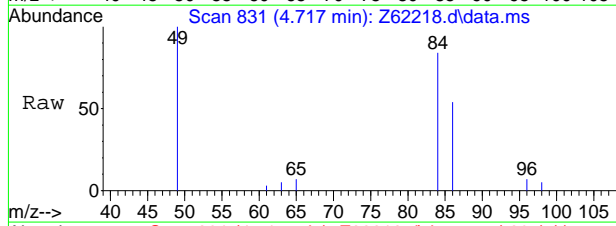
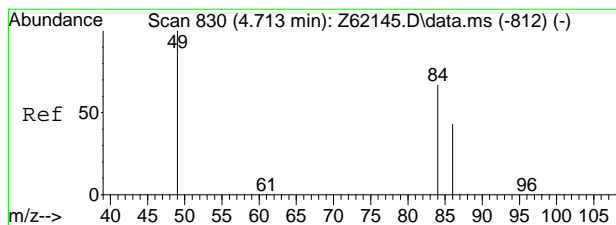
Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
 Data File : Z62218.d  
 Acq On : 11 Sep 2020 9:49 pm  
 Operator : SHANICAO  
 Sample : MB  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 02:08:35 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



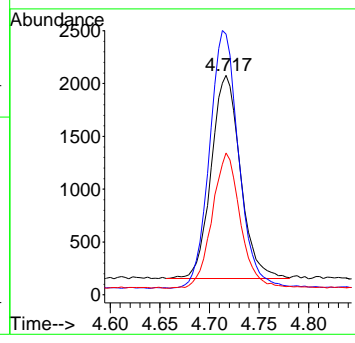
7.2.1  
7





#5  
 Methylene Chloride  
 Concen: 0.21 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62218.d  
 Acq: 11 Sep 2020 9:49 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	124.6	128.7	168.7#
86	66.4	43.9	83.9



7.2.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2415\  
 Data File : Z62242.d  
 Acq On : 12 Sep 2020 12:11 pm  
 Operator : stutip  
 Sample : MB  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 06:27:21 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2135397	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1690689	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	671485	5.08	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.60%
19) Toluene-d8	8.961	98	2099740	5.11	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
Target Compounds						
3) Chloromethane	2.729	50	68563	0.50	ppb	99
5) Methylene Chloride	4.713	84	84921	0.40	ppb	89
-----						

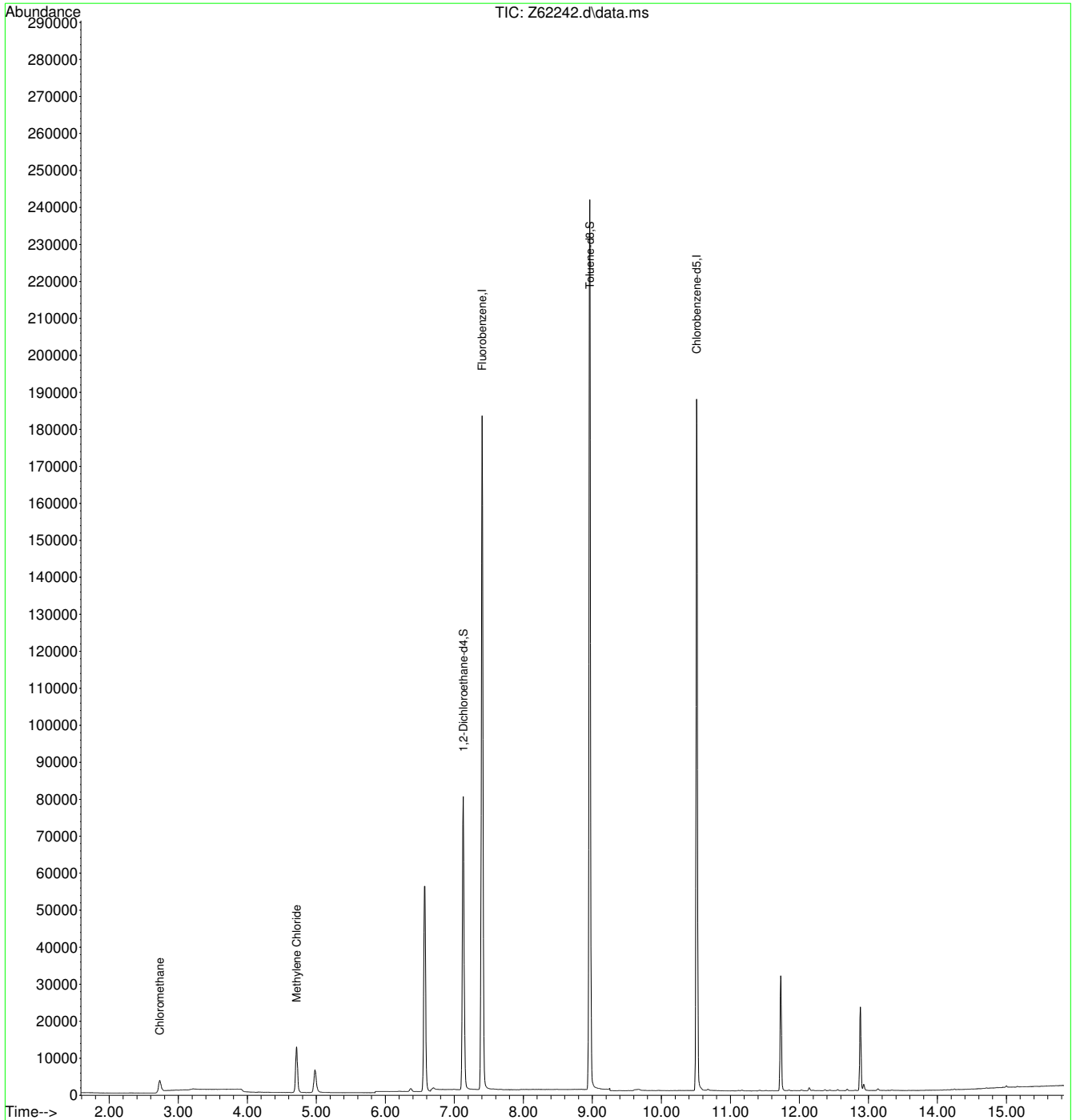
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.22  
7

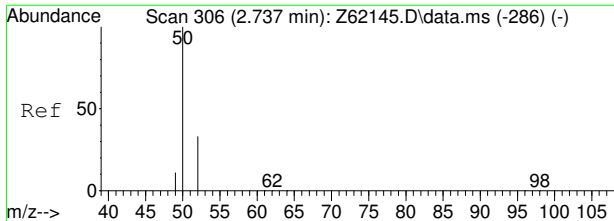
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62242.d  
Acq On : 12 Sep 2020 12:11 pm  
Operator : stutip  
Sample : MB  
Misc : MS47183,VZ2415,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 06:27:21 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

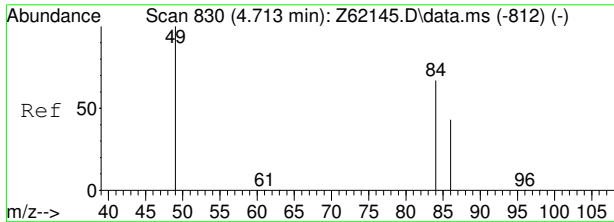
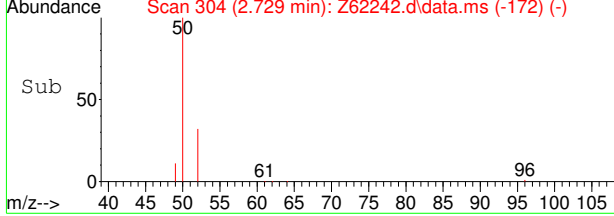
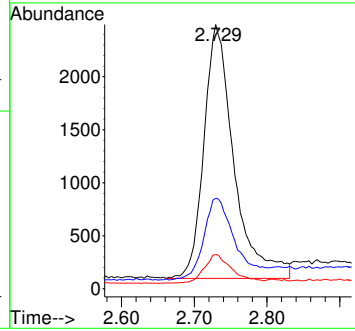
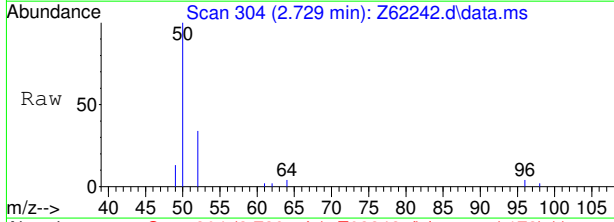


7.2.2  
7



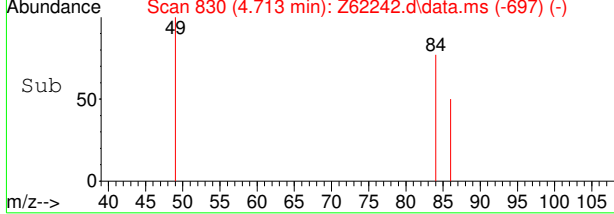
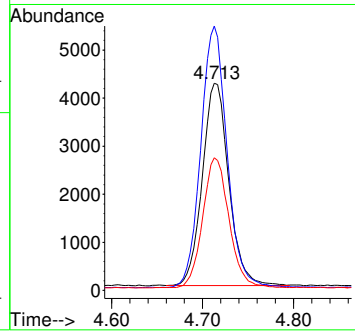
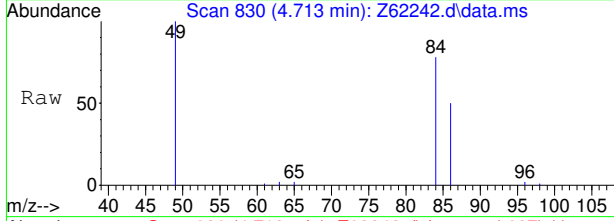
#3  
 Chloromethane  
 Concen: 0.50 ppb  
 RT: 2.729 min Scan# 304  
 Delta R.T. -0.004 min  
 Lab File: Z62242.d  
 Acq: 12 Sep 2020 12:11 pm

Tgt Ion	Resp	Lower	Upper
50	68563		
52	31.7	12.6	52.6
49	11.2	0.0	30.8



#5  
 Methylene Chloride  
 Concen: 0.40 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62242.d  
 Acq: 12 Sep 2020 12:11 pm

Tgt Ion	Resp	Lower	Upper
84	84921		
84	100		
49	129.4	128.7	168.7
86	64.1	43.9	83.9



7.22  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\VZ2414\  
 Data File : Z62216.d  
 Acq On : 11 Sep 2020 9:10 pm  
 Operator : SHANICAO  
 Sample : BS  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 02:08:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1843566	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1464201	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	574469	5.04	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	100.80%	
19) Toluene-d8	8.961	98	1809386	5.09	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	786210	5.13	ppb		99
3) Chloromethane	2.733	50	675613	5.32	ppb		99
4) 1,1-Dichloroethene	4.087	96	652575	5.84	ppb	#	86
5) Methylene Chloride	4.717	84	822667	4.74	ppb	#	85
6) trans-1,2-Dichloroethene	4.890	96	791022	5.81	ppb	#	88
7) 1,1-Dichloroethane	5.546	63	1339071	5.80	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	843252	5.58	ppb		93
9) Chloroform	6.377	83	1531022	5.52	ppb		99
10) Carbon Tetrachloride	6.549	117	1095020	5.82	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	1427689	5.88	ppb		100
12) Benzene	6.994	78	3026585	5.90	ppb		95
14) 1,2-Dichloroethane	7.198	62	1070631	5.53	ppb		100
15) Trichloroethene	7.571	95	929539	5.90	ppb		85
16) 1,2-Dichloropropane	8.105	63	741830	5.68	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	790283	5.49	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	646671	5.24	ppb		99
21) Tetrachloroethene	9.399	166	931703	5.64	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

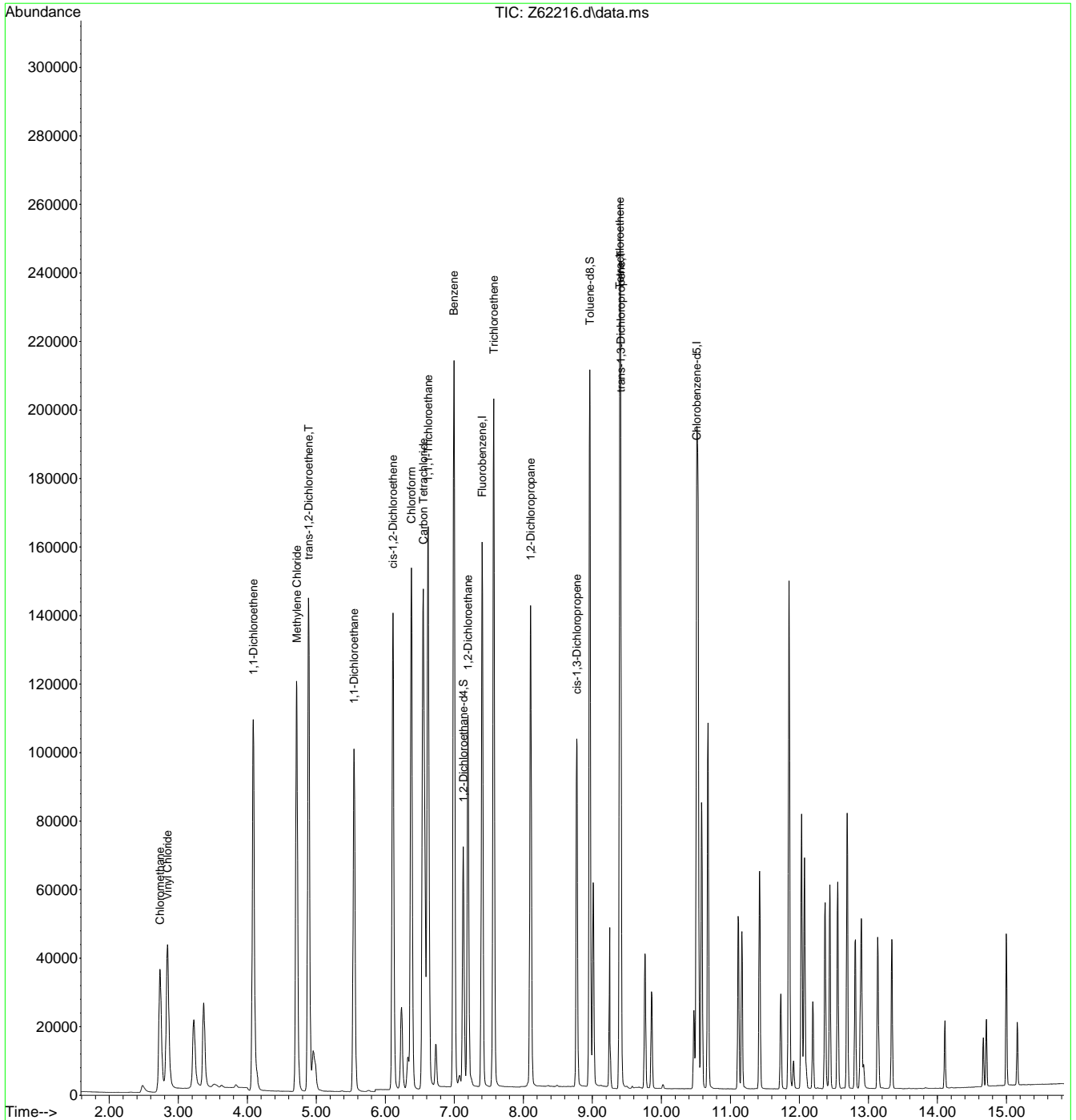
7.3.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
 Data File : Z62216.d  
 Acq On : 11 Sep 2020 9:10 pm  
 Operator : SHANICAO  
 Sample : BS  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 02:08:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62240.d  
 Acq On : 12 Sep 2020 11:32 am  
 Operator : stutip  
 Sample : BS  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 06:27:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2094740	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1674222	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	649358	5.01	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	100.20%	
19) Toluene-d8	8.961	98	2066523	5.08	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	925823	5.31	ppb		100
3) Chloromethane	2.729	50	777756	5.38	ppb		99
4) 1,1-Dichloroethene	4.087	96	734546	5.79	ppb	#	86
5) Methylene Chloride	4.713	84	972636	4.94	ppb	#	88
6) trans-1,2-Dichloroethene	4.886	96	909961	5.89	ppb		91
7) 1,1-Dichloroethane	5.542	63	1533410	5.85	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	959552	5.58	ppb		91
9) Chloroform	6.371	83	1731691	5.50	ppb		99
10) Carbon Tetrachloride	6.543	117	1252924	5.86	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1586286	5.75	ppb		99
12) Benzene	6.994	78	3422819	5.87	ppb		94
14) 1,2-Dichloroethane	7.198	62	1185735	5.40	ppb		100
15) Trichloroethene	7.564	95	1014788	5.67	ppb		93
16) 1,2-Dichloropropane	8.101	63	835111	5.63	ppb		95
17) cis-1,3-Dichloropropene	8.773	75	967062	5.88	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	776598	5.50	ppb		99
21) Tetrachloroethene	9.399	166	1041985	5.51	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

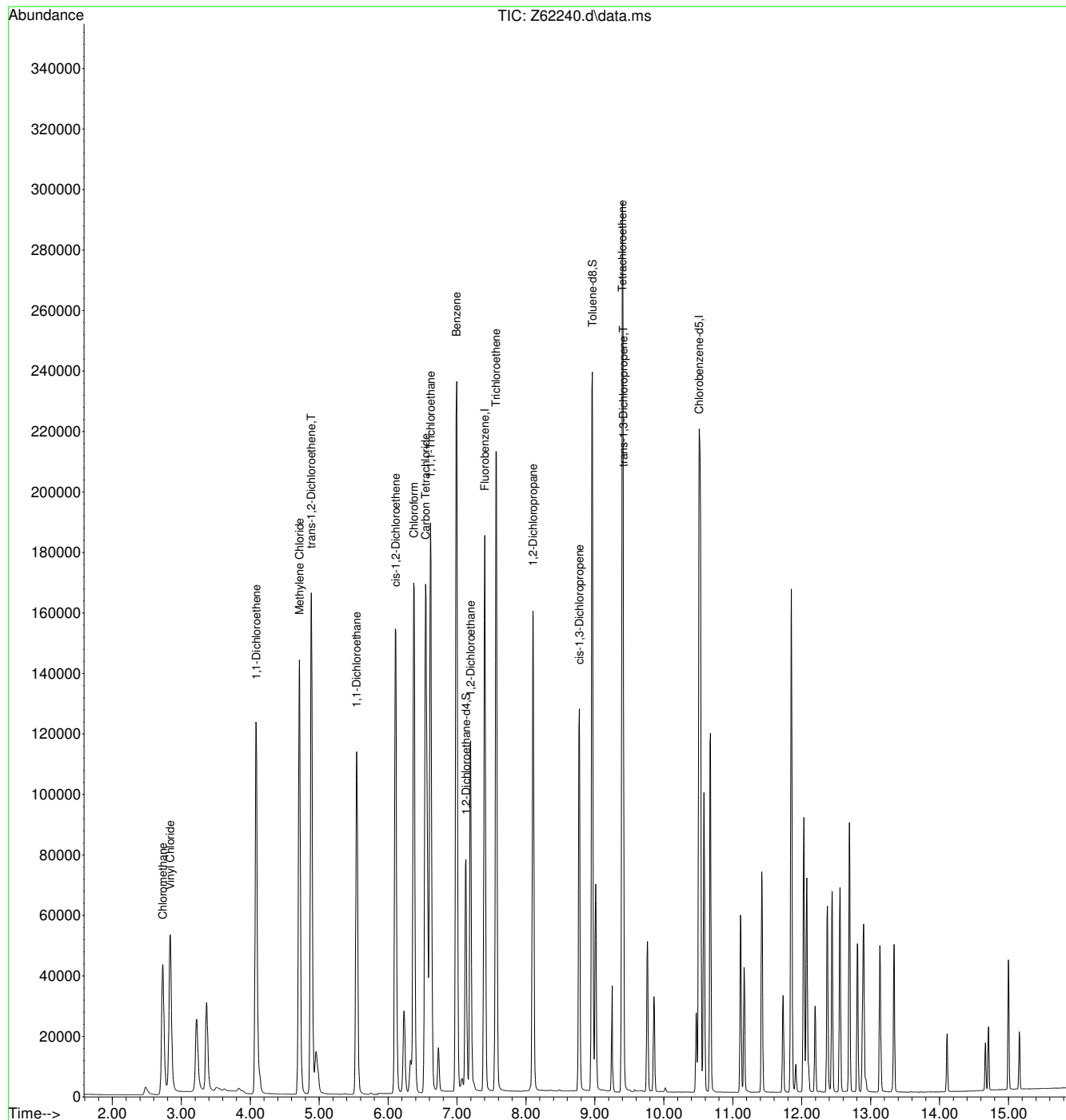
7.3.2  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62240.d  
 Acq On : 12 Sep 2020 11:32 am  
 Operator : stutip  
 Sample : BS  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 06:27:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.3.2  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
 Data File : Z62233.d  
 Acq On : 12 Sep 2020 2:38 am  
 Operator : SHANICAO  
 Sample : FA78573-1MS,10  
 Misc : MS47183,VZ2414,,,,,10  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 14 02:09:07 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1861103	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1496217	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	593533	5.16	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.20%	
19) Toluene-d8	8.961	98	1828373	5.03	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%	
Target Compounds							
2) Vinyl Chloride	2.835	62	771119	4.98	ppb	100	Qvalue
3) Chloromethane	2.729	50	647843	5.07	ppb	99	
4) 1,1-Dichloroethene	4.083	96	624209	5.54	ppb	#	89
5) Methylene Chloride	4.713	84	824957	4.70	ppb	#	88
6) trans-1,2-Dichloroethene	4.886	96	756623	5.51	ppb		92
7) 1,1-Dichloroethane	5.546	63	1301653	5.59	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	804301	5.27	ppb		92
9) Chloroform	6.377	83	1690070	6.04	ppb		100
10) Carbon Tetrachloride	6.543	117	1008799	5.31	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1349249	5.51	ppb		99
12) Benzene	6.994	78	2890832	5.58	ppb		96
14) 1,2-Dichloroethane	7.198	62	1039822	5.33	ppb		99
15) Trichloroethene	7.571	95	884971	5.57	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	714635	5.42	ppb		96
17) cis-1,3-Dichloropropene	8.773	75	632371	4.42	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	517838	4.13	ppb		99
21) Tetrachloroethene	9.399	166	871134	5.13	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

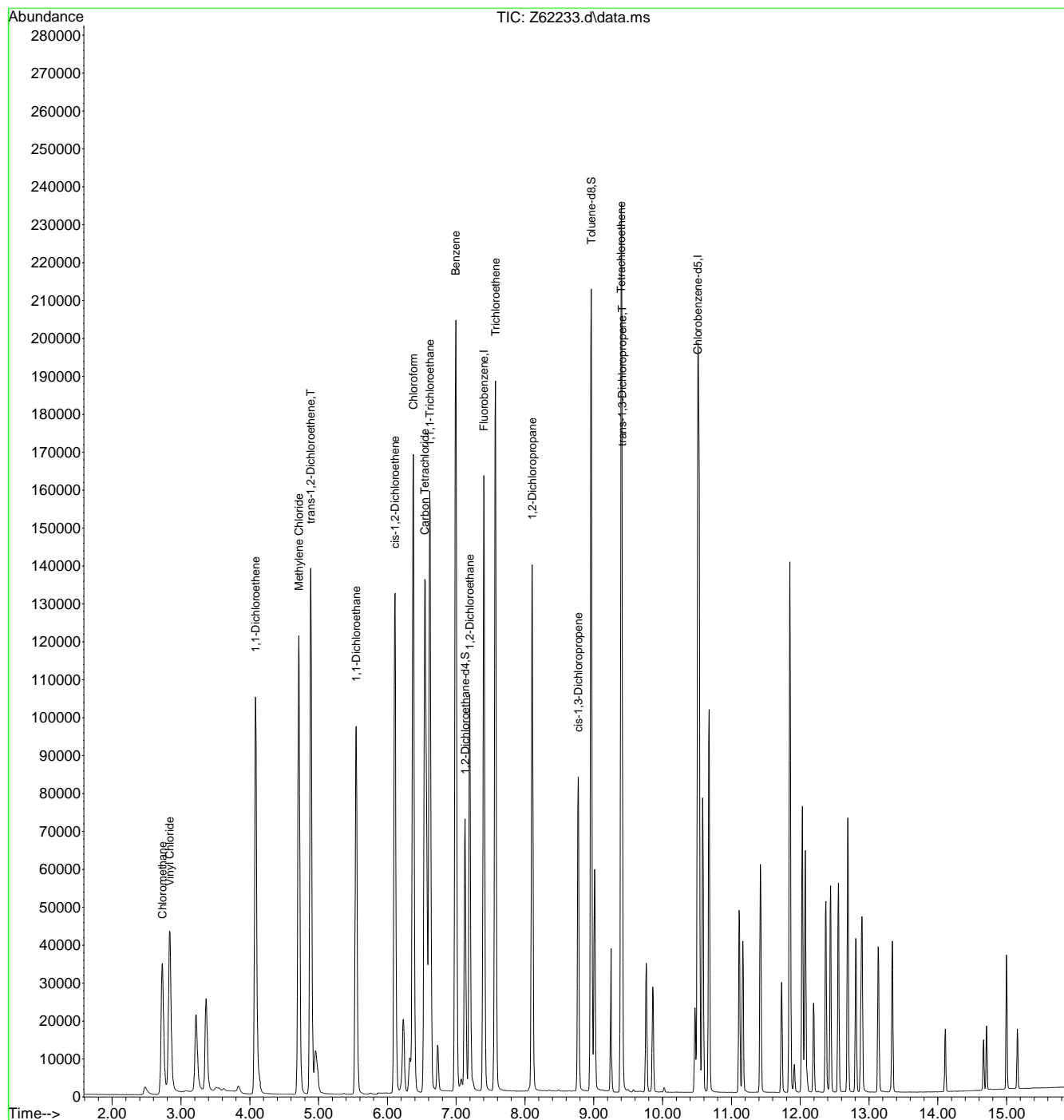
7.4.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
 Data File : Z62233.d  
 Acq On : 12 Sep 2020 2:38 am  
 Operator : SHANICAO  
 Sample : FA78573-1MS,10  
 Misc : MS47183,VZ2414,,,,,10  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 14 02:09:07 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.4.1  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\ vz2414\  
 Data File : Z62234.d  
 Acq On : 12 Sep 2020 2:57 am  
 Operator : SHANICAO  
 Sample : FA78573-1MSD,10  
 Misc : MS47183,VZ2414,,,,,10  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 14 02:09:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

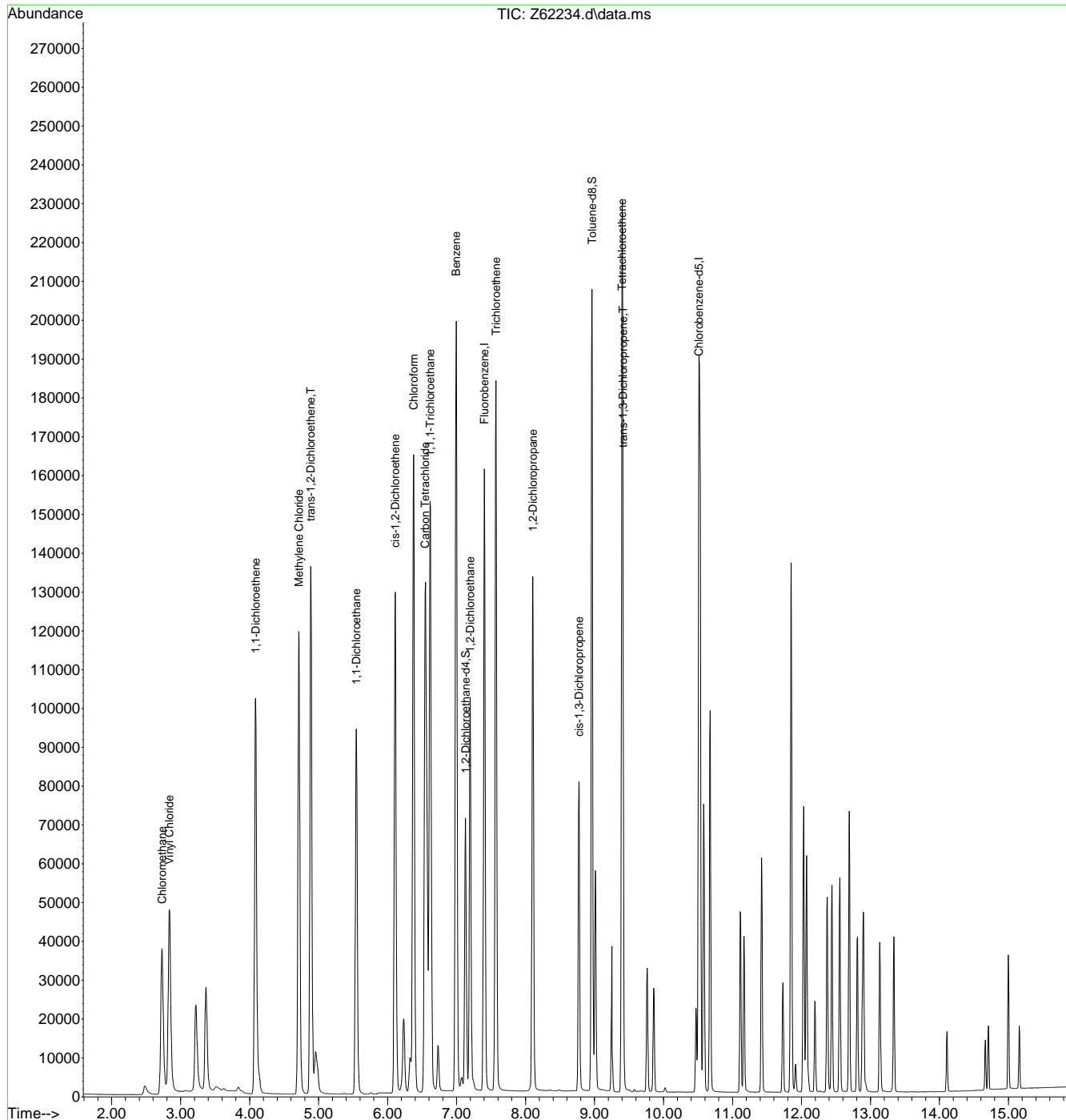
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1813875	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1450340	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	578360	5.15	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.00%	
19) Toluene-d8	8.961	98	1777153	5.05	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	825842	5.47	ppb		100
3) Chloromethane	2.730	50	684647	5.46	ppb		100
4) 1,1-Dichloroethene	4.087	96	605875	5.51	ppb	#	87
5) Methylene Chloride	4.713	84	809498	4.74	ppb		89
6) trans-1,2-Dichloroethene	4.886	96	733457	5.48	ppb		93
7) 1,1-Dichloroethane	5.546	63	1260287	5.55	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	779684	5.24	ppb		93
9) Chloroform	6.377	83	1633219	5.99	ppb		100
10) Carbon Tetrachloride	6.543	117	977547	5.28	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1300029	5.44	ppb		98
12) Benzene	6.994	78	2813443	5.57	ppb		96
14) 1,2-Dichloroethane	7.198	62	1006234	5.29	ppb		100
15) Trichloroethene	7.571	95	856086	5.53	ppb	#	83
16) 1,2-Dichloropropane	8.105	63	693458	5.40	ppb		96
17) cis-1,3-Dichloropropene	8.773	75	610093	4.38	ppb		98
20) trans-1,3-Dichloropropene	9.412	75	498372	4.10	ppb		99
21) Tetrachloroethene	9.399	166	849050	5.16	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
 Data File : Z62234.d  
 Acq On : 12 Sep 2020 2:57 am  
 Operator : SHANICAO  
 Sample : FA78573-1MSD,10  
 Misc : MS47183,VZ2414,,,,,10  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 14 02:09:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.4.2  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62254.d  
 Acq On : 12 Sep 2020 4:03 pm  
 Operator : stutip  
 Sample : fa78571-16ms,10  
 Misc : MS47192,VZ2415,,,,,10  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 06:28:05 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1916862	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1548625	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	626798	5.29	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	105.80%	
19) Toluene-d8	8.961	98	1874126	4.98	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	818727	5.14	ppb		99
3) Chloromethane	2.729	50	687900	5.21	ppb		100
4) 1,1-Dichloroethene	4.083	96	645371	5.56	ppb	#	89
5) Methylene Chloride	4.713	84	866694	4.80	ppb		89
6) trans-1,2-Dichloroethene	4.886	96	778964	5.51	ppb		92
7) 1,1-Dichloroethane	5.546	63	1347948	5.62	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	818940	5.21	ppb		92
9) Chloroform	6.377	83	1526754	5.30	ppb		99
10) Carbon Tetrachloride	6.543	117	1008998	5.16	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1378922	5.46	ppb		99
12) Benzene	6.994	78	2991982	5.61	ppb		96
14) 1,2-Dichloroethane	7.198	62	1081828	5.38	ppb		100
15) Trichloroethene	7.571	95	910681	5.56	ppb	#	83
16) 1,2-Dichloropropane	8.105	63	729991	5.38	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	606331	4.13	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	494655	3.81	ppb		99
21) Tetrachloroethene	9.399	166	914768	5.21	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

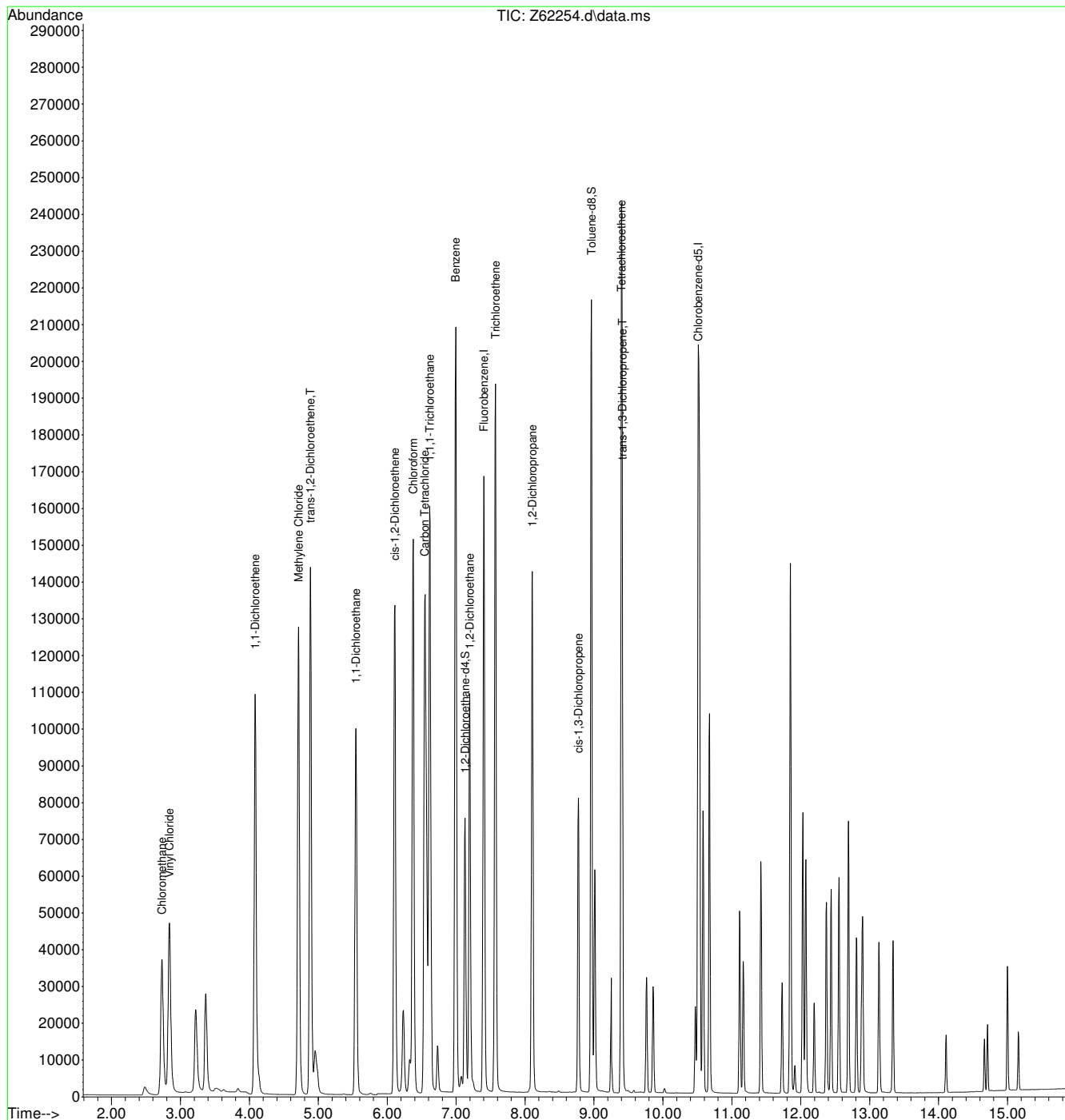
7.4.3  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62254.d  
 Acq On : 12 Sep 2020 4:03 pm  
 Operator : stutip  
 Sample : fa78571-16ms,10  
 Misc : MS47192,VZ2415,,,,,10  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 06:28:05 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.4.3  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62255.d  
 Acq On : 12 Sep 2020 4:22 pm  
 Operator : stutip  
 Sample : fa78571-16msd,10  
 Misc : MS47192,VZ2415,,,,,10  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 14 06:28:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

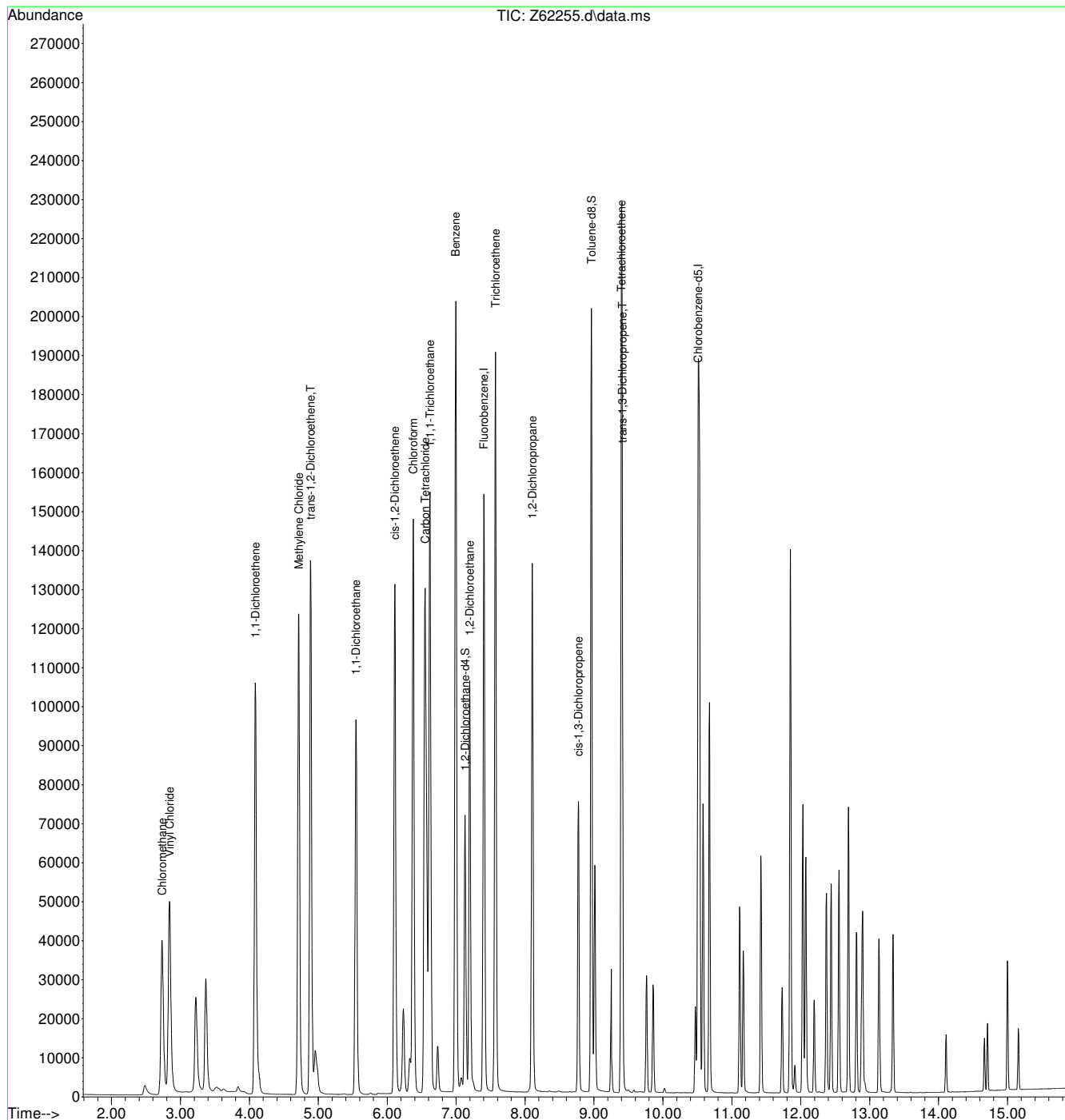
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1780202	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1433451	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	580187	5.27	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	105.40%	
19) Toluene-d8	8.961	98	1740698	5.00	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	867309	5.86	ppb		99
3) Chloromethane	2.733	50	726275	5.87	ppb		99
4) 1,1-Dichloroethene	4.087	96	618690	5.74	ppb	#	89
5) Methylene Chloride	4.717	84	837836	5.01	ppb	#	88
6) trans-1,2-Dichloroethene	4.890	96	746486	5.68	ppb		90
7) 1,1-Dichloroethane	5.546	63	1291079	5.79	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	787499	5.39	ppb		94
9) Chloroform	6.377	83	1462496	5.47	ppb		99
10) Carbon Tetrachloride	6.549	117	958467	5.28	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	1323421	5.65	ppb		100
12) Benzene	6.994	78	2871403	5.79	ppb		97
14) 1,2-Dichloroethane	7.198	62	1036770	5.55	ppb		99
15) Trichloroethene	7.571	95	873238	5.74	ppb		85
16) 1,2-Dichloropropane	8.105	63	697914	5.53	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	571025	4.19	ppb		98
20) trans-1,3-Dichloropropene	9.412	75	475044	3.95	ppb		99
21) Tetrachloroethene	9.399	166	866053	5.34	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
Data File : Z62255.d  
Acq On : 12 Sep 2020 4:22 pm  
Operator : stutip  
Sample : fa78571-16msd,10  
Misc : MS47192,VZ2415,,,,,10  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 14 06:28:09 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



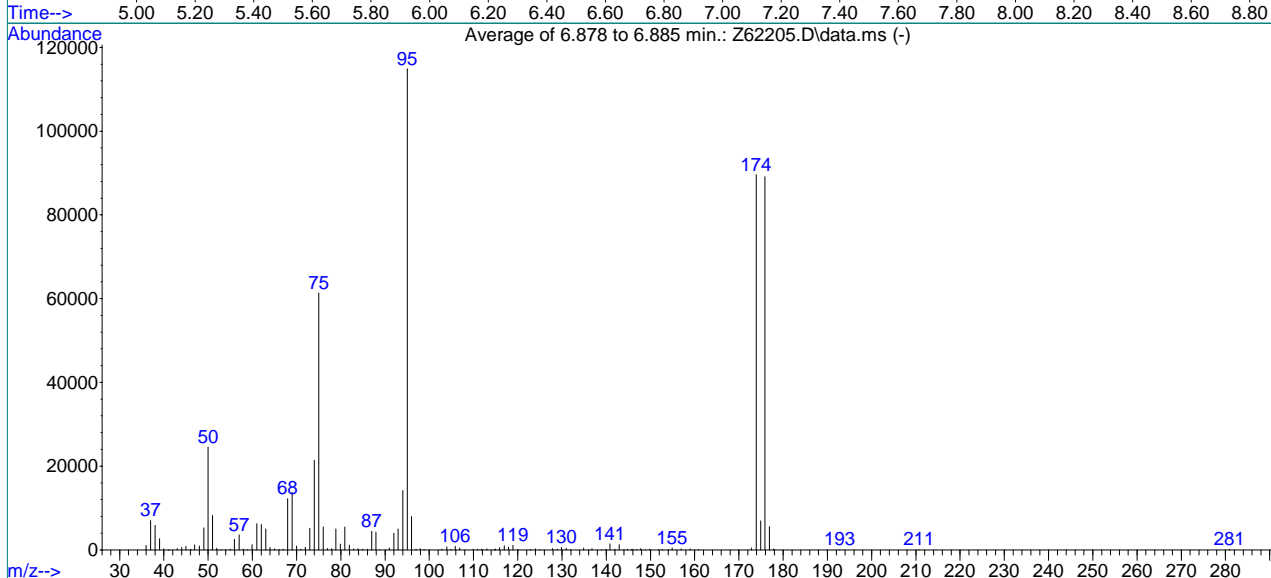
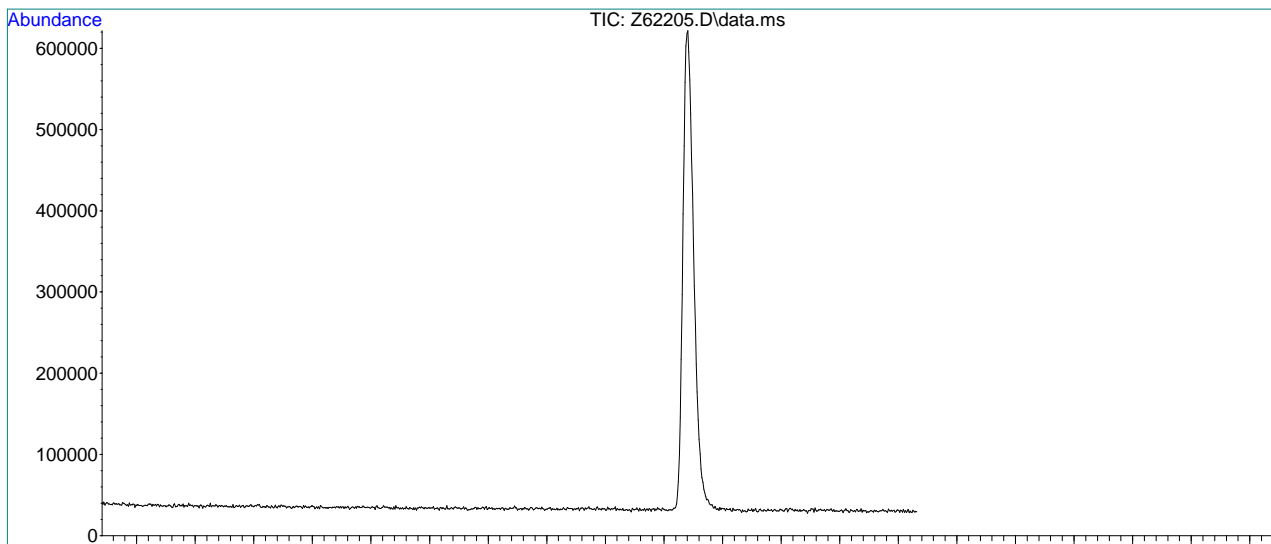
7.4.4  
7

BFB

Data File : C:\msdchem\1\data\091120\Z62205.D  
 Acq On : 11 Sep 2020 5:20 pm  
 Sample : BFB  
 Misc : MS47171,VZ2414,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: SHANICAO  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2112, 2113, 2114; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	24546	PASS
75	95	30	60	53.4	61341	PASS
95	95	100	100	100.0	114880	PASS
96	95	5	9	6.9	7912	PASS
173	174	0.00	2	0.5	429	PASS
174	95	50	100	78.0	89573	PASS
175	174	5	9	7.7	6903	PASS
176	174	95	101	99.5	89128	PASS
177	176	5	9	6.2	5541	PASS

7.5.1  
7

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1011	48.00	892	58.90	60	70.00	922
37.00	6971	49.00	5241	59.95	1253	70.95	177
38.00	5869	49.95	24546	61.00	6279	71.95	655
39.00	2653	51.00	8188	62.00	6060	72.95	5098
39.95	227	51.95	363	63.00	4973	74.00	21419
41.00	0	52.90	63	64.00	544	75.00	61341
43.00	313	53.95	60	65.00	240	76.00	5430
44.00	548	55.00	143	66.10	58	76.95	281
44.95	816	55.95	2492	66.95	149	77.90	294
46.10	125	57.00	3597	68.00	12248	78.90	5021
46.95	1167	57.90	154	69.00	13760	79.90	1372

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	5453	92.95	4978	106.85	414	120.10	70
81.90	1129	94.00	14133	109.90	170	122.85	126
82.95	219	95.00	114880	110.90	179	123.95	220
83.90	276	96.00	7912	111.80	175	125.00	58
84.95	162	97.00	153	113.00	244	127.85	303
86.05	163	97.95	274	114.70	110	128.90	142
86.95	4427	98.85	130	115.00	187	129.90	541
87.95	4242	102.85	150	115.85	519	130.95	388
88.80	60	103.95	710	116.95	998	131.90	56
90.95	419	104.90	190	117.90	667	134.90	414
92.00	4019	105.85	848	118.90	1119	136.80	272

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

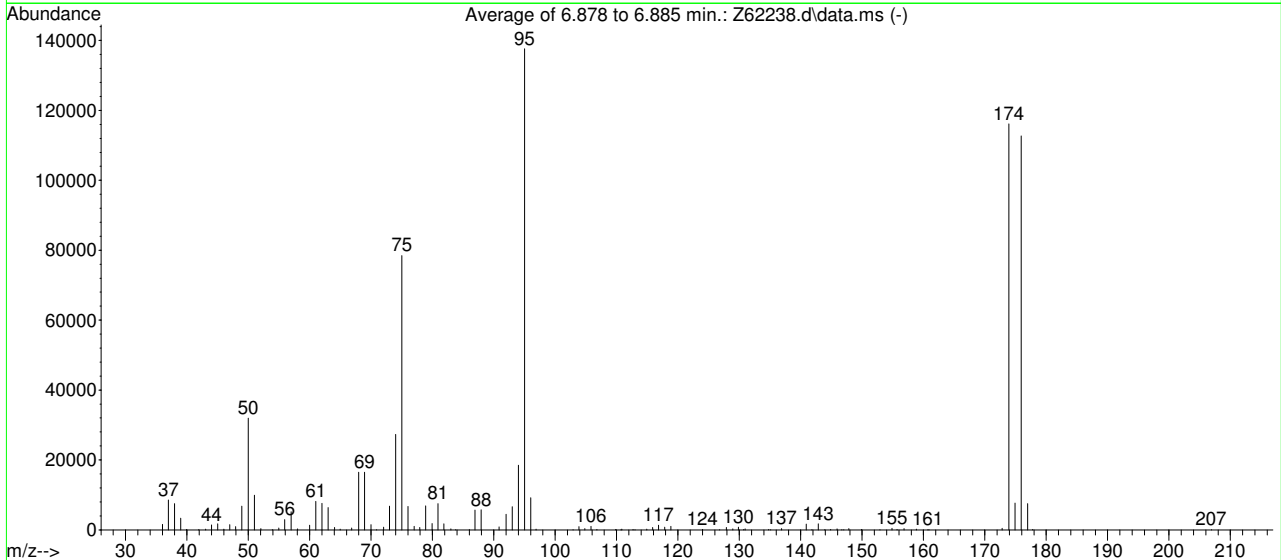
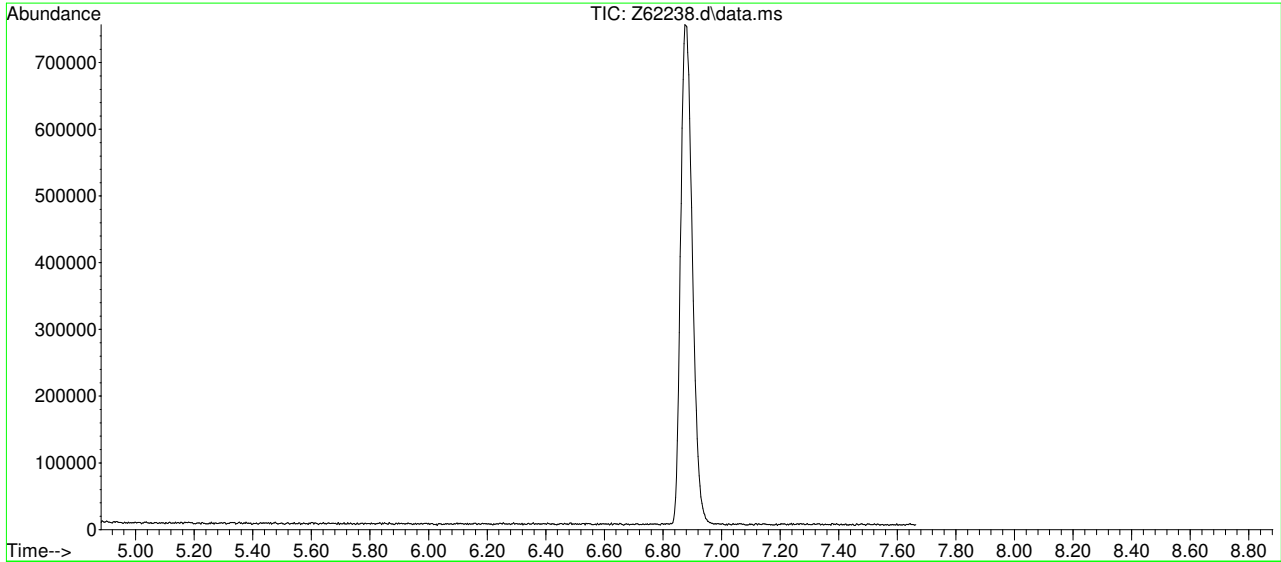
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.00	58	148.80	62	174.90	6903		
139.90	79	149.85	154	175.90	89128		
140.85	1457	151.80	52	176.90	5541		
141.90	160	152.70	111	177.85	205		
142.90	1269	154.10	53	178.10	53		
144.00	56	154.90	432	192.80	68		
144.85	153	156.90	235	210.70	66		
145.70	72	158.95	210	280.90	72		
146.00	182	160.85	116				
146.90	77	172.85	429				
147.80	337	173.90	89573				

BFB

Data File : C:\msdchem\1\data\jo...-2020\vz2415\Z62238.d Vial: 2  
 Acq On : 12 Sep 2020 10:44 am Operator: stutip  
 Sample : BFB Inst : MSVOA15  
 Misc : MS47183,VZ2415,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2112, 2113, 2114; Background Corrected with Scan 2092

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	31960	PASS
75	95	30	60	57.0	78448	PASS
95	95	100	100	100.0	137600	PASS
96	95	5	9	6.7	9223	PASS
173	174	0.00	2	0.4	456	PASS
174	95	50	100	84.4	116125	PASS
175	174	5	9	6.6	7682	PASS
176	174	95	101	97.0	112669	PASS
177	176	5	9	6.6	7473	PASS

Average of 6.878 to 6.885 min.: Z62238.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1559	47.95	920	61.00	8123	73.00	6773
37.00	8506	48.95	6807	62.00	7574	74.00	27320
38.00	7473	50.00	31960	63.00	6421	75.00	78448
39.00	3301	51.00	9937	64.05	695	76.00	6710
39.95	100	52.05	372	64.95	187	77.00	974
41.90	13	53.90	56	66.85	518	77.95	719
43.05	212	54.95	506	68.00	16469	78.90	6834
44.00	1380	55.95	2975	68.95	16490	79.95	1769
45.00	1708	57.00	5137	70.00	1488	80.90	7501
46.00	177	58.05	291	70.90	60	81.85	1733
47.00	1487	60.00	1310	72.05	789	83.00	298

Average of 6.878 to 6.885 min.: Z62238.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.80	50	102.90	63	115.90	667	134.80	109
86.00	63	103.85	926	116.85	1323	135.10	51
86.95	5619	104.85	370	117.85	771	136.90	377
87.95	5725	105.85	1017	118.85	992	140.90	1680
90.85	877	106.80	163	124.00	89	141.80	71
92.00	4438	109.85	132	126.80	61	142.85	1763
93.00	6587	110.70	53	127.90	724	143.90	80
94.00	18469	110.85	172	128.95	293	144.85	140
95.00	137600	112.70	96	129.85	741	145.90	283
96.00	9223	113.00	67	130.70	129	146.70	64
96.90	218	114.90	238	130.95	251	147.00	61

Average of 6.878 to 6.885 min.: Z62238.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.85	394	174.90	7682				
149.90	91	175.90	112669				
152.90	65	176.95	7473				
154.85	422	177.80	153				
155.70	105	206.90	30				
156.85	350						
158.85	246						
160.70	79						
160.90	61						
172.80	456						
173.90	116125						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62207.D  
 Acq On : 11 Sep 2020 6:15 pm  
 Operator : SHANICAO  
 Sample : IC2414-1  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 20:45:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1911916	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1500837	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	582041	4.07	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	81.40%		
19) Toluene-d8	8.961	98	1882184	5.19	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	103.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	28495	0.14	ppb		64
3) Chloromethane	2.741	50	25350	0.11	ppb		98
4) 1,1-Dichloroethene	4.083	96	11716	0.09	ppb	#	82
5) Methylene Chloride	4.713	84	104791	0.50	ppb	#	85
6) trans-1,2-Dichloroethene	4.886	96	13680	0.09	ppb	#	86
7) 1,1-Dichloroethane	5.542	63	21987	0.07	ppb	#	93
8) cis-1,2-Dichloroethene	6.104	96	16012	0.10	ppb		90
9) Chloroform	6.371	83	29706	0.09	ppb		94
10) Carbon Tetrachloride	6.543	117	19024	0.09	ppb		96
11) 1,1,1-Trichloroethane	6.614	97	24317	0.09	ppb		56
12) Benzene	6.994	78	51294	0.09	ppb		91
14) 1,2-Dichloroethane	7.198	62	19143	0.08	ppb		99
15) Trichloroethene	7.564	95	15849	0.09	ppb		96
16) 1,2-Dichloropropane	8.101	63	13157	0.09	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	13481	0.09	ppb		96
20) trans-1,3-Dichloropropene	9.411	75	10019	0.09	ppb		96
21) Tetrachloroethene	9.399	166	15170	0.09	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

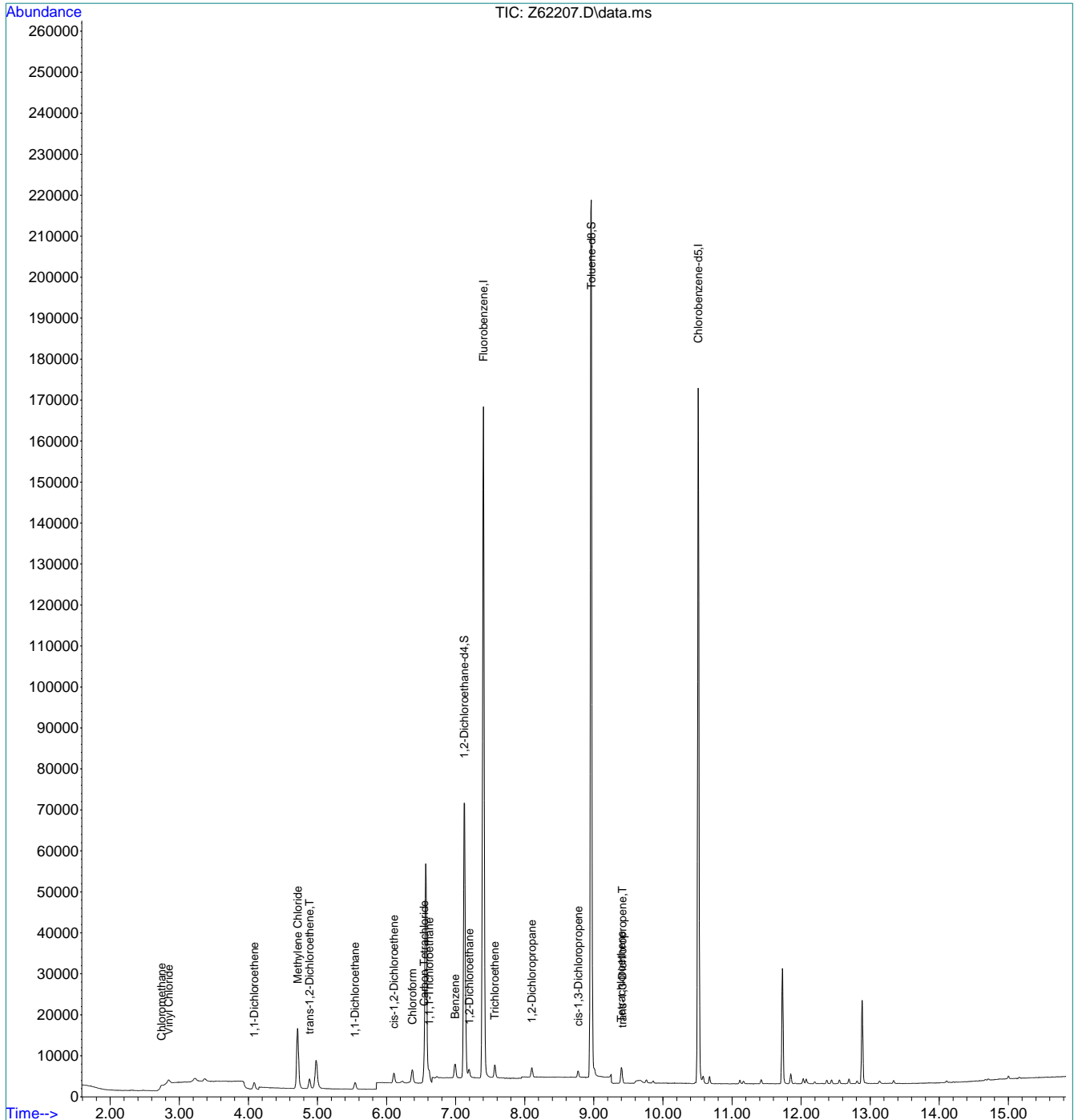
7.6-1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62207.D  
 Acq On : 11 Sep 2020 6:15 pm  
 Operator : SHANICAO  
 Sample : IC2414-1  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 20:45:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62208.D  
 Acq On : 11 Sep 2020 6:34 pm  
 Operator : SHANICAO  
 Sample : IC2414-2  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 20:45:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

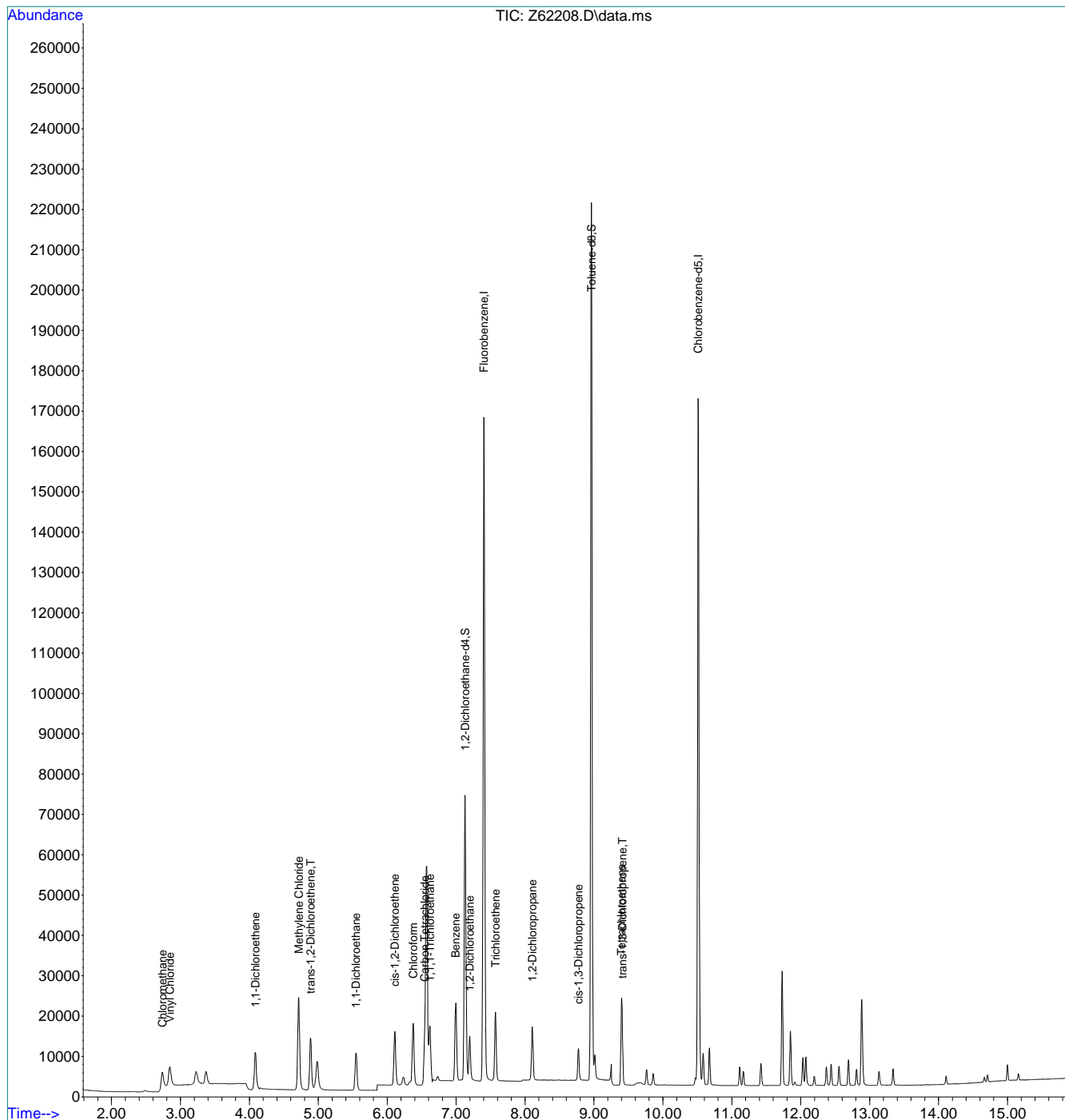
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1904308	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1505590	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	590498	4.14	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.80%	
19) Toluene-d8	8.961	98	1879356	5.17	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	100902	0.49	ppb		94
3) Chloromethane	2.737	50	94917	0.43	ppb		99
4) 1,1-Dichloroethene	4.087	96	56778	0.46	ppb	#	85
5) Methylene Chloride	4.717	84	159658	0.77	ppb	#	84
6) trans-1,2-Dichloroethene	4.890	96	72093	0.47	ppb	#	87
7) 1,1-Dichloroethane	5.546	63	125841	0.43	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	81784	0.50	ppb		91
9) Chloroform	6.377	83	149761	0.46	ppb		99
10) Carbon Tetrachloride	6.543	117	93184	0.46	ppb		100
11) 1,1,1-Trichloroethane	6.620	97	125772	0.46	ppb		93
12) Benzene	6.994	78	278106	0.49	ppb		95
14) 1,2-Dichloroethane	7.198	62	107084	0.46	ppb		99
15) Trichloroethene	7.571	95	81536	0.46	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	71854	0.47	ppb		96
17) cis-1,3-Dichloropropene	8.773	75	62431	0.42	ppb		97
20) trans-1,3-Dichloropropene	9.411	75	51134	0.43	ppb		97
21) Tetrachloroethene	9.399	166	81006	0.45	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62208.D  
 Acq On : 11 Sep 2020 6:34 pm  
 Operator : SHANICAO  
 Sample : IC2414-2  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 20:45:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.2  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62209.D  
 Acq On : 11 Sep 2020 6:53 pm  
 Operator : SHANICAO  
 Sample : IC2414-3  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 20:45:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

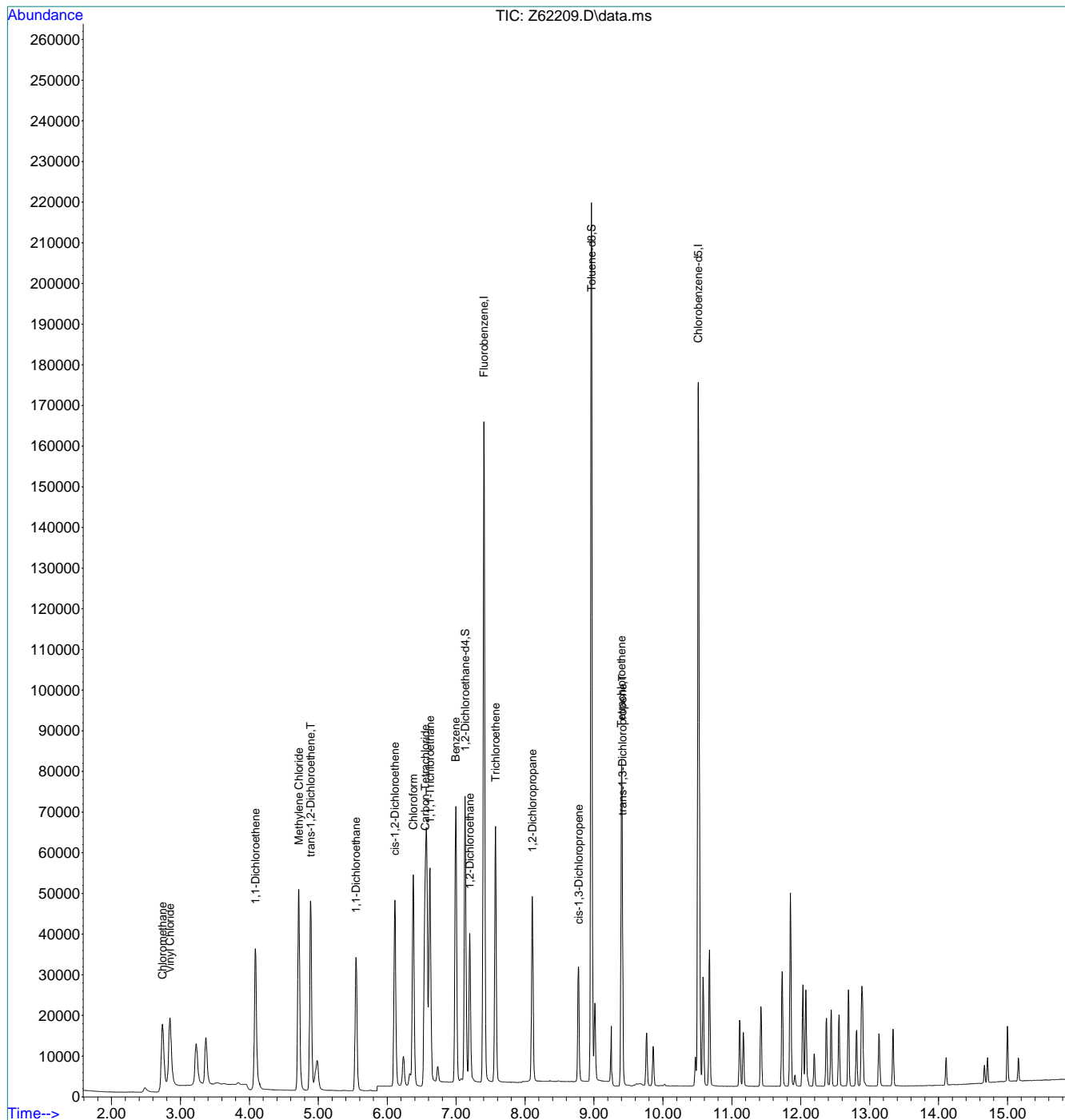
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1880383	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1501976	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	577590	4.10	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	82.00%		
19) Toluene-d8	8.961	98	1874357	5.17	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	103.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	355035	1.73	ppb		99
3) Chloromethane	2.737	50	361423	1.66	ppb		99
4) 1,1-Dichloroethene	4.087	96	211318	1.74	ppb	#	86
5) Methylene Chloride	4.717	84	343631	1.70	ppb	#	85
6) trans-1,2-Dichloroethene	4.890	96	256460	1.69	ppb	#	88
7) 1,1-Dichloroethane	5.546	63	437656	1.50	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	282000	1.74	ppb		93
9) Chloroform	6.377	83	511484	1.59	ppb		99
10) Carbon Tetrachloride	6.549	117	347244	1.75	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	460357	1.71	ppb		97
12) Benzene	6.994	78	967414	1.72	ppb		96
14) 1,2-Dichloroethane	7.198	62	357979	1.54	ppb		100
15) Trichloroethene	7.571	95	292723	1.66	ppb		86
16) 1,2-Dichloropropane	8.105	63	240964	1.60	ppb		94
17) cis-1,3-Dichloropropene	8.777	75	222972	1.51	ppb		97
20) trans-1,3-Dichloropropene	9.411	75	182860	1.51	ppb		99
21) Tetrachloroethene	9.399	166	294888	1.65	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62209.D  
 Acq On : 11 Sep 2020 6:53 pm  
 Operator : SHANICAO  
 Sample : IC2414-3  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 20:45:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62210.D  
 Acq On : 11 Sep 2020 7:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-4  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 20:45:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

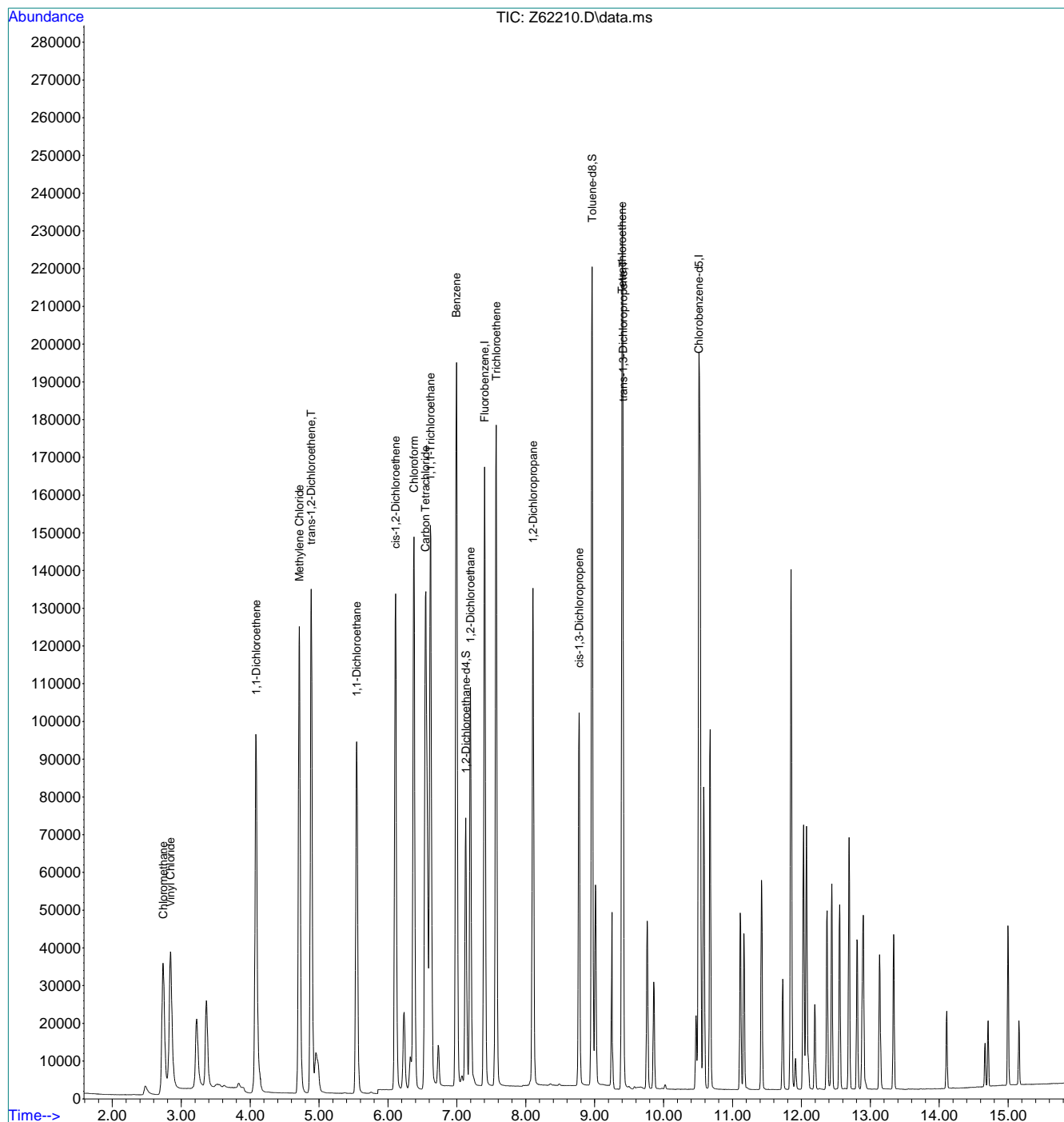
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1874569	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1501119	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	580143	4.14	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	82.80%		
19) Toluene-d8	8.961	98	1856134	5.12	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	102.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	746636	3.65	ppb		100
3) Chloromethane	2.737	50	689642	3.18	ppb		100
4) 1,1-Dichloroethene	4.087	96	578860	4.78	ppb	#	84
5) Methylene Chloride	4.713	84	844960	4.28	ppb	#	87
6) trans-1,2-Dichloroethene	4.887	96	721782	4.77	ppb		90
7) 1,1-Dichloroethane	5.546	63	1240697	4.27	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	799673	4.96	ppb		91
9) Chloroform	6.377	83	1469750	4.59	ppb		100
10) Carbon Tetrachloride	6.543	117	991099	5.00	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1287900	4.80	ppb		99
12) Benzene	6.994	78	2731897	4.86	ppb		94
14) 1,2-Dichloroethane	7.198	62	1039442	4.49	ppb		100
15) Trichloroethene	7.571	95	828558	4.70	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	697663	4.66	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	770426	4.98	ppb		99
20) trans-1,3-Dichloropropene	9.412	75	644715	4.96	ppb		99
21) Tetrachloroethene	9.399	166	826179	4.63	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62210.D  
 Acq On : 11 Sep 2020 7:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-4  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 20:45:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62211.D  
 Acq On : 11 Sep 2020 7:32 pm  
 Operator : SHANICAO  
 Sample : ICc2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 20:45:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

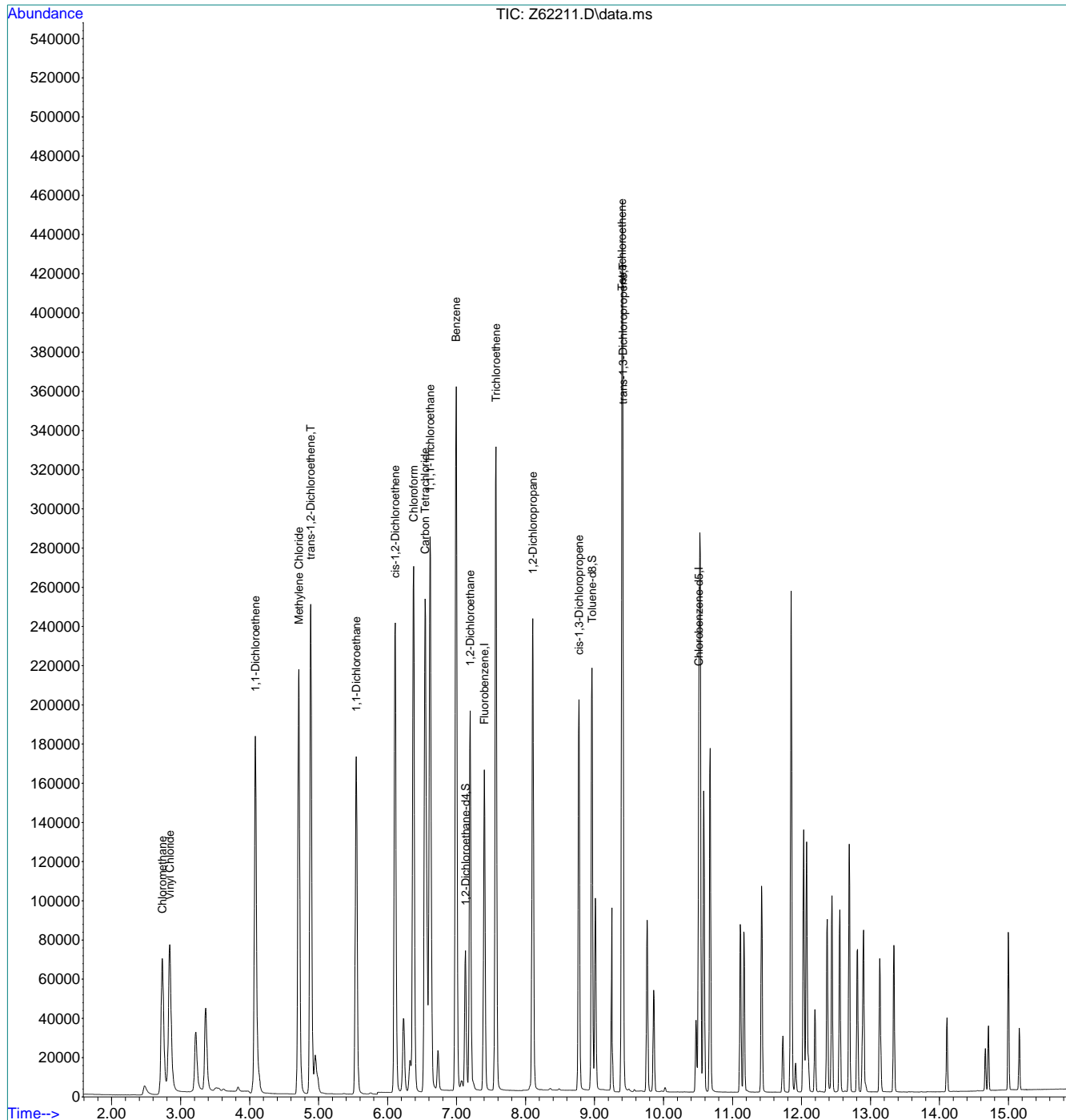
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1875869	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1507669	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	588321	4.19	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	83.80%	
19) Toluene-d8	8.961	98	1858099	5.10	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1492558	7.29	ppb		99
3) Chloromethane	2.733	50	1346933	6.21	ppb		100
4) 1,1-Dichloroethene	4.083	96	1096324	9.05	ppb	#	86
5) Methylene Chloride	4.713	84	1470542	7.68	ppb	#	86
6) trans-1,2-Dichloroethene	4.886	96	1349910	8.92	ppb		89
7) 1,1-Dichloroethane	5.546	63	2297659	7.91	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1467363	9.09	ppb		90
9) Chloroform	6.377	83	2692203	8.40	ppb		99
10) Carbon Tetrachloride	6.543	117	1927309	9.72	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2452792	9.14	ppb		99
12) Benzene	6.994	78	5069961	9.02	ppb		94
14) 1,2-Dichloroethane	7.198	62	1897782	8.19	ppb		100
15) Trichloroethene	7.571	95	1558656	8.84	ppb	#	82
16) 1,2-Dichloropropane	8.105	63	1281972	8.55	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	1534300	9.33	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	1291984	9.12	ppb		98
21) Tetrachloroethene	9.399	166	1556787	8.70	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62211.D  
 Acq On : 11 Sep 2020 7:32 pm  
 Operator : SHANICAO  
 Sample : ICC2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 20:45:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.5  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 13:35:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

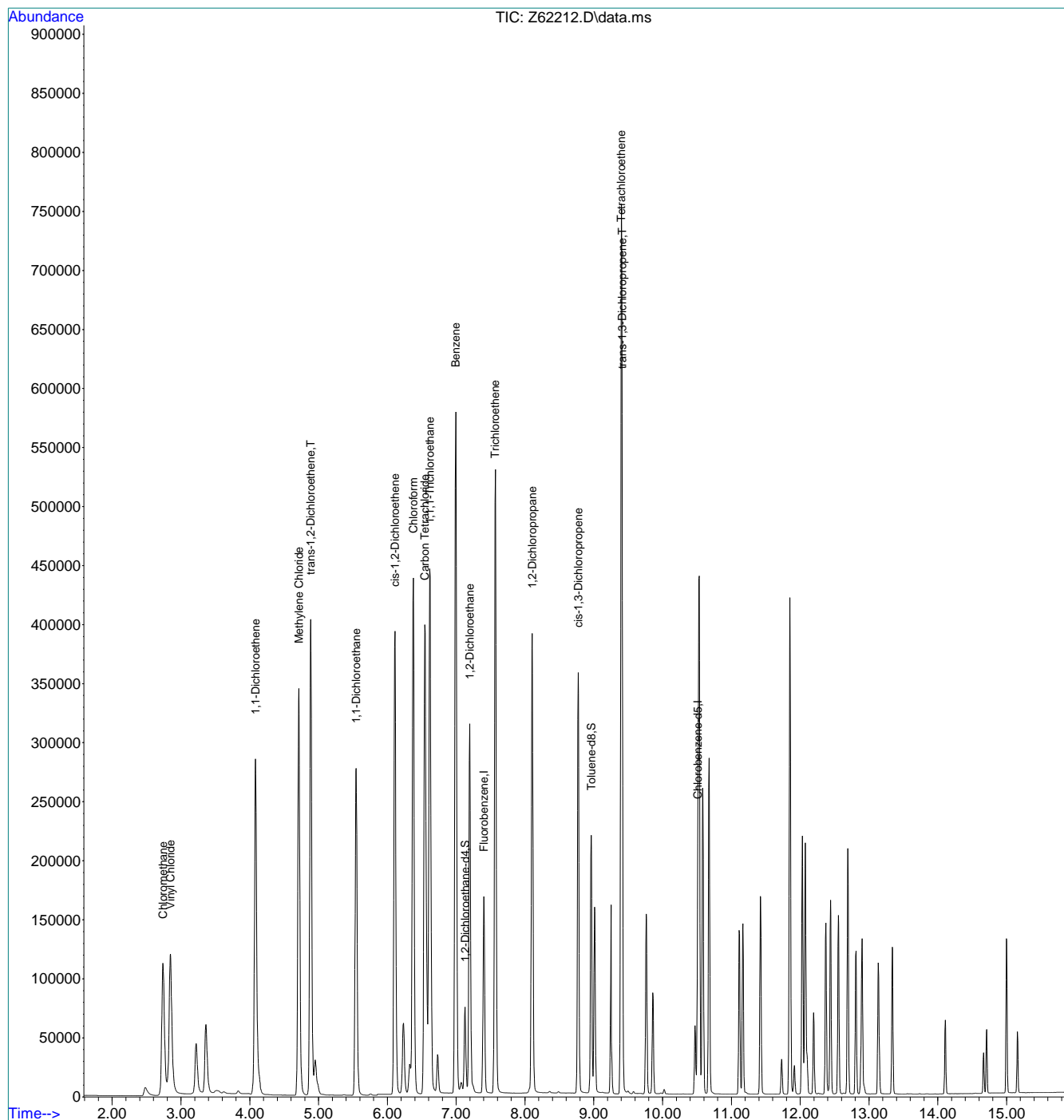
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1928565	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1554348	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	598324	4.15	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	83.00%		
19) Toluene-d8	8.961	98	1902886	5.07	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	101.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	2372157	11.27	ppb		99
3) Chloromethane	2.737	50	2193747m	9.84	ppb		
4) 1,1-Dichloroethene	4.083	96	1744774	14.01	ppb	#	85
5) Methylene Chloride	4.713	84	2365093	12.57	ppb	#	86
6) trans-1,2-Dichloroethene	4.886	96	2193890	14.11	ppb		89
7) 1,1-Dichloroethane	5.546	63	3742058	12.53	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	2407966	14.50	ppb		90
9) Chloroform	6.377	83	4396659	13.34	ppb		99
10) Carbon Tetrachloride	6.543	117	3121791	15.31	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	3949841	14.31	ppb		100
12) Benzene	6.994	78	8243521	14.26	ppb		94
14) 1,2-Dichloroethane	7.198	62	3118382	13.08	ppb		100
15) Trichloroethene	7.564	95	2545311	14.04	ppb		96
16) 1,2-Dichloropropane	8.105	63	2098124	13.62	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	2732029	15.02	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2318445	14.41	ppb		99
21) Tetrachloroethene	9.399	166	2516093	13.63	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 13:35:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



9.9.7

# Manual Integration Approval Summary

**Sample Number:** VZ2414-IC2414      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62212.D      **Analyst approved:** 09/13/20 13:47 Stuti Patel  
**Injection Time:** 09/11/20 19:51      **Supervisor approved:** 09/14/20 11:09 Juan Garcia

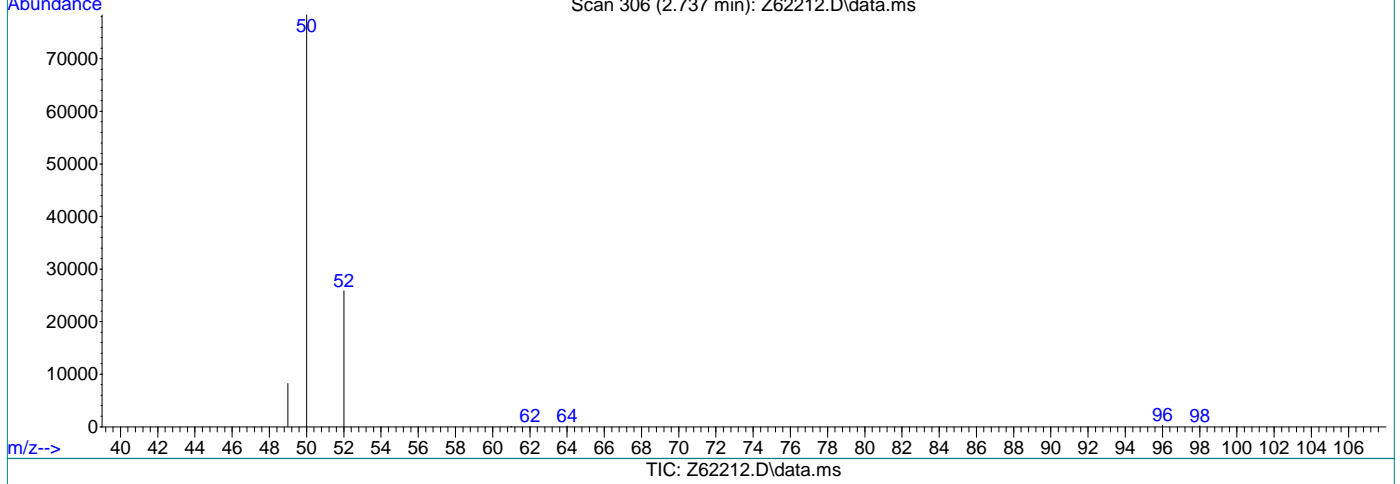
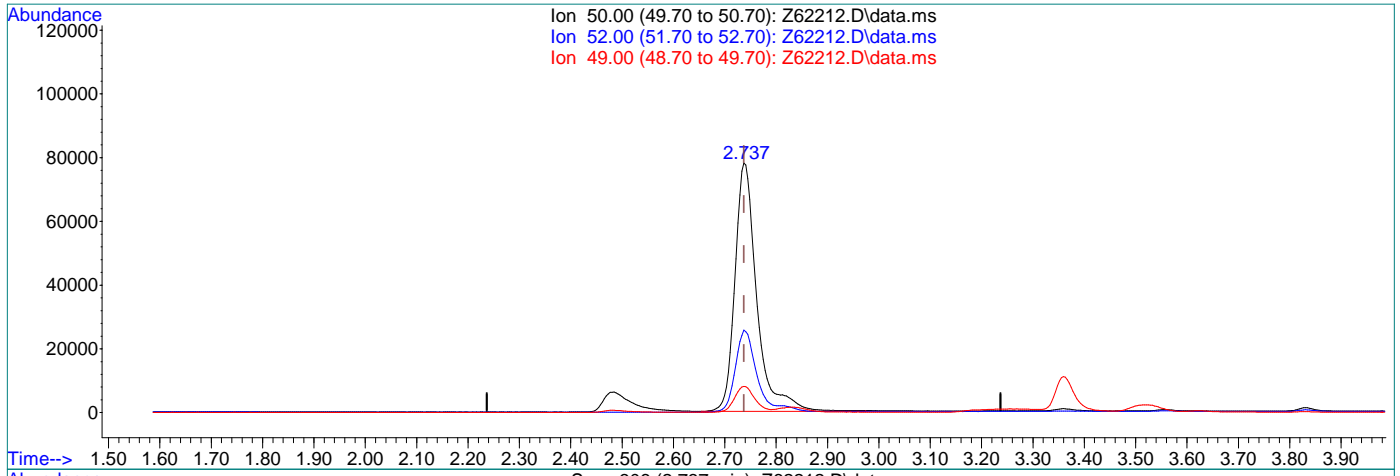
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.74	Overlapping peak

7.6.6.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 20:45:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.737min (-0.000) 10.40ppb

response 2319513

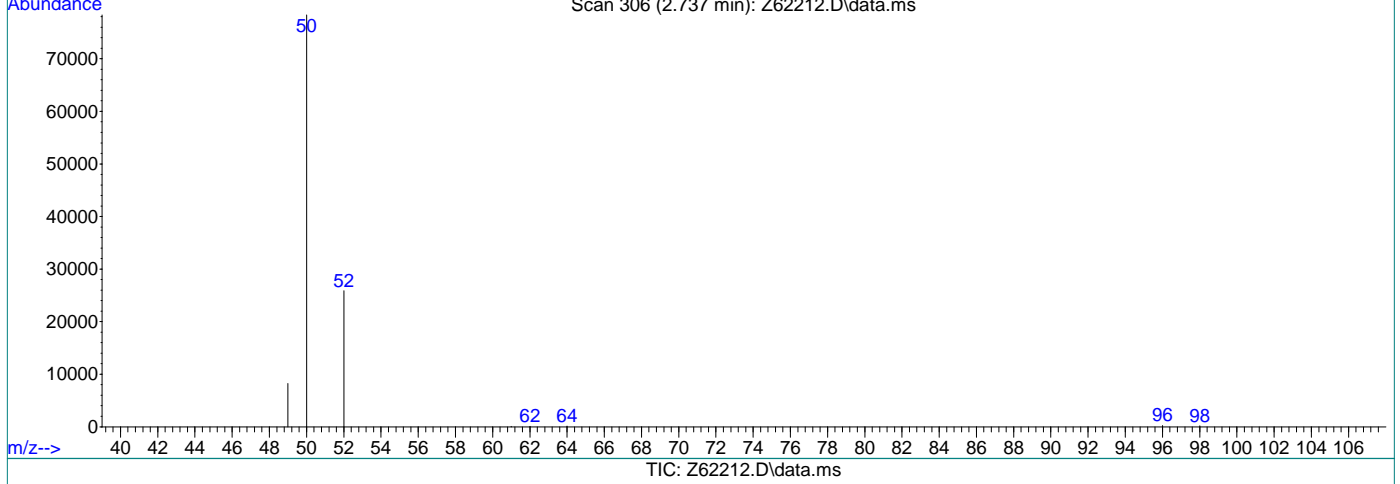
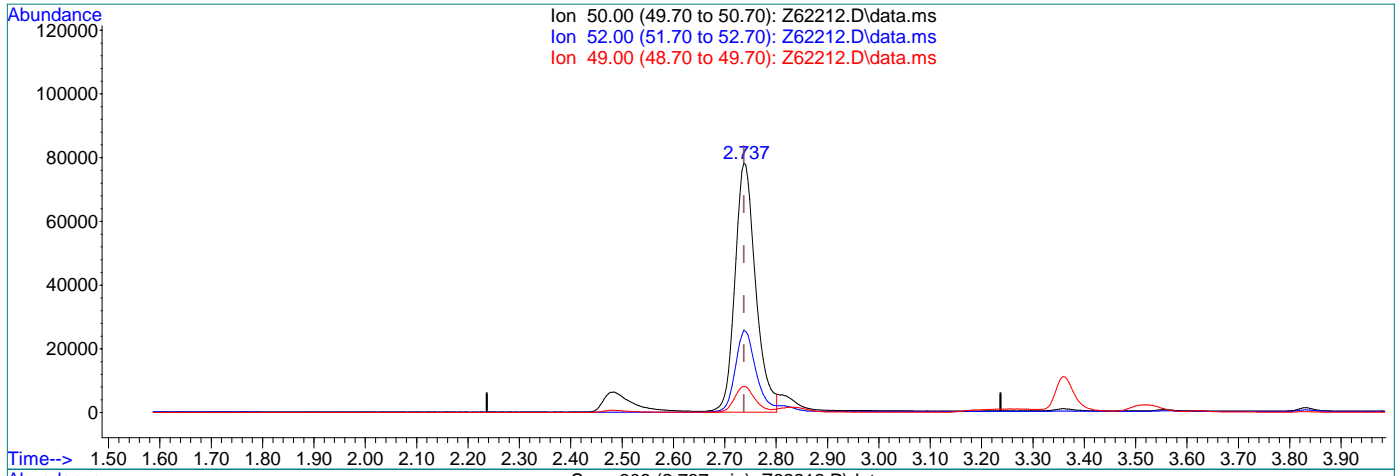
Ion	Exp%	Act%
50.00	100	100
52.00	32.60	33.01
49.00	10.80	10.46
0.00	0.00	0.00

7.6.6.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 20:45:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane  
 2.737min (-0.000) 9.84ppb m  
 response 2193747

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	33.03
49.00	10.80	10.53
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 13:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

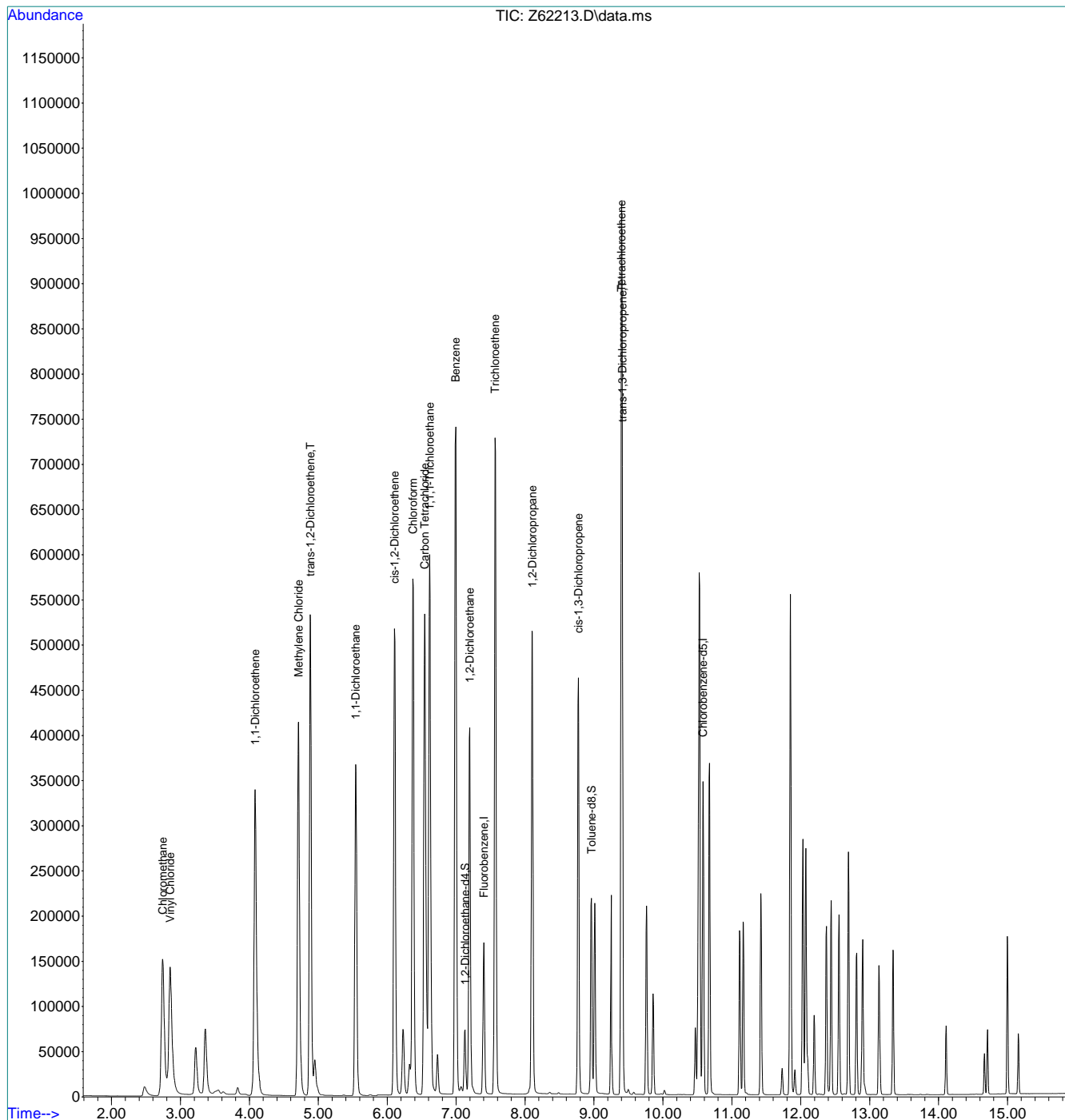
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1917621	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.583	117	1788256	5.00	ppb	# 0.07	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	594422	4.14	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.80%	
19) Toluene-d8	8.961	98	1887402	4.37	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.850	62	3290825	15.73	ppb		100
3) Chloromethane	2.741	50	3221181m	14.53	ppb		
4) 1,1-Dichloroethene	4.083	96	2349554	18.97	ppb	#	85
5) Methylene Chloride	4.713	84	3082122	17.24	ppb	#	85
6) trans-1,2-Dichloroethene	4.886	96	2926695	18.93	ppb	#	87
7) 1,1-Dichloroethane	5.542	63	4937816	16.63	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	3175295	19.23	ppb		94
9) Chloroform	6.371	83	5799532	17.70	ppb		99
10) Carbon Tetrachloride	6.543	117	4140429	20.43	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	5188910	18.91	ppb		100
12) Benzene	6.994	78	10899346	18.97	ppb		93
14) 1,2-Dichloroethane	7.198	62	4096394	17.29	ppb		100
15) Trichloroethene	7.564	95	3527962	19.57	ppb		93
16) 1,2-Dichloropropane	8.105	63	2768908	18.07	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	3527102	18.66	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2974601m	15.72	ppb		
21) Tetrachloroethene	9.399	166	3343761	15.75	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 13:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.7

# Manual Integration Approval Summary

**Sample Number:** VZ2414-IC2414      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62213.D      **Analyst approved:** 09/13/20 13:47 Stuti Patel  
**Injection Time:** 09/11/20 20:13      **Supervisor approved:** 09/14/20 11:09 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.74	Overlapping peak
trans-1,3-Dichloropropene	10061-02-6		9.41	Missed peak

7.6.7.1

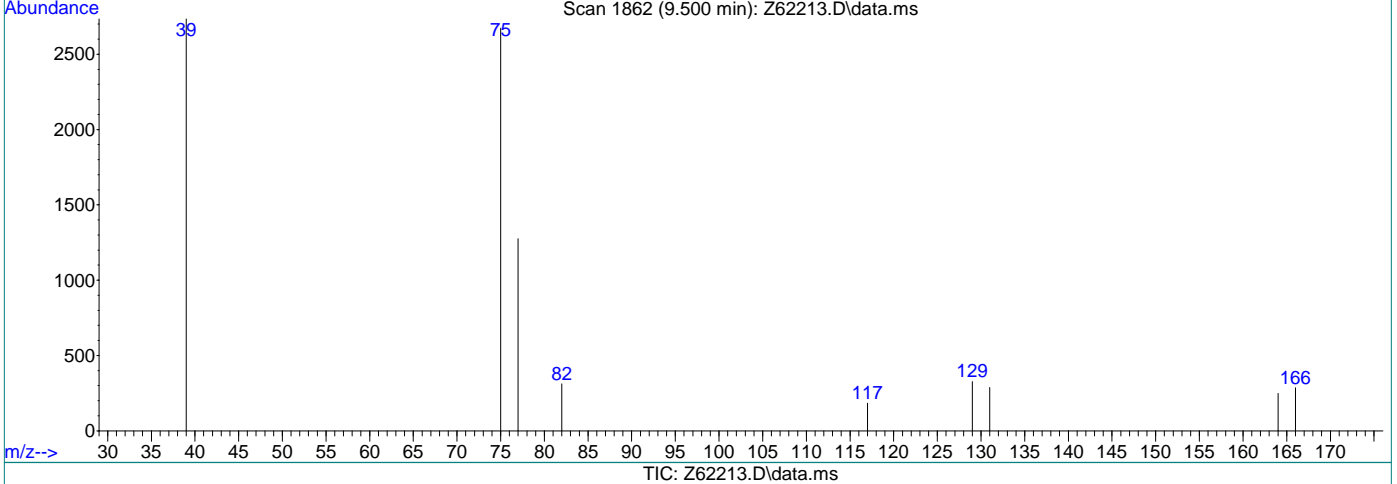
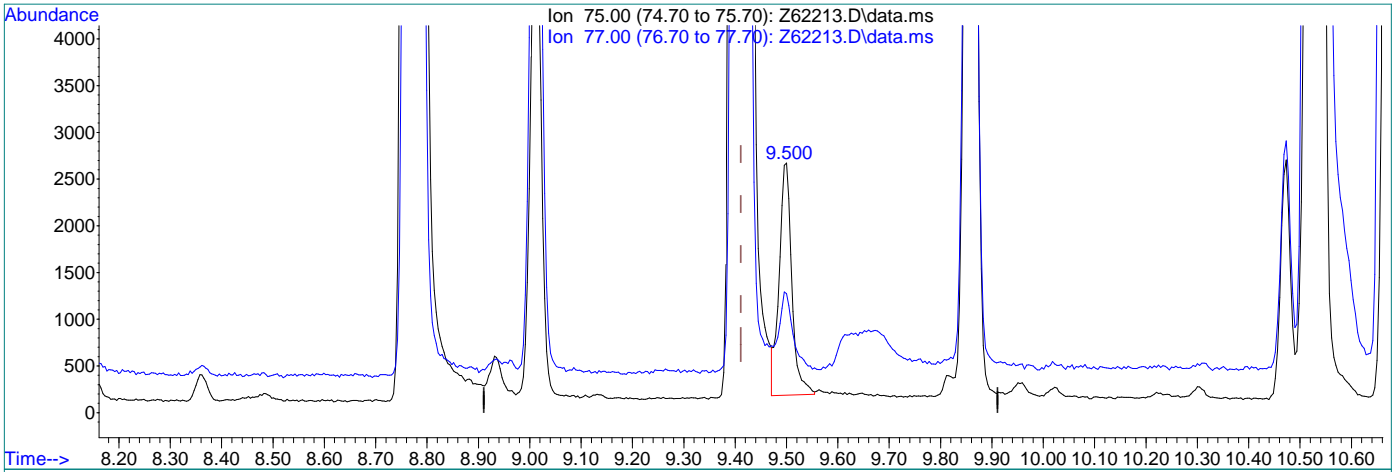
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:45:34 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.500min (+0.089) 0.30ppb

response 42280

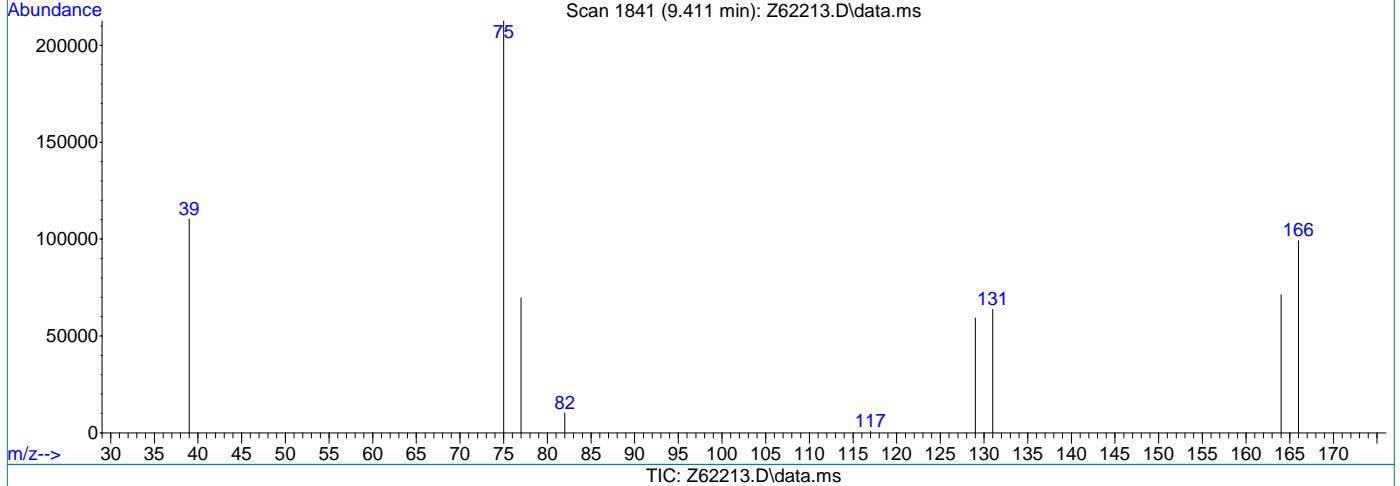
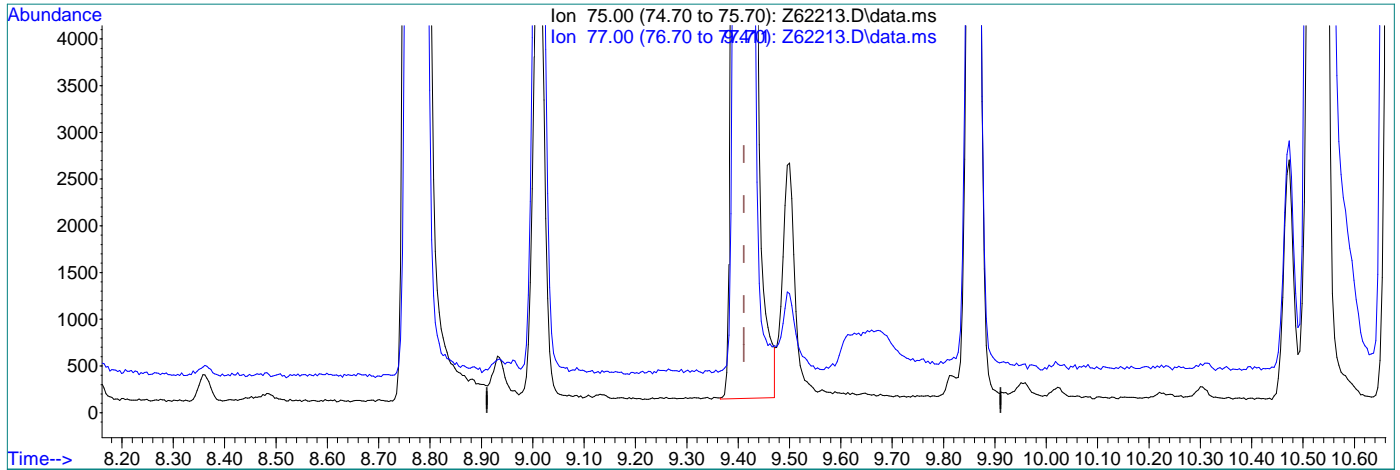
Ion	Exp%	Act%
75.00	100	100
77.00	31.50	32.52
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:45:34 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.411min (+0.000) 15.72ppb m

response 2974601

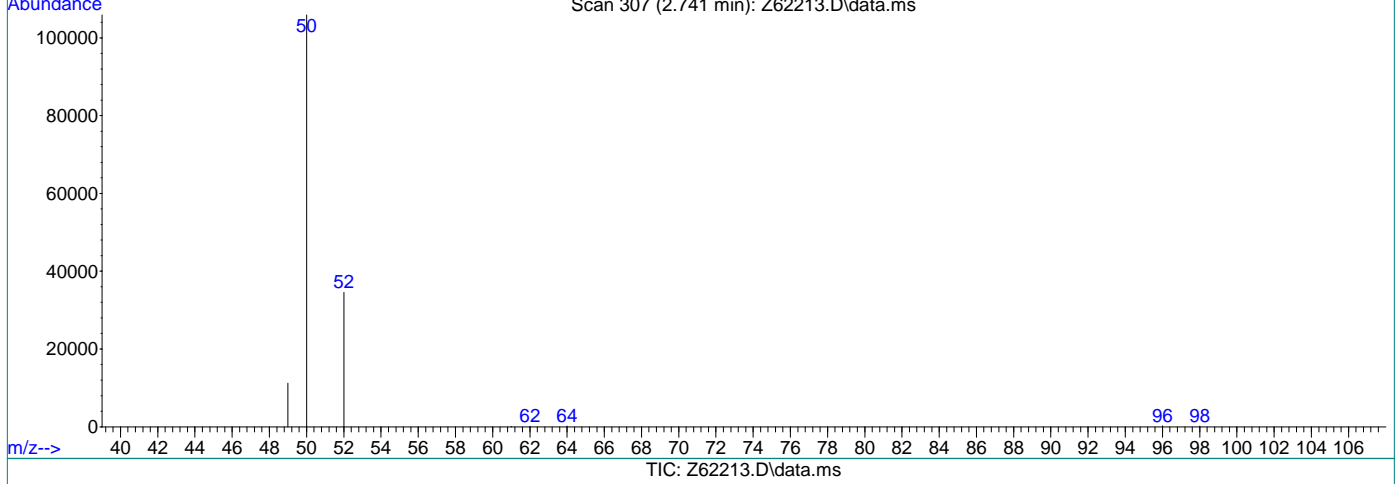
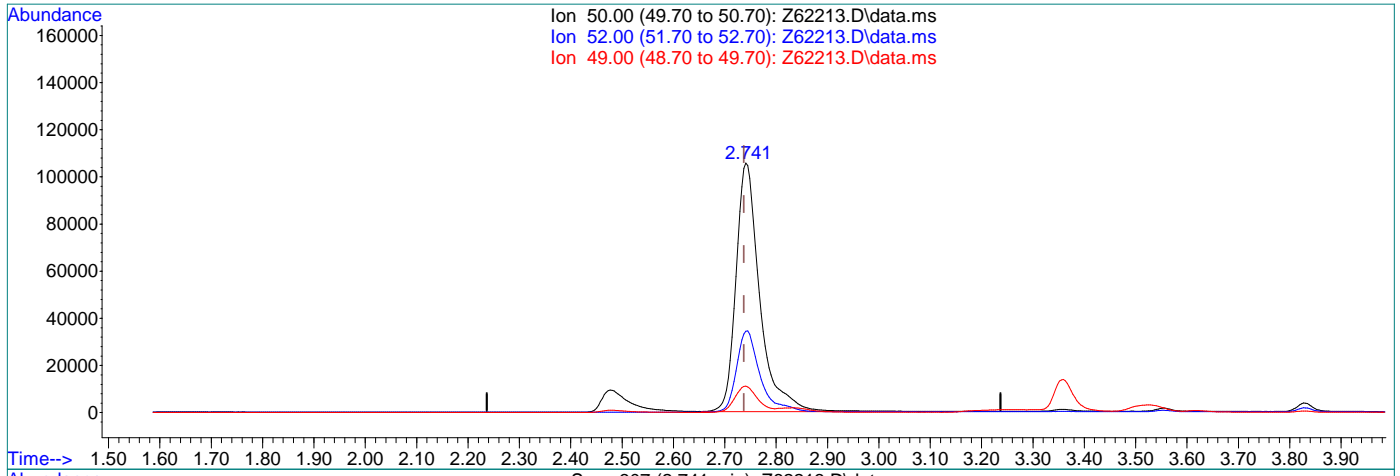
Ion	Exp%	Act%
75.00	100	100
77.00	31.50	32.77
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:49:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



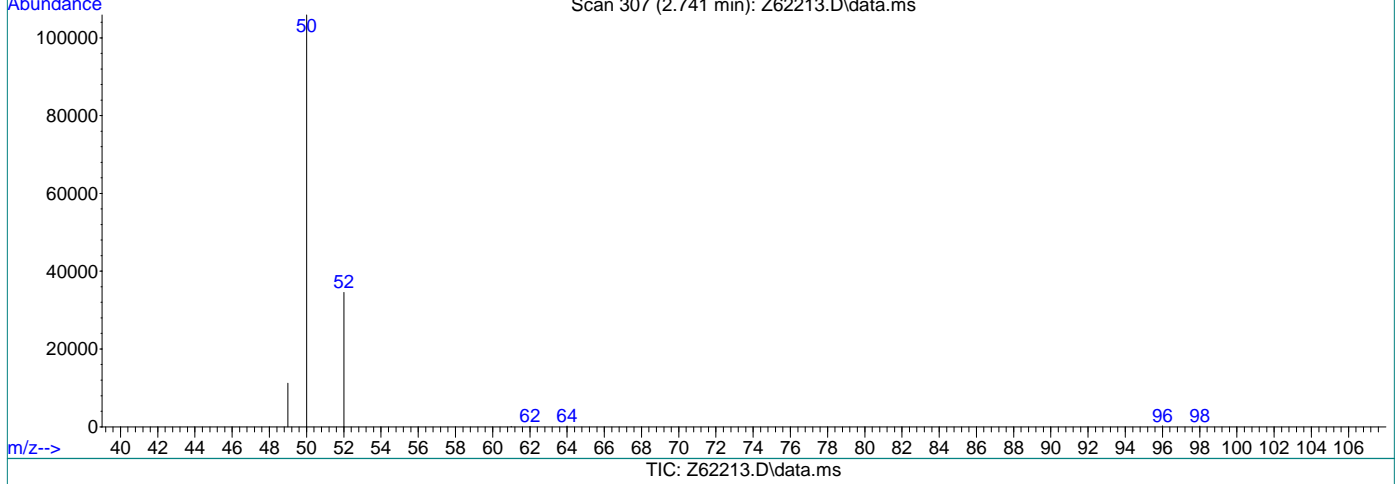
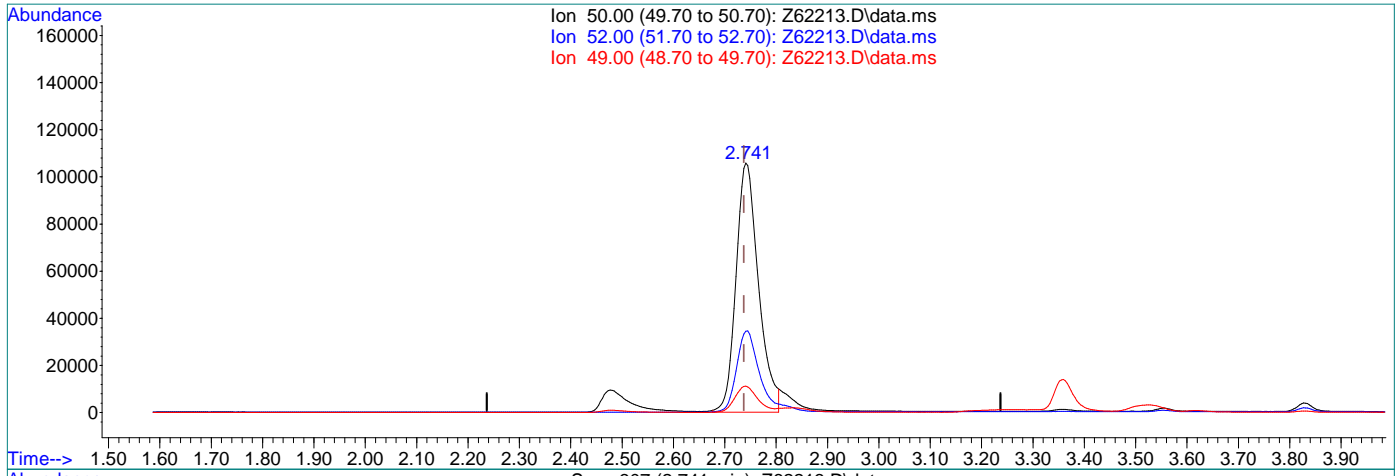
(3) Chloromethane  
 2.741min (+0.004) 15.35ppb  
 response 3403148

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	32.61
49.00	10.80	10.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:49:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.741min (+0.004) 14.53ppb m

response 3221181

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	32.60
49.00	10.80	10.61
0.00	0.00	0.00

7.6.7.5  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62215.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : SHANICAO  
 Sample : ICV2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 13:41:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.402	96	1913422	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.512	117	1533777	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.131	65	601973	5.09	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.80%	
19) Toluene-d8	8.962	98	1888455	5.07	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1616654	10.13	ppb		99
3) Chloromethane	2.733	50	1398748	9.96	ppb		100
4) 1,1-Dichloroethene	4.083	96	1273981	10.99	ppb	#	85
5) Methylene Chloride	4.713	84	1568776	9.19	ppb	#	87
6) trans-1,2-Dichloroethene	4.886	96	1451630	10.28	ppb		91
7) 1,1-Dichloroethane	5.546	63	2482127	10.36	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1578267	10.06	ppb		91
9) Chloroform	6.377	83	2861428	9.95	ppb		99
10) Carbon Tetrachloride	6.543	117	2066805	10.59	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2614500	10.38	ppb		100
12) Benzene	6.995	78	5609186	10.53	ppb		94
14) 1,2-Dichloroethane	7.199	62	2071875	10.32	ppb		100
15) Trichloroethene	7.565	95	1708163	10.45	ppb		95
16) 1,2-Dichloropropane	8.106	63	1410167	10.40	ppb		94
17) cis-1,3-Dichloropropene	8.774	75	1756808	10.89	ppb		98
20) trans-1,3-Dichloropropene	9.412	75	1511145	11.39	ppb		98
21) Tetrachloroethene	9.400	166	1702489	10.36	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

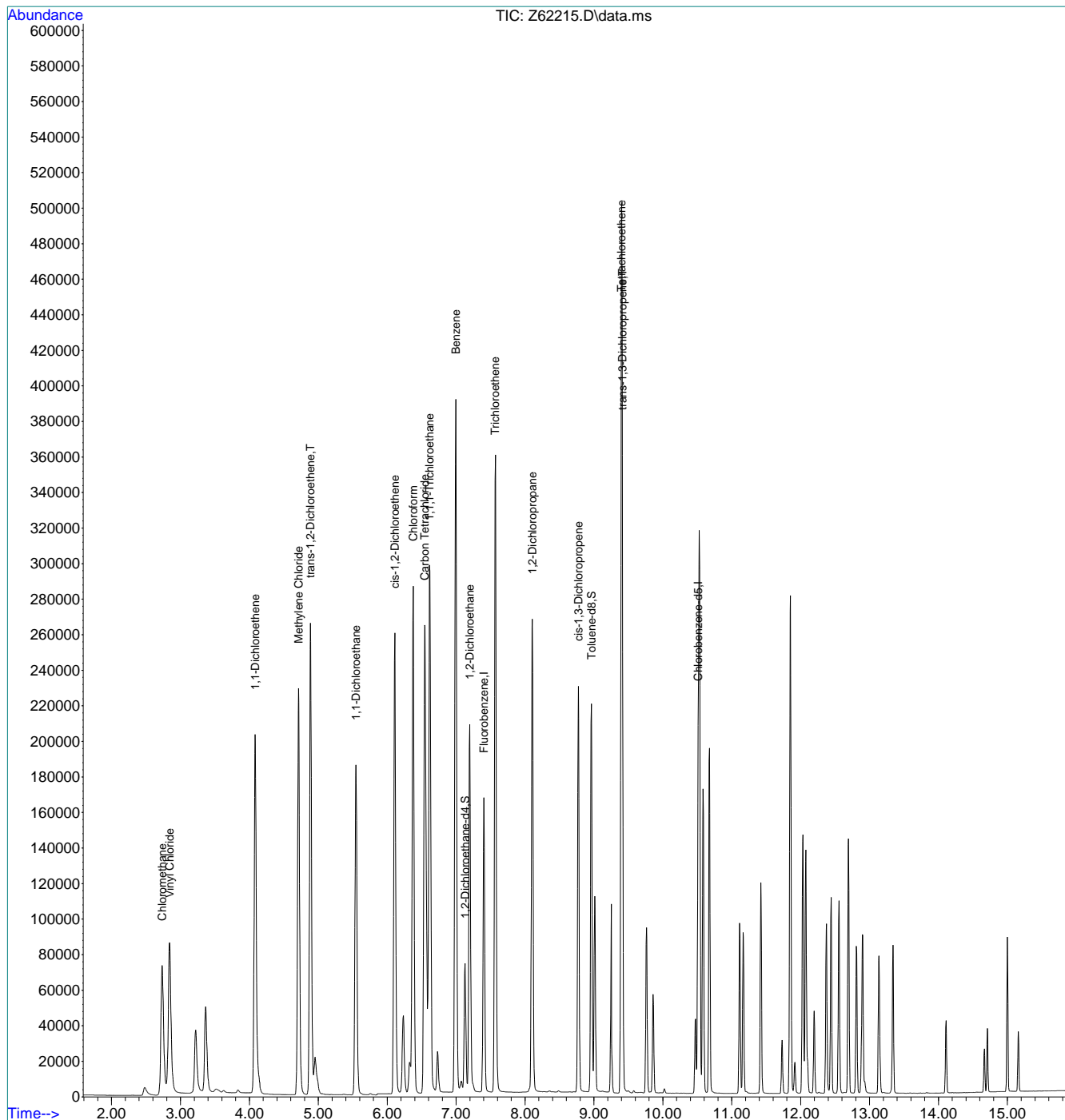
7.6.8  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62215.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : SHANICAO  
 Sample : ICV2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 13:41:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



8'9'7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\VZ2414\  
 Data File : Z62235.d  
 Acq On : 12 Sep 2020 3:16 am  
 Operator : SHANICAO  
 Sample : ECC2414-5  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 14 02:09:11 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1929563	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1554143	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	610585	5.12	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	102.40%		
19) Toluene-d8	8.961	98	1893905	5.02	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	100.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	1772091	11.01	ppb		100
3) Chloromethane	2.726	50	1490339	10.46	ppb		100
4) 1,1-Dichloroethene	4.083	96	1097875	9.39	ppb	#	88
5) Methylene Chloride	4.713	84	1464506	8.42	ppb	#	88
6) trans-1,2-Dichloroethene	4.886	96	1350760	9.49	ppb		91
7) 1,1-Dichloroethane	5.546	63	2321173	9.61	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	1456523	9.20	ppb		91
9) Chloroform	6.377	83	2696736	9.30	ppb		99
10) Carbon Tetrachloride	6.543	117	1844815	9.37	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2435030	9.58	ppb		99
12) Benzene	6.994	78	5055553	9.41	ppb		95
14) 1,2-Dichloroethane	7.198	62	1912234	9.45	ppb		100
15) Trichloroethene	7.564	95	1548778	9.40	ppb		96
16) 1,2-Dichloropropane	8.105	63	1277876	9.35	ppb		95
17) cis-1,3-Dichloropropene	8.773	75	1324043	8.42	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	1102331	8.31	ppb		99
21) Tetrachloroethene	9.399	166	1564320	9.28	ppb		99

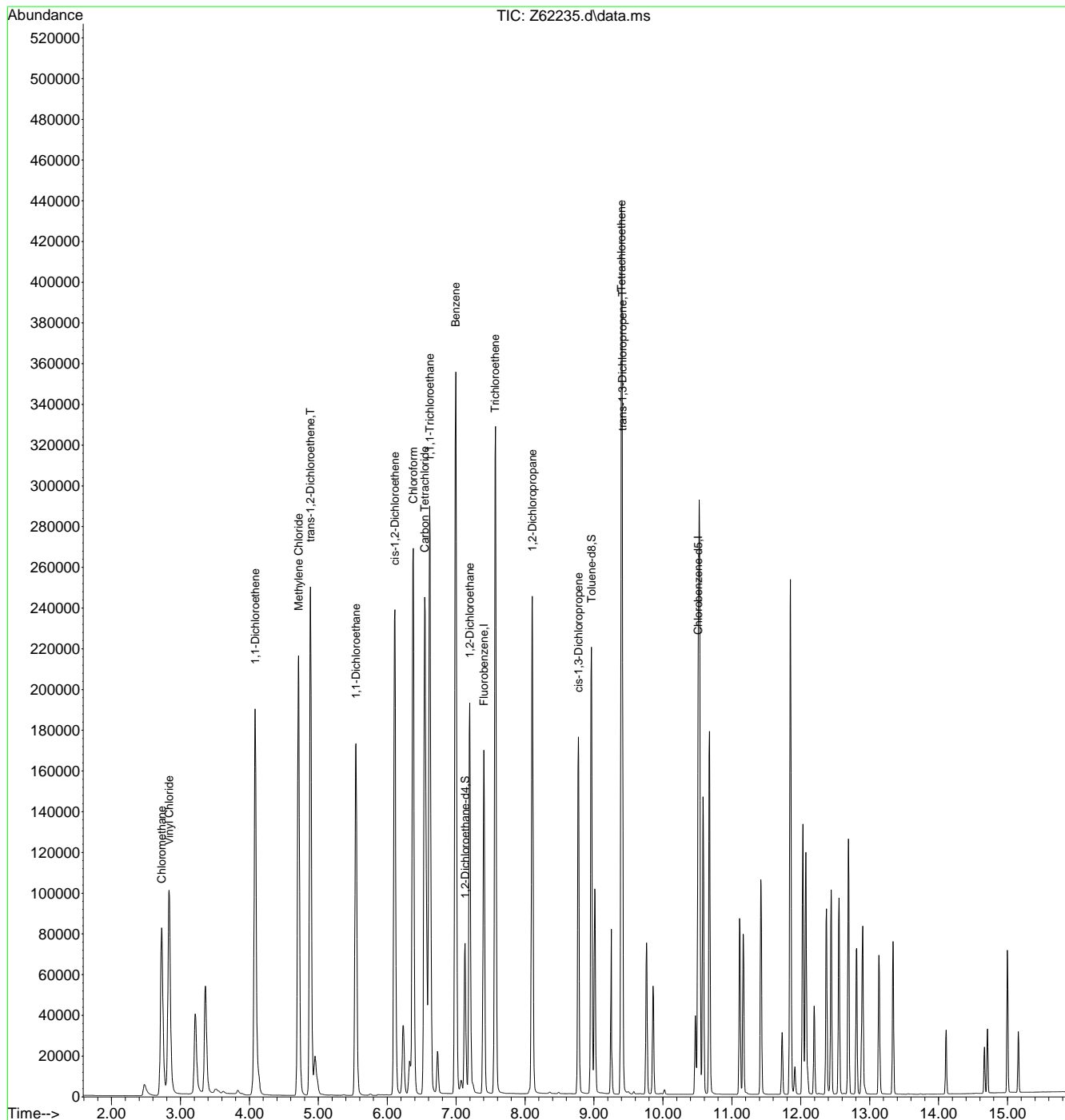
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-14-2020\vz2414\  
 Data File : Z62235.d  
 Acq On : 12 Sep 2020 3:16 am  
 Operator : SHANICAO  
 Sample : ECC2414-5  
 Misc : MS47183,VZ2414,,,,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 14 02:09:11 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



6.9.7





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2415\  
 Data File : Z62239.d  
 Acq On : 12 Sep 2020 11:07 am  
 Operator : stutip  
 Sample : CC2414-5  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 06:27:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Fluorobenzene	7.401	96	2158555	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1730511	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	661326	4.95	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	99.00%		
19) Toluene-d8	8.958	98	2125770	5.06	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	101.20%		
Target Compounds							Qvalue
2) Vinyl Chloride	2.835	62	2092269	11.61	ppb		99
3) Chloromethane	2.729	50	1936156	11.92	ppb		99
4) 1,1-Dichloroethene	4.083	96	1441507	11.02	ppb	#	87
5) Methylene Chloride	4.713	84	2154101	11.52	ppb	#	87
6) trans-1,2-Dichloroethene	4.886	96	1882875	11.82	ppb		89
7) 1,1-Dichloroethane	5.542	63	3261806	12.07	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	2062956	11.65	ppb		94
9) Chloroform	6.371	83	3739879	11.53	ppb		99
10) Carbon Tetrachloride	6.543	117	2521961	11.45	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	3277786	11.53	ppb		99
12) Benzene	6.994	78	7089174	11.80	ppb		93
14) 1,2-Dichloroethane	7.191	62	2599457	11.48	ppb		100
15) Trichloroethene	7.564	95	2027887	11.00	ppb		92
16) 1,2-Dichloropropane	8.101	63	1776959	11.62	ppb		95
17) cis-1,3-Dichloropropene	8.773	75	2428004	12.97	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2063618	13.66	ppb		98
21) Tetrachloroethene	9.399	166	2078330	11.33	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

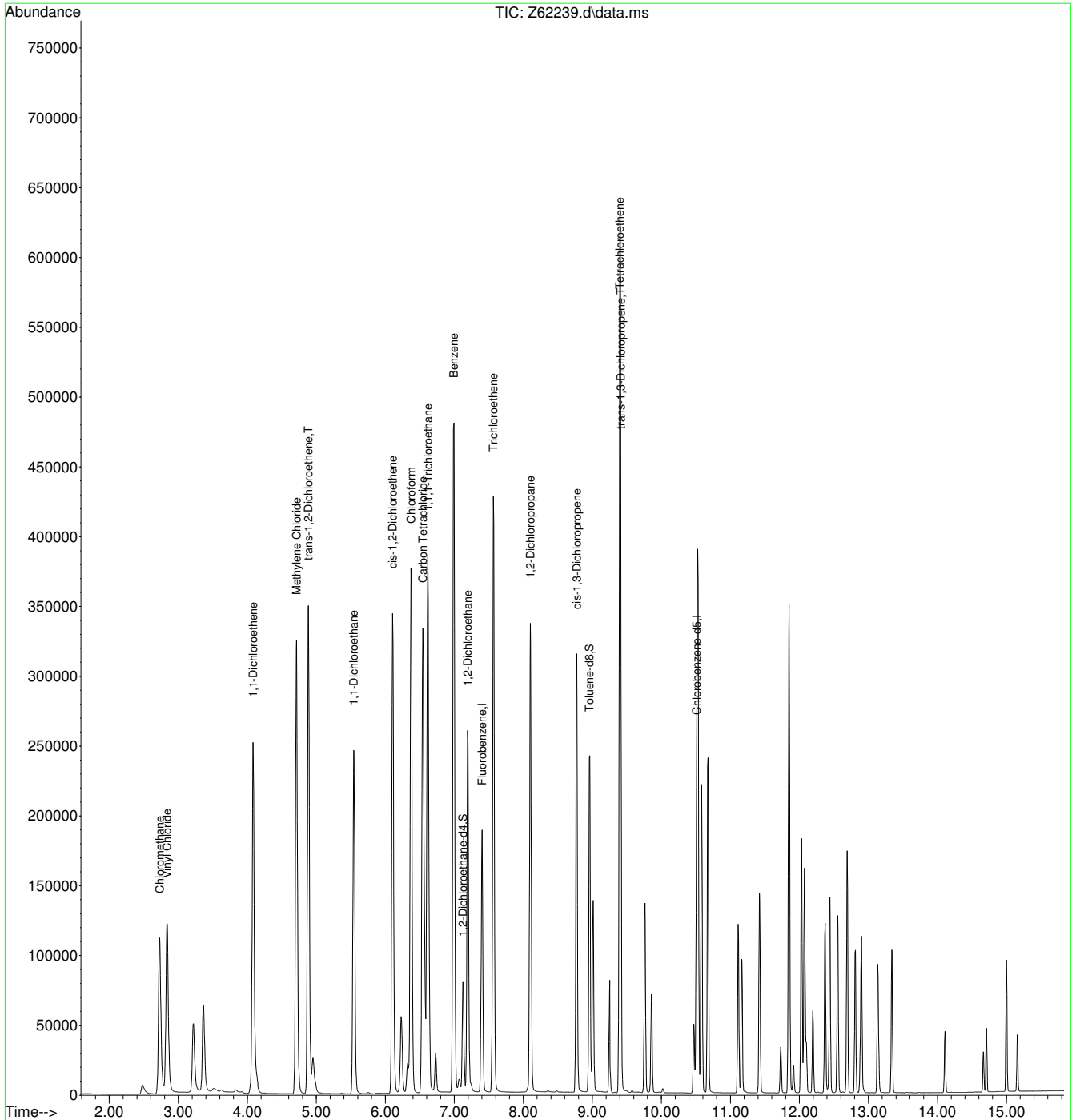
7.6.10  
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62239.d  
 Acq On : 12 Sep 2020 11:07 am  
 Operator : stutip  
 Sample : CC2414-5  
 Misc : MS47183,VZ2415,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 06:27:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.10  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62256.d  
 Acq On : 12 Sep 2020 4:41 pm  
 Operator : stutip  
 Sample : ecc2414-5  
 Misc : MS47192,VZ2415,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 14 06:28:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1867030	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1507510	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	605218	5.24	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	104.80%	
19) Toluene-d8	8.961	98	1824102	4.98	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%	
Target Compounds							
2) Vinyl Chloride	2.842	62	1969022	12.63	ppb	100	Qvalue
3) Chloromethane	2.733	50	1743253	12.35	ppb	100	
4) 1,1-Dichloroethene	4.087	96	1306275	11.55	ppb	#	87
5) Methylene Chloride	4.717	84	1874685	11.60	ppb	#	87
6) trans-1,2-Dichloroethene	4.890	96	1657815	12.03	ppb		90
7) 1,1-Dichloroethane	5.546	63	2907593	12.44	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1830803	11.95	ppb		94
9) Chloroform	6.377	83	3412956	12.16	ppb		99
10) Carbon Tetrachloride	6.549	117	2133383	11.20	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	2932832	11.93	ppb		100
12) Benzene	6.994	78	6357119	12.23	ppb		96
14) 1,2-Dichloroethane	7.198	62	2490227	12.71	ppb		100
15) Trichloroethene	7.571	95	1939959	12.17	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	1627814	12.31	ppb		96
17) cis-1,3-Dichloropropene	8.773	75	1656672	10.57	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	1375417	10.59	ppb		99
21) Tetrachloroethene	9.399	166	1887067	11.88	ppb		98
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

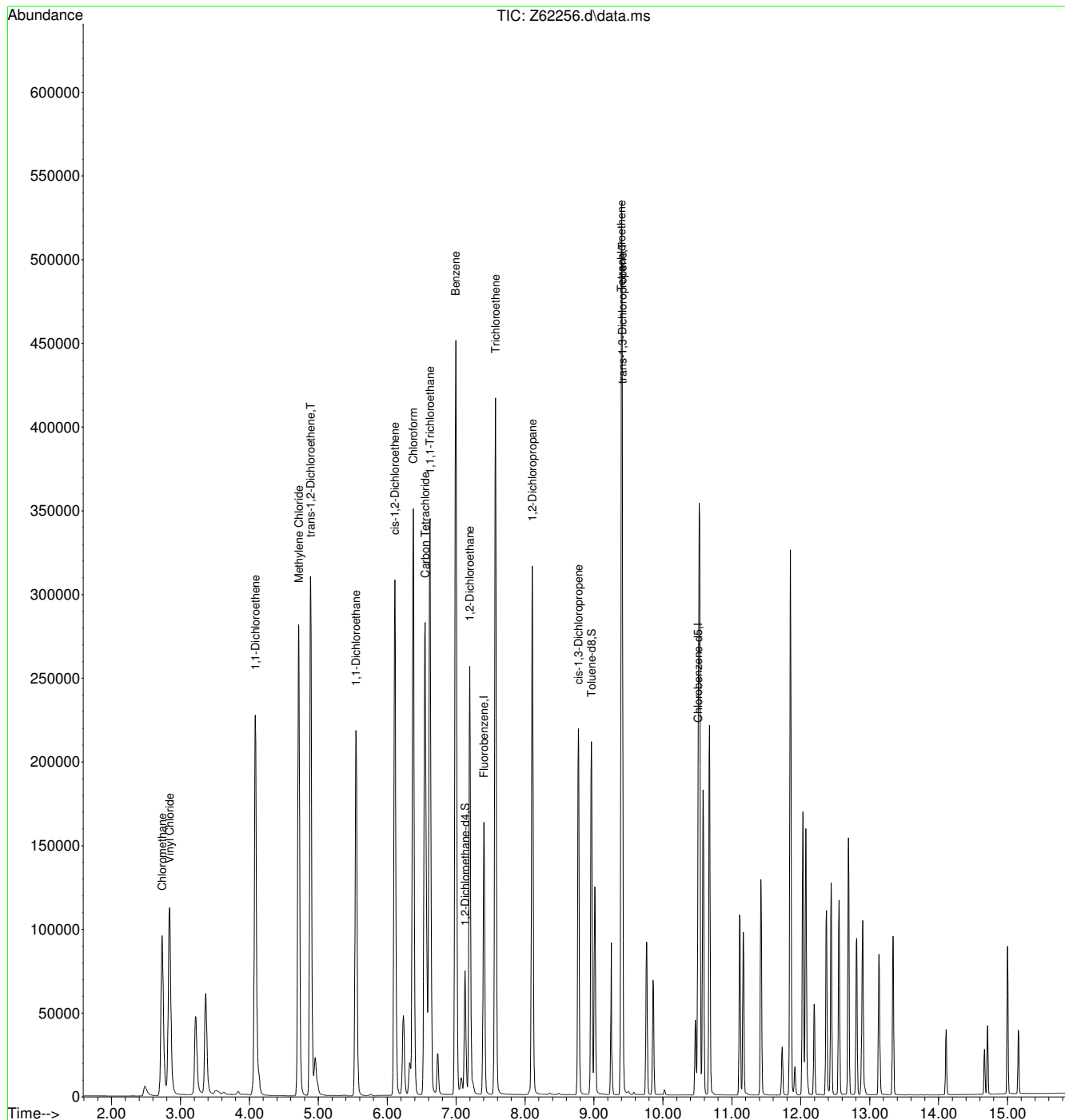
7.6.11  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2415\  
 Data File : Z62256.d  
 Acq On : 12 Sep 2020 4:41 pm  
 Operator : stutip  
 Sample : ecc2414-5  
 Misc : MS47192,VZ2415,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 14 06:28:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.11  
7

MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/11/20		METHOD(S): SimCI		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814				
COLUMN TYPE: RTX-VMS		METHOD FILE(S): simcl0911120.m		ICAL/CC: VS0806, VS0804		0 to 3 pH lot#: 220416				
DETECTOR: 5975C MSD		CALIB. DATE: 09/11/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117				
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0802, VS0805		Processed BY: SO/SPIES				
PURGE PRESSURE: 9.7psi		BFB Response: 15262853		AFA: VS0418A		SAMPLE ID VERIFIED BY: stutip				
PURGE VOLUME: 5 mL		RUN ID: VZ2414		DATE VERIFIED: 09/14/20		COMMENTS				
ANALYST: STUTIP										
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL ?	RR
Z62205	BFB	-	-	w	1	bfb		-	-	-
Z62206	MB	-	-	w	2	acq_simcl0214		-	-	-
Z62207	IC2414-1	-	-	w	3	acq_simcl0214		-	-	-
Z62208	IC2414-2	-	-	w	4	acq_simcl0214		-	-	-
Z62209	IC2414-3	-	-	w	5	acq_simcl0214		-	-	-
Z62210	IC2414-4	-	-	w	6	acq_simcl0214		-	-	-
Z62211	IC2414-5	-	-	w	7	acq_simcl0214		-	-	-
Z62212	IC2414-6	-	-	w	8	acq_simcl0214	op-3	-	-	-
Z62213	IC2414-7	-	-	w	9	acq_simcl0214	mp-20,op-3	-	-	-
Z62214	MB	-	-	w	10	acq_simcl0214		-	-	-
Z62215	ICV2414-5	-	-	w	11	acq_simcl0214		-	-	-
Z62216	BS	-	-	w	12	acq_simcl0214		-	-	-
Z62217	MB	-	-	w	13	acq_simcl0214		-	-	-
Z62218	MB	-	-	w	14	acq_simcl0214		-	-	-
Z62219	FA78573-1	-	2	w	15	acq_simcl0214		1	NO	-
Z62220	FA78573-2	-	2	w	16	acq_simcl0214		1	NO	-
Z62221	FA78573-3	-	2	w	17	acq_simcl0214		1	NO	-
Z62222	FA78573-4	-	2	w	18	acq_simcl0214		1	NO	-
Z62223	FA78573-5	-	2	w	19	acq_simcl0214		1	NO	-
Z62224	FA78573-6	-	2	w	20	acq_simcl0214		1	NO	-
Z62225	FA78573-7	-	2	w	21	acq_simcl0214		1	NO	-
Z62226	FA78573-8	-	2	w	22	acq_simcl0214		1	NO	-
Z62227	FA78573-9	-	2	w	23	acq_simcl0214		1	NO	-
Z62228	FA78573-10	-	2	w	24	acq_simcl0214		1	NO	-
Z62229	FA78573-11	-	2	w	25	acq_simcl0214		1	NO	-
Z62230	FA78573-12	-	2	w	26	acq_simcl0214		1	NO	-
Z62231	FA78573-13	-	2	w	27	acq_simcl0214		1	NO	-
Z62232	FA78573-14	-	2	w	28	acq_simcl0214		1	NO	-
Z62233	FA78573-1MS,10	-	2	w	29	acq_simcl0214	5ml-50ml	1	NO	-
Z62234	FA78573-1MSD,10	-	2	w	30	acq_simcl0214	5ml-50ml	1	NO	-
Z62235	ECC2414-5	-	-	w	31	acq_simcl0214		-	-	-

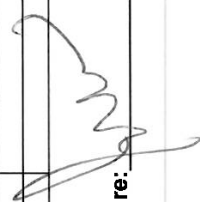
Analyst's Signature: 



MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/12/20		METHOD FILE(s): * SimCI		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814				
COLUMN TYPE: RTX-VMS		METHOD FILE(s): simcl091120.m		ICAL/CC: VS0806, VS0804		0 to 3 pH lot#: 220416				
DETECTOR: 5975C MSD		CALIB. DATE: 09/11/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117				
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0802, VS0805		Processed BY: Johnm				
PURGE PRESSURE: 9.7psi		BFB Response: 20758140		AFA: VS0418A		SAMPLE ID VERIFIED BY: stutip				
PURGE VOLUME: 5 mL		RUN ID: VZ2415		DATE VERIFIED: 09/14/20		COMMENTS				
ANALYST: STUTIP										
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR
Z62236	BLK	-	-	w	1	acq_simcl0214		-	-	✓
Z62237	BLK	-	-	w	2	acq_simcl0214		-	-	✓
Z62238	BFB	-	-	w	3	bf		-	-	Passed Autofind
Z62239	CC2414-5	-	-	w	4	acq_simcl0214		-	-	50µL→50mL ✓
Z62240	BS	-	-	w	5	acq_simcl0214		-	-	20µL→40mL ✓
Z62241	MB	-	-	w	6	acq_simcl0214		-	-	ND ✓
Z62242	MB	-	-	w	7	acq_simcl0214		-	-	ND ✓
Z62243	fa78573-15	1x	2	w	8	acq_simcl0214		1	n	ND ✓
Z62244	fa78573-16	1x	2	w	9	acq_simcl0214		1	n	✓
Z62245	fa78573-17	1x	2	w	10	acq_simcl0214		1	n	✓
Z62246	fa78573-18	1x	3	w	11	acq_simcl0214		1	n	✓
Z62247	fa78571-16	1x	1	w	12	acq_simcl0214		1	n	✓
Z62248	fa78571-17	1x	1	w	13	acq_simcl0214		1	n	✓
Z62249	fa78571-18	1x	1	w	14	acq_simcl0214		1	n	ND ✓
Z62250	fa78571-19	1x	1	w	15	acq_simcl0214		1	n	✓
Z62251	fa78571-20	1x	1	w	16	acq_simcl0214		1	n	✓
Z62252	fa78571-21	1x	1	w	17	acq_simcl0214		1	n	✓
Z62253	fa78571-22	1x	1	w	18	acq_simcl0214		1	n	✓
Z62254	fa78571-16ms,10	10x	1	w	19	acq_simcl0214	5ml-50ml	1	n	20µL→40mL ✓
Z62255	fa78571-16msd,10	10x	1	w	20	acq_simcl0214	5ml-50ml	1	n	20µL→40mL ✓
Z62256	ecc2414-5	-	-	w	21	acq_simcl0214		-	-	50µL→50mL ✓

Analyst's Signature: 

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWM - OUCTP A 3Q2020)

SGS Job Number: FA79149

Sampling Date: 09/23/20

Report to:

Ahtna Global, LLC  
9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
dlieberman@ahtna.net; mfisher@ahtna.net;  
hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: **223**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA79149

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWM - OUCTP A 3Q2020)

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA79149-1	09/23/20	09:40 SB	09/25/20	AQ	Ground Water	2039XOU2266F
FA79149-2	09/23/20	10:00 SB	09/25/20	AQ	Ground Water	2039XOU2267F
FA79149-3	09/23/20	10:28 SB	09/25/20	AQ	Ground Water	2039X0BW268F
FA79149-4	09/23/20	10:41 SB	09/25/20	AQ	Ground Water	2039XOU2269F
FA79149-5	09/23/20	11:10 SB	09/25/20	AQ	Ground Water	2039XOU2270F
FA79149-6	09/23/20	11:15 SB	09/25/20	AQ	Ground Water	2039XOU2271D
FA79149-7	09/23/20	11:29 SB	09/25/20	AQ	Ground Water	2039X0BW272F
FA79149-8	09/23/20	11:55 SB	09/25/20	AQ	Ground Water	2039X0BW273F
FA79149-9	09/23/20	12:13 SB	09/25/20	AQ	Ground Water	2039X0BW274F
FA79149-10	09/23/20	12:35 SB	09/25/20	AQ	Ground Water	2039X0BW275F
FA79149-11	09/23/20	12:49 SB	09/25/20	AQ	Ground Water	2039X0BW276F
FA79149-12	09/23/20	13:10 SB	09/25/20	AQ	Ground Water	2039X0BW277F
FA79149-13	09/23/20	15:35 SB	09/25/20	AQ	Ground Water	2039X0BW278F



## Sample Summary

(continued)

Ahtna Global, LLC

**Job No:** FA79149

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWM - OUCTP A 3Q2020)

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA79149-14	09/23/20	15:46 SB	09/25/20	AQ	Ground Water	2039X0BW279F
FA79149-15	09/23/20	15:58 SB	09/25/20	AQ	Ground Water	2039X0BW280F
FA79149-16	09/23/20	16:20 SB	09/25/20	AQ	Ground Water	2039X0BW281F

## SAMPLE DELIVERY GROUP CASE NARRATIVE

2

**Client:** Ahtna Global, LLC

**Job No:** FA79149

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 10/11/2020 5:10:34

16 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/23/2020 and were received at SGS North America Inc - Orlando on 09/25/2020 properly preserved, at 2.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA79149. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ

**Batch ID:** VO2367

All samples were analyzed within the recommended method holding time.

Sample(s) FA79149-7MS, FA79149-7MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA79149-1, FA79149-7 have surrogates outside control limits.

FA79149-1: Confirmation run.

FA79149-1 for Toluene-D8: Outside DOD QSM control limits.

**Matrix:** AQ

**Batch ID:** VO2368

Sample(s) FA79149-1, FA79149-7 have surrogates outside control limits. Confirmation run for surrogate recoveries.

FA79149-1: Confirmation run for surrogate recoveries.

FA79149-7: Confirmation run for surrogate recoveries.

FA79149-7 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits high.

**Matrix:** AQ

**Batch ID:** VZ2432

All samples were analyzed within the recommended method holding time.

Sample(s) FA79149-1MS, FA79149-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA79149  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/23/20



Lab Sample ID	Client Sample ID	Result/ Analyte	LOQ	LOD	Units	Method	
<b>FA79149-1</b>	<b>2039XOU2266F</b>						
		Carbon Tetrachloride	0.22 J	0.50	0.25	ug/l	SW846 8260B BY SIM
		Chloroform	0.43 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA79149-2</b>	<b>2039XOU2267F</b>						
		Chloroform	0.26 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA79149-3</b>	<b>2039X0BW268F</b>						
		Carbon Tetrachloride	0.35 J	0.50	0.25	ug/l	SW846 8260B BY SIM
		Chloroform	0.19 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA79149-4</b>	<b>2039XOU2269F</b>						
		Carbon Tetrachloride	0.26 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA79149-5</b>	<b>2039XOU2270F</b>						
		Carbon Tetrachloride	0.90	0.50	0.25	ug/l	SW846 8260B BY SIM
		Chloroform	0.46 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA79149-6</b>	<b>2039XOU2271D</b>						
		Carbon Tetrachloride	0.87	0.50	0.25	ug/l	SW846 8260B BY SIM
		Chloroform	0.44 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA79149-7</b>	<b>2039X0BW272F</b>						
		No hits reported in this sample.					
<b>FA79149-8</b>	<b>2039X0BW273F</b>						
		No hits reported in this sample.					
<b>FA79149-9</b>	<b>2039X0BW274F</b>						
		Carbon Tetrachloride	0.44 J	0.50	0.25	ug/l	SW846 8260B BY SIM
		Chloroform	0.17 J	0.50	0.25	ug/l	SW846 8260B BY SIM
<b>FA79149-10</b>	<b>2039X0BW275F</b>						
		Carbon Tetrachloride	1.5	0.50	0.25	ug/l	SW846 8260B BY SIM
		Chloroform	0.38 J	0.50	0.25	ug/l	SW846 8260B BY SIM

## Summary of Hits

**Job Number:** FA79149  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/23/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
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**FA79149-11      2039X0BW276F**

Carbon Tetrachloride	1.4	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.26 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA79149-12      2039X0BW277F**

Carbon Tetrachloride	0.77	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.20 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA79149-13      2039X0BW278F**

Chloroform	0.15 J	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA79149-14      2039X0BW279F**

No hits reported in this sample.

**FA79149-15      2039X0BW280F**

No hits reported in this sample.

**FA79149-16      2039X0BW281F**

Chloroform	3.1	0.50	0.25	ug/l	SW846 8260B BY SIM
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Sample Results

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Report of Analysis

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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b>	2039XOU2266F		
<b>Lab Sample ID:</b>	FA79149-1	<b>Date Sampled:</b>	09/23/20
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b>	09/25/20
<b>Method:</b>	SW846 8260B BY SIM	<b>Percent Solids:</b>	n/a
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62674.D	1	10/02/20 17:32	AG	n/a	n/a	VZ2432
Run #2 <sup>a</sup>	O61487.D	1	09/25/20 15:58	JG	n/a	n/a	VO2367
Run #3 <sup>b</sup>	O61514.D	1	10/01/20 13:13	AG	n/a	n/a	VO2368

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.22	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.43	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
17060-07-0	1,2-Dichloroethane-D4	102%	122%	116%	74-125%
2037-26-5	Toluene-D8	100%	79% <sup>c</sup>	83% <sup>c</sup>	88-111%

(a) Confirmation run.

(b) Confirmation run for surrogate recoveries.

(c) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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# Report of Analysis

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<b>Client Sample ID:</b> 2039XOU2267F	
<b>Lab Sample ID:</b> FA79149-2	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62675.D	1	10/02/20 17:51	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.26	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2039X0BW268F	<b>Date Sampled:</b> 09/23/20
<b>Lab Sample ID:</b> FA79149-3	<b>Date Received:</b> 09/25/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62676.D	1	10/02/20 18:10	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.35	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.19	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2039XOU2269F	
<b>Lab Sample ID:</b> FA79149-4	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62677.D	1	10/02/20 18:30	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.26	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

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<b>Client Sample ID:</b>	2039XOU2270F	<b>Date Sampled:</b>	09/23/20
<b>Lab Sample ID:</b>	FA79149-5	<b>Date Received:</b>	09/25/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62678.D	1	10/02/20 18:49	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.90	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.46	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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<b>Client Sample ID:</b>	2039XOU2271D	<b>Date Sampled:</b>	09/23/20
<b>Lab Sample ID:</b>	FA79149-6	<b>Date Received:</b>	09/25/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62679.D	1	10/02/20 19:08	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.87	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.44	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b>	2039X0BW272F	<b>Date Sampled:</b>	09/23/20
<b>Lab Sample ID:</b>	FA79149-7	<b>Date Received:</b>	09/25/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61493.D	1	09/25/20 18:01	JG	n/a	n/a	VO2367
Run #2 <sup>a</sup>	O61522.D	1	10/01/20 15:55	AG	n/a	n/a	VO2368

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	129%	121% <sup>b</sup>	74-125%
2037-26-5	Toluene-D8	76%	79% <sup>c</sup>	88-111%

- (a) Confirmation run for surrogate recoveries.
- (b) Outside DOD QSM control limits high.
- (c) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.7  
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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b>	2039X0BW273F	<b>Date Sampled:</b>	09/23/20
<b>Lab Sample ID:</b>	FA79149-8	<b>Date Received:</b>	09/25/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62683.D	1	10/02/20 20:26	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2039X0BW274F	
<b>Lab Sample ID:</b> FA79149-9	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62684.D	1	10/02/20 20:45	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.44	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.17	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2039X0BW275F	
<b>Lab Sample ID:</b> FA79149-10	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62685.D	1	10/02/20 21:04	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	1.5	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.38	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.10  
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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b>	2039X0BW276F	<b>Date Sampled:</b>	09/23/20
<b>Lab Sample ID:</b>	FA79149-11	<b>Date Received:</b>	09/25/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62686.D	1	10/02/20 21:23	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	1.4	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.26	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.11  
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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2039X0BW277F	
<b>Lab Sample ID:</b> FA79149-12	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62687.D	1	10/02/20 21:43	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.77	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.20	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		74-125%
2037-26-5	Toluene-D8	96%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.12  
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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2039X0BW278F	
<b>Lab Sample ID:</b> FA79149-13	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62688.D	1	10/02/20 22:02	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.15	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		74-125%
2037-26-5	Toluene-D8	96%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.13  
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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2039X0BW279F	
<b>Lab Sample ID:</b> FA79149-14	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62689.D	1	10/02/20 22:21	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		74-125%
2037-26-5	Toluene-D8	95%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2039X0BW280F	
<b>Lab Sample ID:</b> FA79149-15	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62690.D	1	10/02/20 22:41	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	112%		74-125%
2037-26-5	Toluene-D8	95%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.15  
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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2039X0BW281F	
<b>Lab Sample ID:</b> FA79149-16	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62691.D	1	10/02/20 23:00	AG	n/a	n/a	VZ2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	3.1	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	112%		74-125%
2037-26-5	Toluene-D8	95%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

Project Information:		Analysis Requested			Lab Sample Receipt	
Project Location: Former Fort Ord, CA		Sampler/s: S. Bennett			Laboratory Sample Delivery	
Project Name: Groundwater Monitoring Program		Report To: Derek Lieberman			Group #:	
Project Number: 21065.000.01.0000		E-Mail: dlieberman@ahtna.net			Custody Seal:	
Sampling Event/Site: 3Q2020		Laboratory: SGS			Temp (°C): 2.4°C IRH1	

Lab Number	Sample Number/Description	Sample Collection		Matrix			Number of Preserved Bottles										VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Notes	
		Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other						
1	2039XOU2266F	9.23.20	0940	X			3	3										X			
2	2039XOU2267F	9.23.20	1000	X			3	3										X			
3	2039XOBW268F	9.23.20	1028	X			3	3										X			
4	2039XOU2269F	9.23.20	1041	X			3	3										X			
5	2039XOU2270F	9.23.20	1110	X			3	3										X			
6	2039XOU2271D	9.25.20	1115	X			3	3										X			
7	2039XOBW272F	9.23.20	1129	X			3	3										X			
8	2039XOBW273F	9.23.20	1155	X			3	3										X			
9	2039XOBW274F	9.23.20	1213	X			3	3										X			
10	2039XOBW275F	9.23.20	1235	X			3	3										X			
11	2039XOBW276F	9.23.20	1249	X			3	3										X			
12	2039XOBW277F	9.23.20	1310	X			3	3										X			
13	2039XOBW278F	9.23.20	1535	X			3	3										X			
14	2039XOBW279F	9.23.20	1546	X			3	3										X			
16	2039XOBW280F	9.23.20	1558	X			3	3										X			

~~INITIAL ASSESSMENT~~  
~~LAB VERIFICATION~~

Turnaround Time:  Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush

Comments: OUCTP-A

Chain of Custody Tracking:			
Relinquished By Sampler: <u>S. Bennett</u>	Date/Time: 9/24/20/1200	Received By: FX	Date/Time:
Relinquished By: FX	Date/Time:	Received By: <u>Carla M. Valverde</u>	Date/Time: 09/25/20 1000
Relinquished By:	Date/Time:	Received By Laboratory:	Date/Time:

217

5.1  
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**Project Information:**  
 Project Location: Former Fort Ord, CA Sampler/s: S. Bennett  
 Project Name: Groundwater Monitoring Program Report To: Derek Lieberman  
 Project Number: 21065.000.01.0000 E-Mail: dlieberman@ahnta.net  
 Sampling Event/Site: 3G2 Q20 Laboratory: SGS

**Analysis Requested**

VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A
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**Lab Sample Receipt**  
 Laboratory Sample Delivery  
 Group #: \_\_\_\_\_  
 Custody Seal: \_\_\_\_\_  
 Temp (°C): 2.4°C IR#1

Lab Number	Sample Collection			Matrix			Number of Preserved Bottles								Notes							
	Sample Number/Description	Date	Time	Water	Soil	Other	Total # of Bottles	HC	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None		Other	VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A			
16	2039X QBW2B1F	9.23.20	1620	X			3	3														

**INITIAL ASSESSMENT** VAN  
**LABEL VERIFICATION** DO

Turnaround Time:  Standard \_\_\_\_\_ : 3-5 Day Rush \_\_\_\_\_ : 48 Hour Rush \_\_\_\_\_ : 24 Hour Rush \_\_\_\_\_

Shipment: \_\_\_\_\_ Method: \_\_\_\_\_ Tracking ID: \_\_\_\_\_

Comments: **OUCTP-A**

Chain of Custody Tracking:			
Relinquished By Sampler: <u>S = R O</u>	Date/Time: <u>9/24/20/1200</u>	Received By: <u>FX</u>	Date/Time: _____
Relinquished By: <u>FX</u>	Date/Time: _____	Received By: <u>Carlos J Delgado</u>	Date/Time: <u>09/25/20 1000</u>
Relinquished By: _____	Date/Time: _____	Received By Laboratory: _____	Date/Time: _____

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## SGS Sample Receipt Summary

Job Number: FA79149

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP A 3Q2020

Date / Time Received: 9/25/2020 10:00:00 AM

Delivery Method: FedEx

Airbill #: 771623867825

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: N/A

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.4);

**Cooler Information**

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input type="checkbox"/>            | <input type="checkbox"/> |
| 4. Cooler temp verification | N/A                                 |                          |
| 5. Cooler media             | N/A                                 |                          |

**Sample Information**

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | Intact                              |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Trip Blank Information**

Y or N N/A

- |                                |                                     |                                     |                          |
|--------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                                | <u>W or S</u>                       |                                     | <u>N/A</u>               |
| 3. Type Of TB Received         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 \_\_\_\_\_ 230315 \_\_\_\_\_ pH 10-12 \_\_\_\_\_ 219813A \_\_\_\_\_ Other: (Specify) \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: PETERH

Date: 9/25/2020 10:00:00 A

Reviewer: PH

Date: 9/26/2020

FA79149: Chain of Custody

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA79149  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/23/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VO2367 SW846 8260B BY SIM							
VO2367-BS	56-23-5	Carbon Tetrachloride	BSP	REC	110	%	72-136
VO2367-BS	67-66-3	Chloroform	BSP	REC	102	%	79-124
VO2367-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	116	%	71-131
VO2367-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	106	%	79-121
VO2367-BS	75-09-2	Methylene Chloride	BSP	REC	96	%	74-124
VO2367-BS	127-18-4	Tetrachloroethylene	BSP	REC	106	%	74-129
VO2367-BS	79-01-6	Trichloroethylene	BSP	REC	108	%	79-123
VO2367-BS	75-01-4	Vinyl Chloride	BSP	REC	116	%	58-137
VO2367-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	81-118
VO2367-BS	2037-26-5	Toluene-D8	BSP	SURR	96	%	89-112
FA79149-7MS	56-23-5	Carbon Tetrachloride	MS	REC	127	%	72-136
FA79149-7MS	67-66-3	Chloroform	MS	REC	118	%	79-124
FA79149-7MS	75-35-4	1,1-Dichloroethylene	MS	REC	128	%	71-131
FA79149-7MS	540-59-0	1,2-Dichloroethene (total)	MS	REC	110	%	79-121
FA79149-7MS	75-09-2	Methylene Chloride	MS	REC	118	%	74-124
FA79149-7MS	127-18-4	Tetrachloroethylene	MS	REC	115	%	74-129
FA79149-7MS	79-01-6	Trichloroethylene	MS	REC	113	%	79-123
FA79149-7MS	75-01-4	Vinyl Chloride	MS	REC	128	%	58-137
FA79149-7MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	108	%	81-118
FA79149-7MS	2037-26-5	Toluene-D8	MS	SURR	82 <sup>a</sup>	%	89-112
FA79149-7MSD	56-23-5	Carbon Tetrachloride	MSD	REC	127	%	72-136
FA79149-7MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	0	%	20
FA79149-7MSD	67-66-3	Chloroform	MSD	REC	116	%	79-124
FA79149-7MSD	67-66-3	Chloroform	MSD	RPD	1	%	20
FA79149-7MSD	75-35-4	1,1-Dichloroethylene	MSD	REC	128	%	71-131
FA79149-7MSD	75-35-4	1,1-Dichloroethylene	MSD	RPD	0	%	20
FA79149-7MSD	540-59-0	1,2-Dichloroethene (total)	MSD	REC	113	%	79-121
FA79149-7MSD	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	2	%	20
FA79149-7MSD	75-09-2	Methylene Chloride	MSD	REC	116	%	74-124
FA79149-7MSD	75-09-2	Methylene Chloride	MSD	RPD	2	%	20
FA79149-7MSD	127-18-4	Tetrachloroethylene	MSD	REC	114	%	74-129
FA79149-7MSD	127-18-4	Tetrachloroethylene	MSD	RPD	1	%	20
FA79149-7MSD	79-01-6	Trichloroethylene	MSD	REC	113	%	79-123
FA79149-7MSD	79-01-6	Trichloroethylene	MSD	RPD	0	%	20
FA79149-7MSD	75-01-4	Vinyl Chloride	MSD	REC	134	%	58-137
FA79149-7MSD	75-01-4	Vinyl Chloride	MSD	RPD	5	%	20
FA79149-7MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	105	%	81-118
FA79149-7MSD	2037-26-5	Toluene-D8	MSD	SURR	85 <sup>a</sup>	%	89-112
VO2367-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	115	%	81-118
VO2367-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	89-112
FA79149-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	122	%	81-118
FA79149-1	2037-26-5	Toluene-D8	SAMP	SURR	79 <sup>a</sup>	%	89-112

\* Sample used for QC is not from job FA79149

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA79149  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/23/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA79149-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	129	%	81-118
FA79149-7	2037-26-5	Toluene-D8	SAMP	SURR	76	%	89-112
VZ2432 SW846 8260B BY SIM							
VZ2432-BS	56-23-5	Carbon Tetrachloride	BSP	REC	114	%	72-136
VZ2432-BS	67-66-3	Chloroform	BSP	REC	102	%	79-124
VZ2432-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	112	%	71-131
VZ2432-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	106	%	79-121
VZ2432-BS	75-09-2	Methylene Chloride	BSP	REC	94	%	74-124
VZ2432-BS	127-18-4	Tetrachloroethylene	BSP	REC	112	%	74-129
VZ2432-BS	79-01-6	Trichloroethylene	BSP	REC	110	%	79-123
VZ2432-BS	75-01-4	Vinyl Chloride	BSP	REC	104	%	58-137
VZ2432-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
VZ2432-BS	2037-26-5	Toluene-D8	BSP	SURR	100	%	89-112
FA79149-1MS	56-23-5	Carbon Tetrachloride	MS	REC	107	%	72-136
FA79149-1MS	67-66-3	Chloroform	MS	REC	108	%	79-124
FA79149-1MS	75-35-4	1,1-Dichloroethylene	MS	REC	118	%	71-131
FA79149-1MS	540-59-0	1,2-Dichloroethene (total)	MS	REC	109	%	79-121
FA79149-1MS	75-09-2	Methylene Chloride	MS	REC	111	%	74-124
FA79149-1MS	127-18-4	Tetrachloroethylene	MS	REC	108	%	74-129
FA79149-1MS	79-01-6	Trichloroethylene	MS	REC	114	%	79-123
FA79149-1MS	75-01-4	Vinyl Chloride	MS	REC	107	%	58-137
FA79149-1MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	102	%	81-118
FA79149-1MS	2037-26-5	Toluene-D8	MS	SURR	94	%	89-112
FA79149-1MSD	56-23-5	Carbon Tetrachloride	MSD	REC	109	%	72-136
FA79149-1MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	1	%	20
FA79149-1MSD	67-66-3	Chloroform	MSD	REC	109	%	79-124
FA79149-1MSD	67-66-3	Chloroform	MSD	RPD	1	%	20
FA79149-1MSD	75-35-4	1,1-Dichloroethylene	MSD	REC	120	%	71-131
FA79149-1MSD	75-35-4	1,1-Dichloroethylene	MSD	RPD	2	%	20
FA79149-1MSD	540-59-0	1,2-Dichloroethene (total)	MSD	REC	111	%	79-121
FA79149-1MSD	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	2	%	20
FA79149-1MSD	75-09-2	Methylene Chloride	MSD	REC	107	%	74-124
FA79149-1MSD	75-09-2	Methylene Chloride	MSD	RPD	3	%	20
FA79149-1MSD	127-18-4	Tetrachloroethylene	MSD	REC	112	%	74-129
FA79149-1MSD	127-18-4	Tetrachloroethylene	MSD	RPD	3	%	20
FA79149-1MSD	79-01-6	Trichloroethylene	MSD	REC	117	%	79-123
FA79149-1MSD	79-01-6	Trichloroethylene	MSD	RPD	2	%	20
FA79149-1MSD	75-01-4	Vinyl Chloride	MSD	REC	110	%	58-137
FA79149-1MSD	75-01-4	Vinyl Chloride	MSD	RPD	3	%	20
FA79149-1MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	102	%	81-118
FA79149-1MSD	2037-26-5	Toluene-D8	MSD	SURR	95	%	89-112
VZ2432-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	102	%	81-118
VZ2432-MB	2037-26-5	Toluene-D8	MB	SURR	101	%	89-112

\* Sample used for QC is not from job FA79149

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA79149  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/23/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA79149-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FA79149-1	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA79149-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FA79149-2	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA79149-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FA79149-3	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA79149-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FA79149-4	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA79149-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FA79149-5	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FA79149-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FA79149-6	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FA79149-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FA79149-8	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FA79149-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FA79149-9	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FA79149-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FA79149-10	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FA79149-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	109	%	81-118
FA79149-11	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FA79149-12	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	111	%	81-118
FA79149-12	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FA79149-13	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	110	%	81-118
FA79149-13	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FA79149-14	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	111	%	81-118
FA79149-14	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FA79149-15	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	112	%	81-118
FA79149-15	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FA79149-16	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	112	%	81-118
FA79149-16	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112

(a) Outside DOD QSM control limits.

\* Sample used for QC is not from job FA79149

## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2367-MB	O61486.D	1	09/25/20	JG	n/a	n/a	VO2367

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA79149-7

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	115%	74-125%
2037-26-5	Toluene-D8	103%	88-111%

**Method Blank Summary**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2432-MB	Z62673.D	1	10/02/20	AG	n/a	n/a	VZ2432

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA79149-1, FA79149-2, FA79149-3, FA79149-4, FA79149-5, FA79149-6, FA79149-8, FA79149-9, FA79149-10, FA79149-11, FA79149-12, FA79149-13, FA79149-14, FA79149-15, FA79149-16

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	1.5	2.0	0.50	ug/l	J
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	102%	74-125%
2037-26-5	Toluene-D8	101%	88-111%



**Blank Spike Summary**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2367-BS	O61484.D	1	09/25/20	JG	n/a	n/a	VO2367

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA79149-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.5	110	76-136
67-66-3	Chloroform	5	5.1	102	80-124
75-35-4	1,1-Dichloroethylene	5	5.8	116	78-137
540-59-0	1,2-Dichloroethene (total)	10	10.6	106	76-127
75-09-2	Methylene Chloride	5	4.8	96	69-135
127-18-4	Tetrachloroethylene	5	5.3	106	76-135
79-01-6	Trichloroethylene	5	5.4	108	81-126
75-01-4	Vinyl Chloride	5	5.8	116	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	74-125%
2037-26-5	Toluene-D8	96%	88-111%

\* = Outside of Control Limits.

**Blank Spike Summary**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2432-BS	Z62671.D	1	10/02/20	AG	n/a	n/a	VZ2432

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA79149-1, FA79149-2, FA79149-3, FA79149-4, FA79149-5, FA79149-6, FA79149-8, FA79149-9, FA79149-10, FA79149-11, FA79149-12, FA79149-13, FA79149-14, FA79149-15, FA79149-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.7	114	76-136
67-66-3	Chloroform	5	5.1	102	80-124
75-35-4	1,1-Dichloroethylene	5	5.6	112	78-137
540-59-0	1,2-Dichloroethene (total)	10	10.6	106	76-127
75-09-2	Methylene Chloride	5	4.7	94	69-135
127-18-4	Tetrachloroethylene	5	5.6	112	76-135
79-01-6	Trichloroethylene	5	5.5	110	81-126
75-01-4	Vinyl Chloride	5	5.2	104	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA79149-7MS	O61502.D	5	09/25/20	JG	n/a	n/a	VO2367
FA79149-7MSD	O61503.D	5	09/25/20	JG	n/a	n/a	VO2367
FA79149-7	O61493.D	1	09/25/20	JG	n/a	n/a	VO2367

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA79149-7

CAS No.	Compound	FA79149-7 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	25	31.7	127	25	31.7	127	0	76-136/23
67-66-3	Chloroform	0.50 U	25	29.4	118	25	29.0	116	1	80-124/15
75-35-4	1,1-Dichloroethylene	0.50 U	25	32.0	128	25	32.1	128	0	78-137/18
540-59-0	1,2-Dichloroethene (total)	0.50 U	50	55.2	110	50	56.3	113	2	76-127/17
75-09-2	Methylene Chloride	2.0 U	25	29.4	118	25	28.9	116	2	69-135/16
127-18-4	Tetrachloroethylene	0.50 U	25	28.8	115	25	28.6	114	1	76-135/16
79-01-6	Trichloroethylene	0.50 U	25	28.3	113	25	28.3	113	0	81-126/15
75-01-4	Vinyl Chloride	0.10 U	25	31.9	128	25	33.4	134	5	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA79149-7	Limits
17060-07-0	1,2-Dichloroethane-D4	108%	105%	129% *	74-125%
2037-26-5	Toluene-D8	82% * a	85% * a	76% *	88-111%

(a) Outside DOD QSM control limits.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA79149-1MS	Z62680.D	10	10/02/20	AG	n/a	n/a	VZ2432
FA79149-1MSD	Z62681.D	10	10/02/20	AG	n/a	n/a	VZ2432
FA79149-1	Z62674.D	1	10/02/20	AG	n/a	n/a	VZ2432

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA79149-1, FA79149-2, FA79149-3, FA79149-4, FA79149-5, FA79149-6, FA79149-8, FA79149-9, FA79149-10, FA79149-11, FA79149-12, FA79149-13, FA79149-14, FA79149-15, FA79149-16

CAS No.	Compound	FA79149-1 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
56-23-5	Carbon Tetrachloride	0.22	J	50	53.9	107	50	54.6	109	1	76-136/23
67-66-3	Chloroform	0.43	J	50	54.5	108	50	55.0	109	1	80-124/15
75-35-4	1,1-Dichloroethylene	0.50	U	50	59.1	118	50	60.1	120	2	78-137/18
540-59-0	1,2-Dichloroethene (total)	0.50	U	100	109	109	100	111	111	2	76-127/17
75-09-2	Methylene Chloride	2.0	U	50	55.4	111	50	53.6	107	3	69-135/16
127-18-4	Tetrachloroethylene	0.50	U	50	54.1	108	50	56.0	112	3	76-135/16
79-01-6	Trichloroethylene	0.50	U	50	57.1	114	50	58.3	117	2	81-126/15
75-01-4	Vinyl Chloride	0.10	U	50	53.7	107	50	55.2	110	3	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA79149-1	Limits
17060-07-0	1,2-Dichloroethane-D4	102%	102%	102%	74-125%
2037-26-5	Toluene-D8	94%	95%	100%	88-111%

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2365-BFB	<b>Injection Date:</b> 09/18/20
<b>Lab File ID:</b> O61437.D	<b>Injection Time:</b> 08:17
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	101965	29.3	Pass
75	30.0 - 60.0% of mass 95	162539	46.7	Pass
95	Base peak, 100% relative abundance	348139	100.0	Pass
96	5.0 - 9.0% of mass 95	27092	7.78	Pass
173	Less than 2.0% of mass 174	1951	0.56 (0.59) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	329003	94.5	Pass
175	5.0 - 9.0% of mass 174	21733	6.24 (6.61) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	319701	91.8 (97.2) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	20736	5.96 (6.49) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2365-IC2365	O61438.D	09/18/20	08:59	00:42	Initial cal 1
VO2365-IC2365	O61439.D	09/18/20	09:19	01:02	Initial cal 2
VO2365-IC2365	O61440.D	09/18/20	09:39	01:22	Initial cal 3
VO2365-IC2365	O61441.D	09/18/20	09:59	01:42	Initial cal 4
VO2365-ICC2365	O61442.D	09/18/20	10:20	02:03	Initial cal 5
VO2365-IC2365	O61443.D	09/18/20	10:40	02:23	Initial cal 6
VO2365-IC2365	O61444.D	09/18/20	11:00	02:43	Initial cal 7
VO2365-ICV2365	O61449.D	09/18/20	13:45	05:28	Initial cal verification 5
VO2365-BS	O61450.D	09/18/20	14:23	06:06	Blank Spike
VO2365-MB	O61452.D	09/18/20	15:04	06:47	Method Blank
ZZZZZZ	O61453.D	09/18/20	15:24	07:07	(unrelated sample)
FA78549-15	O61454.D	09/18/20	15:45	07:28	(used for QC only; not part of job FA79149)
ZZZZZZ	O61455.D	09/18/20	16:05	07:48	(unrelated sample)
FA78549-15MS	O61456.D	09/18/20	16:26	08:09	Matrix Spike
FA78549-15MSD	O61457.D	09/18/20	16:46	08:29	Matrix Spike Duplicate
VO2365-ECC2365	O61458.D	09/18/20	17:07	08:50	Ending cal 5

**Instrument Performance Check (BFB)**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2367-BFB	<b>Injection Date:</b> 09/25/20
<b>Lab File ID:</b> O61482.D	<b>Injection Time:</b> 12:19
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	129112	30.6	Pass
75	30.0 - 60.0% of mass 95	202347	48.0	Pass
95	Base peak, 100% relative abundance	421483	100.0	Pass
96	5.0 - 9.0% of mass 95	32579	7.73	Pass
173	Less than 2.0% of mass 174	2531	0.60 (0.65) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	392021	93.0	Pass
175	5.0 - 9.0% of mass 174	27813	6.60 (7.09) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	376939	89.4 (96.2) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	25819	6.13 (6.85) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2367-CC2365	O61483.D	09/25/20	12:51	00:32	Continuing cal 5
VO2367-BS	O61484.D	09/25/20	13:29	01:10	Blank Spike
VO2367-MB	O61486.D	09/25/20	14:09	01:50	Method Blank
FA79149-1	O61487.D	09/25/20	15:58	03:39	2039XOU2266F
FA79149-7	O61493.D	09/25/20	18:01	05:42	2039X0BW272F
FA79149-7MS	O61502.D	09/25/20	21:05	08:46	Matrix Spike
FA79149-7MSD	O61503.D	09/25/20	21:25	09:06	Matrix Spike Duplicate
VO2367-ECC2365	O61504.D	09/25/20	21:45	09:26	Ending cal 5

**Instrument Performance Check (BFB)**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2368-BFB	<b>Injection Date:</b> 10/01/20
<b>Lab File ID:</b> O61508.D	<b>Injection Time:</b> 09:54
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	114720	29.4	Pass
75	30.0 - 60.0% of mass 95	177941	45.7	Pass
95	Base peak, 100% relative abundance	389696	100.0	Pass
96	5.0 - 9.0% of mass 95	30424	7.81	Pass
173	Less than 2.0% of mass 174	2200	0.56 (0.59) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	373547	95.9	Pass
175	5.0 - 9.0% of mass 174	26451	6.79 (7.08) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	359168	92.2 (96.2) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	23285	5.98 (6.48) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2368-CC2365	O61509.D	10/01/20	10:30	00:36	Continuing cal 5
VO2368-BS	O61511.D	10/01/20	11:52	01:58	Blank Spike
VO2368-MB	O61513.D	10/01/20	12:53	02:59	Method Blank
FA79149-1	O61514.D	10/01/20	13:13	03:19	2039XOU2266F
FA79149-1MS	O61519.D	10/01/20	14:54	05:00	Matrix Spike
FA79149-1MSD	O61520.D	10/01/20	15:14	05:20	Matrix Spike Duplicate
FA79149-7	O61522.D	10/01/20	15:55	06:01	2039X0BW272F
VO2368-ECC2365	O61531.D	10/01/20	18:56	09:02	Ending cal 5

**Instrument Performance Check (BFB)**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2431-BFB	<b>Injection Date:</b> 10/01/20
<b>Lab File ID:</b> Z62654.D	<b>Injection Time:</b> 09:35
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	43555	21.3	Pass
75	30.0 - 60.0% of mass 95	112171	54.7	Pass
95	Base peak, 100% relative abundance	204928	100.0	Pass
96	5.0 - 9.0% of mass 95	14329	6.99	Pass
173	Less than 2.0% of mass 174	1200	0.59 (0.68) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	175723	85.7	Pass
175	5.0 - 9.0% of mass 174	13587	6.63 (7.73) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	171477	83.7 (97.6) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	10768	5.25 (6.28) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2431-IC2431	Z62655.D	10/01/20	10:01	00:26	Initial cal 1
VZ2431-IC2431	Z62656.D	10/01/20	10:20	00:45	Initial cal 2
VZ2431-IC2431	Z62657.D	10/01/20	10:40	01:05	Initial cal 3
VZ2431-IC2431	Z62658.D	10/01/20	10:59	01:24	Initial cal 4
VZ2431-ICC2431	Z62659.D	10/01/20	11:18	01:43	Initial cal 5
VZ2431-IC2431	Z62660.D	10/01/20	11:37	02:02	Initial cal 6
VZ2431-IC2431	Z62661.D	10/01/20	11:59	02:24	Initial cal 7
VZ2431-ICV2431	Z62663.D	10/01/20	13:17	03:42	Initial cal verification 5



**Instrument Performance Check (BFB)**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2432-BFB	<b>Injection Date:</b> 10/02/20
<b>Lab File ID:</b> Z62669.D	<b>Injection Time:</b> 15:11
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	34533	21.4	Pass
75	30.0 - 60.0% of mass 95	88507	55.0	Pass
95	Base peak, 100% relative abundance	161024	100.0	Pass
96	5.0 - 9.0% of mass 95	12651	7.86	Pass
173	Less than 2.0% of mass 174	876	0.54 (0.63) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	138752	86.2	Pass
175	5.0 - 9.0% of mass 174	9979	6.20 (7.19) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	137488	85.4 (99.1) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	8970	5.57 (6.52) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2432-CC2431	Z62670.D	10/02/20	15:31	00:20	Continuing cal 5
VZ2432-BS	Z62671.D	10/02/20	16:17	01:06	Blank Spike
VZ2432-MB	Z62673.D	10/02/20	17:13	02:02	Method Blank
FA79149-1	Z62674.D	10/02/20	17:32	02:21	2039XOU2266F
FA79149-2	Z62675.D	10/02/20	17:51	02:40	2039XOU2267F
FA79149-3	Z62676.D	10/02/20	18:10	02:59	2039X0BW268F
FA79149-4	Z62677.D	10/02/20	18:30	03:19	2039XOU2269F
FA79149-5	Z62678.D	10/02/20	18:49	03:38	2039XOU2270F
FA79149-6	Z62679.D	10/02/20	19:08	03:57	2039XOU2271D
FA79149-1MS	Z62680.D	10/02/20	19:28	04:17	Matrix Spike
FA79149-1MSD	Z62681.D	10/02/20	19:47	04:36	Matrix Spike Duplicate
FA79149-8	Z62683.D	10/02/20	20:26	05:15	2039X0BW273F
FA79149-9	Z62684.D	10/02/20	20:45	05:34	2039X0BW274F
FA79149-10	Z62685.D	10/02/20	21:04	05:53	2039X0BW275F
FA79149-11	Z62686.D	10/02/20	21:23	06:12	2039X0BW276F
FA79149-12	Z62687.D	10/02/20	21:43	06:32	2039X0BW277F
FA79149-13	Z62688.D	10/02/20	22:02	06:51	2039X0BW278F
FA79149-14	Z62689.D	10/02/20	22:21	07:10	2039X0BW279F
FA79149-15	Z62690.D	10/02/20	22:41	07:30	2039X0BW280F
FA79149-16	Z62691.D	10/02/20	23:00	07:49	2039X0BW281F
VZ2432-ECC2431	Z62692.D	10/02/20	23:20	08:09	Ending cal 5

# Internal Standard Area Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VO2367-CC2365	<b>Injection Date:</b> 09/25/20
<b>Lab File ID:</b> O61483.D	<b>Injection Time:</b> 12:51
<b>Instrument ID:</b> GCMSO	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	317479	7.34	262197	10.44
Check Std <sup>b</sup>	313062	7.34	267652	10.44
Upper Limit <sup>c</sup>	626124	7.51	535304	10.61
Lower Limit <sup>d</sup>	156531	7.17	133826	10.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VO2367-BS	306616	7.34	249278	10.44
VO2367-MB	220795	7.34	172251	10.44
FA79149-1 <sup>e</sup>	224836	7.34	229587	10.44
FA79149-7	173662	7.34	180319	10.44
FA79149-7MS	220686	7.34	192225	10.44
FA79149-7MSD	234717	7.34	202645	10.44
VO2367-ECC2365262795	7.34	227944	10.44	

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2365-ICC2365 O61442.D 09/18/20 10:20
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
- (e) Confirmation run.

# Internal Standard Area Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b>	VO2368-CC2365	<b>Injection Date:</b>	10/01/20
<b>Lab File ID:</b>	O61509.D	<b>Injection Time:</b>	10:30
<b>Instrument ID:</b>	GCMSO	<b>Method:</b>	SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	317479	7.34	262197	10.44
Check Std <sup>b</sup>	337552	7.34	310019	10.44
Upper Limit <sup>c</sup>	675104	7.51	620038	10.61
Lower Limit <sup>d</sup>	168776	7.17	155010	10.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VO2368-BS	314738	7.34	262509	10.44
VO2368-MB	233303	7.34	183372	10.44
FA79149-1 <sup>e</sup>	221629	7.34	216163	10.44
FA79149-1MS	255511	7.34	215684	10.44
FA79149-1MSD	269580	7.34	225945	10.44
FA79149-7 <sup>e</sup>	204965	7.34	206133	10.44
VO2368-ECC2365257630	7.34	229126	10.44	

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2365-ICC2365 O61442.D 09/18/20 10:20
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
- (e) Confirmation run for surrogate recoveries.

# Internal Standard Area Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2432-CC2431	<b>Injection Date:</b> 10/02/20
<b>Lab File ID:</b> Z62670.D	<b>Injection Time:</b> 15:31
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	2158955	7.40	2125137	10.51
Check Std <sup>b</sup>	2463449	7.40	2412326	10.51
Upper Limit <sup>c</sup>	4926898	7.57	4824652	10.68
Lower Limit <sup>d</sup>	1231725	7.23	1206163	10.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ2432-BS	2337837	7.40	2245605	10.51
VZ2432-MB	1992989	7.40	1899690	10.51
FA79149-1	1860547	7.40	1791936	10.51
FA79149-2	1819132	7.40	1767721	10.51
FA79149-3	1875516	7.40	1827097	10.51
FA79149-4	1783880	7.40	1737975	10.51
FA79149-5	1698173	7.40	1648470	10.51
FA79149-6	1711654	7.40	1669716	10.51
FA79149-1MS	1835269	7.40	1863425	10.51
FA79149-1MSD	1792836	7.40	1804502	10.51
FA79149-8	1626293	7.40	1594404	10.51
FA79149-9	1656214	7.40	1636881	10.51
FA79149-10	1642815	7.40	1612799	10.51
FA79149-11	1591850	7.40	1560193	10.51
FA79149-12	1461572	7.40	1444072	10.51
FA79149-13	1547419	7.40	1530593	10.51
FA79149-14	1402340	7.40	1398317	10.51
FA79149-15	1388062	7.40	1381249	10.51
FA79149-16	1339998	7.40	1333928	10.51
VZ2432-ECC2431	1613020	7.40	1700823	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2431-ICC2431 Z62659.D 10/01/20 11:18
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Surrogate Recovery Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA79149-1	O61514.D	116	83* a
FA79149-1	Z62674.D	102	100
FA79149-1	O61487.D	122	79* a
FA79149-2	Z62675.D	102	99
FA79149-3	Z62676.D	103	99
FA79149-4	Z62677.D	104	99
FA79149-5	Z62678.D	105	98
FA79149-6	Z62679.D	106	98
FA79149-7	O61522.D	121 b	79* a
FA79149-7	O61493.D	129*	76*
FA79149-8	Z62683.D	107	98
FA79149-9	Z62684.D	108	97
FA79149-10	Z62685.D	108	97
FA79149-11	Z62686.D	109	97
FA79149-12	Z62687.D	111	96
FA79149-13	Z62688.D	110	96
FA79149-14	Z62689.D	111	95
FA79149-15	Z62690.D	112	95
FA79149-16	Z62691.D	112	95
FA79149-1MS	Z62680.D	102	94
FA79149-1MSD	Z62681.D	102	95
FA79149-7MS	O61502.D	108	82* a
FA79149-7MSD	O61503.D	105	85* a
VO2367-BS	O61484.D	97	96
VO2367-MB	O61486.D	115	103
VZ2432-BS	Z62671.D	100	100
VZ2432-MB	Z62673.D	102	101

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

- (a) Outside DOD QSM control limits.
- (b) Outside DOD QSM control limits high.

# Initial Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2365-ICC2365  
**Lab FileID:** O61442.D

Response Factor Report MSVOA12

Method : C:\msdchem\2\methods\SIMCL091820.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Calibration Files

1 =O61438.D 2 =O61439.D 3 =O61440.D 4 =O61441.D  
 5 =O61442.D 6 =O61443.D 7 =O61444.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.399	0.462	0.466	0.409	0.406	0.389	0.363	0.413	9.09
3) Chloromethane	1.423	0.806	0.673	0.598	0.581	0.547	0.502	0.733	43.67
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 0.67846 *A + -0.04479 *A^2								
4) 1,1-Dichloroethen	0.523	0.596	0.623	0.583	0.636	0.599	0.599	0.594	6.07
5) Methylene Chlorid	3.894	1.446	1.092	0.935	0.937	0.899	0.857	1.437	76.67
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9972								
	Response Ratio = 0.00000 + 1.08942 *A + -0.06198 *A^2								
6) trans-1,2-Dichlor	0.650	0.746	0.705	0.661	0.733	0.714	0.711	0.703	5.01
7) 1,1-Dichloroethan	0.787	0.817	0.830	0.781	0.849	0.821	0.808	0.813	2.89
8) cis-1,2-Dichloroe	0.383	0.373	0.384	0.372	0.421	0.420	0.421	0.396	5.90
9) Chloroform	0.767	0.737	0.733	0.689	0.745	0.720	0.709	0.728	3.49
10) Carbon Tetrachlor	0.448	0.512	0.527	0.493	0.550	0.521	0.527	0.511	6.40
11) 1,1,1-Trichloroet	0.482	0.555	0.600	0.533	0.625	0.604	0.609	0.573	8.98
12) Benzene	1.257	1.284	1.345	1.305	1.460	1.421	1.413	1.355	5.73
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 1.41593 *A + 0.00042 *A^2								
13)S 1,2-Dichloroethan	0.446	0.449	0.432	0.395	0.392	0.380	0.376	0.410	7.62
14) 1,2-Dichloroethan	0.631	0.651	0.671	0.639	0.683	0.673	0.658	0.658	2.88
15) Trichloroethene	0.383	0.390	0.400	0.392	0.441	0.428	0.431	0.409	5.70
16) 1,2-Dichloroprop	0.416	0.431	0.439	0.426	0.465	0.454	0.448	0.440	3.94
17) cis-1,3-Dichlorop	0.345	0.375	0.399	0.411	0.481	0.495	0.508	0.431	14.82
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.40467 *A + 0.02773 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.079	1.080	1.037	1.004	0.998	1.019	1.041	1.037	3.20
20) trans-1,3-Dichlor	0.419	0.454	0.503	0.510	0.578	0.604	0.619	0.527	14.49
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9963								
	Response Ratio = 0.00000 + 0.59013 *A								
21) Tetrachloroethene	0.442	0.507	0.531	0.486	0.527	0.505	0.519	0.503	6.09
22) 1,4-Dichlorobenze	0.813	0.865	1.001	0.979	1.089	1.097	1.107	0.993	11.78
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.98556 *A + 0.03344 *A^2								
23) 1,2-Dibromo-3-Chl	0.239	0.164	0.176	0.173	0.191	0.202	0.196	0.192	12.93

(#) = Out of Range

6.7.1  
6

## Initial Calibration Verification

Job Number: FA79149  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2365-ICV2365  
 Lab FileID: O61449.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\091820\O61449.D Vial: 12  
 Acq On : 18 Sep 2020 1:45 pm Operator: JuanG  
 Sample : icv2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091820.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Mon Sep 21 11:01:30 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	109	0.00	7.34
2	Vinyl Chloride	0.413	0.403	2.4	108	0.01	2.92
	----- Amount	Calc.	%Drift	-----			
3	Chloromethane	10.000	9.381	6.2	104	0.02	2.81
	----- AvgRF	CCRF	%Dev	-----			
4	1,1-Dichloroethene	0.594	0.656	-10.4	112	0.00	4.09
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	9.694	3.1	109	0.00	4.71
	----- AvgRF	CCRF	%Dev	-----			
6	trans-1,2-Dichloroethene	0.703	0.746	-6.1	111	0.00	4.87
7	1,1-Dichloroethane	0.813	0.870	-7.0	112	0.00	5.51
8	cis-1,2-Dichloroethene	0.396	0.438	-10.6	113	0.00	6.07
9	Chloroform	0.728	0.750	-3.0	110	0.00	6.33
10	Carbon Tetrachloride	0.511	0.563	-10.2	111	0.00	6.51
11	1,1,1-Trichloroethane	0.573	0.633	-10.5	110	0.00	6.58
	----- Amount	Calc.	%Drift	-----			
12	Benzene	10.000	10.916	-9.2	115	0.00	6.94
	----- AvgRF	CCRF	%Dev	-----			
13 S	1,2-Dichloroethane-d4	0.410	0.383	6.6	106	0.00	7.07
14	1,2-Dichloroethane	0.658	0.712	-8.2	113	0.00	7.14
15	Trichloroethene	0.409	0.464	-13.4	115	0.00	7.51
16	1,2-Dichloropropane	0.440	0.491	-11.6	115	0.00	8.04
	----- Amount	Calc.	%Drift	-----			
17	cis-1,3-Dichloropropene	10.000	11.290	-12.9	119	0.00	8.71
	----- AvgRF	CCRF	%Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	10.44
19 S	Toluene-d8	1.037	1.027	1.0	110	0.00	8.90
	----- Amount	Calc.	%Drift	-----			
20	trans-1,3-Dichloropropene	10.000	11.046	-10.5	120	0.00	9.34
	----- AvgRF	CCRF	%Dev	-----			
21	Tetrachloroethene	0.503	0.544	-8.2	110	0.00	9.34

# Initial Calibration Verification

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2365-ICV2365  
**Lab FileID:** O61449.D

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	-----	Amount	Calc.	%Drift	-----		
22	1,4-Dichlorobenzene	10.000	10.973	-9.7	114	0.00	12.82
	-----	AvgRF	CCRF	%Dev	-----		
23	1,2-Dibromo-3-Chloropropa	0.192	0.210	-9.4	117	0.00	14.03
	-----				-----		

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
O61442.D    SIMCL091820.M              Mon Sep 21 11:49:47 2020

6.7.2  
6



## Continuing Calibration Summary

Job Number: FA79149  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2367-CC2365  
 Lab FileID: O61483.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vo2367\O61483.d Vial: 1  
 Acq On : 25 Sep 2020 12:51 pm Operator: JuanG  
 Sample : cc2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2367,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091820.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Mon Sep 21 11:01:30 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	99	0.00	7.34
2	Vinyl Chloride	0.413	0.431	-4.4	104	0.00	2.91
	----- True	Calc.	% Drift	-----			
3	Chloromethane	10.000	10.128	-1.3	101	0.00	2.81
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.594	0.613	-3.2	95	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	9.562	4.4	98	0.00	4.70
	----- AvgRF	CCRF	% Dev	-----			
6	trans-1,2-Dichloroethene	0.703	0.709	-0.9	95	0.00	4.87
7	1,1-Dichloroethane	0.813	0.819	-0.7	95	0.00	5.51
8	cis-1,2-Dichloroethene	0.396	0.399	-0.8	93	0.00	6.06
9	Chloroform	0.728	0.711	2.3	94	0.00	6.33
10	Carbon Tetrachloride	0.511	0.532	-4.1	95	0.00	6.50
11	1,1,1-Trichloroethane	0.573	0.599	-4.5	95	0.00	6.57
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	9.781	2.2	94	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.410	0.399	2.7	100	0.00	7.07
14	1,2-Dichloroethane	0.658	0.655	0.5	94	0.00	7.14
15	Trichloroethene	0.409	0.420	-2.7	94	0.00	7.51
16	1,2-Dichloropropane	0.440	0.444	-0.9	94	0.00	8.04
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.845	1.5	93	0.00	8.71
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.44
19 S	Toluene-d8	1.037	0.971	6.4	99	0.00	8.90
	----- True	Calc.	% Drift	-----			
20	trans-1,3-Dichloropropene	10.000	8.920	10.8	93	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			
21	Tetrachloroethene	0.503	0.488	3.0	95	0.00	9.34

# Continuing Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2367-CC2365  
**Lab FileID:** O61483.D

	True	Calc.	% Drift			
22	10.000	9.658	3.4	95	0.00	12.82
	AvgRF	CCRF	% Dev			
23	0.192	0.176	8.3	94	0.00	14.03

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 O61442.D    SIMCL091820.M              Wed Sep 30 05:35:07 2020

6.7.3  
6

## Continuing Calibration Summary

Job Number: FA79149  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2367-ECC2365  
 Lab FileID: O61504.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vo2367\O61504.d Vial: 24  
 Acq On : 25 Sep 2020 9:45 pm Operator: JuanG  
 Sample : ecc2365-5 Inst : MSVOA12  
 Misc : MS47304,VO2367,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091820.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Mon Sep 21 11:01:30 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	83	0.00	7.34
2	Vinyl Chloride	0.413	0.498	-20.6	101	0.00	2.90
	----- True	Calc.	% Drift	-----			
3	Chloromethane	10.000	12.369	-23.7	100	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.594	0.698	-17.5	91	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	11.054	-10.5	93	0.00	4.70
	----- AvgRF	CCRF	% Dev	-----			
6	trans-1,2-Dichloroethene	0.703	0.784	-11.5	89	0.00	4.87
7	1,1-Dichloroethane	0.813	0.910	-11.9	89	0.00	5.51
8	cis-1,2-Dichloroethene	0.396	0.421	-6.3	83	0.00	6.07
9	Chloroform	0.728	0.794	-9.1	88	0.00	6.33
10	Carbon Tetrachloride	0.511	0.595	-16.4	89	0.00	6.51
11	1,1,1-Trichloroethane	0.573	0.669	-16.8	89	0.00	6.57
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	10.583	-5.8	85	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.410	0.417	-1.7	88	0.00	7.07
14	1,2-Dichloroethane	0.658	0.737	-12.0	89	0.00	7.14
15	Trichloroethene	0.409	0.464	-13.4	87	0.00	7.51
16	1,2-Dichloropropane	0.440	0.481	-9.3	86	0.00	8.04
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.541	4.6	75	0.00	8.71
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00	10.44
19 S	Toluene-d8	1.037	0.909	12.3	79	0.00	8.90
	----- True	Calc.	% Drift	-----			
20	trans-1,3-Dichloropropene	10.000	8.839	11.6	78	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			
21	Tetrachloroethene	0.503	0.541	-7.6	89	0.00	9.34

# Continuing Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2367-ECC2365  
**Lab FileID:** O61504.D

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	----- True	Calc.	% Drift	-----
22	1,4-Dichlorobenzene	10.000	10.475	-4.7 88 0.00 12.82
	----- AvgRF	CCRF	% Dev	-----
23	1,2-Dibromo-3-Chloropropa	0.192	0.170	11.5 77 0.00 14.03

---

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
O61442.D    SIMCL091820.M            Wed Sep 30 05:35:34 2020

6.7.4  
6

## Continuing Calibration Summary

Job Number: FA79149  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2368-CC2365  
 Lab FileID: O61509.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\Je...-2020\VO2368\O61509.d Vial: 3  
 Acq On : 1 Oct 2020 10:30 am Operator: akarig  
 Sample : cc2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2368,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091820.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Mon Sep 21 11:01:30 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	106	0.00	7.34
2	Vinyl Chloride	0.413	0.464	-12.3	121	0.00	2.90
	----- True	Calc.	% Drift	-----			
3	Chloromethane	10.000	11.358	-13.6	120	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.594	0.589	0.8	99	0.00	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	10.375	-3.8	113	0.00	4.70
	----- AvgRF	CCRF	% Dev	-----			
6	trans-1,2-Dichloroethene	0.703	0.660	6.1	96	0.00	4.86
7	1,1-Dichloroethane	0.813	0.764	6.0	96	0.00	5.50
8	cis-1,2-Dichloroethene	0.396	0.374	5.6	94	0.00	6.06
9	Chloroform	0.728	0.670	8.0	96	0.00	6.33
10	Carbon Tetrachloride	0.511	0.495	3.1	96	0.00	6.50
11	1,1,1-Trichloroethane	0.573	0.561	2.1	95	0.00	6.57
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	9.064	9.4	93	0.00	6.93
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.410	0.407	0.7	111	0.00	7.06
14	1,2-Dichloroethane	0.658	0.623	5.3	97	0.00	7.13
15	Trichloroethene	0.409	0.387	5.4	93	0.00	7.51
16	1,2-Dichloropropane	0.440	0.414	5.9	95	0.00	8.04
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.202	8.0	93	0.00	8.71
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	118	0.00	10.44
19 S	Toluene-d8	1.037	0.926	10.7	110	0.00	8.89
	----- True	Calc.	% Drift	-----			
20	trans-1,3-Dichloropropene	10.000	7.786	22.1#	94	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			
21	Tetrachloroethene	0.503	0.428	14.9	96	0.00	9.34

# Continuing Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2368-CC2365  
**Lab FileID:** O61509.D

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	----- True	Calc.	% Drift	-----
22	1,4-Dichlorobenzene 10.000	8.582	14.2	97 0.00 12.82
	----- AvgRF	CCRF	% Dev	-----
23	1,2-Dibromo-3-Chloropropa 0.192	0.160	16.7	99 0.00 14.03

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(#) = Out of Range

O61442.D SIMCL091820.M

SPCC's out = 0 CCC's out = 0

Fri Oct 02 05:05:52 2020

6.7.5

6

## Continuing Calibration Summary

Job Number: FA79149  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2368-ECC2365  
 Lab FileID: O61531.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\Je...-2020\VO2368\O61531.d Vial: 25  
 Acq On : 1 Oct 2020 6:56 pm Operator: akarig  
 Sample : ecc2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2368,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091820.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Mon Sep 21 11:01:30 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	81	0.00	7.34
2	Vinyl Chloride	0.413	0.518	-25.4	103	0.00	2.90
	----- True	Calc.	% Drift	-----			
3	Chloromethane	10.000	13.713	-37.1	106	0.00	2.79
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.594	0.657	-10.6	84	0.00	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	12.604	-26.0	102	0.00	4.70
	----- AvgRF	CCRF	% Dev	-----			
6	trans-1,2-Dichloroethene	0.703	0.739	-5.1	82	0.00	4.87
7	1,1-Dichloroethane	0.813	0.863	-6.2	83	0.00	5.51
8	cis-1,2-Dichloroethene	0.396	0.394	0.5	76	0.00	6.06
9	Chloroform	0.728	0.761	-4.5	83	0.00	6.33
10	Carbon Tetrachloride	0.511	0.573	-12.1	85	0.00	6.50
11	1,1,1-Trichloroethane	0.573	0.611	-6.6	79	0.00	6.57
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	10.060	-0.6	79	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.410	0.420	-2.4	87	0.00	7.07
14	1,2-Dichloroethane	0.658	0.714	-8.5	85	0.00	7.14
15	Trichloroethene	0.409	0.437	-6.8	80	0.00	7.51
16	1,2-Dichloropropane	0.440	0.463	-5.2	81	0.00	8.04
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.087	9.1	70	0.00	8.71
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00	10.44
19 S	Toluene-d8	1.037	0.892	14.0	78	0.00	8.90
	----- True	Calc.	% Drift	-----			
20	trans-1,3-Dichloropropene	10.000	8.287	17.1	74	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			
21	Tetrachloroethene	0.503	0.509	-1.2	84	0.00	9.34

# Continuing Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2368-ECC2365  
**Lab FileID:** O61531.D

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		True	Calc.	% Drift			
22	1,4-Dichlorobenzene	10.000	10.136	-1.4	86	0.00	12.82
		AvgRF	CCRF	% Dev			
23	1,2-Dibromo-3-Chloropropa	0.192	0.152	20.8	70	0.00	14.03

---

(#) = Out of Range  
061442.D SIMCL091820.M

SPCC's out = 0    CCC's out = 0  
Fri Oct 02 05:16:16 2020

6.7.6

6



# Initial Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2431-ICC2431  
**Lab FileID:** Z62659.D

## Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Calibration Files

1 =Z62655.D 2 =Z62656.D 3 =Z62657.D 4 =Z62658.D  
 5 =Z62659.D 6 =Z62660.D 7 =Z62661.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
-----									
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.635	0.677	0.651	0.645	0.625	0.586	0.608	0.632	4.72
3) Chloromethane	0.694	0.573	0.553	0.550	0.520	0.494	0.502	0.555	12.20
4) 1,1-Dichloroethen	0.321	0.374	0.371	0.374	0.365	0.345	0.337	0.355	5.91
5) Methylene Chlorid	2.064	0.961	0.705	0.590	0.559	0.534	0.902	0.902	65.45
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9953								
	Response Ratio = 0.00000 + 0.70811 *A + -0.04543 *A^2								
6)T trans-1,2-Dichlor	0.431	0.464	0.473	0.481	0.469	0.455	0.452	0.461	3.60
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
	Response Ratio = 0.00000 + 0.48235 *A + -0.00787 *A^2								
7) 1,1-Dichloroethan	0.745	0.796	0.814	0.815	0.787	0.760	0.743	0.780	3.92
8) cis-1,2-Dichloroe	0.484	0.496	0.511	0.508	0.500	0.491	0.484	0.496	2.15
9) Chloroform	0.958	0.933	0.997	0.971	0.946	0.916	0.893	0.945	3.68
10) Carbon Tetrachlor	0.426	0.487	0.503	0.544	0.560	0.543	0.551	0.516	9.29
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.54675 *A + 0.00078 *A^2								
11) 1,1,1-Trichloroet	0.647	0.745	0.780	0.807	0.802	0.766	0.749	0.757	7.14
12) Benzene	1.643	1.708	1.774	1.779	1.752	1.694	1.643	1.713	3.36
13)S 1,2-Dichloroethan	0.322	0.326	0.325	0.323	0.318	0.312	0.309	0.319	2.11
14) 1,2-Dichloroethan	0.630	0.595	0.650	0.619	0.598	0.586	0.565	0.606	4.75
15) Trichloroethene	0.464	0.470	0.496	0.494	0.494	0.475	0.462	0.479	3.10
16) 1,2-Dichloropropa	0.416	0.401	0.442	0.424	0.417	0.409	0.397	0.415	3.66
17) cis-1,3-Dichlorop	0.326	0.245	0.346	0.379	0.434	0.470	0.503	0.386	23.18
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9946								
	Response Ratio = 0.00000 + 0.47889 *A								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.133	1.089	1.064	1.051	1.044	1.048	1.056	1.069	2.96
20)T trans-1,3-Dichlor	0.240	0.152	0.238	0.278	0.340	0.388	0.439	0.296	33.29
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.22278 *A + 0.05465 *A^2								
21) Tetrachloroethene	0.545	0.555	0.580	0.559	0.549	0.524	0.509	0.546	4.31

(#) = Out of Range

6.7.7  
6

# Initial Calibration Verification

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2431-ICV2431  
**Lab FileID:** Z62663.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\100120\Z62663.D  
 Acq On : 1 Oct 2020 1:17 pm  
 Sample : icv2431-5  
 Misc : MS47304,VZ2431,,,,,  
 MS Integration Params: RTEINT.P  
 Vial: 11  
 Operator: AKARIG  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sat Oct 03 15:38:22 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	93	0.00	7.40
2	Vinyl Chloride	0.632	0.638	-0.9	95	0.00	2.83
3	Chloromethane	0.555	0.508	8.5	91	0.00	2.72
4	1,1-Dichloroethene	0.355	0.400	-12.7	101	0.00	4.08
		----- Amount	Calc.	%Drift	-----		
5	Methylene Chloride	10.000	11.550	-15.5	109	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	11.165	-11.6	103	0.00	4.88
		----- AvgRF	CCRF	%Dev	-----		
7	1,1-Dichloroethane	0.780	0.860	-10.3	101	0.00	5.54
8	cis-1,2-Dichloroethene	0.496	0.542	-9.3	100	0.00	6.10
9	Chloroform	0.945	1.001	-5.9	98	0.00	6.37
		----- Amount	Calc.	%Drift	-----		
10	Carbon Tetrachloride	10.000	11.998	-20.0	109	0.00	6.54
		----- AvgRF	CCRF	%Dev	-----		
11	1,1,1-Trichloroethane	0.757	0.863	-14.0	100	0.00	6.61
12	Benzene	1.713	1.914	-11.7	101	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.319	0.316	0.9	92	0.00	7.12
14	1,2-Dichloroethane	0.606	0.637	-5.1	99	0.00	7.19
15	Trichloroethene	0.479	0.532	-11.1	100	0.00	7.56
16	1,2-Dichloropropane	0.415	0.453	-9.2	101	0.00	8.10
		----- Amount	Calc.	%Drift	-----		
17	cis-1,3-Dichloropropene	10.000	11.774	-17.7	120	0.00	8.77
		----- AvgRF	CCRF	%Dev	-----		
18 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00	10.51
19 S	Toluene-d8	1.069	1.035	3.2	92	0.00	8.96
		----- Amount	Calc.	%Drift	-----		
20 T	trans-1,3-Dichloropropene	10.000	13.458	-34.6#	137	0.00	9.41
		----- AvgRF	CCRF	%Dev	-----		
21	Tetrachloroethene	0.546	0.577	-5.7	98	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0

6.7.8  
6

# Initial Calibration Verification

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2431-ICV2431  
**Lab FileID:** Z62663.D

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Z62659.D SIMCL100120.M Mon Oct 05 20:49:17 2020

# Continuing Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2432-CC2431  
**Lab FileID:** Z62670.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vz2432\Z62670.d Vial: 3  
 Acq On : 2 Oct 2020 3:31 pm Operator: AKARIG  
 Sample : cc2431-5 Inst : MSVOA15  
 Misc : MS47304,VZ2432,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sat Oct 03 15:38:22 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	114	0.00	7.40
2	Vinyl Chloride	0.632	0.548	13.3	100	0.00	2.83
3	Chloromethane	0.555	0.509	8.3	112	0.00	2.72
4	1,1-Dichloroethene	0.355	0.294	17.2	92	0.00	4.08
		----- True	Calc.	% Drift	-----		
5	Methylene Chloride	10.000	9.702	3.0	116	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	8.796	12.0	100	0.00	4.88
		----- AvgRF	CCRF	% Dev	-----		
7	1,1-Dichloroethane	0.780	0.701	10.1	102	0.00	5.54
8	cis-1,2-Dichloroethene	0.496	0.452	8.9	103	0.00	6.10
9	Chloroform	0.945	0.838	11.3	101	0.00	6.37
		----- True	Calc.	% Drift	-----		
10	Carbon Tetrachloride	10.000	8.667	13.3	97	0.00	6.54
		----- AvgRF	CCRF	% Dev	-----		
11	1,1,1-Trichloroethane	0.757	0.677	10.6	96	0.00	6.61
12	Benzene	1.713	1.552	9.4	101	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.319	0.312	2.2	112	0.00	7.12
14	1,2-Dichloroethane	0.606	0.538	11.2	103	0.00	7.19
15	Trichloroethene	0.479	0.423	11.7	98	0.00	7.56
16	1,2-Dichloropropane	0.415	0.373	10.1	102	0.00	8.10
		----- True	Calc.	% Drift	-----		
17	cis-1,3-Dichloropropene	10.000	9.695	3.0	122	0.00	8.77
		----- AvgRF	CCRF	% Dev	-----		
18 I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00	10.51
19 S	Toluene-d8	1.069	1.062	0.7	115	0.00	8.96
		----- True	Calc.	% Drift	-----		
20 T	trans-1,3-Dichloropropene	10.000	11.540	-15.4	136	0.00	9.41
		----- AvgRF	CCRF	% Dev	-----		
21	Tetrachloroethene	0.546	0.467	14.5	97	0.00	9.40

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

# Continuing Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2432-CC2431  
**Lab FileID:** Z62670.D

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Z62659.D SIMCL100120.M Tue Oct 06 05:38:01 2020

# Continuing Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2432-ECC2431  
**Lab FileID:** Z62692.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vz2432\Z62692.d Vial: 25  
 Acq On : 2 Oct 2020 11:20 pm Operator: AKARIG  
 Sample : ecc2431-5 Inst : MSVOA15  
 Misc : MS47304,VZ2432,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sat Oct 03 15:38:22 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	75	0.00	7.40
2	Vinyl Chloride	0.632	0.715	-13.1	86	0.00	2.83
3	Chloromethane	0.555	0.586	-5.6	84	0.00	2.73
4	1,1-Dichloroethene	0.355	0.378	-6.5	77	0.00	4.08
		----- True	Calc.	% Drift	-----		
5	Methylene Chloride	10.000	10.156	-1.6	79	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	10.350	-3.5	77	0.00	4.89
		----- AvgRF	CCRF	% Dev	-----		
7	1,1-Dichloroethane	0.780	0.824	-5.6	78	0.00	5.54
8	cis-1,2-Dichloroethene	0.496	0.513	-3.4	77	0.00	6.10
9	Chloroform	0.945	1.014	-7.3	80	0.00	6.37
		----- True	Calc.	% Drift	-----		
10	Carbon Tetrachloride	10.000	10.155	-1.5	74	0.00	6.54
		----- AvgRF	CCRF	% Dev	-----		
11	1,1,1-Trichloroethane	0.757	0.825	-9.0	77	0.00	6.61
12	Benzene	1.713	1.811	-5.7	77	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.319	0.328	-2.8	77	0.00	7.12
14	1,2-Dichloroethane	0.606	0.628	-3.6	78	0.00	7.19
15	Trichloroethene	0.479	0.517	-7.9	78	0.00	7.56
16	1,2-Dichloropropane	0.415	0.440	-6.0	79	0.00	8.10
		----- True	Calc.	% Drift	-----		
17	cis-1,3-Dichloropropene	10.000	8.195	18.0	68	0.00	8.77
		----- AvgRF	CCRF	% Dev	-----		
18 I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00	10.51
19 S	Toluene-d8	1.069	0.957	10.5	73	0.00	8.96
		----- True	Calc.	% Drift	-----		
20 T	trans-1,3-Dichloropropene	10.000	9.058	9.4	70	0.00	9.41
		----- AvgRF	CCRF	% Dev	-----		
21	Tetrachloroethene	0.546	0.535	2.0	78	0.00	9.40

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

# Continuing Calibration Summary

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2432-ECC2431  
**Lab FileID:** Z62692.D

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Z62659.D SIMCL100120.M Tue Oct 06 05:38:22 2020

**Run Sequence Report**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2365	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2365-BFB	O61437.D	09/18/20 08:17	n/a	BFB Tune
VO2365-IC2365	O61438.D	09/18/20 08:59	n/a	Initial cal 1
VO2365-IC2365	O61439.D	09/18/20 09:19	n/a	Initial cal 2
VO2365-IC2365	O61440.D	09/18/20 09:39	n/a	Initial cal 3
VO2365-IC2365	O61441.D	09/18/20 09:59	n/a	Initial cal 4
VO2365-ICC2365	O61442.D	09/18/20 10:20	n/a	Initial cal 5
VO2365-IC2365	O61443.D	09/18/20 10:40	n/a	Initial cal 6
VO2365-IC2365	O61444.D	09/18/20 11:00	n/a	Initial cal 7
VO2365-ICV2365	O61449.D	09/18/20 13:45	n/a	Initial cal verification 5
VO2365-BS	O61450.D	09/18/20 14:23	n/a	Blank Spike
VO2365-MB	O61452.D	09/18/20 15:04	n/a	Method Blank
ZZZZZZ	O61453.D	09/18/20 15:24	n/a	(unrelated sample)
FA78549-15	O61454.D	09/18/20 15:45	n/a	(used for QC only; not part of job FA79149)
ZZZZZZ	O61455.D	09/18/20 16:05	n/a	(unrelated sample)
FA78549-15MS	O61456.D	09/18/20 16:26	n/a	Matrix Spike
FA78549-15MSD	O61457.D	09/18/20 16:46	n/a	Matrix Spike Duplicate
VO2365-ECC2365	O61458.D	09/18/20 17:07	n/a	Ending cal 5



**Run Sequence Report**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2367	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2367-BFB	O61482.D	09/25/20 12:19	n/a	BFB Tune
VO2367-CC2365	O61483.D	09/25/20 12:51	n/a	Continuing cal 5
VO2367-BS	O61484.D	09/25/20 13:29	n/a	Blank Spike
VO2367-MB	O61486.D	09/25/20 14:09	n/a	Method Blank
FA79149-1	O61487.D	09/25/20 15:58	n/a	2039XOU2266F
FA79149-7	O61493.D	09/25/20 18:01	n/a	2039X0BW272F
FA79149-7MS	O61502.D	09/25/20 21:05	n/a	Matrix Spike
FA79149-7MSD	O61503.D	09/25/20 21:25	n/a	Matrix Spike Duplicate
VO2367-ECC2365	O61504.D	09/25/20 21:45	n/a	Ending cal 5

**Run Sequence Report**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2368	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2368-BFB	O61508.D	10/01/20 09:54	n/a	BFB Tune
VO2368-CC2365	O61509.D	10/01/20 10:30	n/a	Continuing cal 5
VO2368-BS	O61511.D	10/01/20 11:52	n/a	Blank Spike
VO2368-MB	O61513.D	10/01/20 12:53	n/a	Method Blank
FA79149-1	O61514.D	10/01/20 13:13	n/a	2039XOU2266F
FA79149-1MS	O61519.D	10/01/20 14:54	n/a	Matrix Spike
FA79149-1MSD	O61520.D	10/01/20 15:14	n/a	Matrix Spike Duplicate
FA79149-7	O61522.D	10/01/20 15:55	n/a	2039X0BW272F
VO2368-ECC2365	O61531.D	10/01/20 18:56	n/a	Ending cal 5

**Run Sequence Report**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2431	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
-----------------------	-----------------------------------	-----------------------------

<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VZ2431-BFB	Z62654.D	10/01/20 09:35	n/a	BFB Tune
VZ2431-IC2431	Z62655.D	10/01/20 10:01	n/a	Initial cal 1
VZ2431-IC2431	Z62656.D	10/01/20 10:20	n/a	Initial cal 2
VZ2431-IC2431	Z62657.D	10/01/20 10:40	n/a	Initial cal 3
VZ2431-IC2431	Z62658.D	10/01/20 10:59	n/a	Initial cal 4
VZ2431-ICC2431	Z62659.D	10/01/20 11:18	n/a	Initial cal 5
VZ2431-IC2431	Z62660.D	10/01/20 11:37	n/a	Initial cal 6
VZ2431-IC2431	Z62661.D	10/01/20 11:59	n/a	Initial cal 7
VZ2431-ICV2431	Z62663.D	10/01/20 13:17	n/a	Initial cal verification 5

**Run Sequence Report**

**Job Number:** FA79149  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2432	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
-----------------------	-----------------------------------	-----------------------------

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2432-BFB	Z62669.D	10/02/20 15:11	n/a	BFB Tune
VZ2432-CC2431	Z62670.D	10/02/20 15:31	n/a	Continuing cal 5
VZ2432-BS	Z62671.D	10/02/20 16:17	n/a	Blank Spike
VZ2432-MB	Z62673.D	10/02/20 17:13	n/a	Method Blank
FA79149-1	Z62674.D	10/02/20 17:32	n/a	2039XOU2266F
FA79149-2	Z62675.D	10/02/20 17:51	n/a	2039XOU2267F
FA79149-3	Z62676.D	10/02/20 18:10	n/a	2039X0BW268F
FA79149-4	Z62677.D	10/02/20 18:30	n/a	2039XOU2269F
FA79149-5	Z62678.D	10/02/20 18:49	n/a	2039XOU2270F
FA79149-6	Z62679.D	10/02/20 19:08	n/a	2039XOU2271D
FA79149-1MS	Z62680.D	10/02/20 19:28	n/a	Matrix Spike
FA79149-1MSD	Z62681.D	10/02/20 19:47	n/a	Matrix Spike Duplicate
FA79149-8	Z62683.D	10/02/20 20:26	n/a	2039X0BW273F
FA79149-9	Z62684.D	10/02/20 20:45	n/a	2039X0BW274F
FA79149-10	Z62685.D	10/02/20 21:04	n/a	2039X0BW275F
FA79149-11	Z62686.D	10/02/20 21:23	n/a	2039X0BW276F
FA79149-12	Z62687.D	10/02/20 21:43	n/a	2039X0BW277F
FA79149-13	Z62688.D	10/02/20 22:02	n/a	2039X0BW278F
FA79149-14	Z62689.D	10/02/20 22:21	n/a	2039X0BW279F
FA79149-15	Z62690.D	10/02/20 22:41	n/a	2039X0BW280F
FA79149-16	Z62691.D	10/02/20 23:00	n/a	2039X0BW281F
VZ2432-ECC2431	Z62692.D	10/02/20 23:20	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100220\  
Data File : Z62674.D  
Acq On : 2 Oct 2020 5:32 pm  
Operator : AKARIG  
Sample : fa79149-1  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 09:41:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1860547	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1791936	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	608147	5.12	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.40%	
19) Toluene-d8	8.961	98	1921321	5.01	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%	
Target Compounds							
5) Methylene Chloride	4.717	84	93624	0.36	ppb		98
9) Chloroform	6.377	83	149927	0.43	ppb		99
10) Carbon Tetrachloride	6.543	117	44218	0.22	ppb		100
-----							

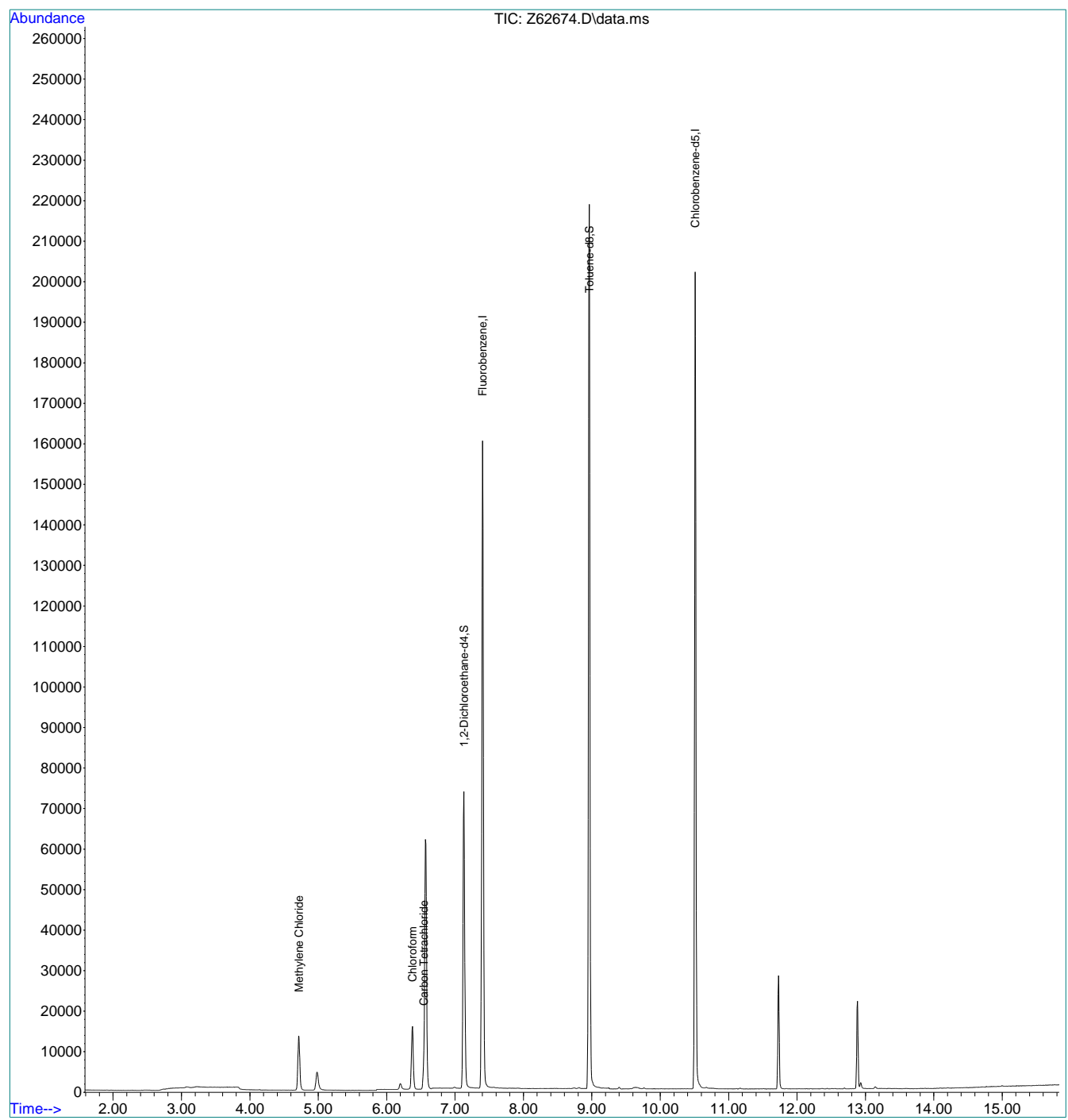
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1  
7

Quantitation Report (QT Reviewed)

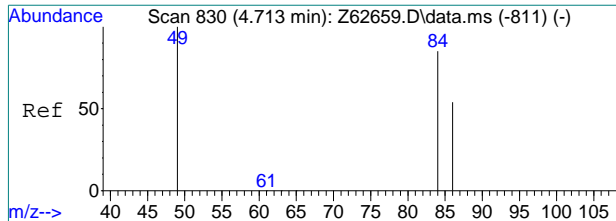
Data Path : C:\msdchem\1\data\100220\  
Data File : Z62674.D  
Acq On : 2 Oct 2020 5:32 pm  
Operator : AKARIG  
Sample : fa79149-1  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 09:41:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



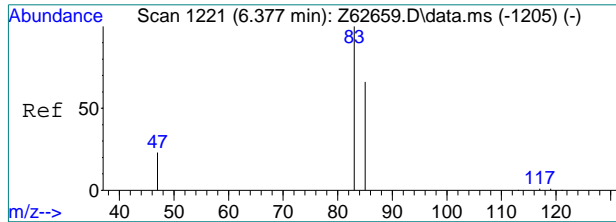
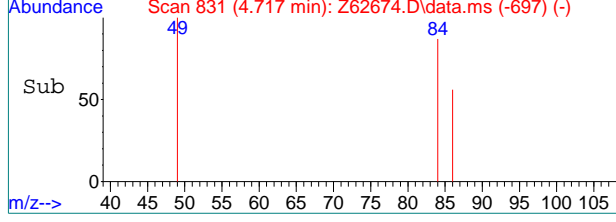
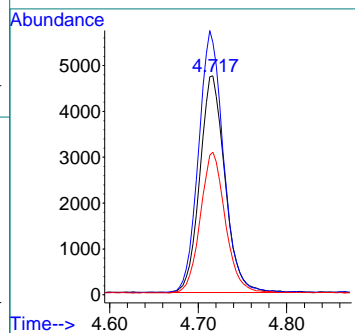
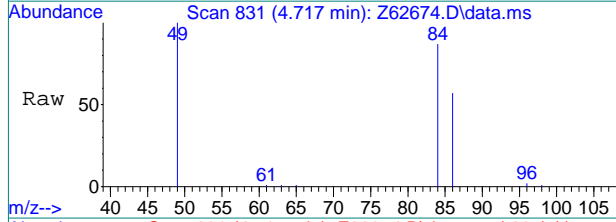
7.1.7





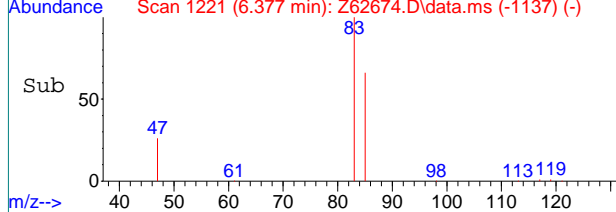
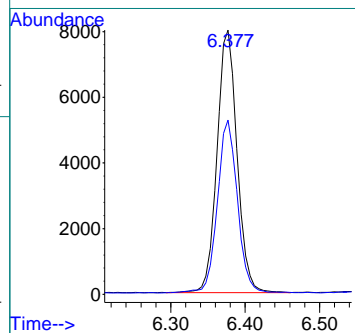
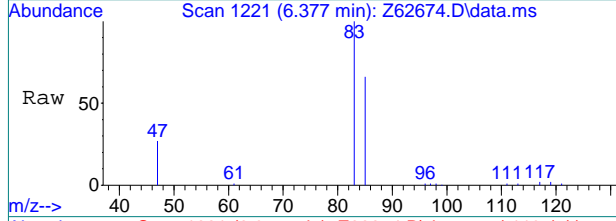
#5  
 Methylene Chloride  
 Concen: 0.36 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62674.D  
 Acq: 2 Oct 2020 5:32 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	115.3	98.2	138.2
86	64.9	43.5	83.5



#9  
 Chloroform  
 Concen: 0.43 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62674.D  
 Acq: 2 Oct 2020 5:32 pm

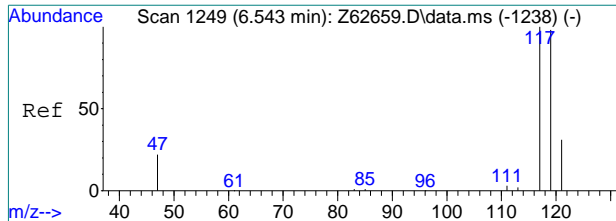
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	46.5	86.5



7.11  
7

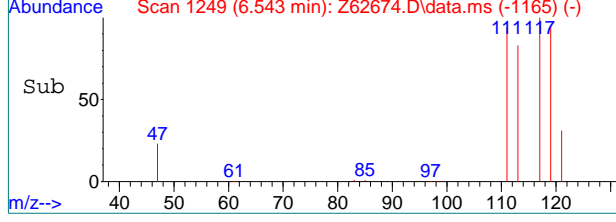
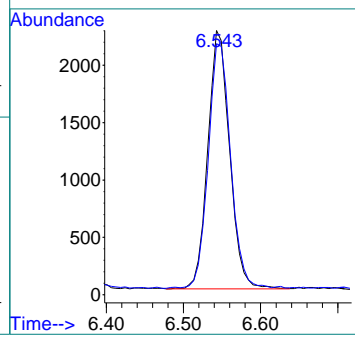
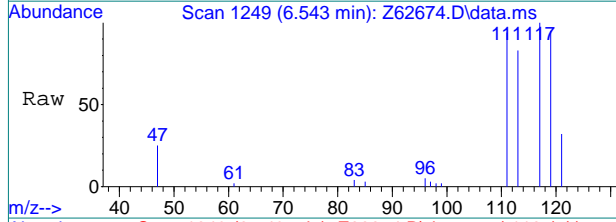






#10  
Carbon Tetrachloride  
Concen: 0.22 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62674.D  
Acq: 2 Oct 2020 5:32 pm

Tgt Ion	Resp	Lower	Upper
117	44218		
117	100		
119	97.2	77.2	117.2



7.1.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\092520\  
 Data File : O61487.D  
 Acq On : 25 Sep 2020 3:58 pm  
 Operator : JuanG  
 Sample : fa79149-1 Inst : MSVOA12  
 Misc : MS47304,VO2367,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 10:56:29 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.344	96	224836	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	229587	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	112917	6.12	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	122.40%	
19) Toluene-d8	8.896	98	189228	3.97	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	79.40%#	
Target Compounds						
3) Chloromethane	2.803	50	5987	0.20	ug/L	75
5) Methylene Chloride	4.707	49	7539	0.15	ug/L	96
6) trans-1,2-Dichloroethene	4.948	61	2345	0.07	ug/L #	30
9) Chloroform	6.332	83	15983	0.49	ug/L	97
10) Carbon Tetrachloride	6.510	117	6662	0.29	ug/L	97

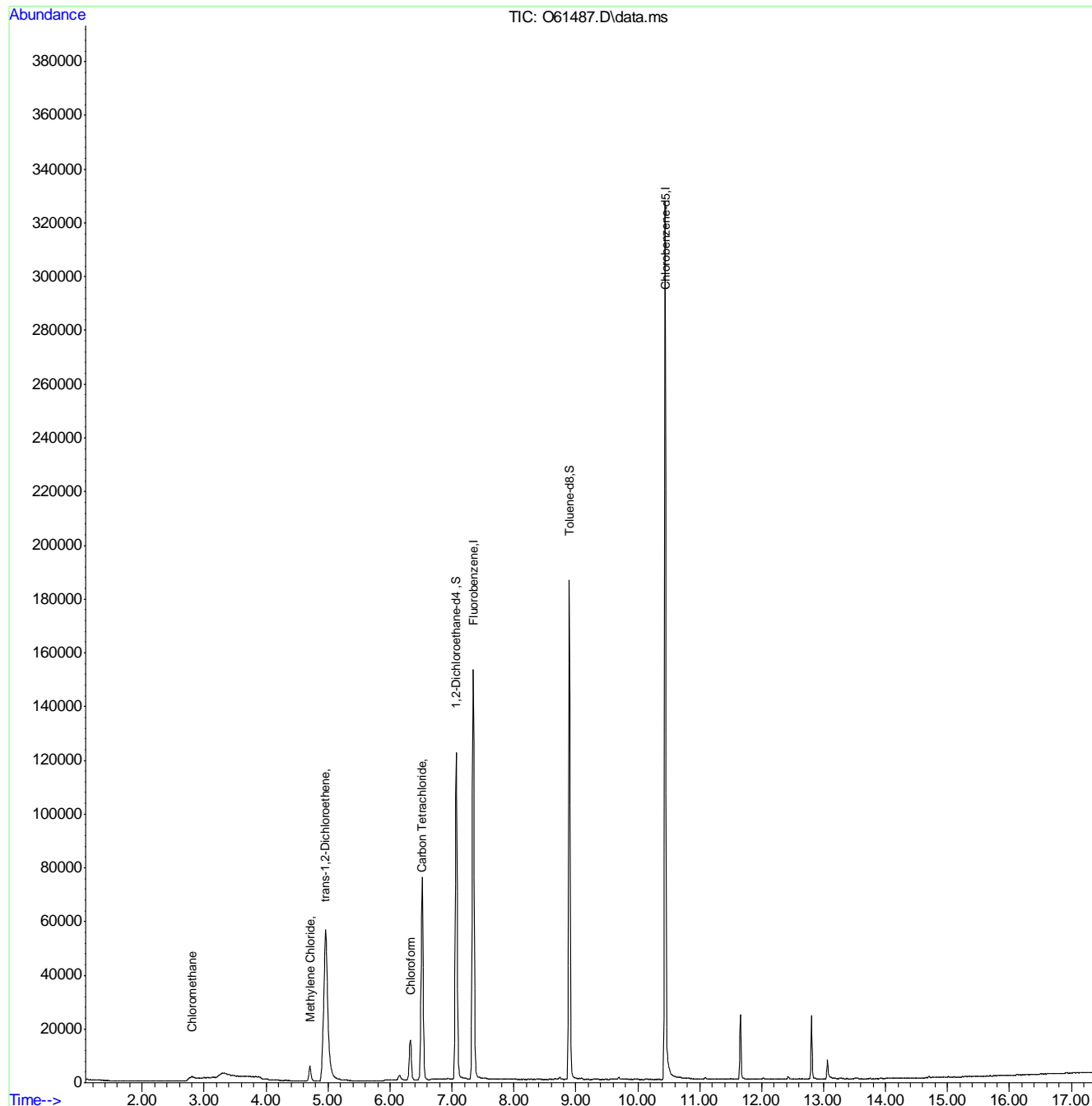
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\092520\  
Data File : 061487.D  
Acq On : 25 Sep 2020 3:58 pm  
Operator : JuanG  
Sample : fa79149-1  
Misc : MS47304,VO2367,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Oct 01 10:56:29 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
Quant Title : Standard Methods 6200B  
QLast Update : Mon Sep 21 11:01:30 2020  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\OCTOBER 2020\10-02-2020\VO2368\  
 Data File : O61514.d  
 Acq On : 1 Oct 2020 1:13 pm  
 Operator : akarig  
 Sample : fa79149-1 Inst : MSVOA12  
 Misc : MS47304,VO2368,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Results File: SIMCL091820.RES  
 Quant Time: Oct 02 05:08:35 2020  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

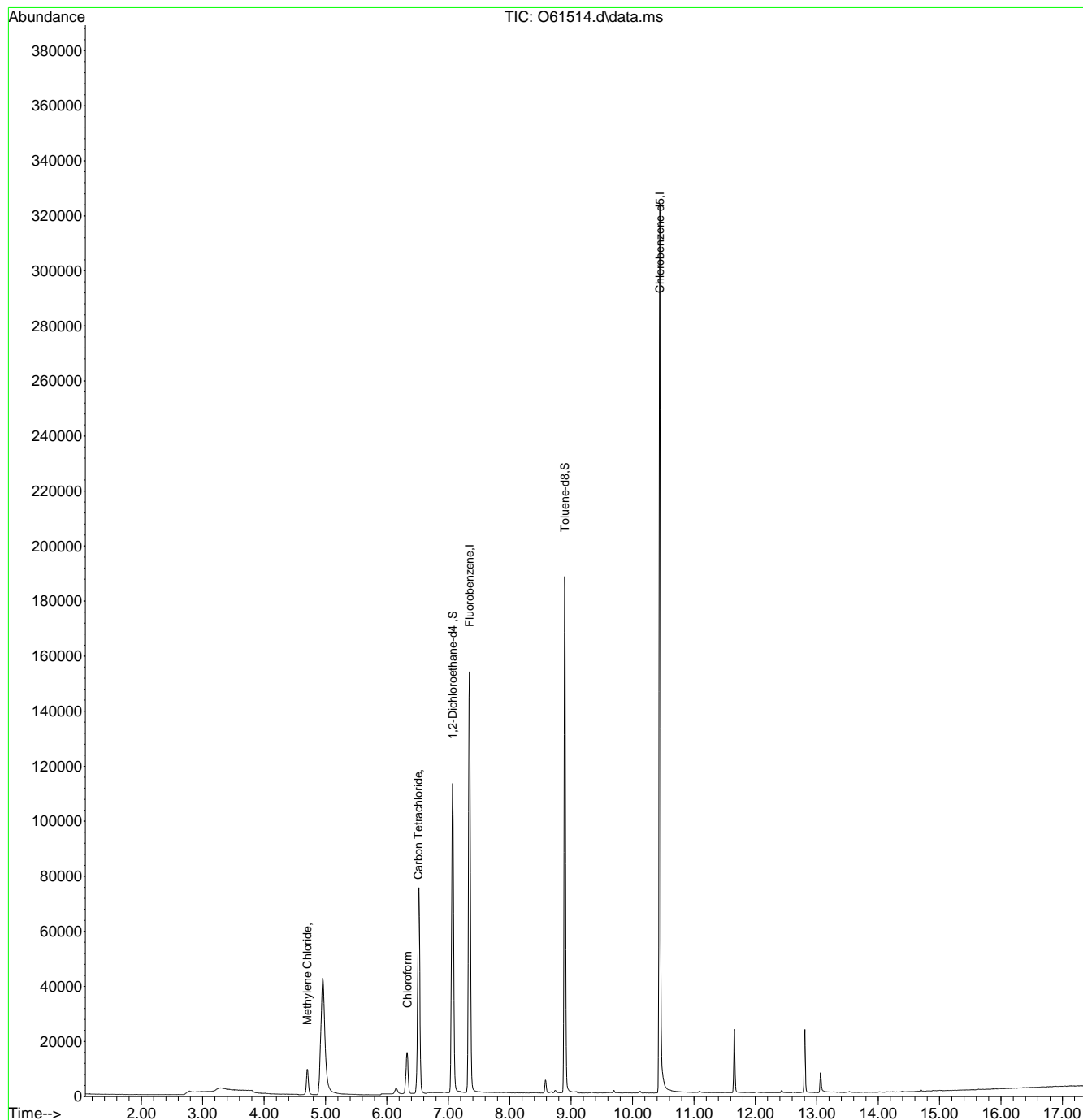
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.344	96	221629	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	216163	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	105778	5.82	ug/L	0.00
Spiked Amount	5.000	Range	74 - 125	Recovery	=	116.40%
19) Toluene-d8	8.896	98	185188	4.13	ug/L	0.00
Spiked Amount	5.000	Range	88 - 111	Recovery	=	82.60%#
Target Compounds						
						Qvalue
5) Methylene Chloride	4.699	49	12615	0.26	ug/L	92
9) Chloroform	6.332	83	16606	0.51	ug/L	97
10) Carbon Tetrachloride	6.510	117	7081	0.31	ug/L	99
-----						

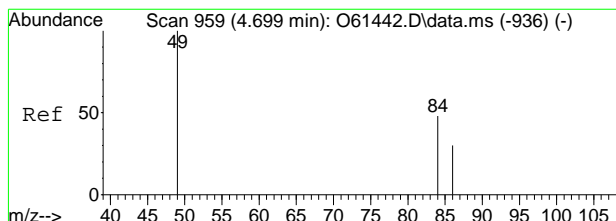
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\OCTOBER 2020\10-02-2020\VO2368\  
Data File : O61514.d  
Acq On : 1 Oct 2020 1:13 pm  
Operator : akarig  
Sample : fa79149-1 Inst : MSVOA12  
Misc : MS47304,VO2368,,,,,  
ALS Vial : 8 Sample Multiplier: 1

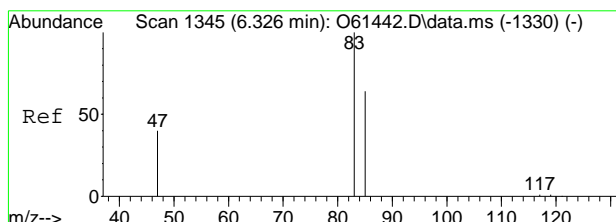
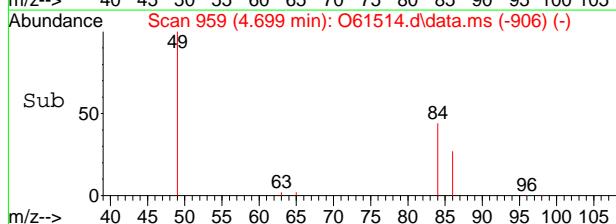
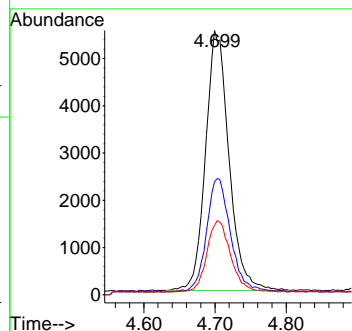
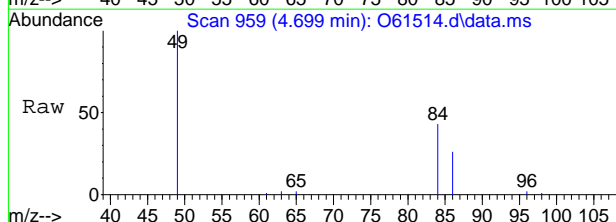
Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
Quant Results File: SIMCL091820.RES  
Quant Time: Oct 02 05:08:35 2020  
Quant Title : Standard Methods 6200B  
QLast Update : Mon Sep 21 11:01:30 2020  
Response via : Initial Calibration





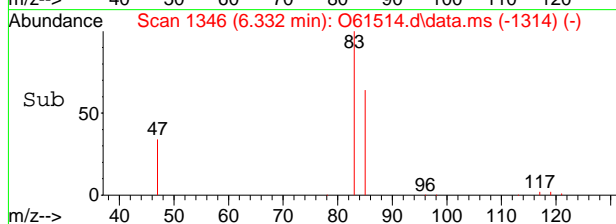
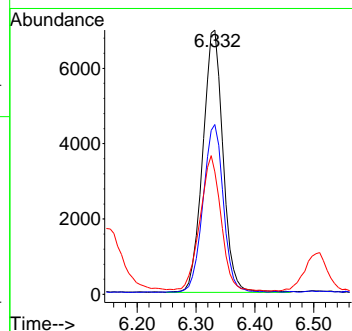
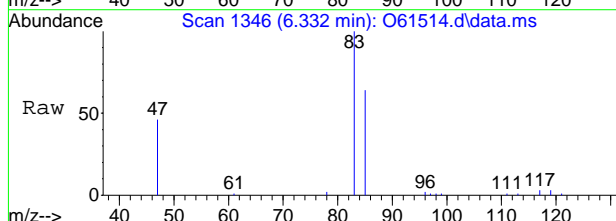
#5  
 Methylene Chloride  
 Concen: 0.26 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. 0.000 min  
 Lab File: O61514.d  
 Acq: 1 Oct 2020 1:13 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	42.4	17.8	77.8
86	25.6	0.3	60.3

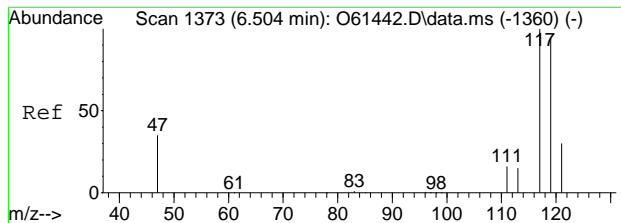


#9  
 Chloroform  
 Concen: 0.51 ug/L  
 RT: 6.332 min Scan# 1346  
 Delta R.T. 0.006 min  
 Lab File: O61514.d  
 Acq: 1 Oct 2020 1:13 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	34.2	94.2
47	44.8	10.4	70.4

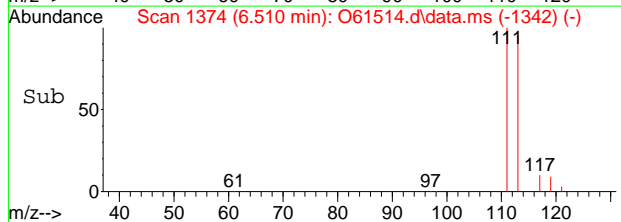
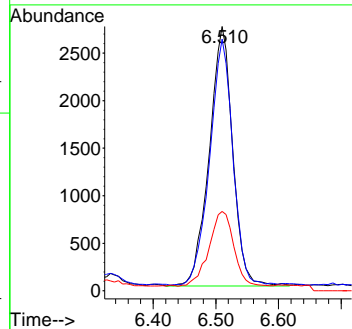
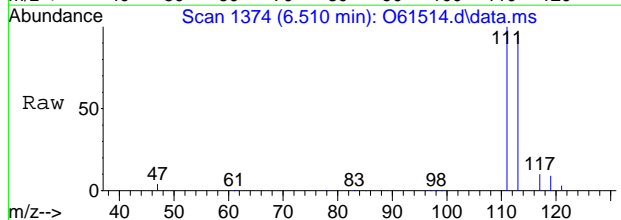


7.13  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.31 ug/L  
 RT: 6.510 min Scan# 1374  
 Delta R.T. 0.006 min  
 Lab File: O61514.d  
 Acq: 1 Oct 2020 1:13 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.5	64.4	124.4
121	28.7	0.0	59.7



7.1.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62675.d  
Acq On : 2 Oct 2020 5:51 pm  
Operator : AKARIG  
Sample : fa79149-2  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 05:31:03 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1819132	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1767721	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	594333	5.12	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.40%
19) Toluene-d8	8.961	98	1876464	4.96	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
Target Compounds						
5) Methylene Chloride	4.717	84	89275	0.35	ppb	98
9) Chloroform	6.377	83	88433	0.26	ppb	100
10) Carbon Tetrachloride	6.543	117	11239	0.06	ppb	98
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

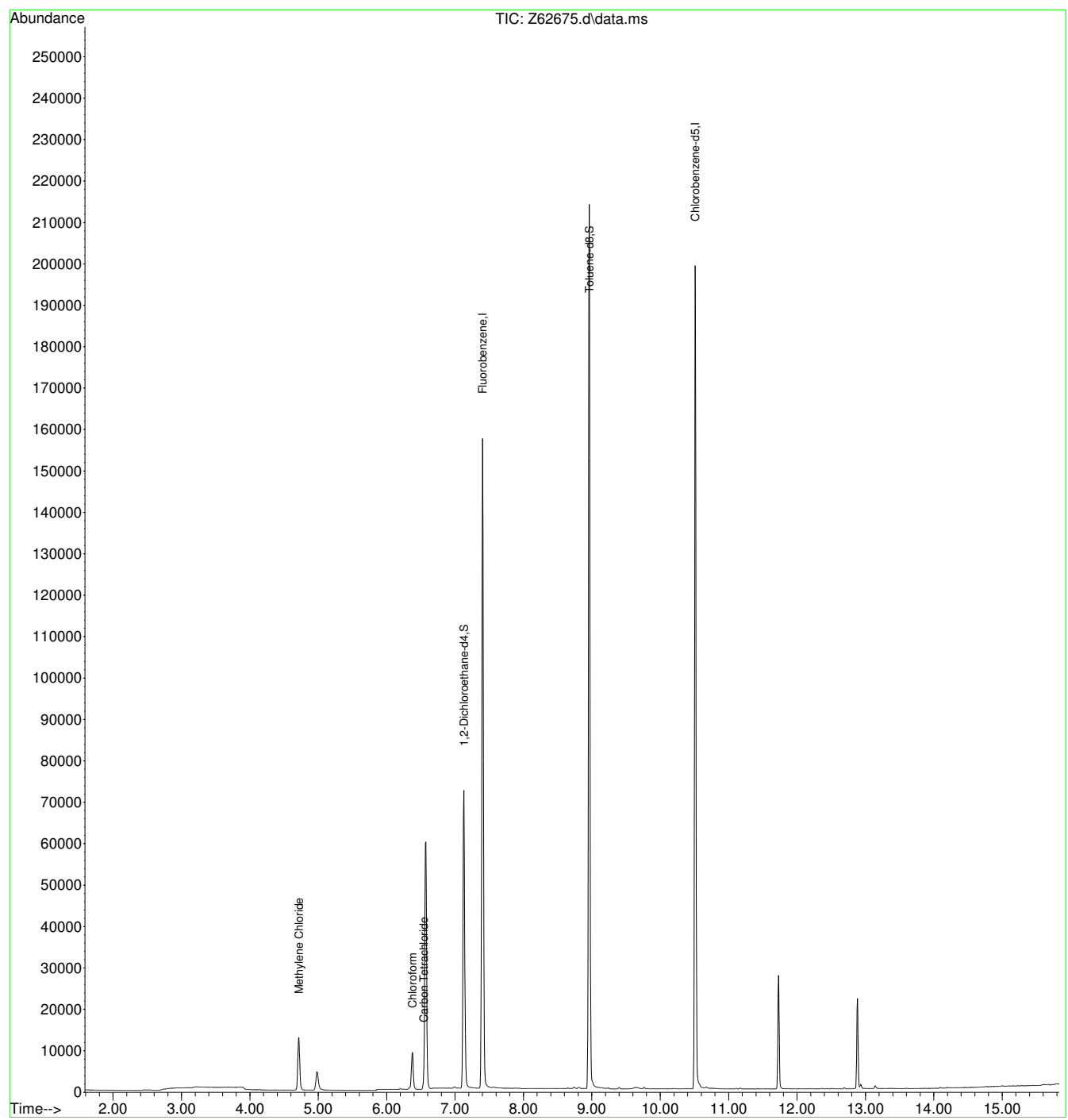
7.14  
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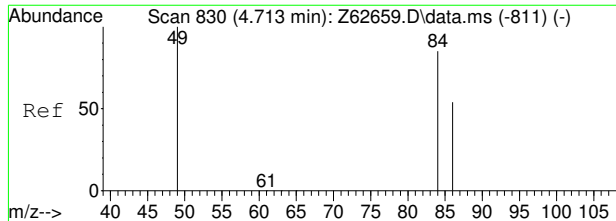
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62675.d  
Acq On : 2 Oct 2020 5:51 pm  
Operator : AKARIG  
Sample : fa79149-2  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 05:31:03 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



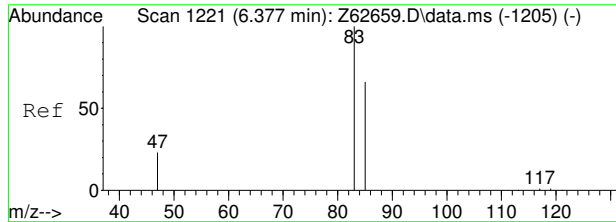
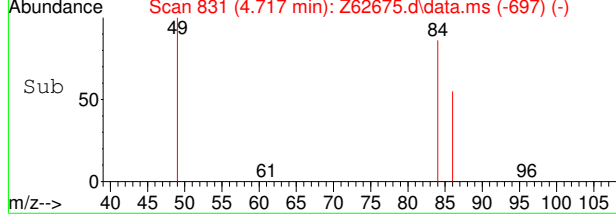
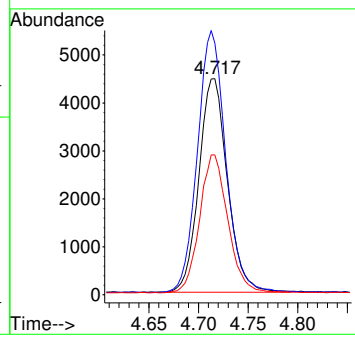
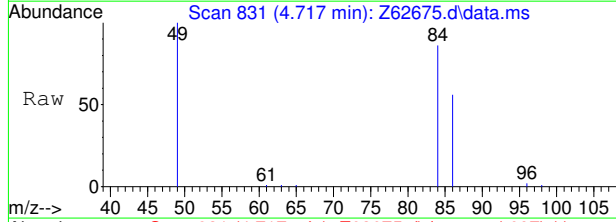
7.1.4  
7



#5  
 Methylene Chloride  
 Concen: 0.35 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62675.d  
 Acq: 2 Oct 2020 5:51 pm

Tgt Ion: 84 Resp: 89275

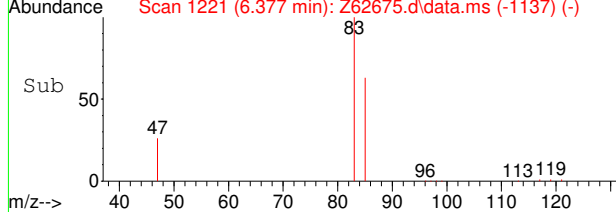
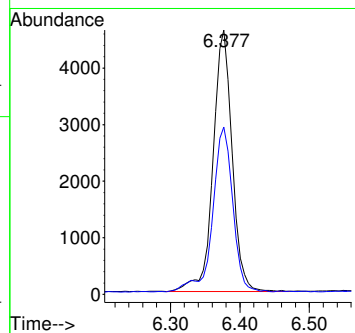
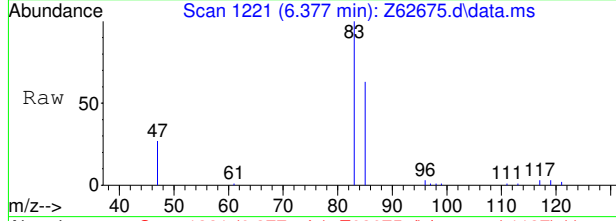
Ion	Ratio	Lower	Upper
84	100		
49	116.3	98.2	138.2
86	64.4	43.5	83.5



#9  
 Chloroform  
 Concen: 0.26 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62675.d  
 Acq: 2 Oct 2020 5:51 pm

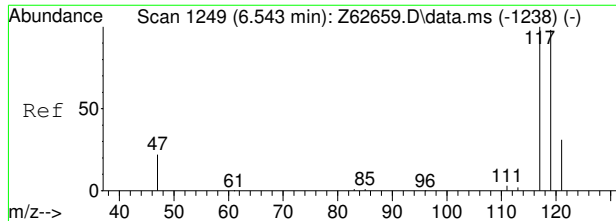
Tgt Ion: 83 Resp: 88433

Ion	Ratio	Lower	Upper
83	100		
85	66.3	46.5	86.5



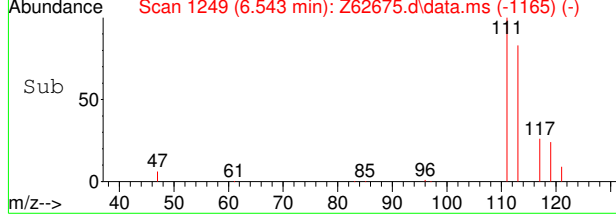
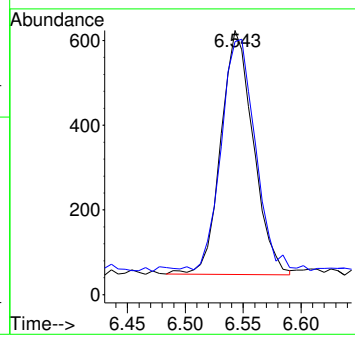
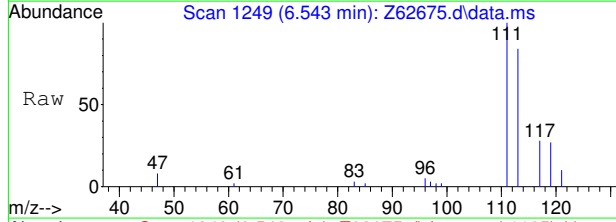
7.14  
7





#10  
Carbon Tetrachloride  
Concen: 0.06 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62675.d  
Acq: 2 Oct 2020 5:51 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.2	117.2



7.14  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62676.d  
Acq On : 2 Oct 2020 6:10 pm  
Operator : AKARIG  
Sample : fa79149-3  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 06 05:31:06 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Fluorobenzene	7.401	96	1875516	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1827097	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	618260	5.16	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.20%	
19) Toluene-d8	8.961	98	1931558	4.94	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%	
Target Compounds							
5) Methylene Chloride	4.717	84	83251	0.31	ppb		99
9) Chloroform	6.377	83	68633	0.19	ppb		99
10) Carbon Tetrachloride	6.543	117	71836	0.35	ppb		98

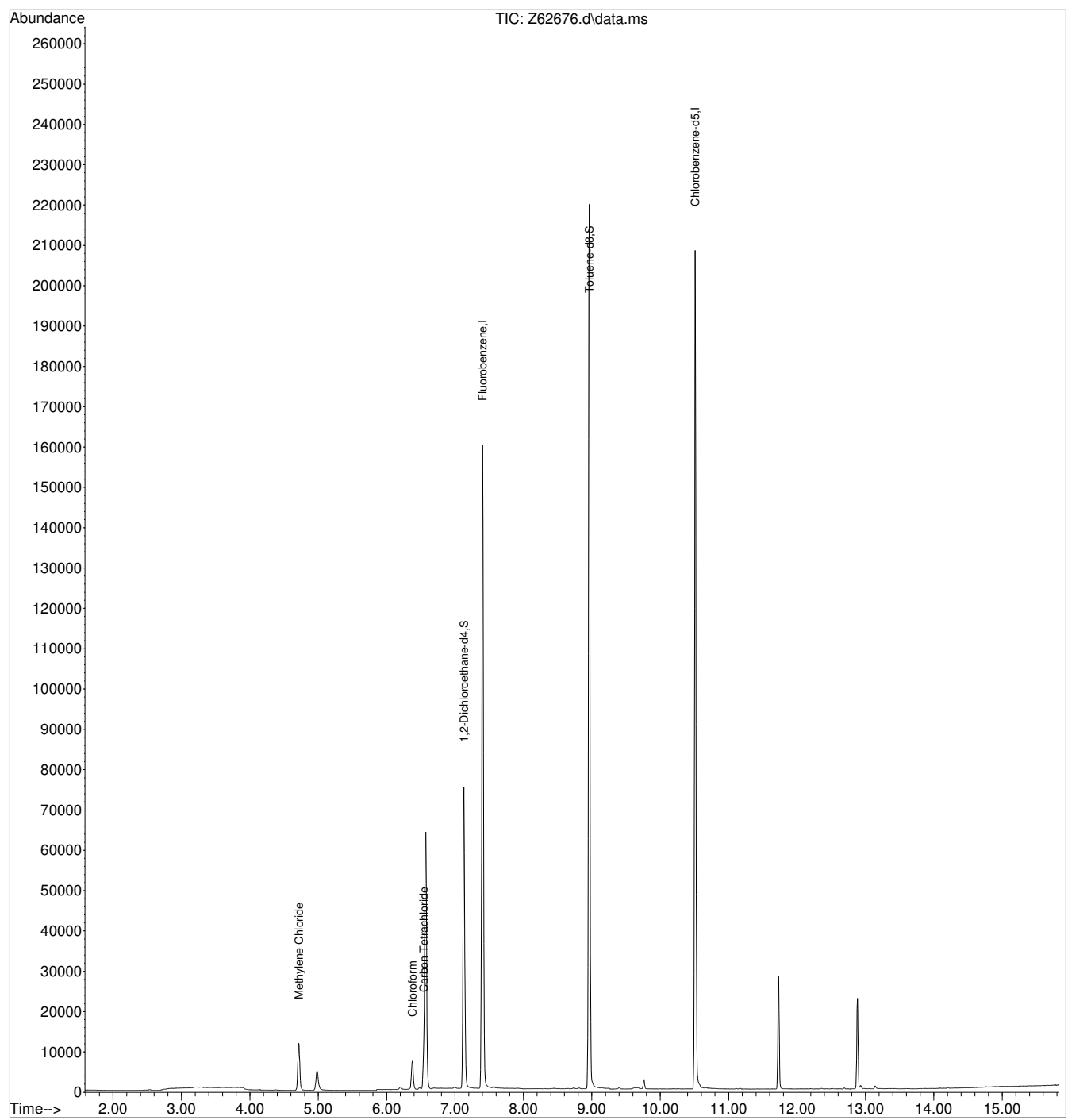
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.15  
7

Quantitation Report (QT Reviewed)

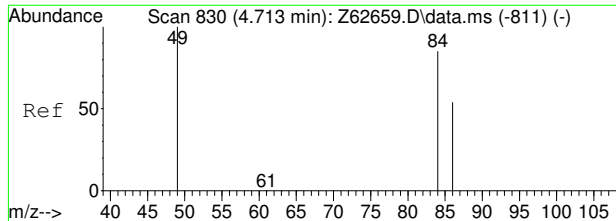
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62676.d  
Acq On : 2 Oct 2020 6:10 pm  
Operator : AKARIG  
Sample : fa79149-3  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 06 05:31:06 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



7.15  
7

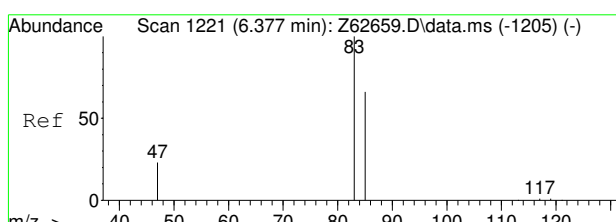
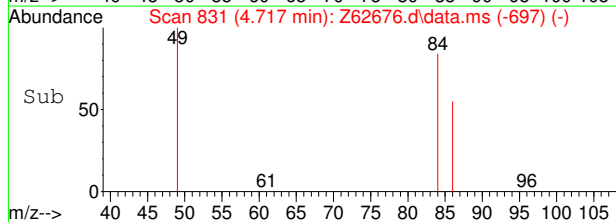
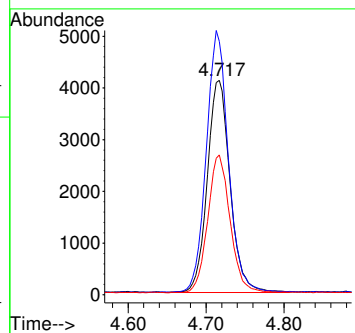
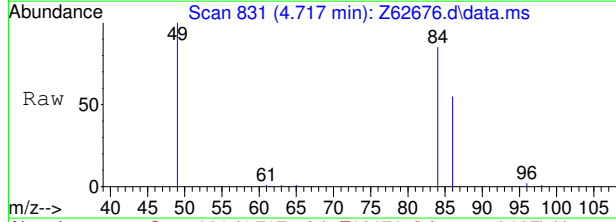




#5  
Methylene Chloride  
Concen: 0.31 ppb  
RT: 4.717 min Scan# 831  
Delta R.T. 0.004 min  
Lab File: Z62676.d  
Acq: 2 Oct 2020 6:10 pm

Tgt Ion: 84 Resp: 83251

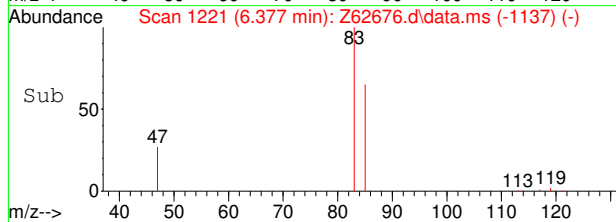
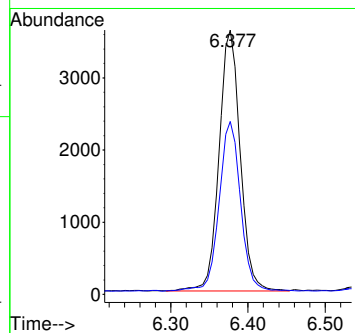
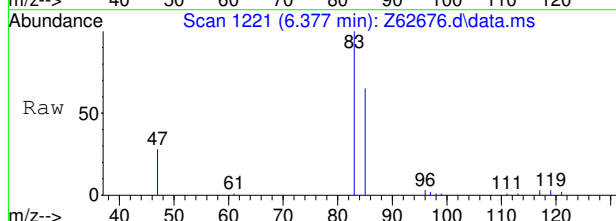
Ion	Ratio	Lower	Upper
84	100		
49	118.0	98.2	138.2
86	64.9	43.5	83.5



#9  
Chloroform  
Concen: 0.19 ppb  
RT: 6.377 min Scan# 1221  
Delta R.T. 0.000 min  
Lab File: Z62676.d  
Acq: 2 Oct 2020 6:10 pm

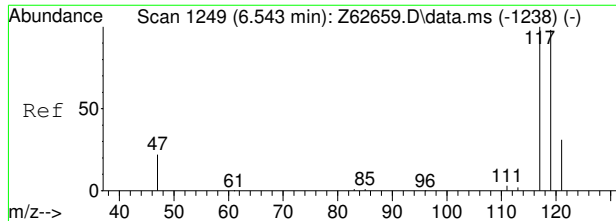
Tgt Ion: 83 Resp: 68633

Ion	Ratio	Lower	Upper
83	100		
85	65.9	46.5	86.5



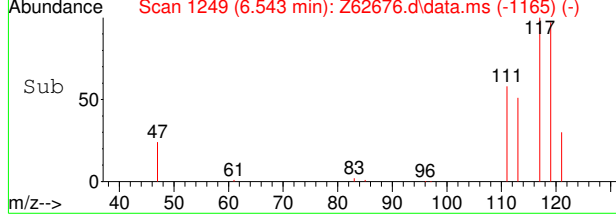
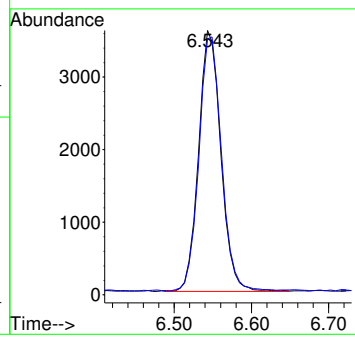
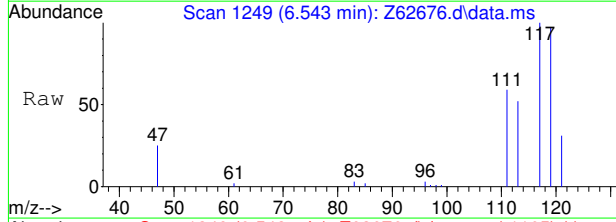
7.15  
7





#10  
Carbon Tetrachloride  
Concen: 0.35 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62676.d  
Acq: 2 Oct 2020 6:10 pm

Tgt Ion	Resp	Lower	Upper
117	71836		
117	100		
119	98.8	77.2	117.2



7.1.5  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62677.d  
Acq On : 2 Oct 2020 6:30 pm  
Operator : AKARIG  
Sample : fa79149-4  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 05:31:10 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1783880	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1737975	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	591571	5.19	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.80%	
19) Toluene-d8	8.961	98	1836413	4.94	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%	
Target Compounds							
5) Methylene Chloride	4.713	84	78400	0.31	ppb	98	
9) Chloroform	6.371	83	31177	0.09	ppb	98	
10) Carbon Tetrachloride	6.543	117	50064	0.26	ppb	99	
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

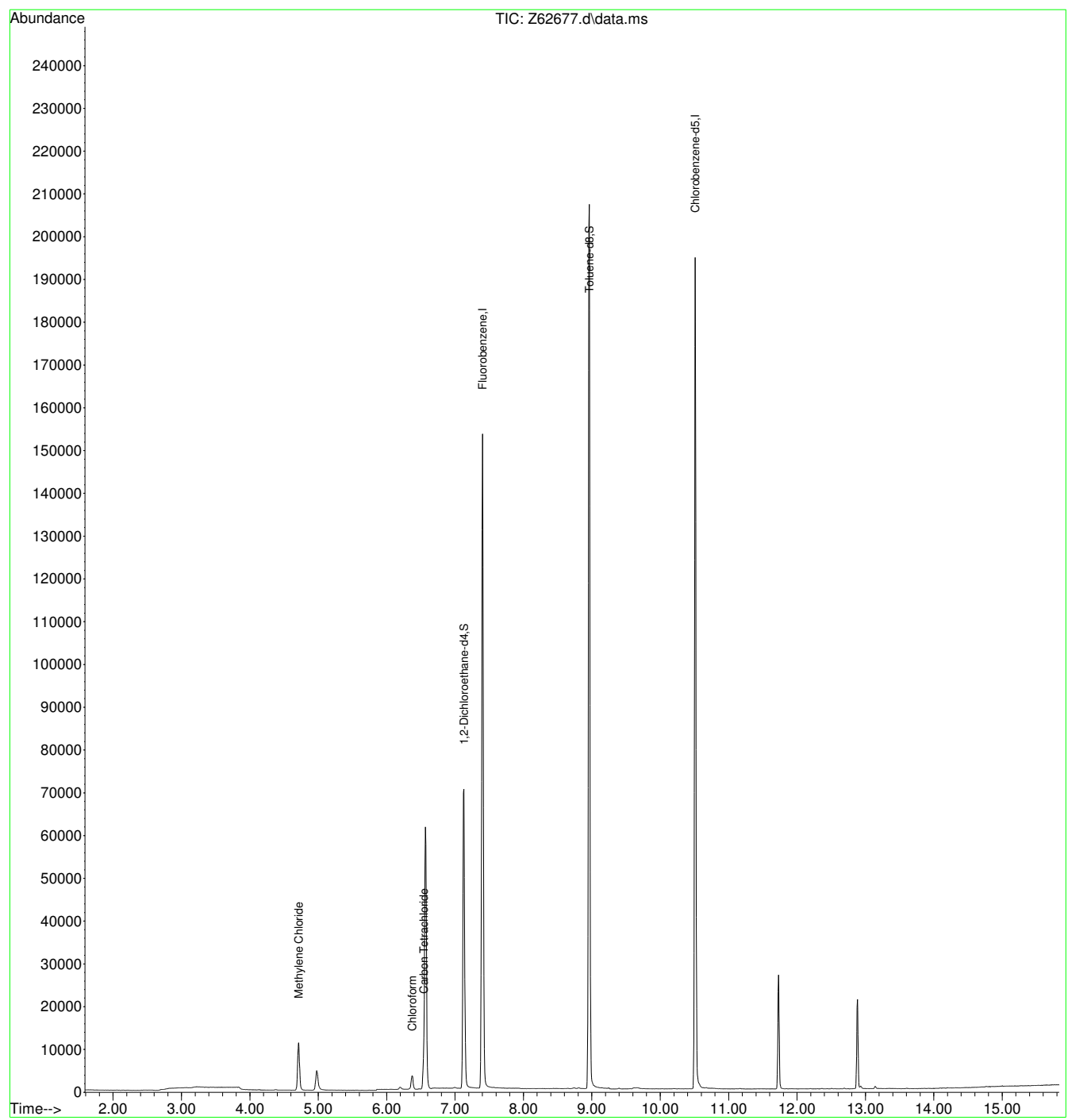
7.1.6  
7



Quantitation Report (QT Reviewed)

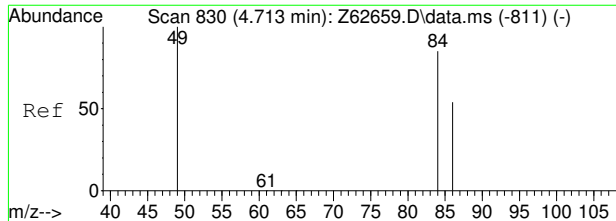
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62677.d  
Acq On : 2 Oct 2020 6:30 pm  
Operator : AKARIG  
Sample : fa79149-4  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 05:31:10 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



7.1.6  
7

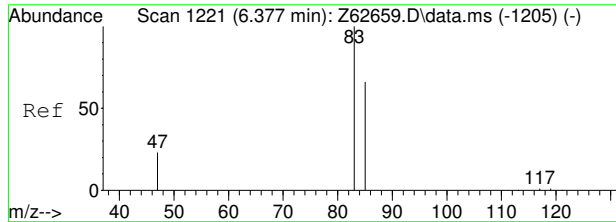
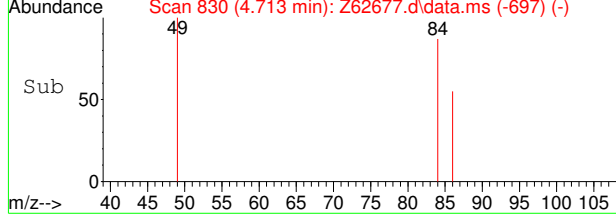
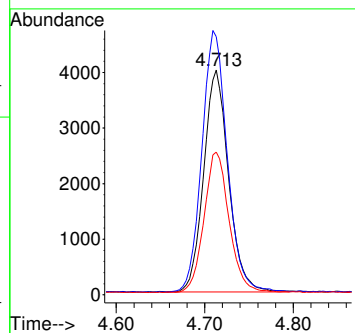
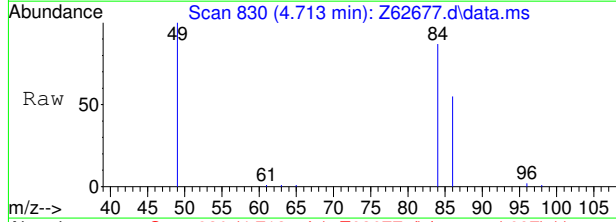




#5  
 Methylene Chloride  
 Concen: 0.31 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62677.d  
 Acq: 2 Oct 2020 6:30 pm

Tgt Ion: 84 Resp: 78400

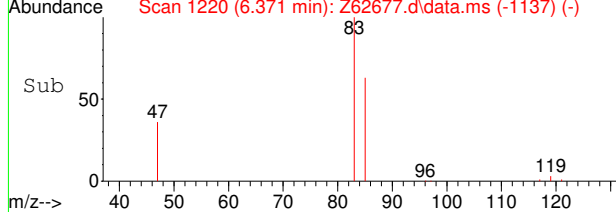
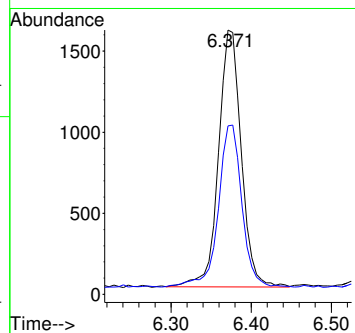
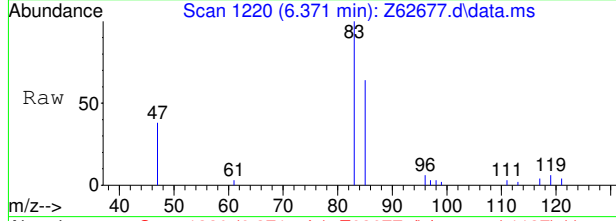
Ion	Ratio	Lower	Upper
84	100		
49	115.1	98.2	138.2
86	63.1	43.5	83.5



#9  
 Chloroform  
 Concen: 0.09 ppb  
 RT: 6.371 min Scan# 1220  
 Delta R.T. -0.006 min  
 Lab File: Z62677.d  
 Acq: 2 Oct 2020 6:30 pm

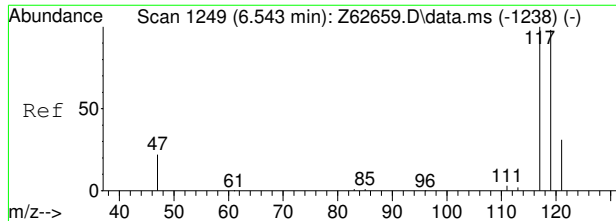
Tgt Ion: 83 Resp: 31177

Ion	Ratio	Lower	Upper
83	100		
85	65.1	46.5	86.5



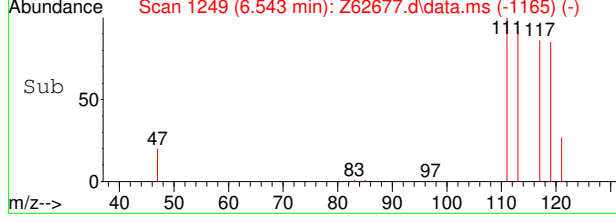
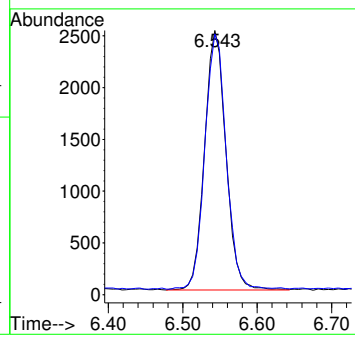
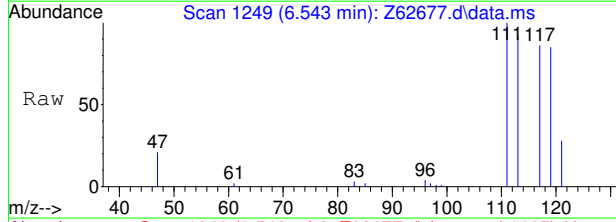
7.16  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.26 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62677.d  
 Acq: 2 Oct 2020 6:30 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.8	77.2	117.2



7.1.6  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62678.d  
 Acq On : 2 Oct 2020 6:49 pm  
 Operator : AKARIG  
 Sample : fa79149-5  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 05:31:13 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1698173	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1648470	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	569087	5.25	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	105.00%	
19) Toluene-d8	8.961	98	1735415	4.92	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%	
Target Compounds							
5) Methylene Chloride	4.713	84	74976	0.31	ppb	99	
9) Chloroform	6.377	83	147674	0.46	ppb	100	
10) Carbon Tetrachloride	6.543	117	167640	0.90	ppb	98	
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

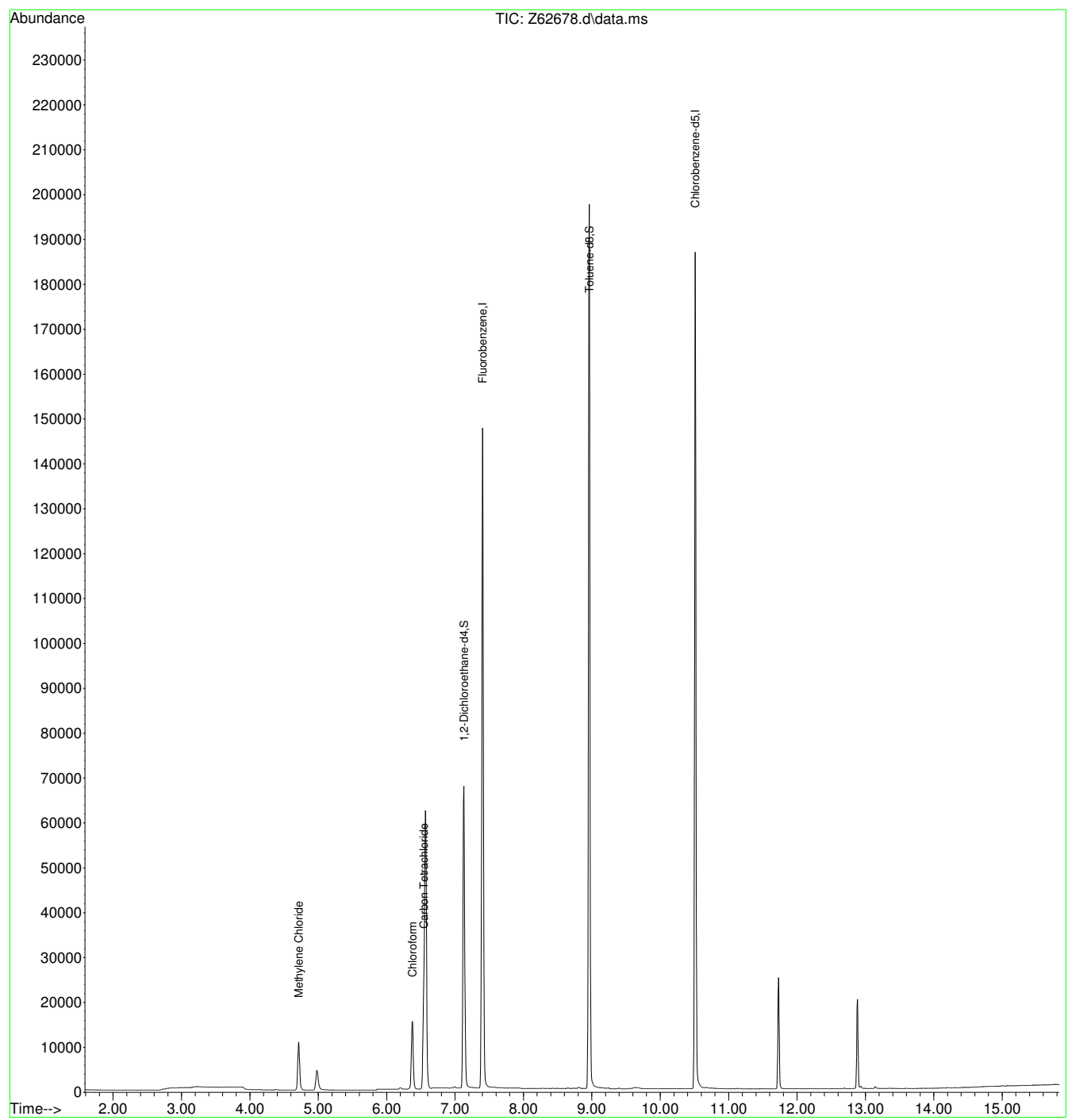
7.17  
7



Quantitation Report (QT Reviewed)

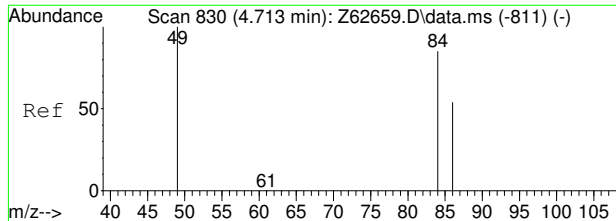
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62678.d  
Acq On : 2 Oct 2020 6:49 pm  
Operator : AKARIG  
Sample : fa79149-5  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 05:31:13 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



7.17  
7

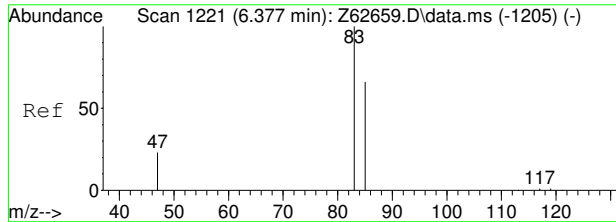
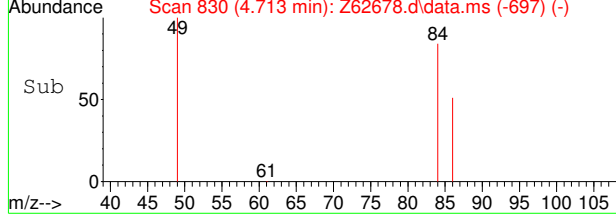
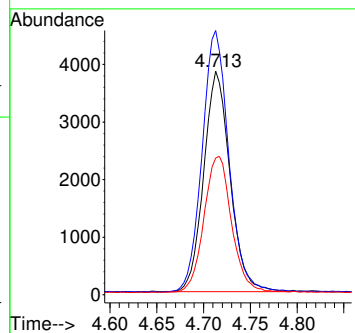
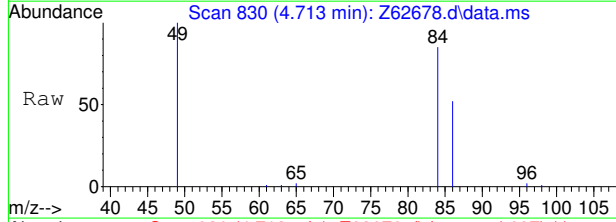




#5  
 Methylene Chloride  
 Concen: 0.31 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62678.d  
 Acq: 2 Oct 2020 6:49 pm

Tgt Ion: 84 Resp: 74976

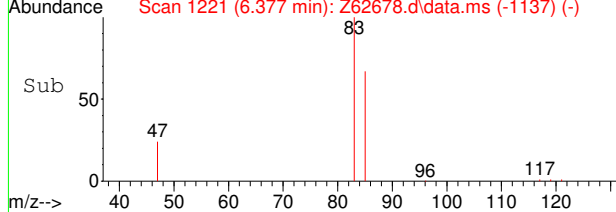
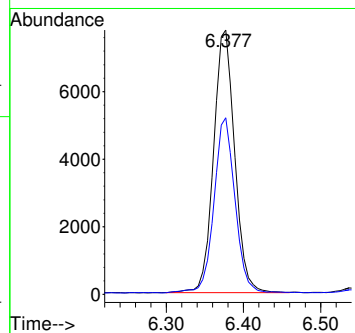
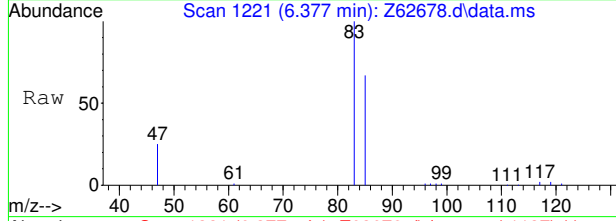
Ion	Ratio	Lower	Upper
84	100		
49	118.4	98.2	138.2
86	60.9	43.5	83.5



#9  
 Chloroform  
 Concen: 0.46 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62678.d  
 Acq: 2 Oct 2020 6:49 pm

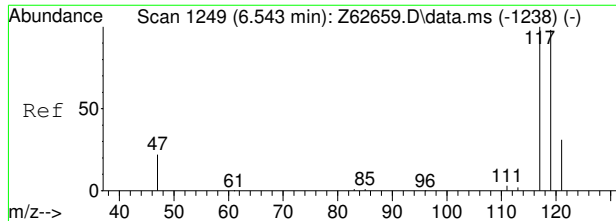
Tgt Ion: 83 Resp: 147674

Ion	Ratio	Lower	Upper
83	100		
85	66.5	46.5	86.5



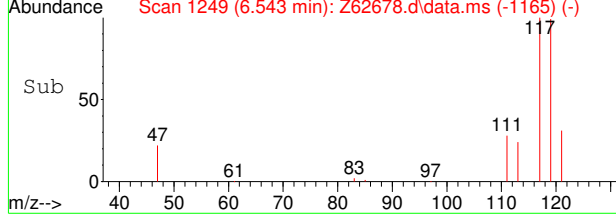
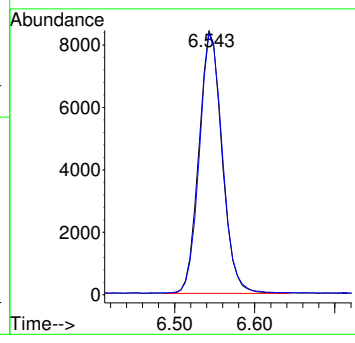
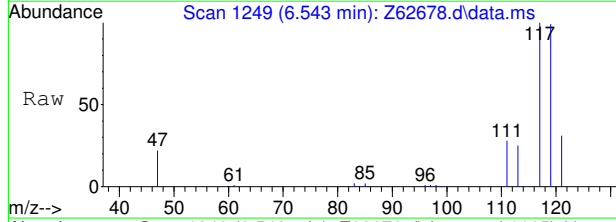
7.17





#10  
 Carbon Tetrachloride  
 Concen: 0.90 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62678.d  
 Acq: 2 Oct 2020 6:49 pm

Tgt Ion	Resp	Lower	Upper
117	167640		
117	100		
119	98.8	77.2	117.2



7.17  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62679.d  
Acq On : 2 Oct 2020 7:08 pm  
Operator : AKARIG  
Sample : fa79149-6  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 05:31:17 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1711654	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1669716	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	579588	5.30	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	106.00%	
19) Toluene-d8	8.961	98	1748649	4.90	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%	
Target Compounds							
5) Methylene Chloride	4.713	84	75430	0.31	ppb	99	
9) Chloroform	6.377	83	142312	0.44	ppb	100	
10) Carbon Tetrachloride	6.543	117	162952	0.87	ppb	99	
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

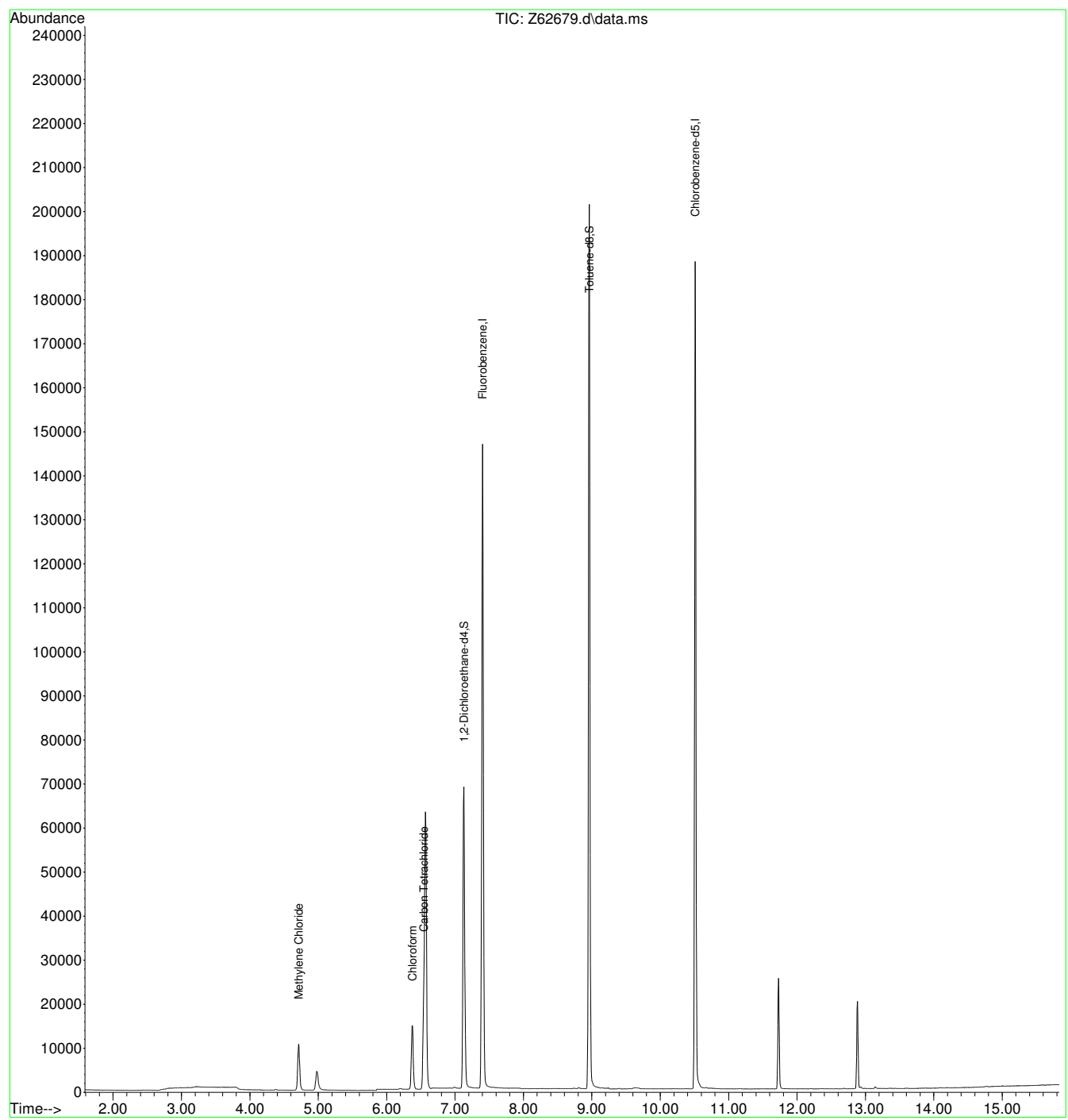
7.1.8  
7



Quantitation Report (QT Reviewed)

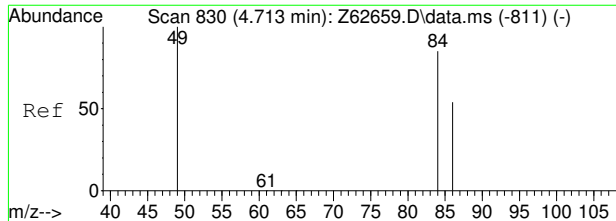
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62679.d  
Acq On : 2 Oct 2020 7:08 pm  
Operator : AKARIG  
Sample : fa79149-6  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 05:31:17 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



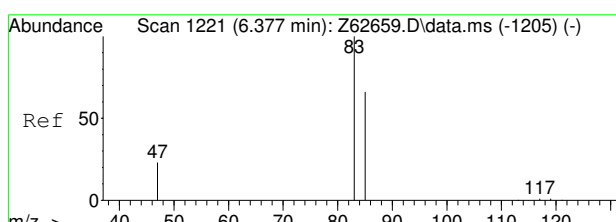
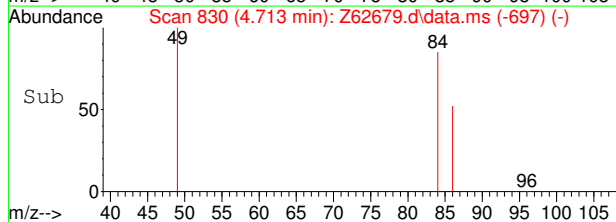
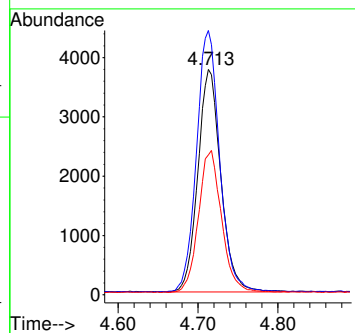
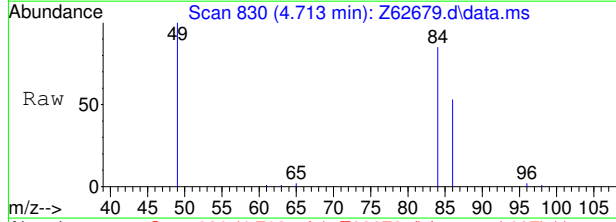
7.1.8  
7





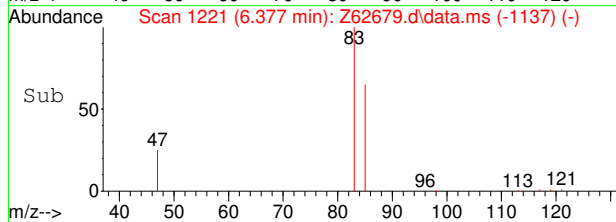
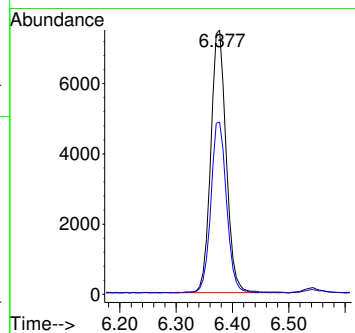
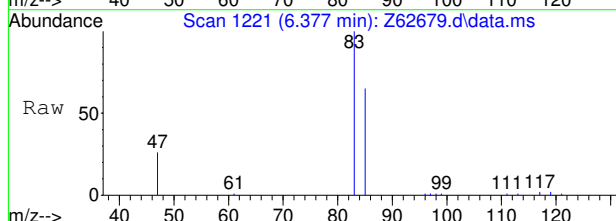
#5  
Methylene Chloride  
Concen: 0.31 ppb  
RT: 4.713 min Scan# 830  
Delta R.T. 0.000 min  
Lab File: Z62679.d  
Acq: 2 Oct 2020 7:08 pm

Tgt Ion	Resp	Lower	Upper
84	75430		
84	100		
49	117.4	98.2	138.2
86	61.6	43.5	83.5



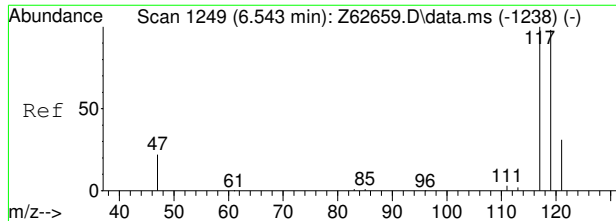
#9  
Chloroform  
Concen: 0.44 ppb  
RT: 6.377 min Scan# 1221  
Delta R.T. 0.000 min  
Lab File: Z62679.d  
Acq: 2 Oct 2020 7:08 pm

Tgt Ion	Resp	Lower	Upper
83	142312		
83	100		
85	66.1	46.5	86.5



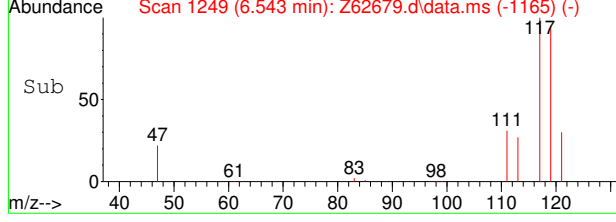
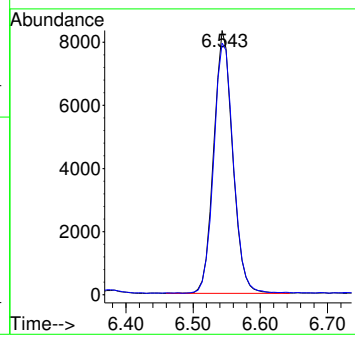
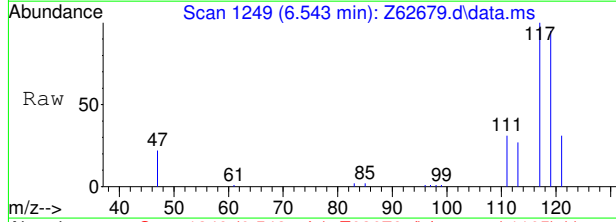
7.18  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.87 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. 0.000 min  
 Lab File: Z62679.d  
 Acq: 2 Oct 2020 7:08 pm

Tgt Ion	Resp	Lower	Upper
117	162952		
117	100		
119	98.3	77.2	117.2



7.1.8  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\092520\  
Data File : O61493.D  
Acq On : 25 Sep 2020 6:01 pm  
Operator : JuanG  
Sample : fa79149-7 Inst : MSVOA12  
Misc : MS47304,VO2367,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 09 13:17:43 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
Quant Title : Standard Methods 6200B  
QLast Update : Mon Sep 21 11:01:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.344	96	173662	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	180319	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	91624	6.43	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	128.60%#	
19) Toluene-d8	8.896	98	142334	3.81	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	76.20%#	
Target Compounds						
3) Chloromethane	2.788	50	6087	0.26	ug/L	77
5) Methylene Chloride	4.699	49	3372	0.09	ug/L	94
6) trans-1,2-Dichloroethene	4.948	61	1581	0.06	ug/L #	30
9) Chloroform	6.325	83	836	0.03	ug/L #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

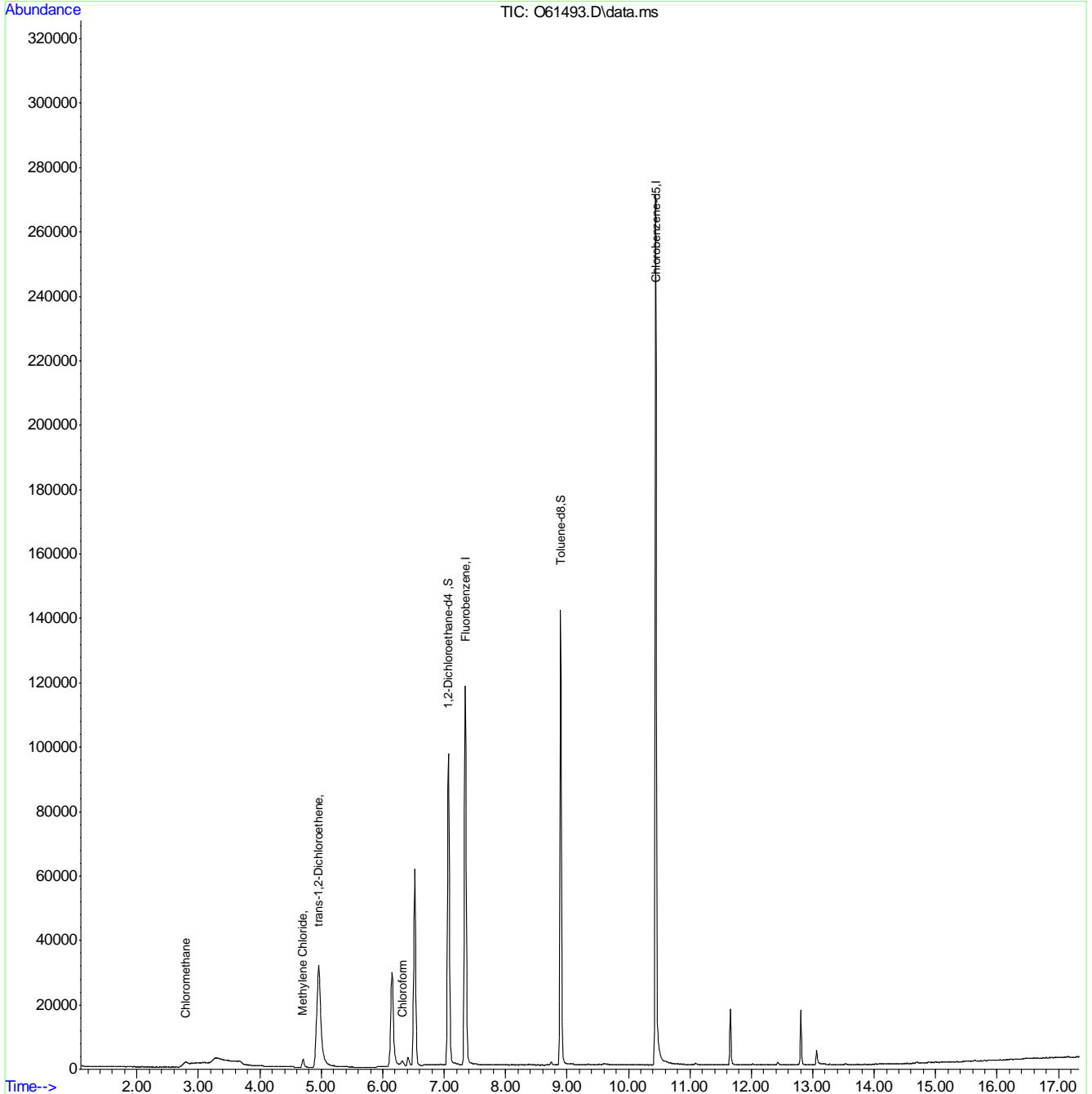
7.1.9  
7



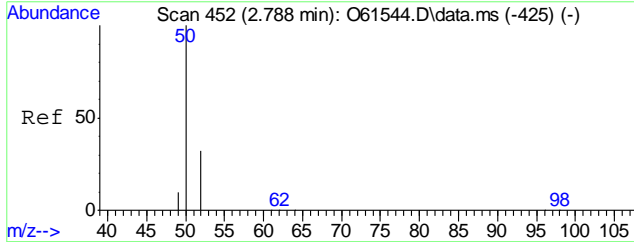
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\092520\  
Data File : O61493.D  
Acq On : 25 Sep 2020 6:01 pm  
Operator : JuanG  
Sample : fa79149-7 Inst : MSVOA12  
Misc : MS47304,VO2367,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 09 13:17:43 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
Quant Title : Standard Methods 6200B  
QLast Update : Mon Sep 21 11:01:30 2020  
Response via : Initial Calibration

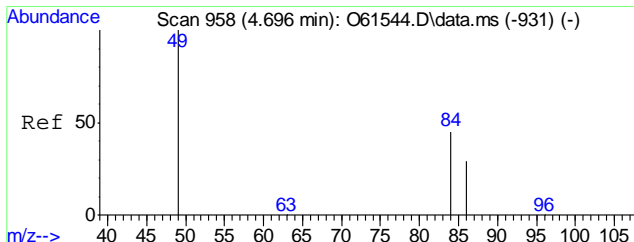
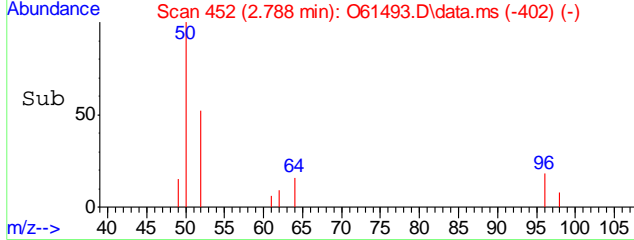
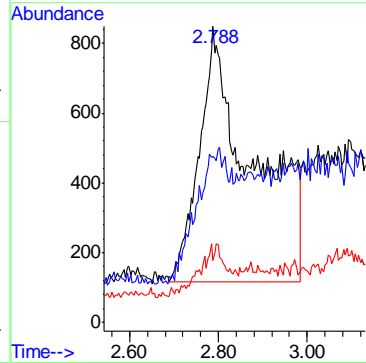
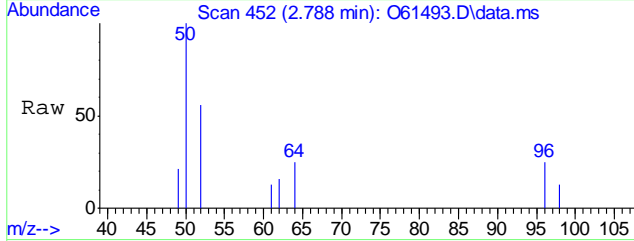


7.19  
7



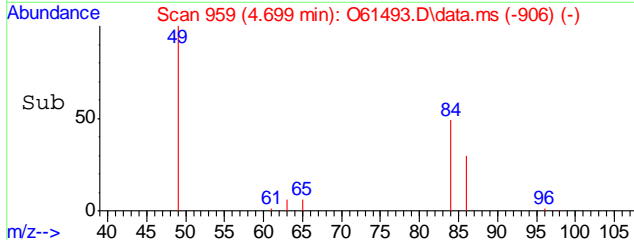
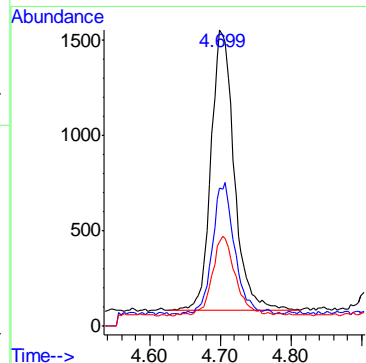
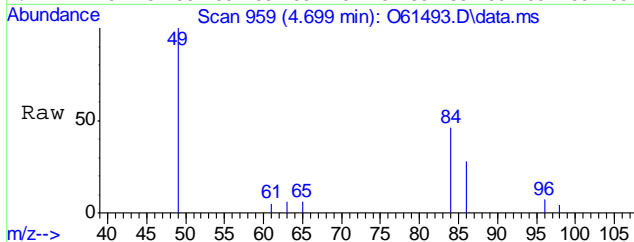
#3  
 Chloromethane  
 Concen: 0.26 ug/L  
 RT: 2.788 min Scan# 452  
 Delta R.T. -0.011 min  
 Lab File: O61493.D  
 Acq: 25 Sep 2020 6:01 pm

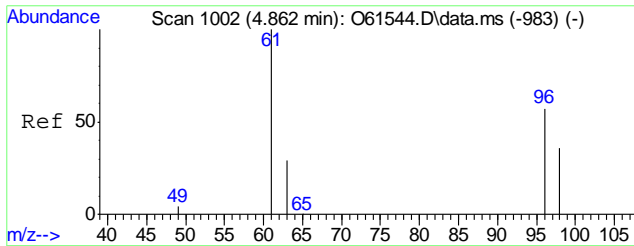
Tgt Ion	Resp	Lower	Upper
50	6087		
52	47.1	12.2	52.2
49	14.2	0.0	30.4



#5  
 Methylene Chloride  
 Concen: 0.09 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.000 min  
 Lab File: O61493.D  
 Acq: 25 Sep 2020 6:01 pm

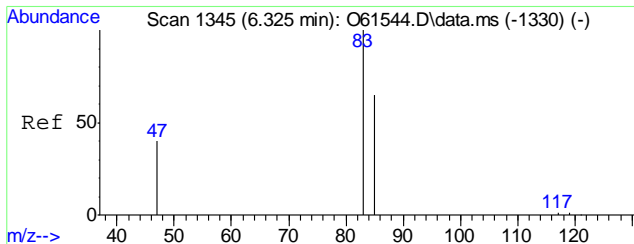
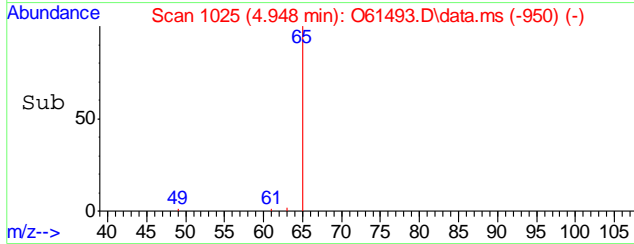
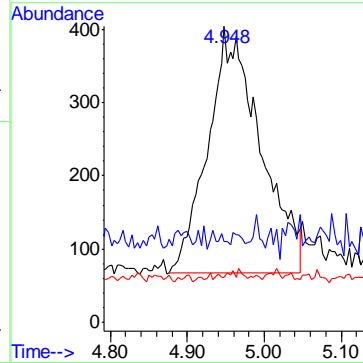
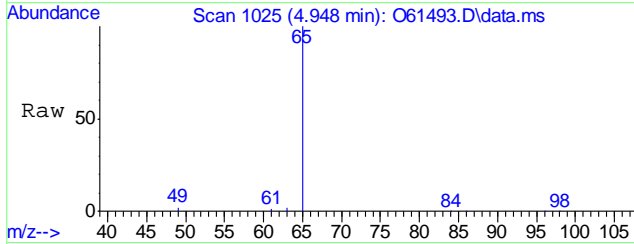
Tgt Ion	Resp	Lower	Upper
49	3372		
84	44.9	17.8	77.8
86	25.9	0.3	60.3





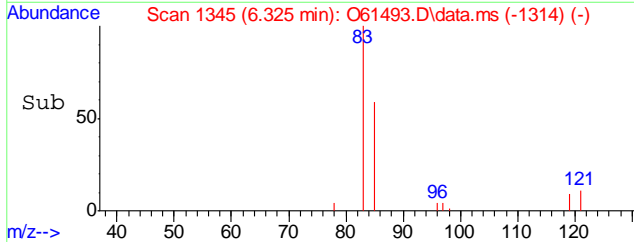
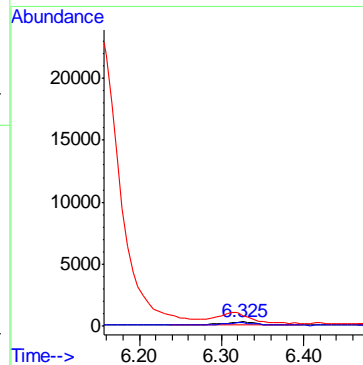
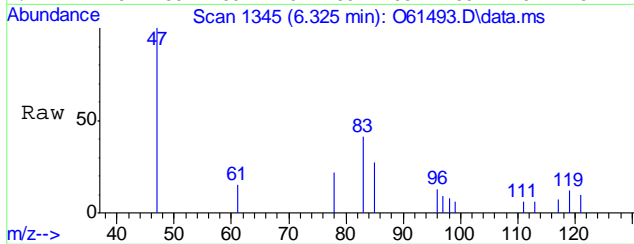
#6  
 trans-1,2-Dichloroethene  
 Concen: 0.06 ug/L  
 RT: 4.948 min Scan# 1025  
 Delta R.T. 0.083 min  
 Lab File: O61493.D  
 Acq: 25 Sep 2020 6:01 pm

Tgt Ion	Resp	Lower	Upper
61	1581		
61	100		
96	0.0	25.7	85.7#
98	0.9	5.3	65.3#



#9  
 Chloroform  
 Concen: 0.03 ug/L  
 RT: 6.325 min Scan# 1345  
 Delta R.T. -0.000 min  
 Lab File: O61493.D  
 Acq: 25 Sep 2020 6:01 pm

Tgt Ion	Resp	Lower	Upper
83	836		
83	100		
85	58.5	34.2	94.2
47	215.0	10.4	70.4#



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\OCTOBER 2020\10-02-2020\VO2368\  
 Data File : O61522.d  
 Acq On : 1 Oct 2020 3:55 pm  
 Operator : akarig  
 Sample : fa79149-7 Inst : MSVOA12  
 Misc : MS47304,VO2368,,,,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Results File: SIMCL091820.RES  
 Quant Time: Oct 02 05:12:02 2020  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.344	96	204965	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.442	117	206133	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	101796	6.06	ug/L	0.00
Spiked Amount	5.000	Range	74 - 125	Recovery	=	121.20%
19) Toluene-d8	8.896	98	169663	3.97	ug/L	0.00
Spiked Amount	5.000	Range	88 - 111	Recovery	=	79.40%#
Target Compounds						
5) Methylene Chloride	4.703	49	9815	0.22	ug/L	Qvalue 95
-----						

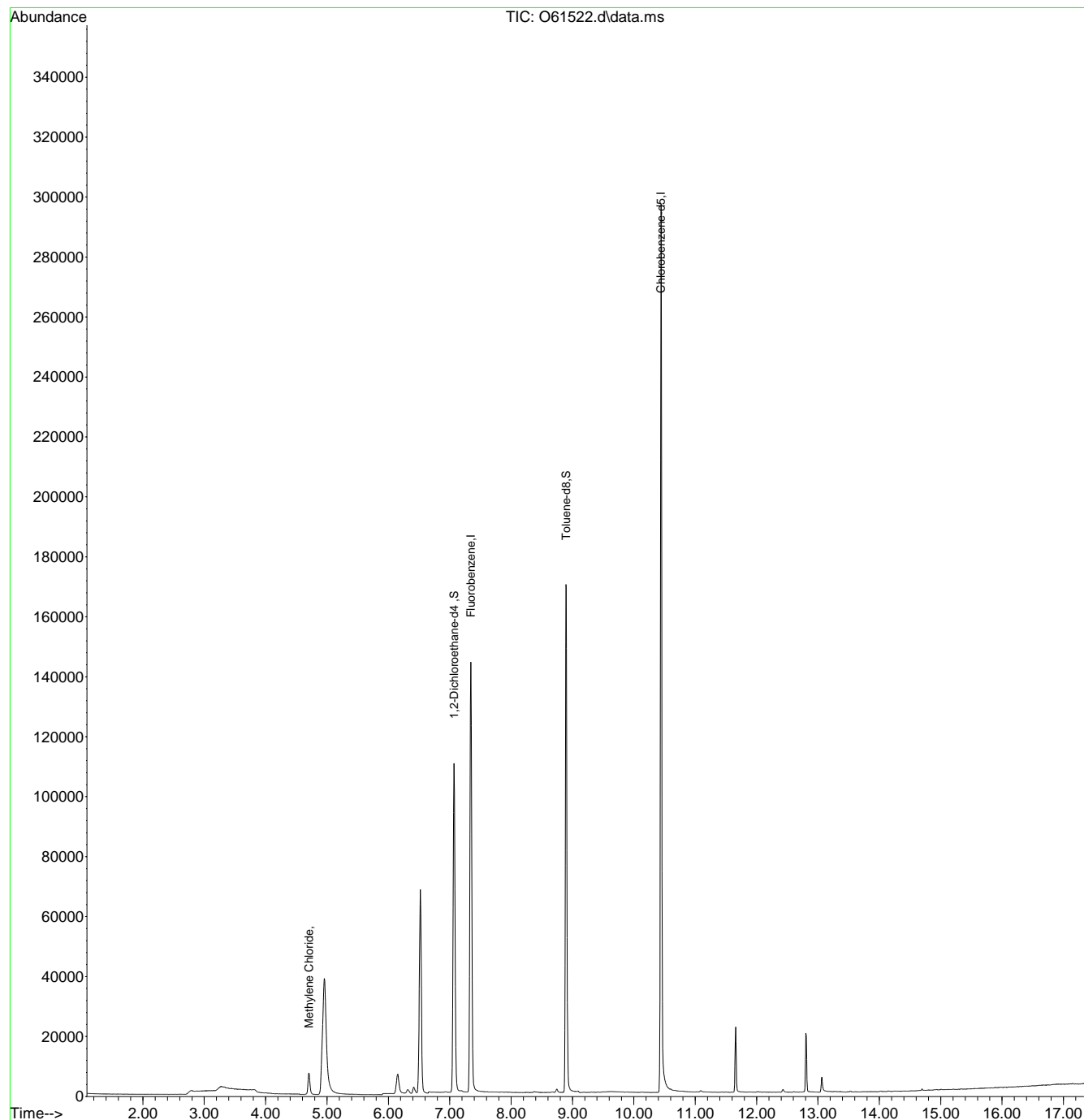
(#) = qualifier out of range (m) = manual integration (+) = signals summed

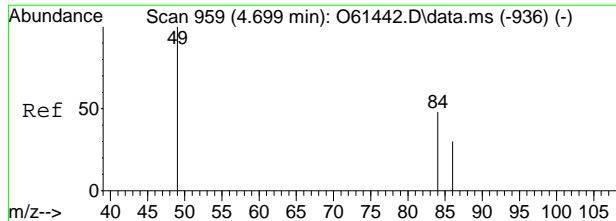


## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\OCTOBER 2020\10-02-2020\VO2368\  
Data File : O61522.d  
Acq On : 1 Oct 2020 3:55 pm  
Operator : akarig  
Sample : fa79149-7 Inst : MSVOA12  
Misc : MS47304,VO2368,,,,,  
ALS Vial : 16 Sample Multiplier: 1

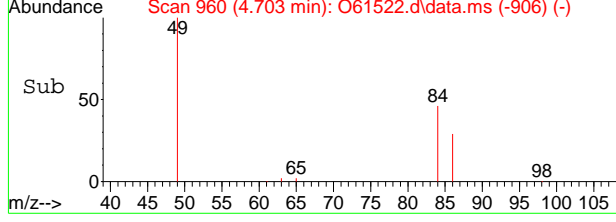
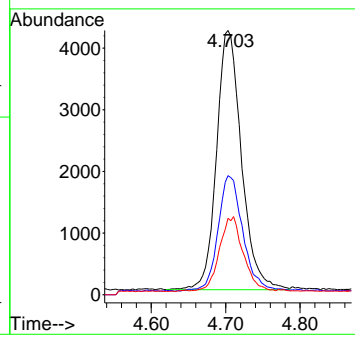
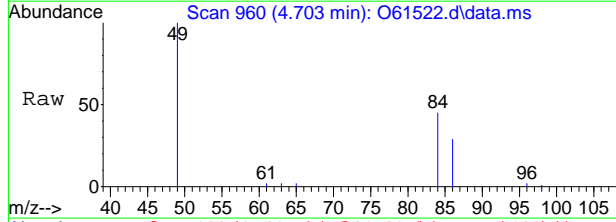
Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
Quant Results File: SIMCL091820.RES  
Quant Time: Oct 02 05:12:02 2020  
Quant Title : Standard Methods 6200B  
QLast Update : Mon Sep 21 11:01:30 2020  
Response via : Initial Calibration





#5  
 Methylene Chloride  
 Concen: 0.22 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.004 min  
 Lab File: O61522.d  
 Acq: 1 Oct 2020 3:55 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	44.3	17.8	77.8
86	28.2	0.3	60.3



7.1.10  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62683.d  
Acq On : 2 Oct 2020 8:26 pm  
Operator : AKARIG  
Sample : fa79149-8  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 06 05:31:30 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Fluorobenzene	7.401	96	1626293	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1594404	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	555481	5.35	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	107.00%
19) Toluene-d8	8.961	98	1669465	4.90	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
Target Compounds						
5) Methylene Chloride	4.713	84	68129	0.30	ppb	Qvalue 100

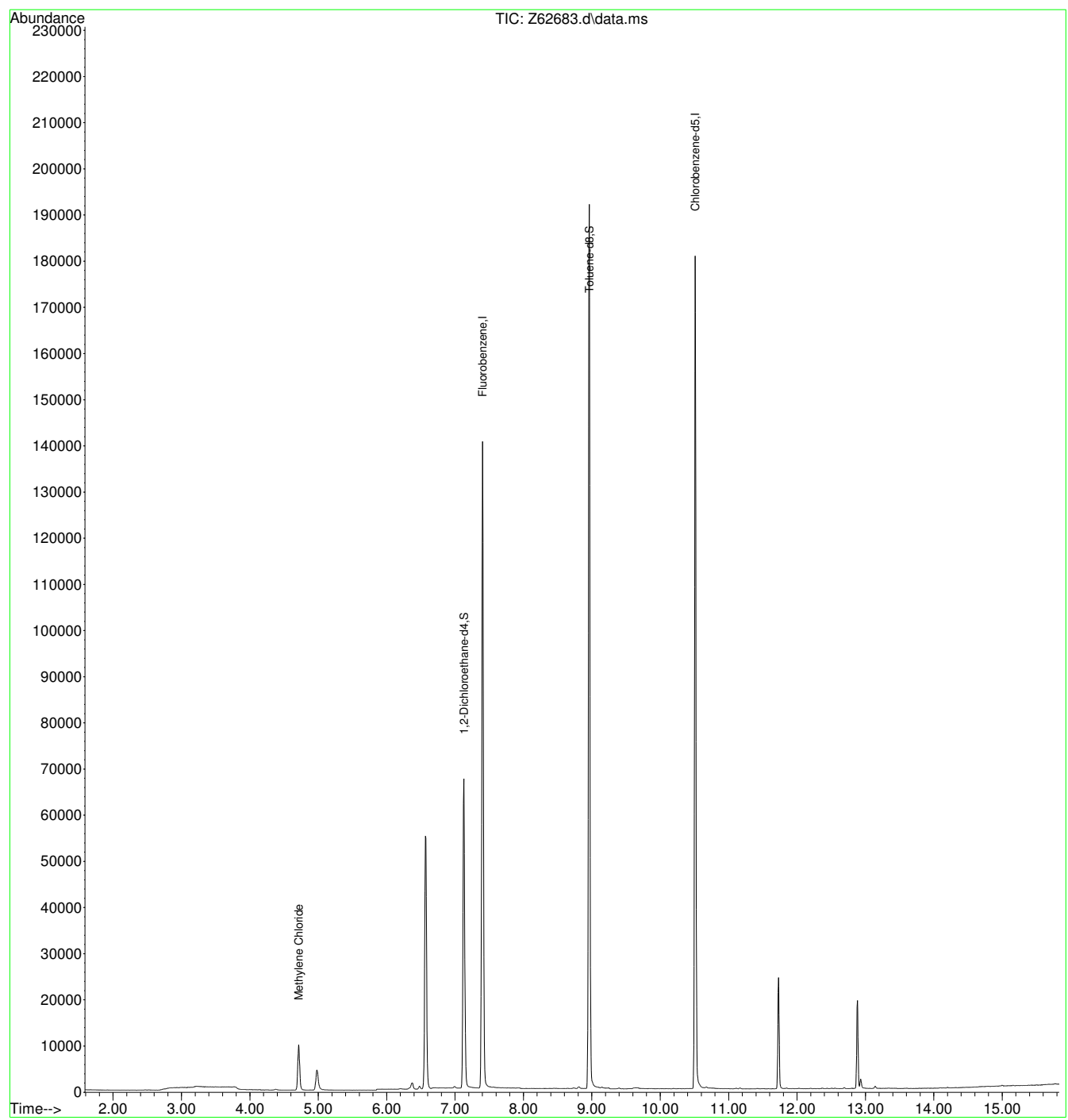
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.11  
7

Quantitation Report (QT Reviewed)

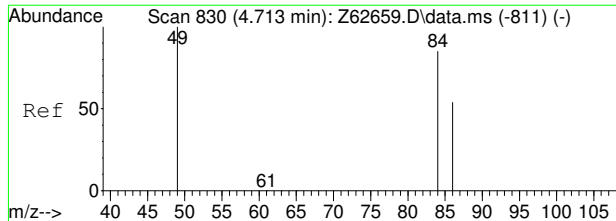
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62683.d  
Acq On : 2 Oct 2020 8:26 pm  
Operator : AKARIG  
Sample : fa79149-8  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 06 05:31:30 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



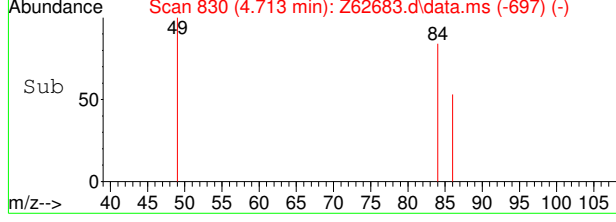
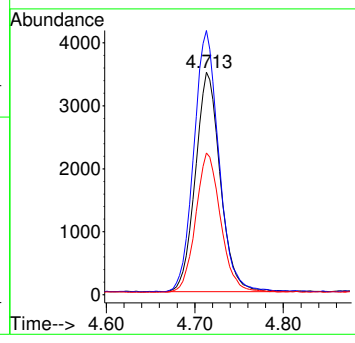
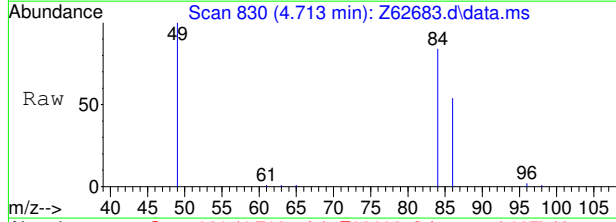
7.1.11  
7





#5  
 Methylene Chloride  
 Concen: 0.30 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62683.d  
 Acq: 2 Oct 2020 8:26 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.9	98.2	138.2
86	63.5	43.5	83.5



7.1.11  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62684.d  
 Acq On : 2 Oct 2020 8:45 pm  
 Operator : AKARIG  
 Sample : fa79149-9  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 06 05:31:33 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1656214	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1636881	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	573109	5.42	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	108.40%	
19) Toluene-d8	8.961	98	1700487	4.86	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%	
Target Compounds							
							Qvalue
3) Chloromethane	2.722	50	18773	0.10	ppb		95
5) Methylene Chloride	4.713	84	78412	0.34	ppb		98
9) Chloroform	6.371	83	52748	0.17	ppb		100
10) Carbon Tetrachloride	6.543	117	79439	0.44	ppb		98
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

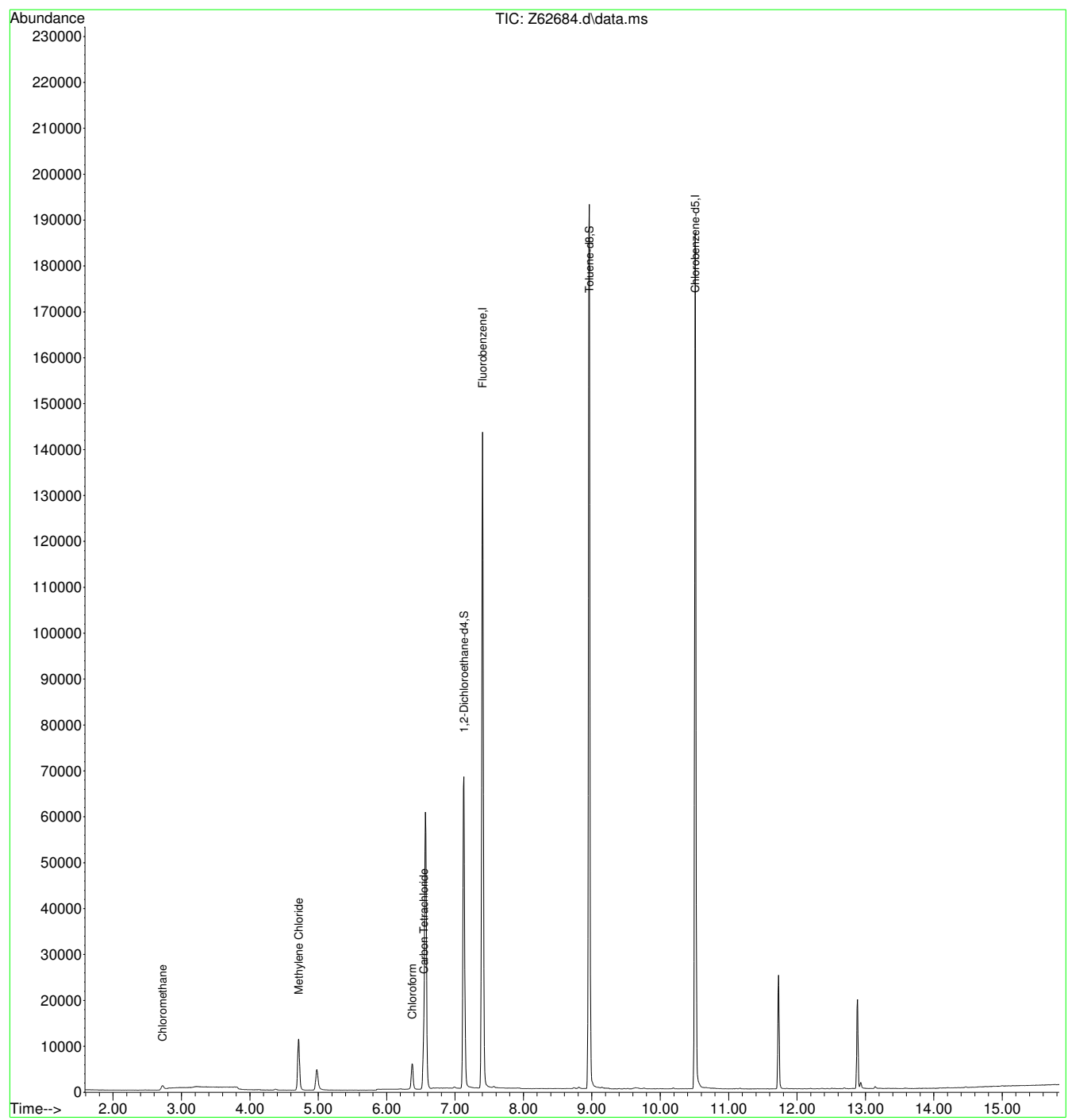
7.1.12  
7



Quantitation Report (QT Reviewed)

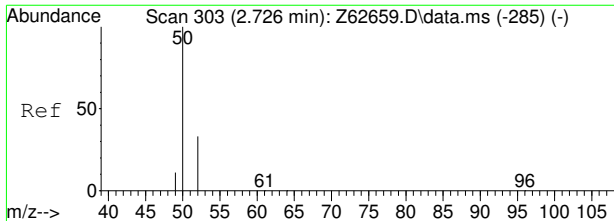
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62684.d  
Acq On : 2 Oct 2020 8:45 pm  
Operator : AKARIG  
Sample : fa79149-9  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 06 05:31:33 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



7.1.12  
7

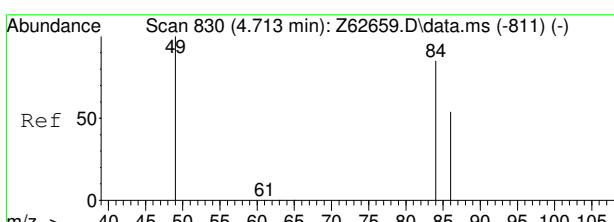
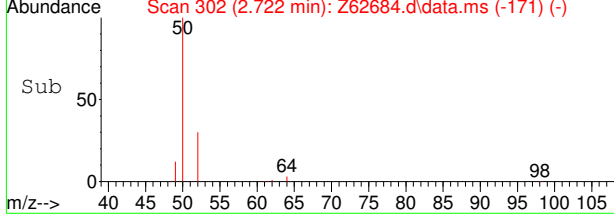
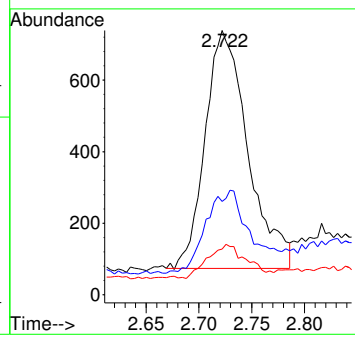
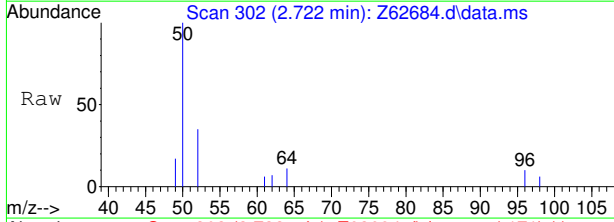




#3  
 Chloromethane  
 Concen: 0.10 ppb  
 RT: 2.722 min Scan# 302  
 Delta R.T. -0.004 min  
 Lab File: Z62684.d  
 Acq: 2 Oct 2020 8:45 pm

Tgt Ion: 50 Resp: 18773

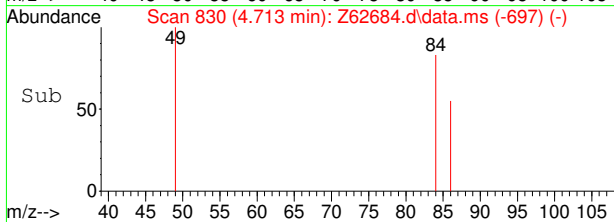
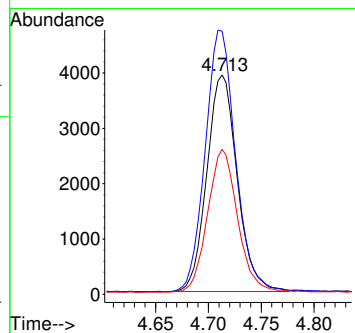
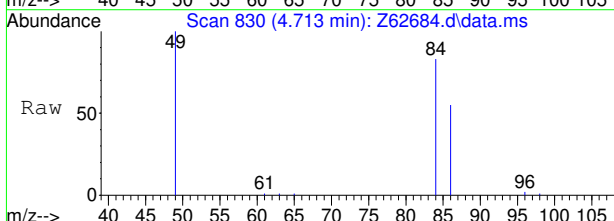
Ion	Ratio	Lower	Upper
50	100		
52	30.1	12.9	52.9
49	12.0	0.0	30.7



#5  
 Methylene Chloride  
 Concen: 0.34 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62684.d  
 Acq: 2 Oct 2020 8:45 pm

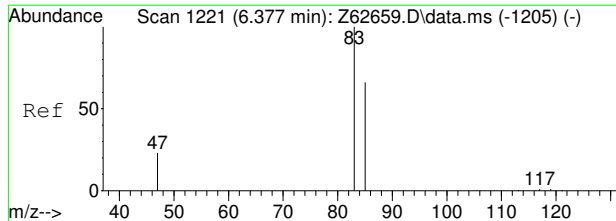
Tgt Ion: 84 Resp: 78412

Ion	Ratio	Lower	Upper
84	100		
49	120.1	98.2	138.2
86	65.9	43.5	83.5



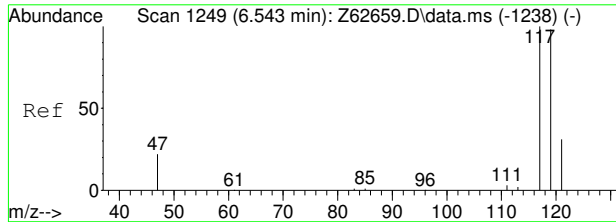
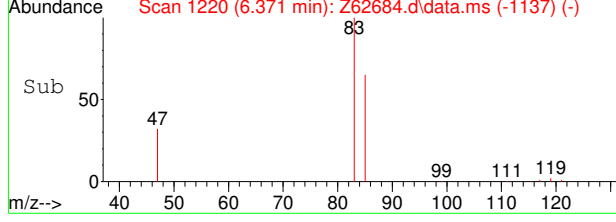
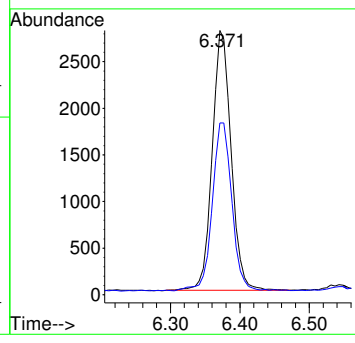
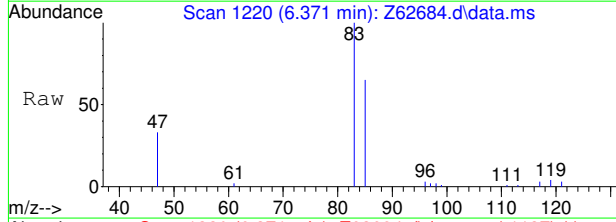
7.1.12  
7





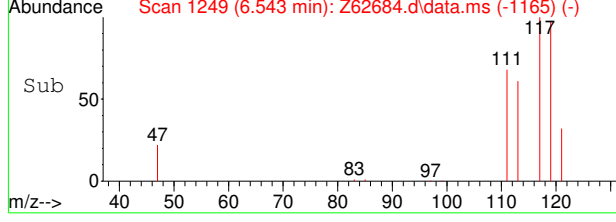
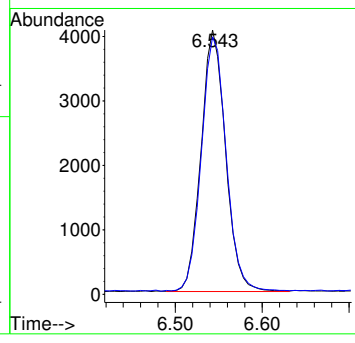
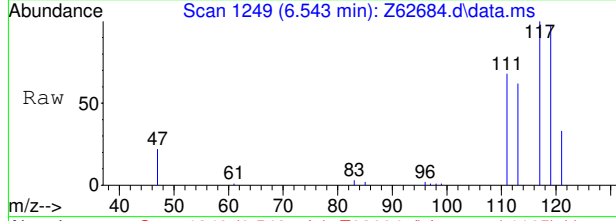
#9  
 Chloroform  
 Concen: 0.17 ppb  
 RT: 6.371 min Scan# 1220  
 Delta R.T. -0.006 min  
 Lab File: Z62684.d  
 Acq: 2 Oct 2020 8:45 pm

Tgt Ion	Resp	Lower	Upper
83	52748	100	
85	66.7	46.5	86.5



#10  
 Carbon Tetrachloride  
 Concen: 0.44 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62684.d  
 Acq: 2 Oct 2020 8:45 pm

Tgt Ion	Resp	Lower	Upper
117	79439	100	
119	98.8	77.2	117.2



7.1.12  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62685.d  
Acq On : 2 Oct 2020 9:04 pm  
Operator : AKARIG  
Sample : fa79149-10  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 06 05:31:37 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Fluorobenzene	7.401	96	1642815	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1612799	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	564164	5.38	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	107.60%	
19) Toluene-d8	8.961	98	1667060	4.83	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%	
Target Compounds							
3) Chloromethane	2.729	50	34160	0.19	ppb	98	
5) Methylene Chloride	4.717	84	71391	0.31	ppb	99	
9) Chloroform	6.377	83	116873	0.38	ppb	97	
10) Carbon Tetrachloride	6.543	117	266842	1.48	ppb	98	

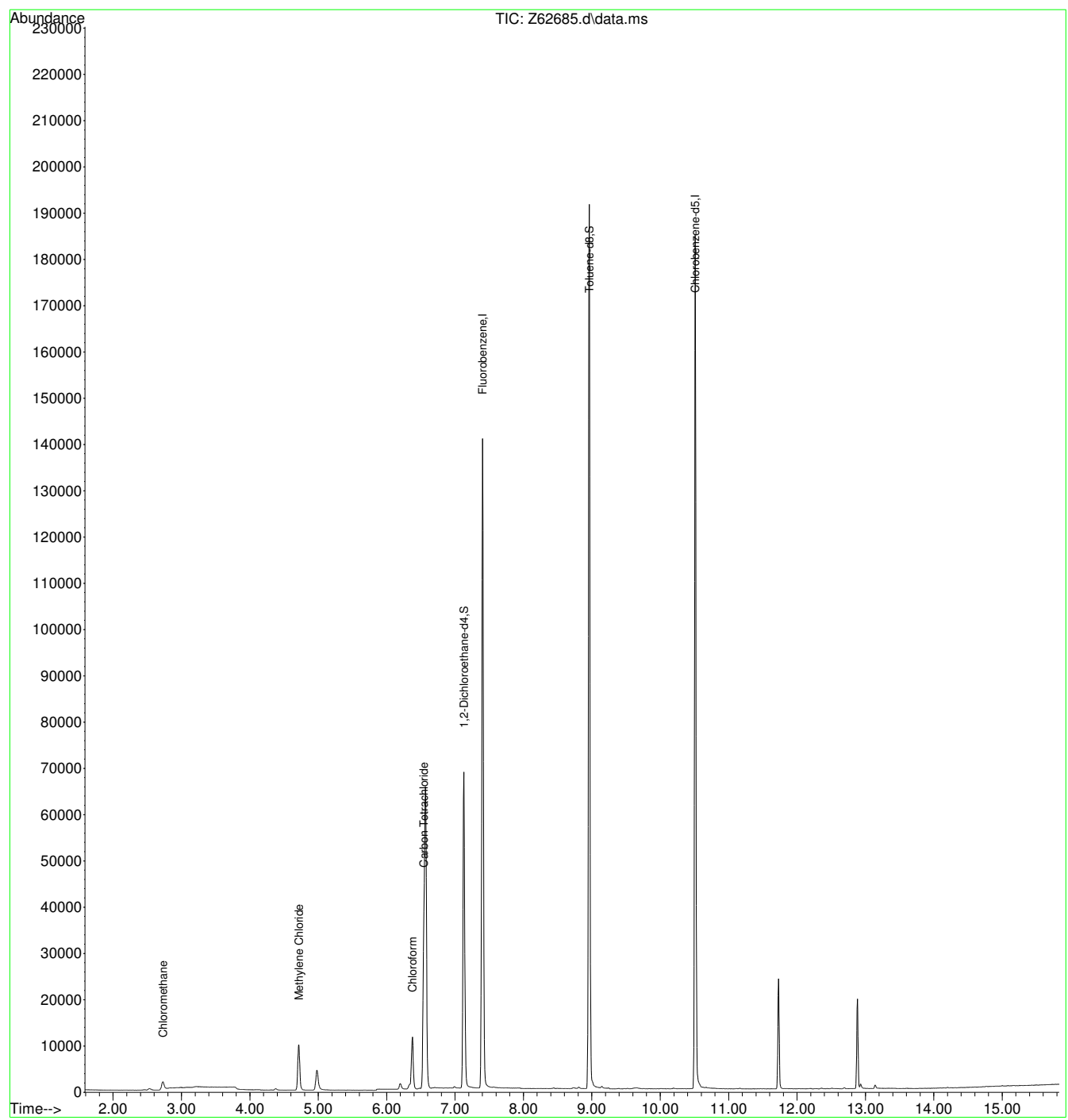
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.13  
7

Quantitation Report (QT Reviewed)

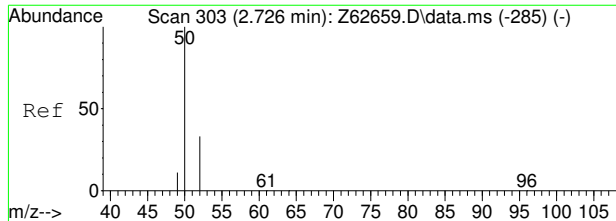
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62685.d  
Acq On : 2 Oct 2020 9:04 pm  
Operator : AKARIG  
Sample : fa79149-10  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 06 05:31:37 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



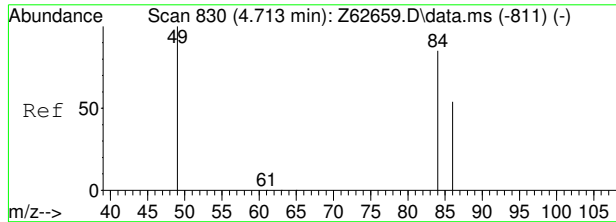
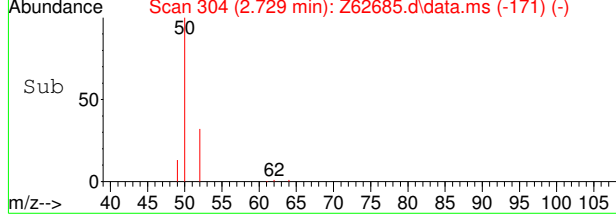
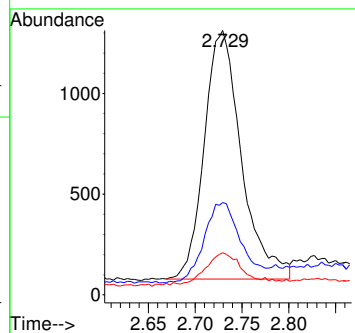
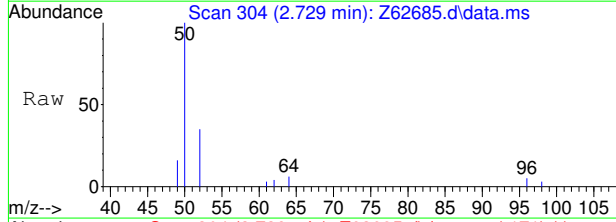
7.1.13  
7





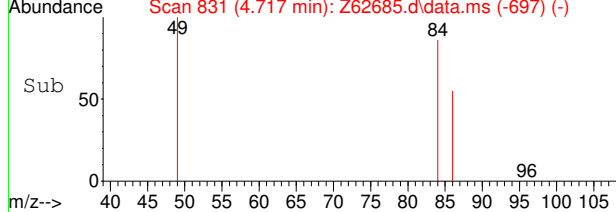
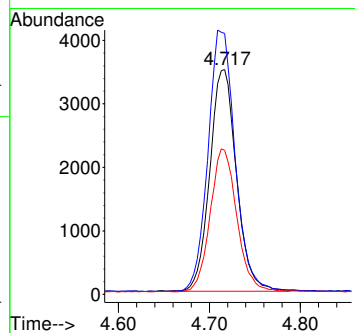
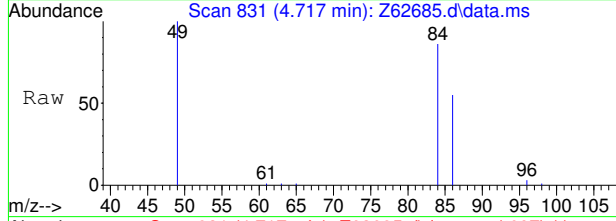
#3  
 Chloromethane  
 Concen: 0.19 ppb  
 RT: 2.729 min Scan# 304  
 Delta R.T. 0.003 min  
 Lab File: Z62685.d  
 Acq: 2 Oct 2020 9:04 pm

Tgt Ion	Resp	Lower	Upper
50	34160		
52	32.2	12.9	52.9
49	12.3	0.0	30.7

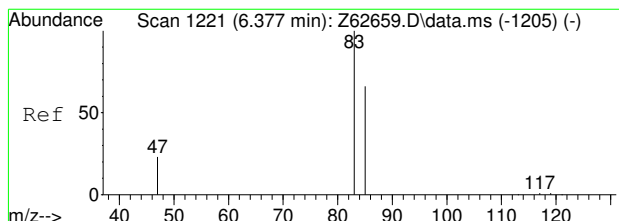


#5  
 Methylene Chloride  
 Concen: 0.31 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62685.d  
 Acq: 2 Oct 2020 9:04 pm

Tgt Ion	Resp	Lower	Upper
84	71391		
84	100		
49	116.4	98.2	138.2
86	63.8	43.5	83.5

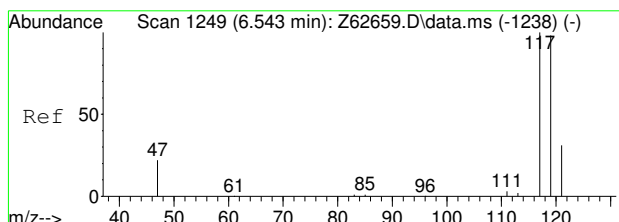
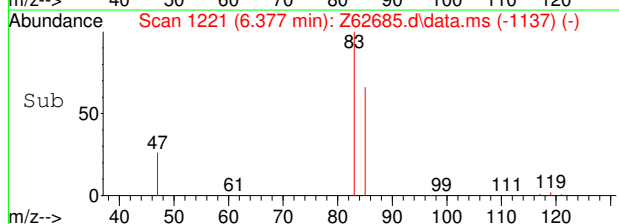
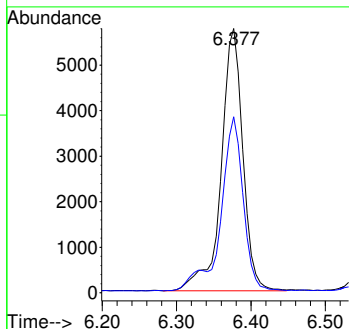
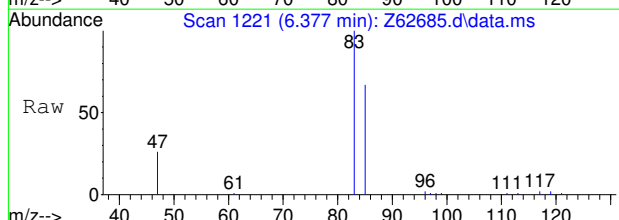


7.1.13  
7



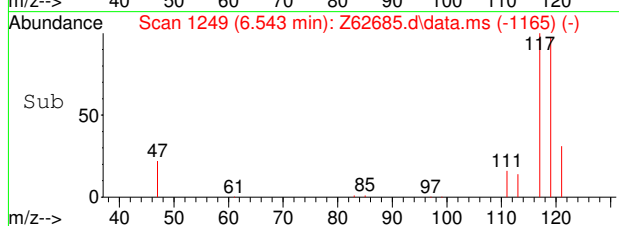
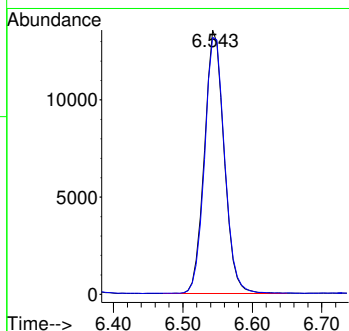
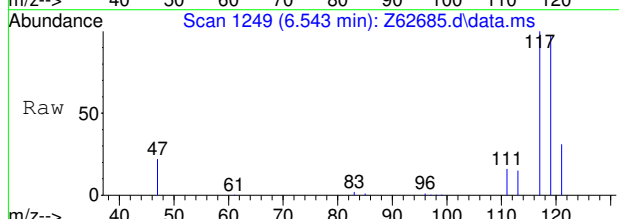
#9  
 Chloroform  
 Concen: 0.38 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62685.d  
 Acq: 2 Oct 2020 9:04 pm

Tgt Ion	Resp	Lower	Upper
83	116873		
83	100		
85	68.5	46.5	86.5



#10  
 Carbon Tetrachloride  
 Concen: 1.48 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62685.d  
 Acq: 2 Oct 2020 9:04 pm

Tgt Ion	Resp	Lower	Upper
117	266842		
117	100		
119	98.8	77.2	117.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62686.d  
 Acq On : 2 Oct 2020 9:23 pm  
 Operator : AKARIG  
 Sample : fa79149-11  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 06 05:31:40 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1591850	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1560193	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	553992	5.45	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	109.00%	
19) Toluene-d8	8.961	98	1615956	4.84	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%	
Target Compounds							
							Qvalue
3) Chloromethane	2.726	50	31968	0.18	ppb		98
5) Methylene Chloride	4.717	84	70930	0.32	ppb		98
9) Chloroform	6.377	83	76826	0.26	ppb		100
10) Carbon Tetrachloride	6.543	117	244184	1.40	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

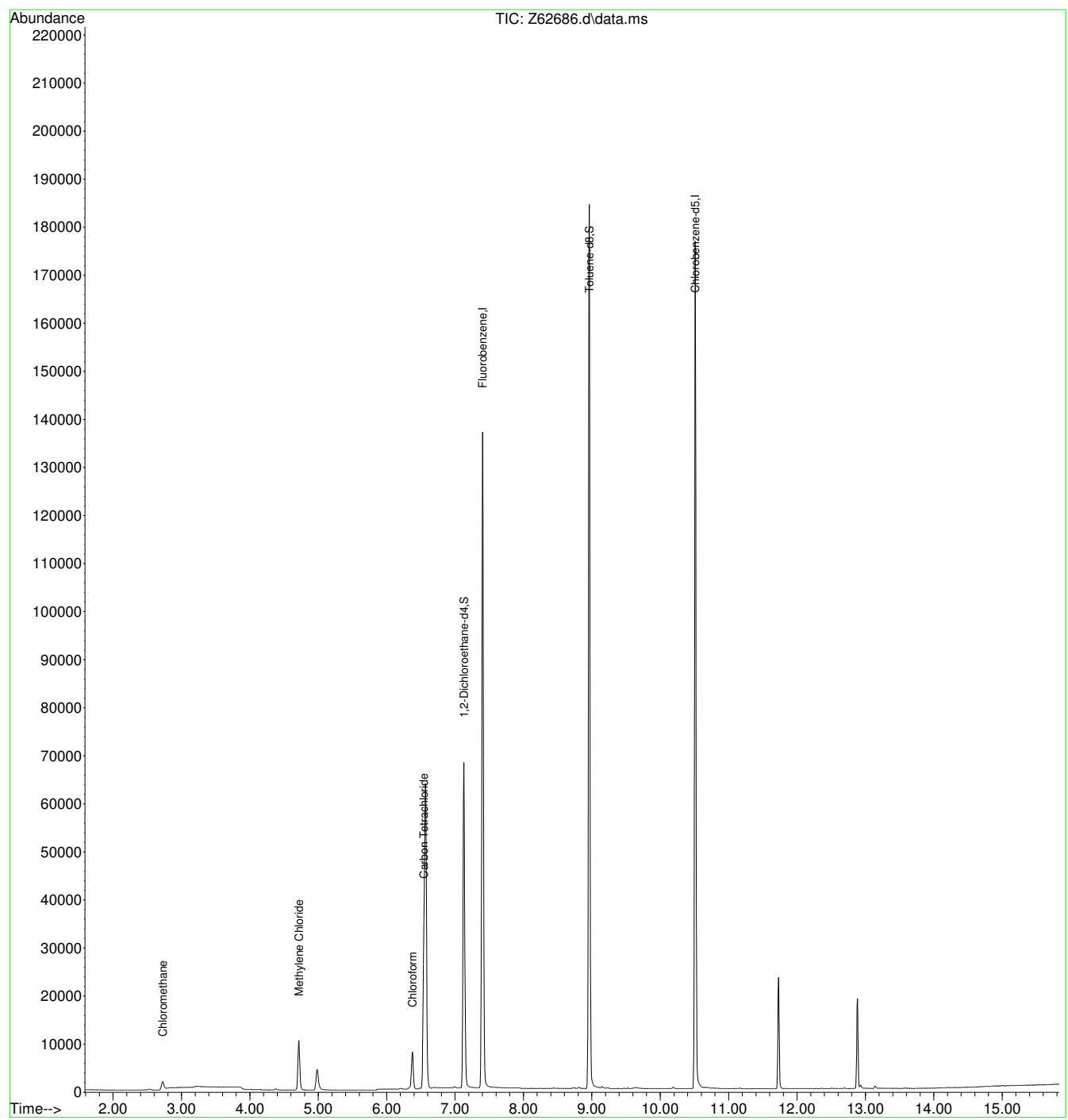
7.1.14  
7



Quantitation Report (QT Reviewed)

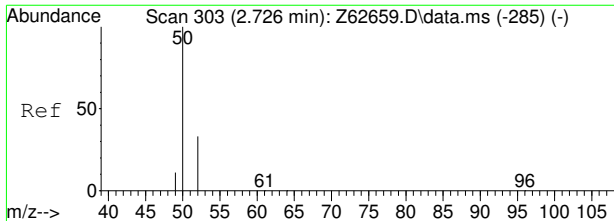
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62686.d  
Acq On : 2 Oct 2020 9:23 pm  
Operator : AKARIG  
Sample : fa79149-11  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 06 05:31:40 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



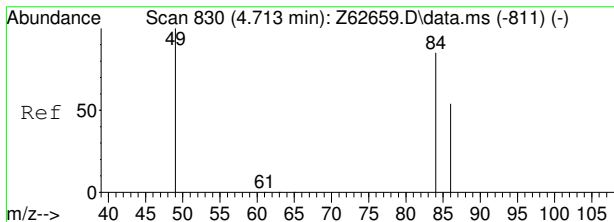
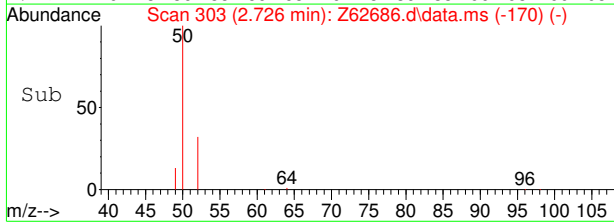
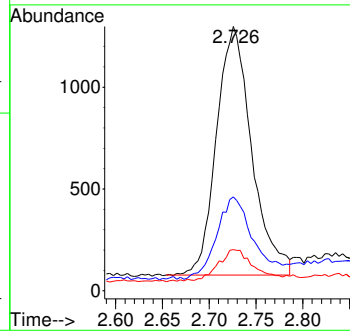
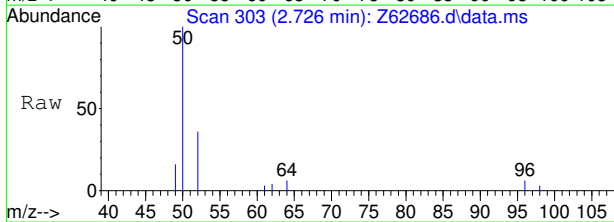
7.1.14  
7





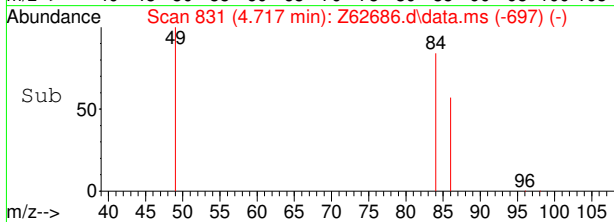
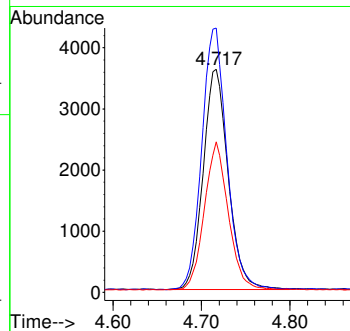
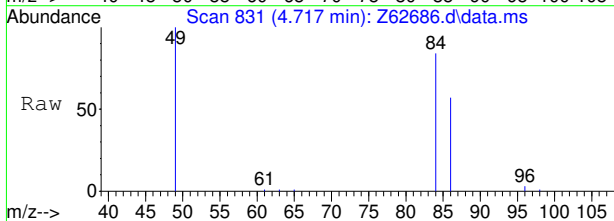
#3  
 Chloromethane  
 Concen: 0.18 ppb  
 RT: 2.726 min Scan# 303  
 Delta R.T. -0.000 min  
 Lab File: Z62686.d  
 Acq: 2 Oct 2020 9:23 pm

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.1	12.9	52.9
49	13.0	0.0	30.7



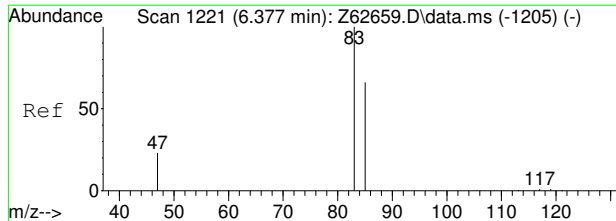
#5  
 Methylene Chloride  
 Concen: 0.32 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62686.d  
 Acq: 2 Oct 2020 9:23 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.8	98.2	138.2
86	67.1	43.5	83.5



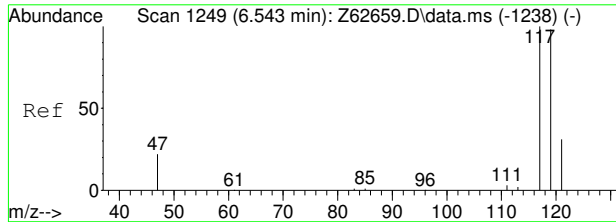
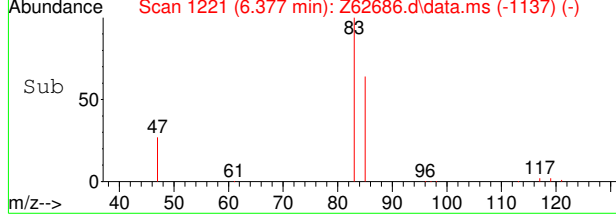
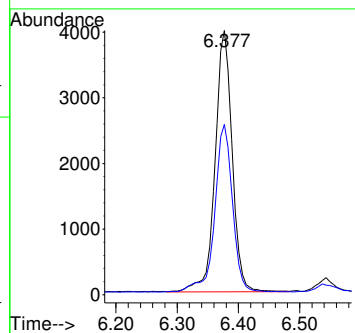
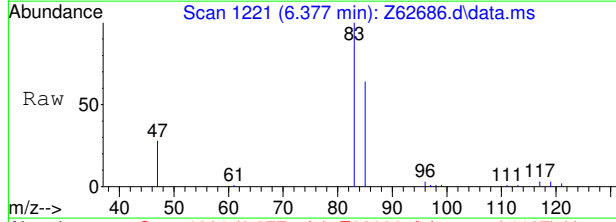
7.1.14  
7





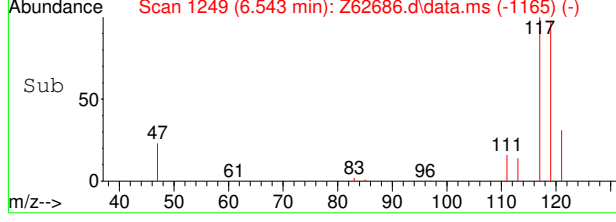
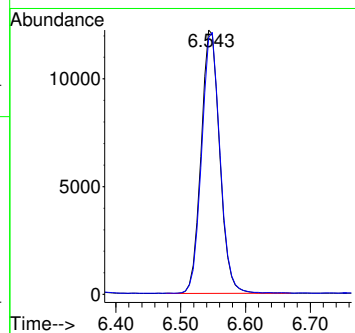
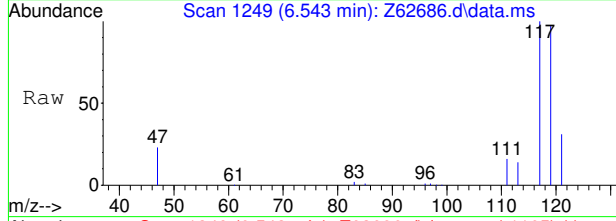
#9  
 Chloroform  
 Concen: 0.26 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62686.d  
 Acq: 2 Oct 2020 9:23 pm

Tgt Ion	Resp	Lower	Upper
83	76826	100	
85	66.5	46.5	86.5



#10  
 Carbon Tetrachloride  
 Concen: 1.40 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62686.d  
 Acq: 2 Oct 2020 9:23 pm

Tgt Ion	Resp	Lower	Upper
117	244184	100	
119	97.2	77.2	117.2



7.1.14  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62687.d  
Acq On : 2 Oct 2020 9:43 pm  
Operator : AKARIG  
Sample : fa79149-12  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 06 05:31:43 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1461572	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1444072	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	516662	5.54	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	110.80%	
19) Toluene-d8	8.961	98	1477070	4.78	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%	
Target Compounds							
3) Chloromethane	2.726	50	18210	0.11	ppb		Qvalue 97
5) Methylene Chloride	4.713	84	70070	0.34	ppb		99
9) Chloroform	6.371	83	54798	0.20	ppb		100
10) Carbon Tetrachloride	6.543	117	123572	0.77	ppb		99
-----							

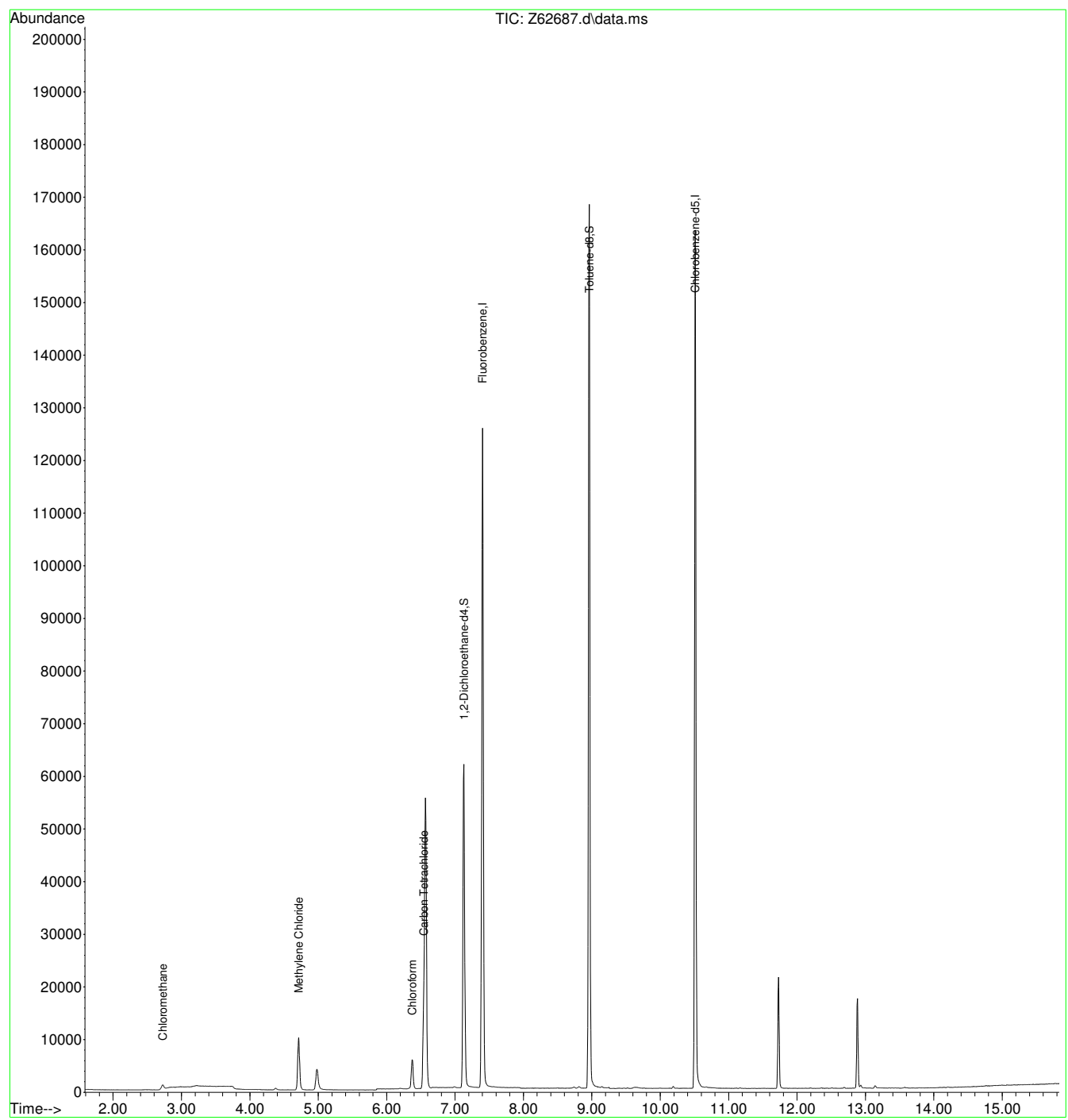
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.15  
7

Quantitation Report (QT Reviewed)

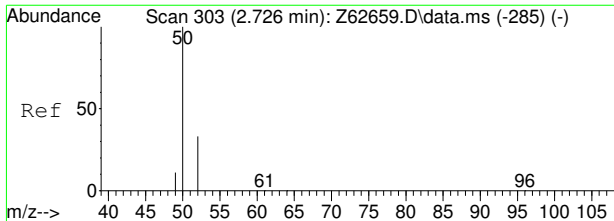
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62687.d  
Acq On : 2 Oct 2020 9:43 pm  
Operator : AKARIG  
Sample : fa79149-12  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 06 05:31:43 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



7.1.15  
7



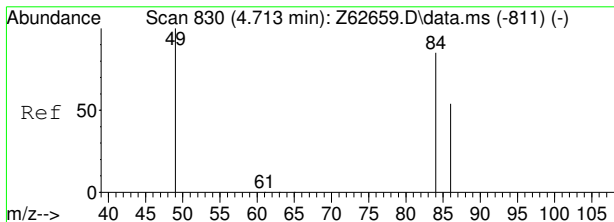
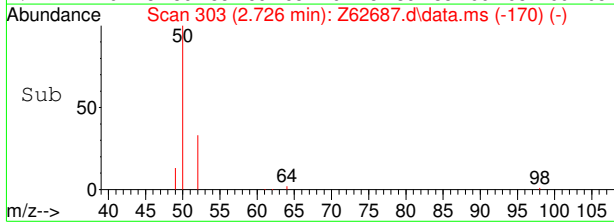
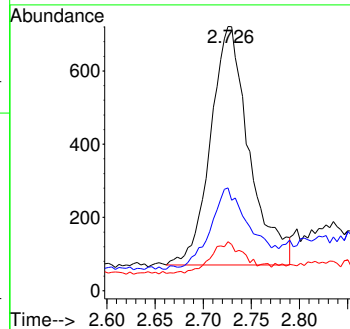
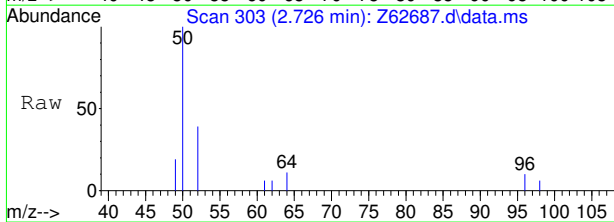


#3  
 Chloromethane  
 Concen: 0.11 ppb  
 RT: 2.726 min Scan# 303  
 Delta R.T. -0.000 min  
 Lab File: Z62687.d  
 Acq: 2 Oct 2020 9:43 pm

Tgt Ion	Resp
50	18210

Ion	Ratio	Lower	Upper
50	100		
52	34.0	12.9	52.9
49	13.3	0.0	30.7

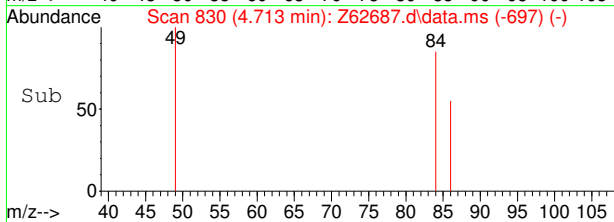
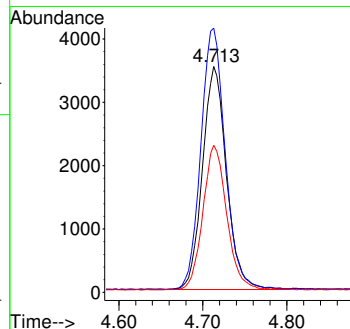
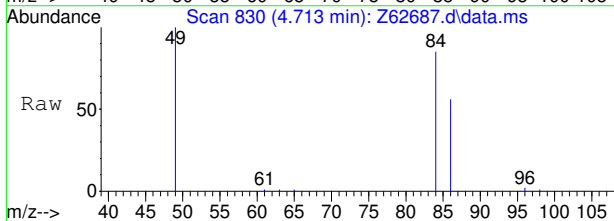


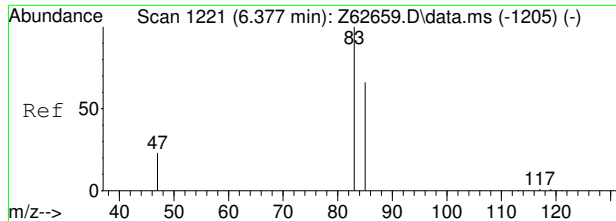
#5  
 Methylene Chloride  
 Concen: 0.34 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62687.d  
 Acq: 2 Oct 2020 9:43 pm

Tgt Ion	Resp
84	70070

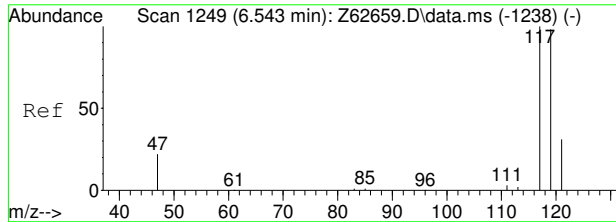
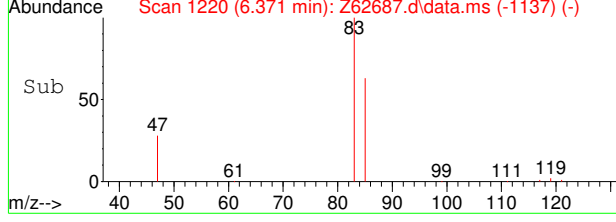
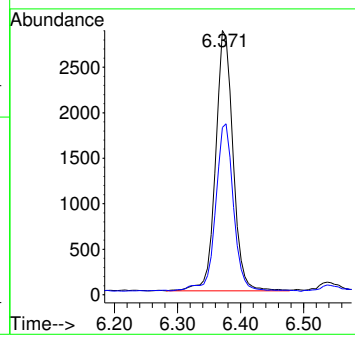
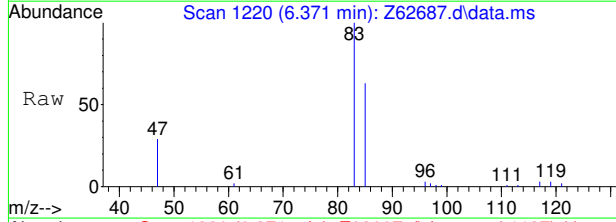
Ion	Ratio	Lower	Upper
84	100		
49	117.1	98.2	138.2
86	64.7	43.5	83.5





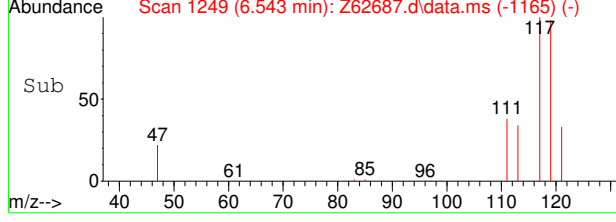
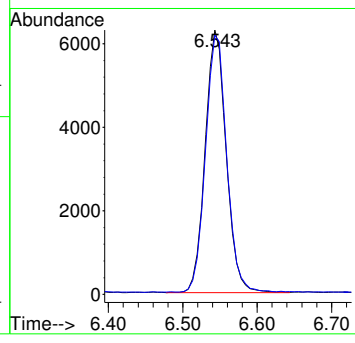
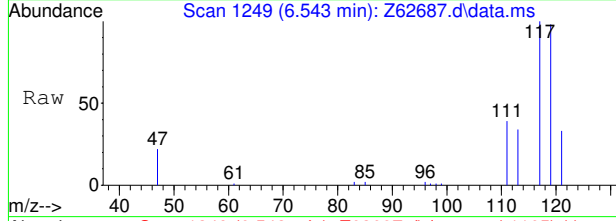
#9  
 Chloroform  
 Concen: 0.20 ppb  
 RT: 6.371 min Scan# 1220  
 Delta R.T. -0.006 min  
 Lab File: Z62687.d  
 Acq: 2 Oct 2020 9:43 pm

Tgt Ion	Resp	Lower	Upper
83	54798	100	
85	66.8	46.5	86.5



#10  
 Carbon Tetrachloride  
 Concen: 0.77 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62687.d  
 Acq: 2 Oct 2020 9:43 pm

Tgt Ion	Resp	Lower	Upper
117	123572	100	
119	98.6	77.2	117.2



7.1.15  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62688.d  
 Acq On : 2 Oct 2020 10:02 pm  
 Operator : AKARIG  
 Sample : fa79149-13  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 06 05:31:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Fluorobenzene	7.401	96	1547419	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1530593	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	542377	5.49	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	109.80%	
19) Toluene-d8	8.961	98	1567383	4.79	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%	
Target Compounds							
5) Methylene Chloride	4.717	84	63636	0.29	ppb	98	
9) Chloroform	6.377	83	42936	0.15	ppb	98	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

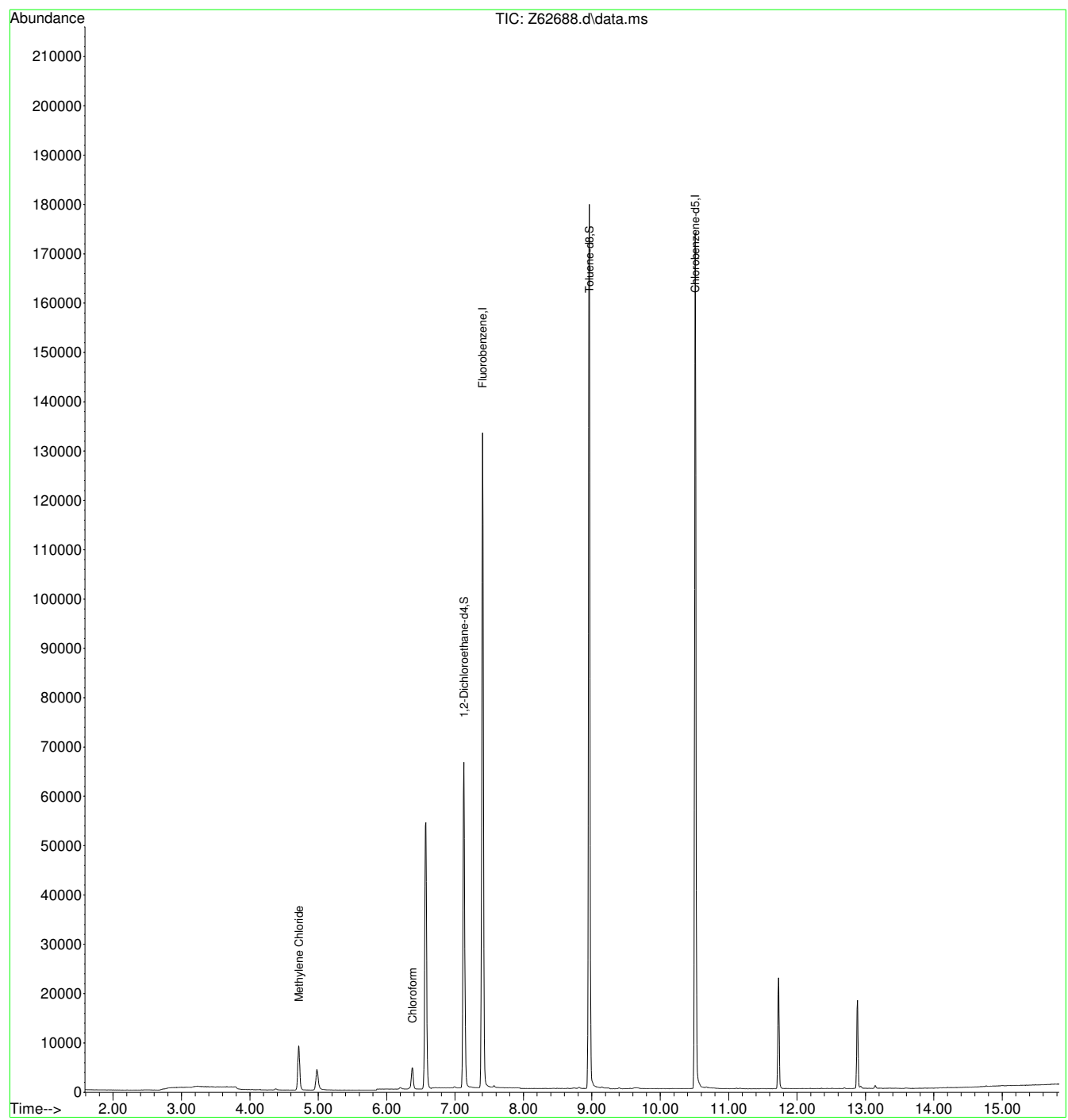
7.1.16  
7



Quantitation Report (QT Reviewed)

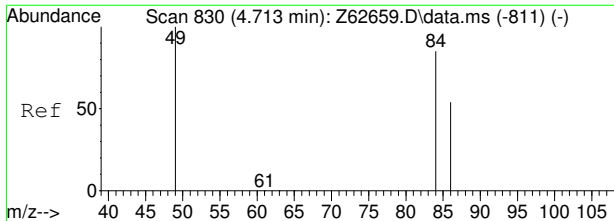
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62688.d  
Acq On : 2 Oct 2020 10:02 pm  
Operator : AKARIG  
Sample : fa79149-13  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 06 05:31:46 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



7.1.16  
7

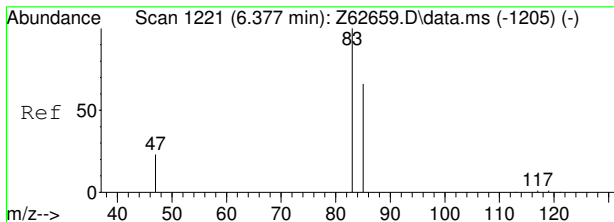
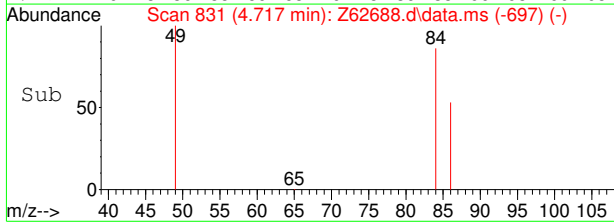
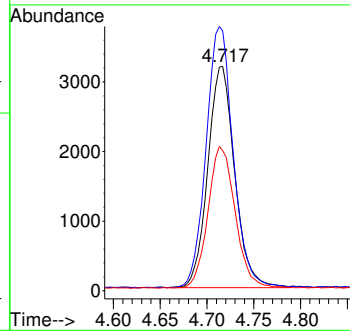
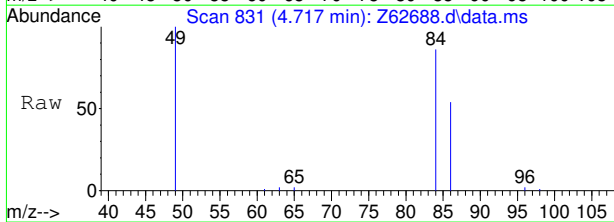




#5  
 Methylene Chloride  
 Concen: 0.29 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62688.d  
 Acq: 2 Oct 2020 10:02 pm

Tgt Ion: 84 Resp: 63636

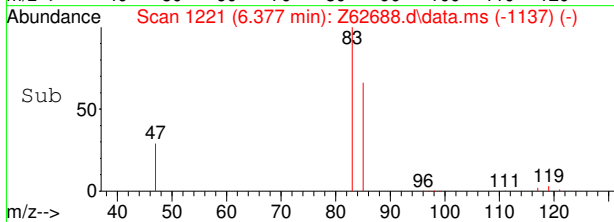
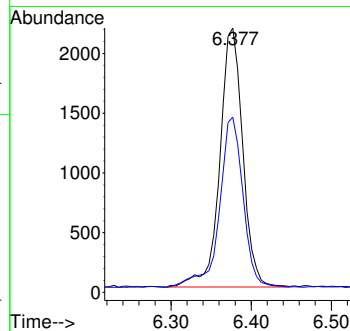
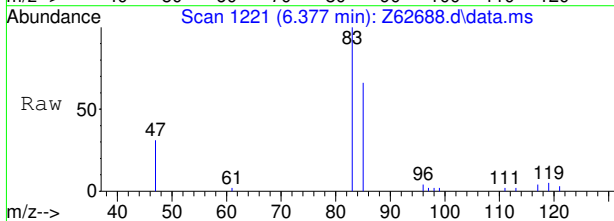
Ion	Ratio	Lower	Upper
84	100		
49	116.0	98.2	138.2
86	61.9	43.5	83.5



#9  
 Chloroform  
 Concen: 0.15 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62688.d  
 Acq: 2 Oct 2020 10:02 pm

Tgt Ion: 83 Resp: 42936

Ion	Ratio	Lower	Upper
83	100		
85	68.0	46.5	86.5



7.1.16  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62689.d  
 Acq On : 2 Oct 2020 10:21 pm  
 Operator : AKARIG  
 Sample : fa79149-14  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 06 05:31:50 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Fluorobenzene	7.401	96	1402340	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1398317	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	496514	5.54	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	110.80%	
19) Toluene-d8	8.961	98	1420063	4.75	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%	
Target Compounds							
5) Methylene Chloride	4.713	84	55710	0.28	ppb	99	
9) Chloroform	6.371	83	19937	0.08	ppb	88	

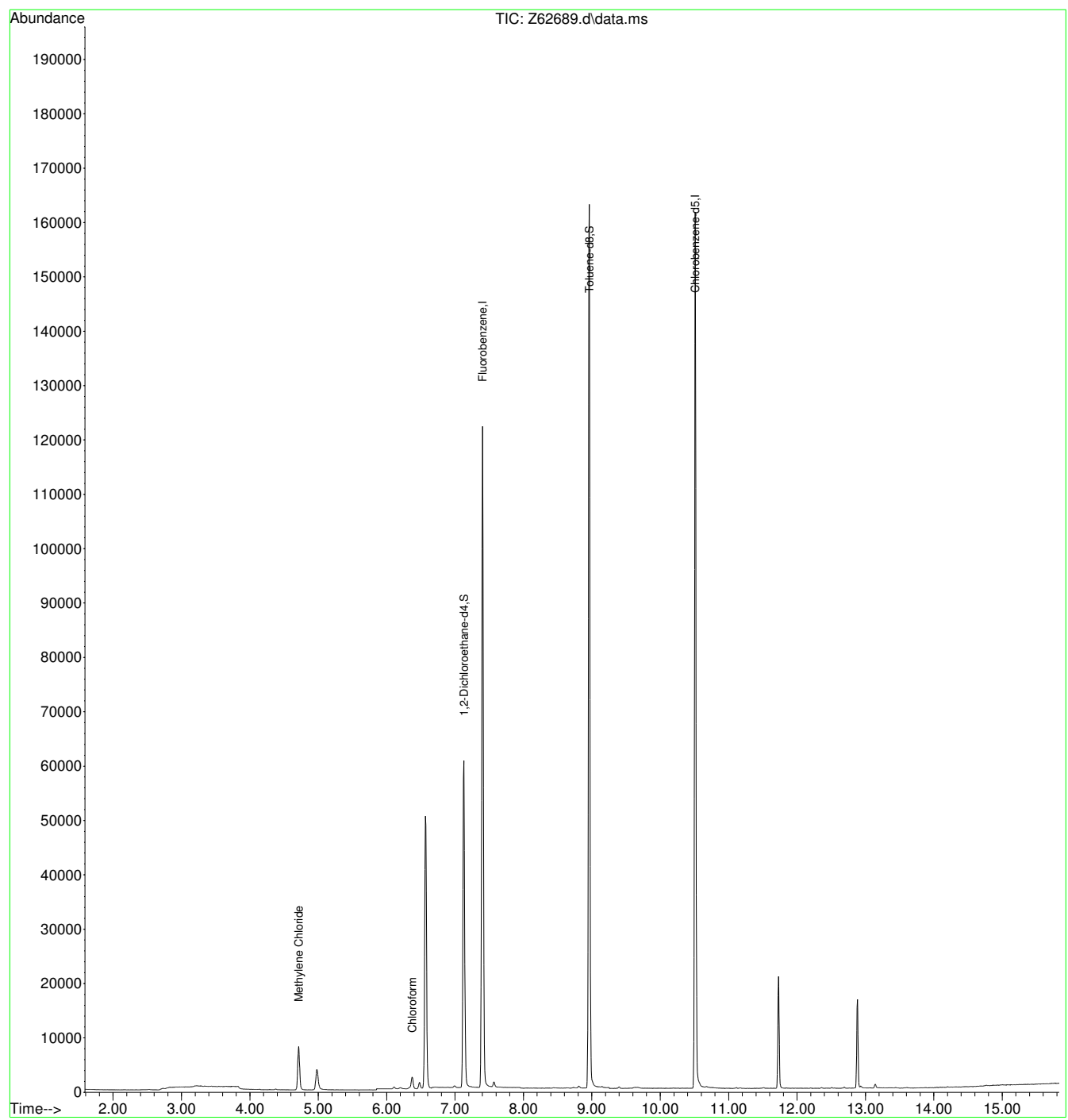
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.17  
7

Quantitation Report (QT Reviewed)

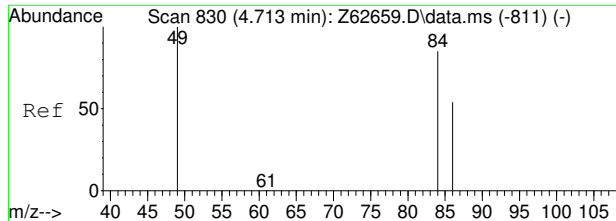
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62689.d  
Acq On : 2 Oct 2020 10:21 pm  
Operator : AKARIG  
Sample : fa79149-14  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 06 05:31:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



7.1.17  
7

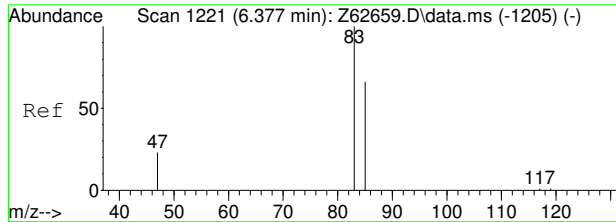
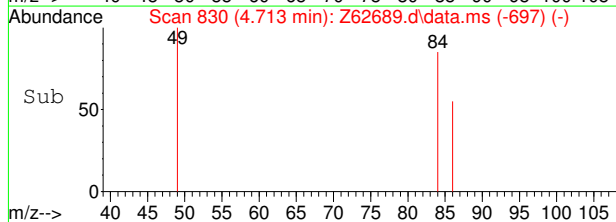
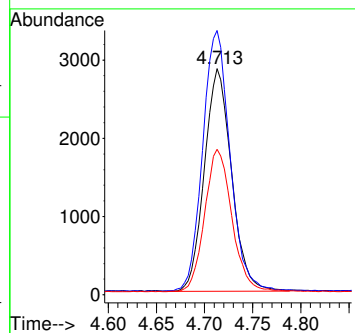
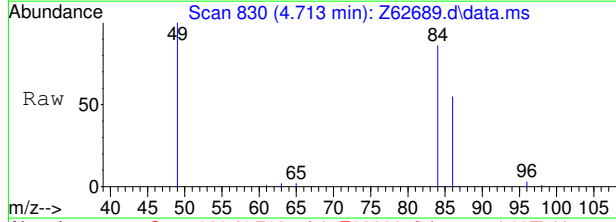




#5  
 Methylene Chloride  
 Concen: 0.28 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62689.d  
 Acq: 2 Oct 2020 10:21 pm

Tgt Ion: 84 Resp: 55710

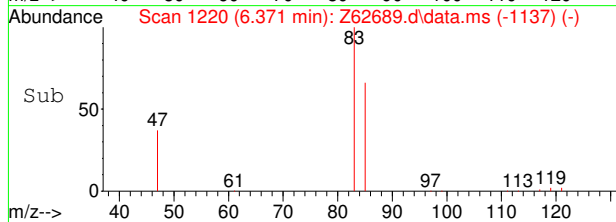
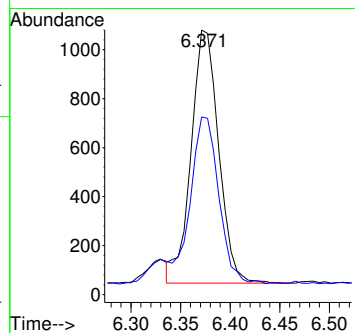
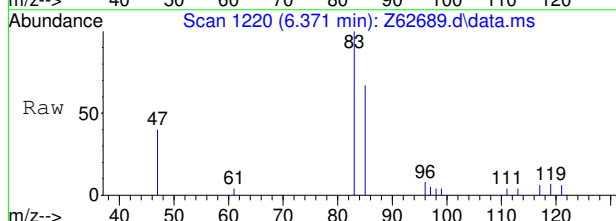
Ion	Ratio	Lower	Upper
84	100		
49	117.0	98.2	138.2
86	64.0	43.5	83.5



#9  
 Chloroform  
 Concen: 0.08 ppb  
 RT: 6.371 min Scan# 1220  
 Delta R.T. -0.006 min  
 Lab File: Z62689.d  
 Acq: 2 Oct 2020 10:21 pm

Tgt Ion: 83 Resp: 19937

Ion	Ratio	Lower	Upper
83	100		
85	76.0	46.5	86.5



7.1.17  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62690.d  
Acq On : 2 Oct 2020 10:41 pm  
Operator : AKARIG  
Sample : fa79149-15  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 06 05:31:54 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Fluorobenzene	7.401	96	1388062	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1381249	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	495991	5.60	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	112.00%	
19) Toluene-d8	8.961	98	1407943	4.77	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%	
Target Compounds							
5) Methylene Chloride	4.713	84	57615	0.29	ppb	97	
9) Chloroform	6.371	83	20712	0.08	ppb	94	

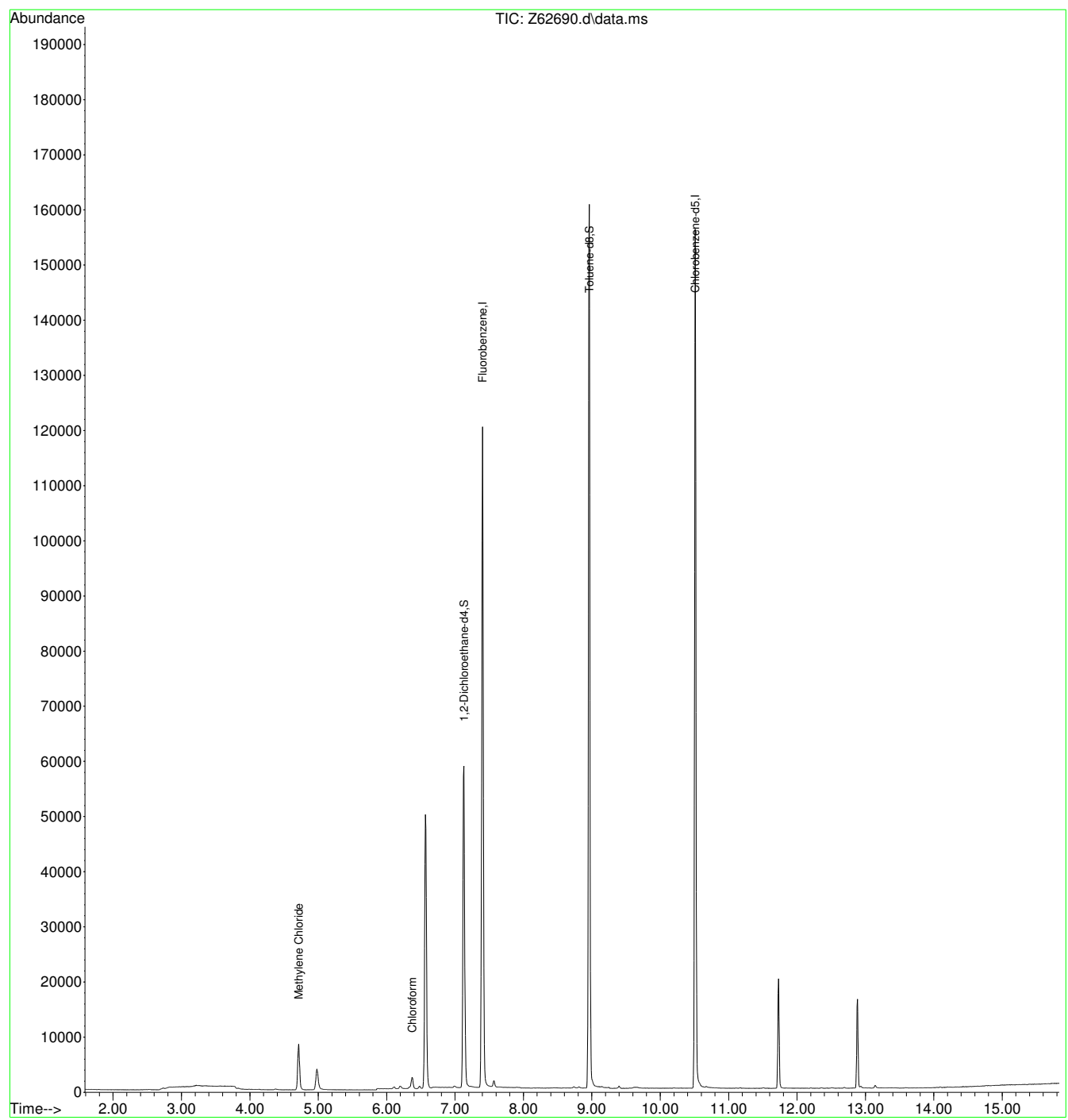
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.18  
7

Quantitation Report (QT Reviewed)

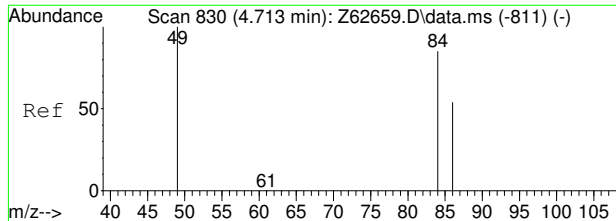
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62690.d  
Acq On : 2 Oct 2020 10:41 pm  
Operator : AKARIG  
Sample : fa79149-15  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 06 05:31:54 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



7.1.18  
7

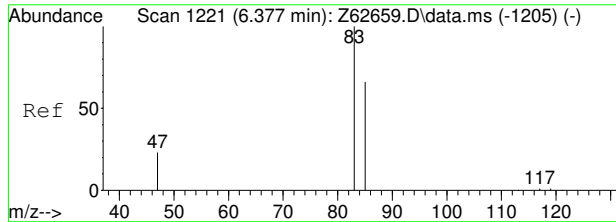
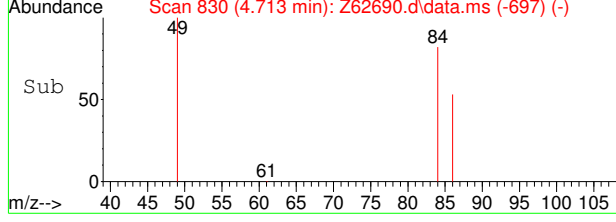
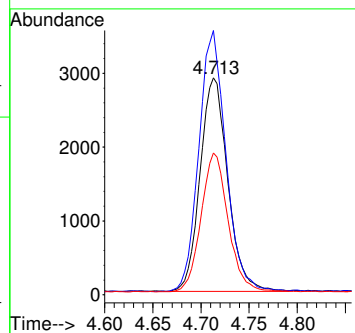
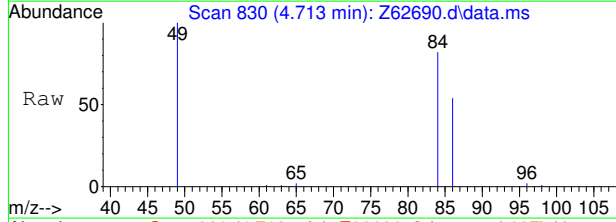




#5  
 Methylene Chloride  
 Concen: 0.29 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62690.d  
 Acq: 2 Oct 2020 10:41 pm

Tgt Ion: 84 Resp: 57615

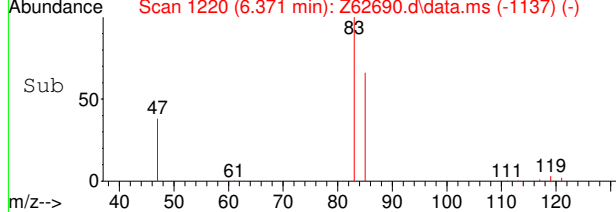
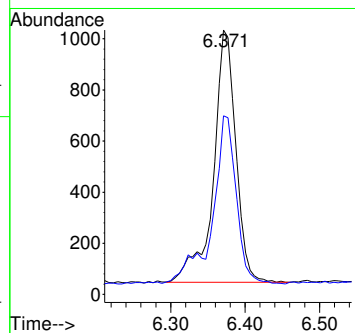
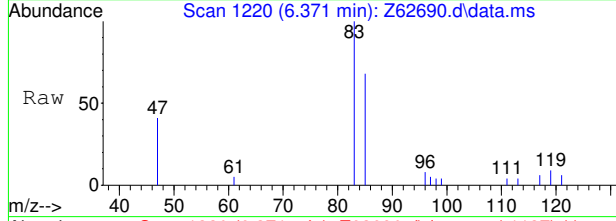
Ion	Ratio	Lower	Upper
84	100		
49	122.3	98.2	138.2
86	64.9	43.5	83.5



#9  
 Chloroform  
 Concen: 0.08 ppb  
 RT: 6.371 min Scan# 1220  
 Delta R.T. -0.006 min  
 Lab File: Z62690.d  
 Acq: 2 Oct 2020 10:41 pm

Tgt Ion: 83 Resp: 20712

Ion	Ratio	Lower	Upper
83	100		
85	71.0	46.5	86.5



7.1.18  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62691.d  
Acq On : 2 Oct 2020 11:00 pm  
Operator : AKARIG  
Sample : fa79149-16  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 06 05:31:57 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
Internal Standards							
1) Fluorobenzene	7.401	96	1339998	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1333928	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	479738	5.61	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	112.20%	
19) Toluene-d8	8.961	98	1354816	4.75	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%	
Target Compounds							
5) Methylene Chloride	4.713	84	60043	0.32	ppb		97
9) Chloroform	6.377	83	775717	3.06	ppb		98

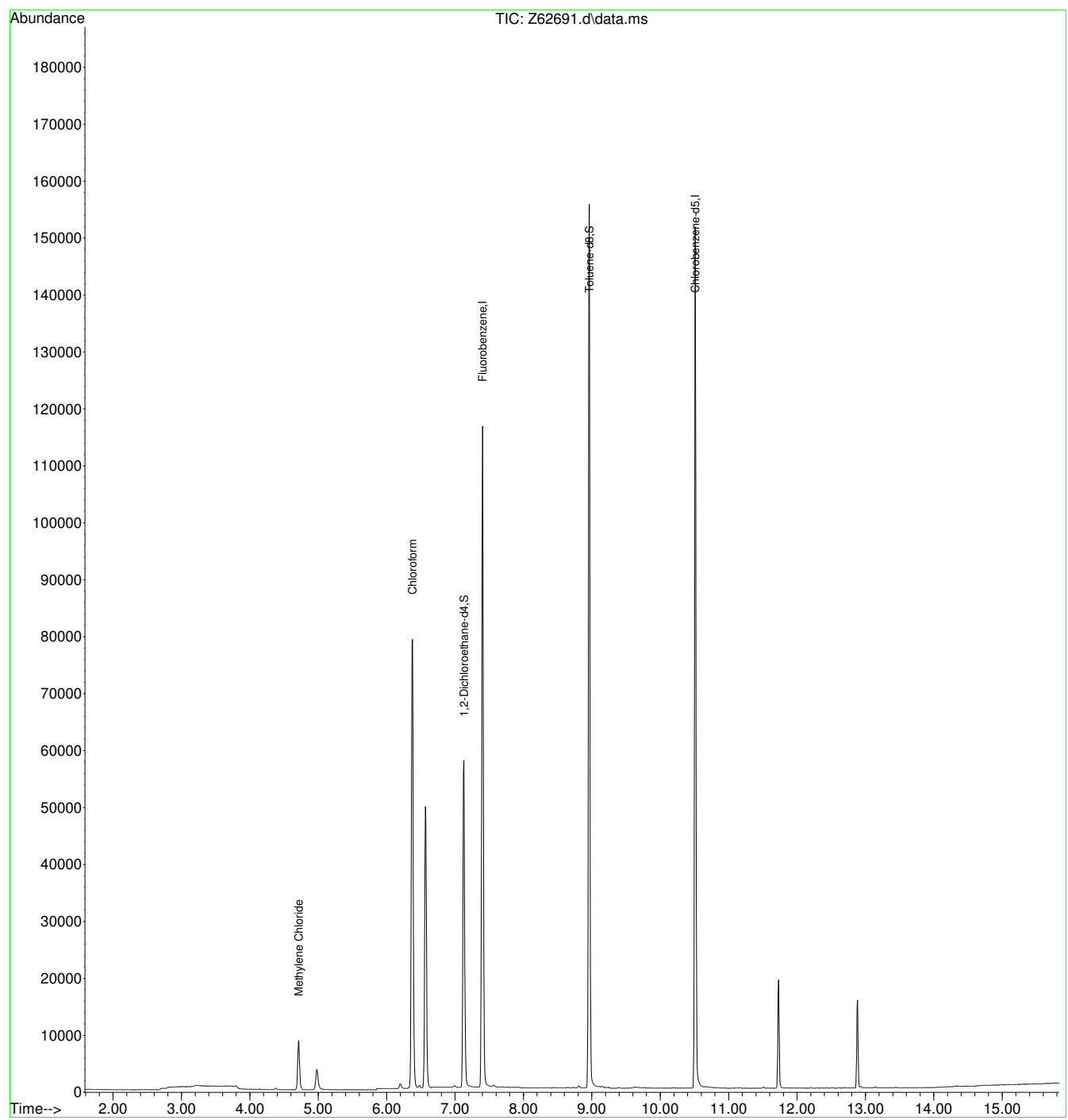
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.19  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
Data File : Z62691.d  
Acq On : 2 Oct 2020 11:00 pm  
Operator : AKARIG  
Sample : fa79149-16  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 24 Sample Multiplier: 1

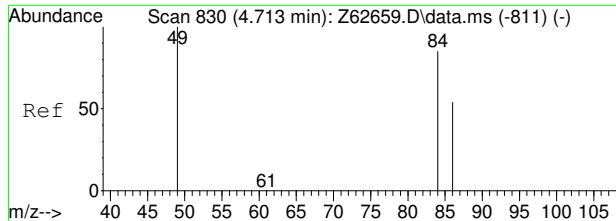
Quant Time: Oct 06 05:31:57 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



7.1.19  
7



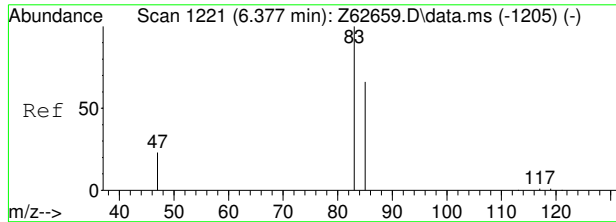
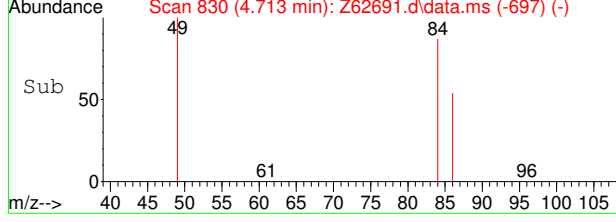
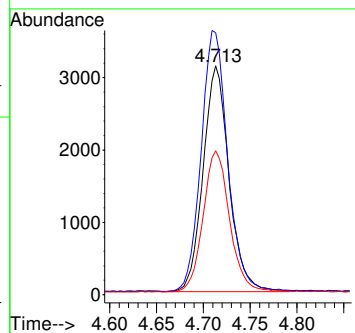
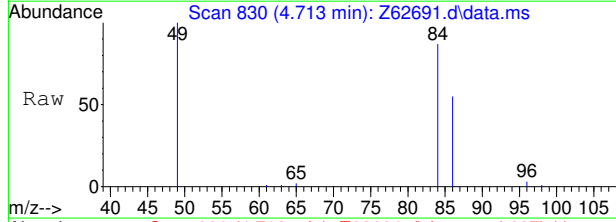




#5  
 Methylene Chloride  
 Concen: 0.32 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62691.d  
 Acq: 2 Oct 2020 11:00 pm

Tgt Ion: 84 Resp: 60043

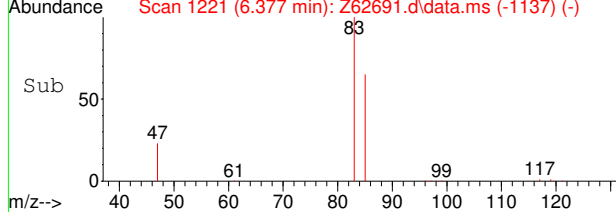
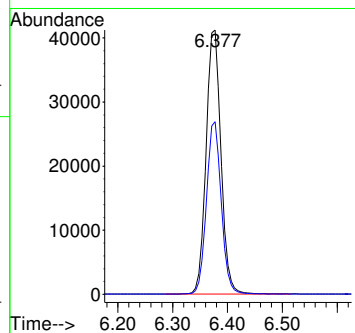
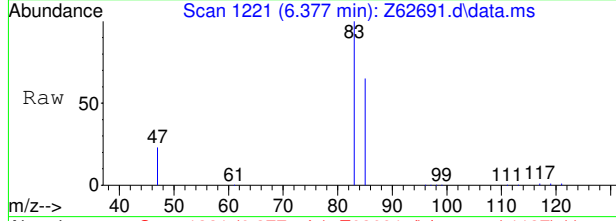
Ion	Ratio	Lower	Upper
84	100		
49	114.6	98.2	138.2
86	62.4	43.5	83.5



#9  
 Chloroform  
 Concen: 3.06 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62691.d  
 Acq: 2 Oct 2020 11:00 pm

Tgt Ion: 83 Resp: 775717

Ion	Ratio	Lower	Upper
83	100		
85	64.9	46.5	86.5



7.1.19  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-30-2020\vo2367\  
 Data File : O61486.d  
 Acq On : 25 Sep 2020 2:09 pm  
 Operator : JuanG  
 Sample : mb  
 Misc : MS47193,VO2367,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 30 05:30:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.345	96	220795	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	172251	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.077	65	103711	5.73	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	114.60%	
19) Toluene-d8	8.899	98	184601	5.17	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	103.40%	
Target Compounds						
5) Methylene Chloride	4.711	49	9837	0.20	ug/L	Qvalue 96
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

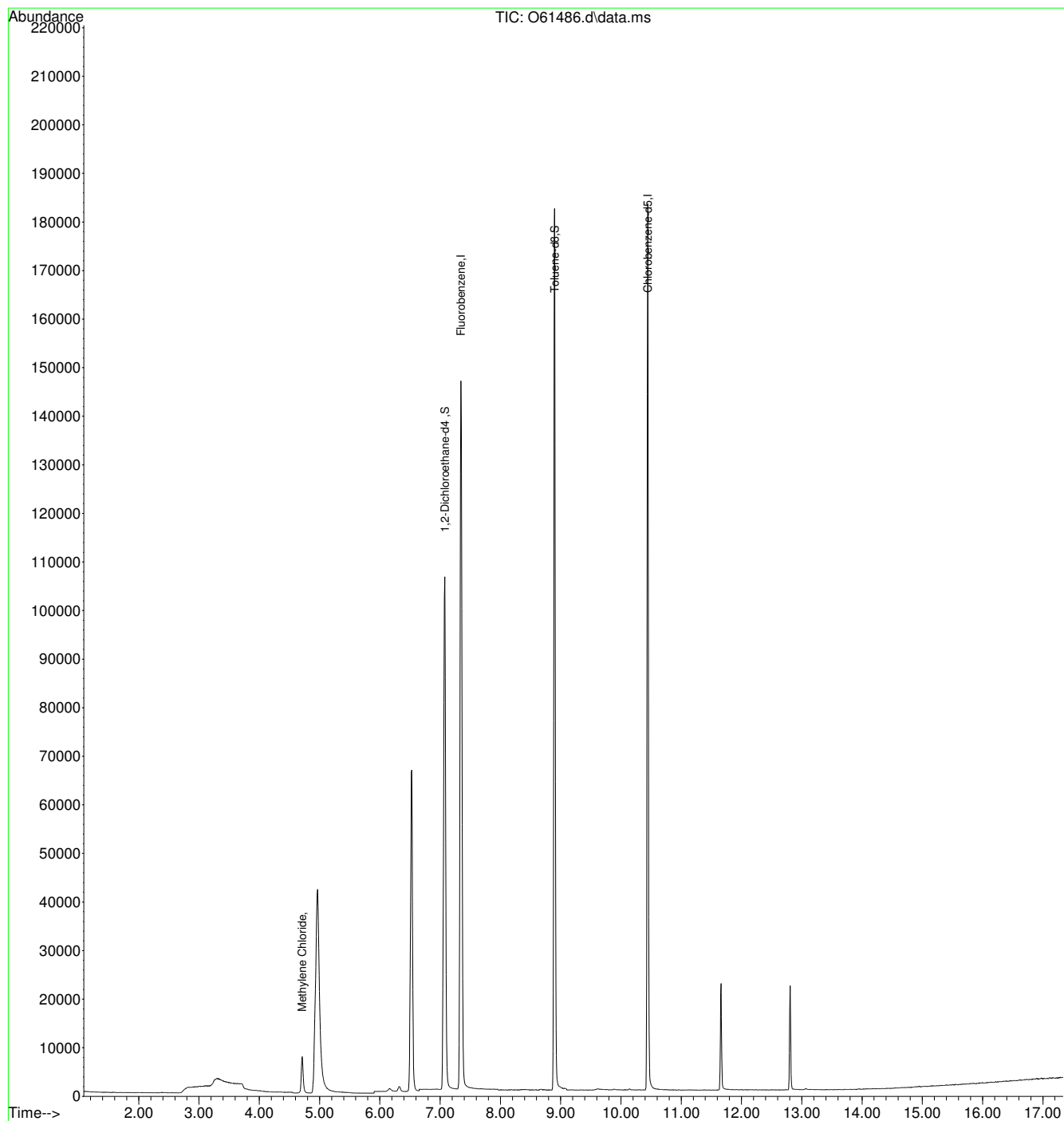
7.2.1  
7

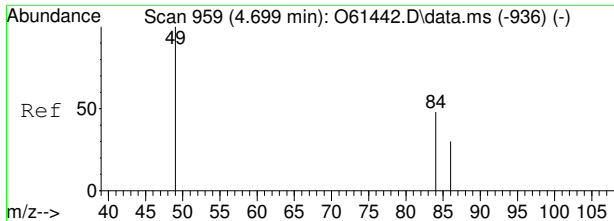


## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-30-2020\vo2367\  
Data File : O61486.d  
Acq On : 25 Sep 2020 2:09 pm  
Operator : JuanG  
Sample : mb  
Misc : MS47193,VO2367,,,,,  
ALS Vial : 4 Sample Multiplier: 1

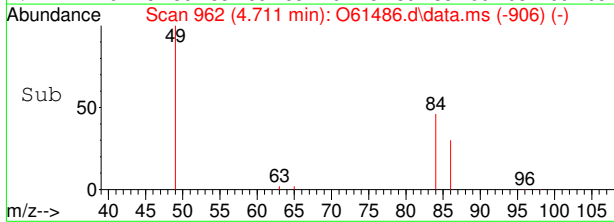
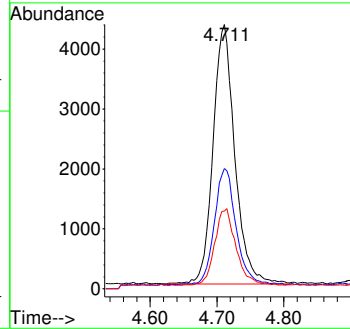
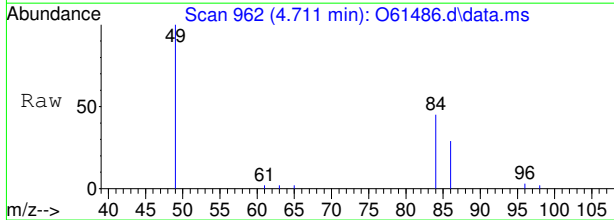
Quant Time: Sep 30 05:30:58 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
Quant Title : Standard Methods 6200B  
QLast Update : Mon Sep 21 11:01:30 2020  
Response via : Initial Calibration





#5  
 Methylene Chloride  
 Concen: 0.20 ug/L  
 RT: 4.711 min Scan# 962  
 Delta R.T. 0.011 min  
 Lab File: O61486.d  
 Acq: 25 Sep 2020 2:09 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	44.6	17.8	77.8
86	28.5	0.3	60.3



7.2.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\VZ2432\  
 Data File : Z62673.d  
 Acq On : 2 Oct 2020 5:13 pm  
 Operator : AKARIG  
 Sample : mb  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 05:30:56 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1992989	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1899690	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	647861	5.09	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.80%
19) Toluene-d8	8.961	98	2059979	5.07	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
Target Compounds						
5) Methylene Chloride	4.713	84	411816	1.49	ppb	99
-----						

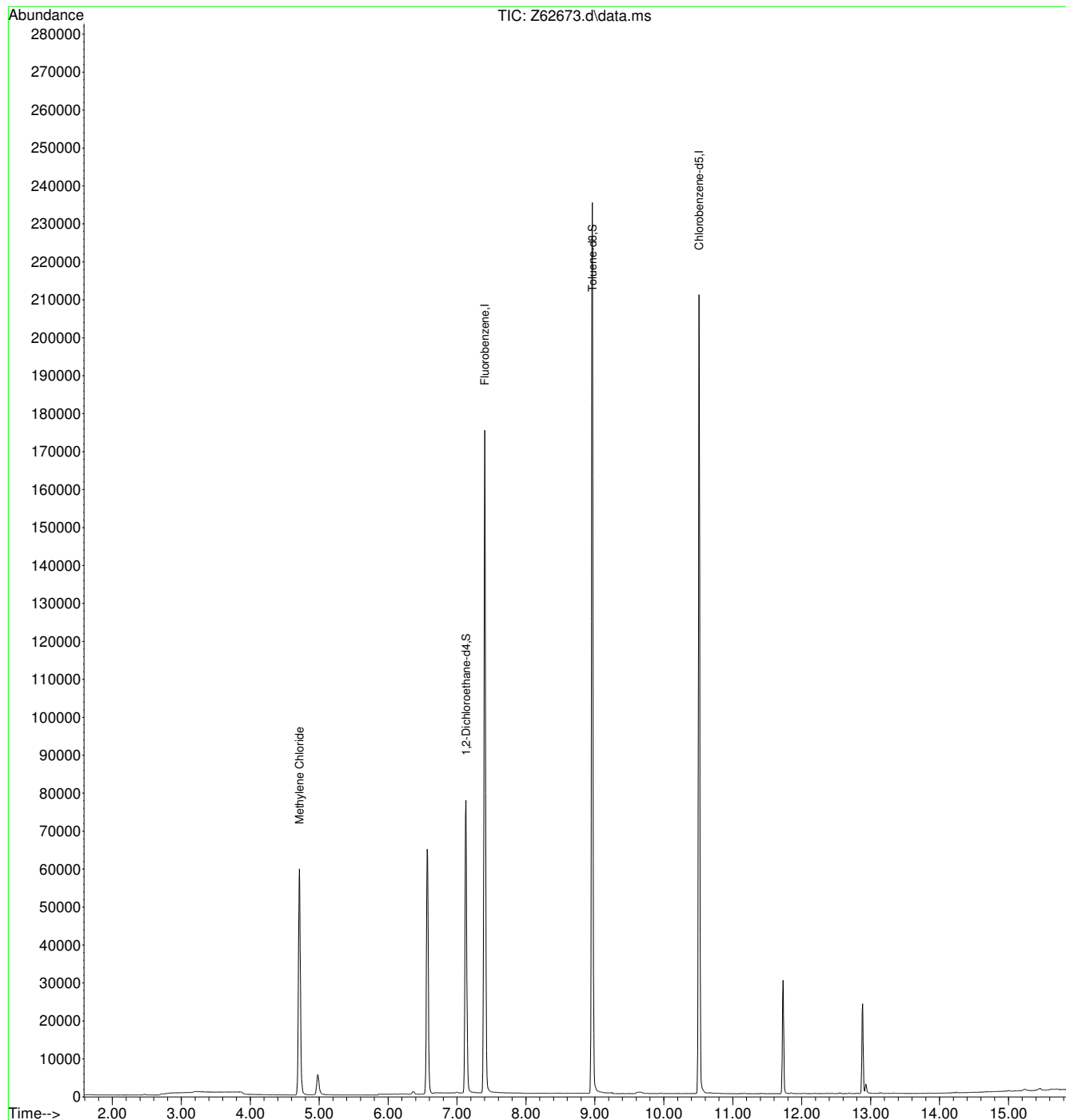
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.22  
7

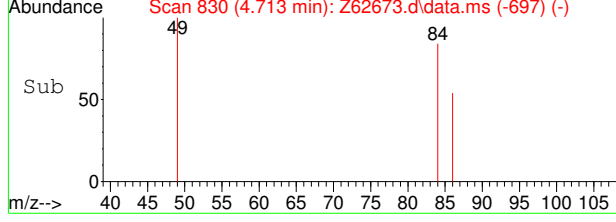
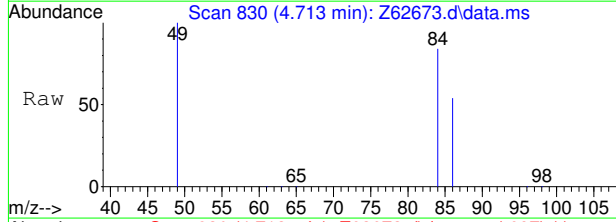
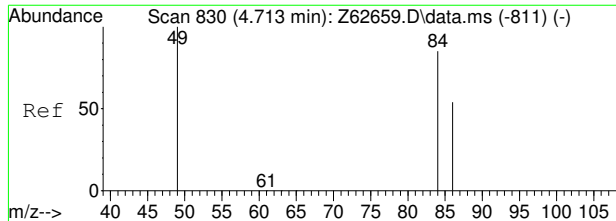
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\VZ2432\  
Data File : Z62673.d  
Acq On : 2 Oct 2020 5:13 pm  
Operator : AKARIG  
Sample : mb  
Misc : MS47304,VZ2432,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 05:30:56 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

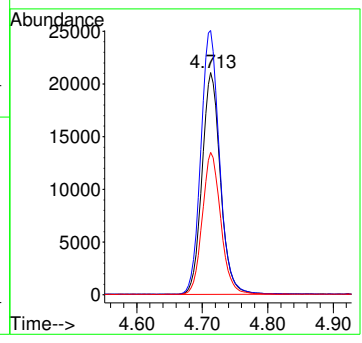


7.2.2  
7



#5  
 Methylene Chloride  
 Concen: 1.49 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62673.d  
 Acq: 2 Oct 2020 5:13 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	119.0	98.2	138.2
86	64.0	43.5	83.5



7.22  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-30-2020\vo2367\  
 Data File : O61484.d  
 Acq On : 25 Sep 2020 1:29 pm  
 Operator : JuanG  
 Sample : bs  
 Misc : MS47193,VO2367,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 05:27:42 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.345	96	306616	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.444	117	249278	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.069	65	122037	4.85	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	97.00%		
19) Toluene-d8	8.896	98	248768	4.81	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	96.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.916	62	146193	5.77	ug/L		100
3) Chloromethane	2.814	50	198910	5.13	ug/L		99
4) 1,1-Dichloroethene	4.092	61	209808	5.76	ug/L		97
5) Methylene Chloride	4.703	49	306081	4.85	ug/L		97
6) trans-1,2-Dichloroethene	4.869	61	231371	5.37	ug/L		98
7) 1,1-Dichloroethane	5.510	63	267961	5.37	ug/L		100
8) cis-1,2-Dichloroethene	6.065	96	126387	5.20	ug/L		96
9) Chloroform	6.332	83	227650	5.10	ug/L		100
10) Carbon Tetrachloride	6.510	117	173976	5.55	ug/L		98
11) 1,1,1-Trichloroethane	6.574	97	195121	5.56	ug/L		98
12) Benzene	6.939	78	452010	5.20	ug/L		97
14) 1,2-Dichloroethane	7.138	62	207041	5.13	ug/L		99
15) Trichloroethene	7.513	95	135925	5.42	ug/L		97
16) 1,2-Dichloropropane	8.039	63	142724	5.29	ug/L		98
17) cis-1,3-Dichloropropene	8.707	75	136620	5.14	ug/L		97
20) trans-1,3-Dichloropropene	9.341	75	136820	4.65	ug/L		98
21) Tetrachloroethene	9.341	166	133937	5.35	ug/L		97
22) 1,4-Dichlorobenzene	12.824	146	264838	5.21	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.035	75	44347	4.64	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

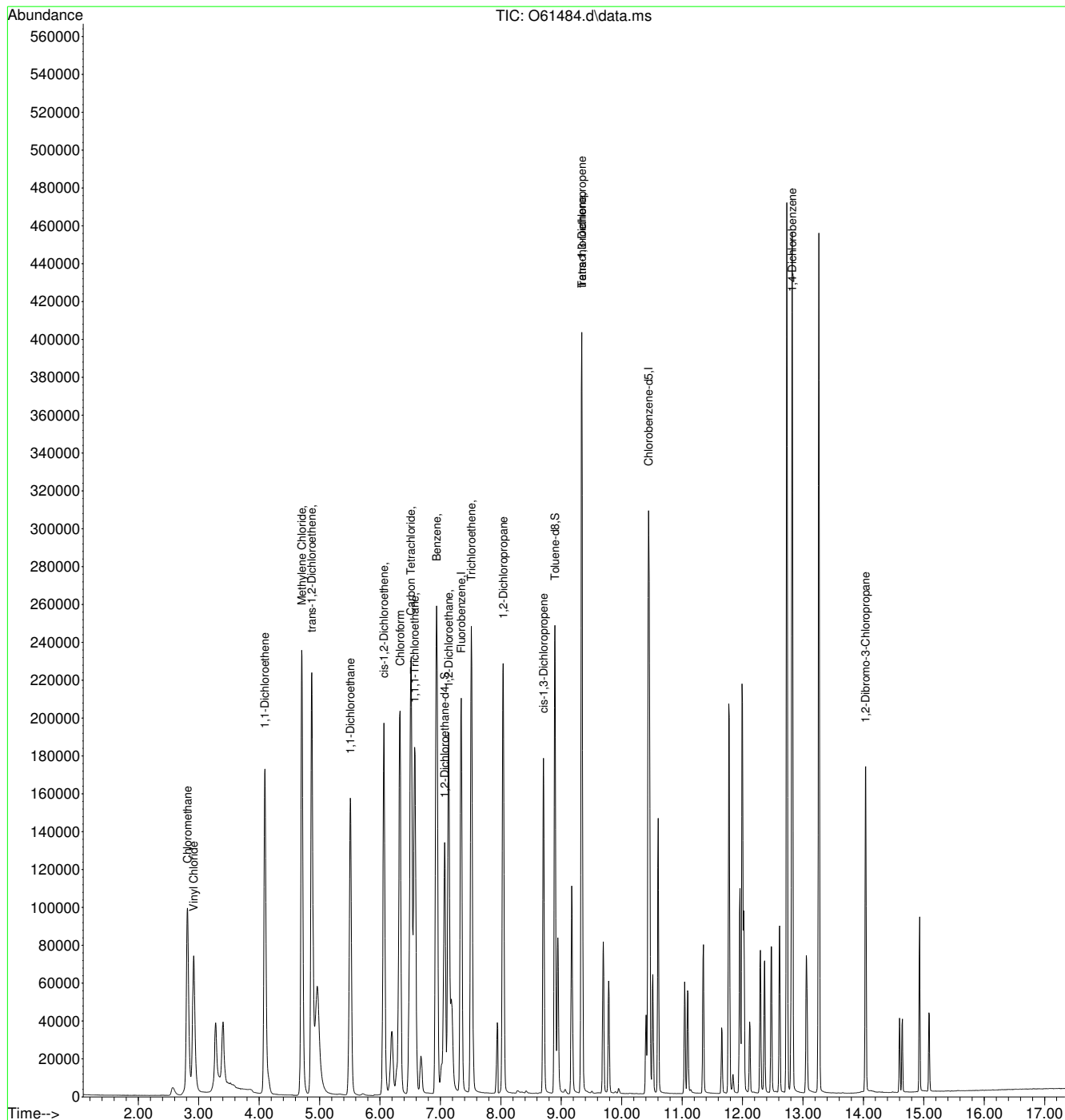
7.3.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-30-2020\vo2367\  
 Data File : O61484.d  
 Acq On : 25 Sep 2020 1:29 pm  
 Operator : JuanG  
 Sample : bs  
 Misc : MS47193,VO2367,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 05:27:42 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration



7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\VZ2432\  
 Data File : Z62671.d  
 Acq On : 2 Oct 2020 4:17 pm  
 Operator : AKARIG  
 Sample : bs  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 05:30:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2337837	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2245605	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	743162	4.98	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	99.60%	
19) Toluene-d8	8.957	98	2395827	4.99	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.831	62	1535100	5.19	ppb		99
3) Chloromethane	2.726	50	1255234	4.83	ppb		99
4) 1,1-Dichloroethene	4.083	96	933004	5.62	ppb		97
5) Methylene Chloride	4.713	84	1476712	4.75	ppb		98
6) trans-1,2-Dichloroethene	4.886	96	1187848	5.36	ppb		95
7) 1,1-Dichloroethane	5.542	63	1963671	5.38	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	1224511	5.28	ppb		98
9) Chloroform	6.371	83	2253435	5.10	ppb		100
10) Carbon Tetrachloride	6.543	117	1457276	5.69	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	1962565	5.55	ppb		99
12) Benzene	6.987	78	4424413	5.52	ppb		98
14) 1,2-Dichloroethane	7.191	62	1442834	5.09	ppb		99
15) Trichloroethene	7.564	95	1226450	5.47	ppb		94
16) 1,2-Dichloropropane	8.101	63	1021450	5.26	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	1190802	5.32	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	971818	7.07	ppb		98
21) Tetrachloroethene	9.399	166	1364916	5.57	ppb		98
-----							

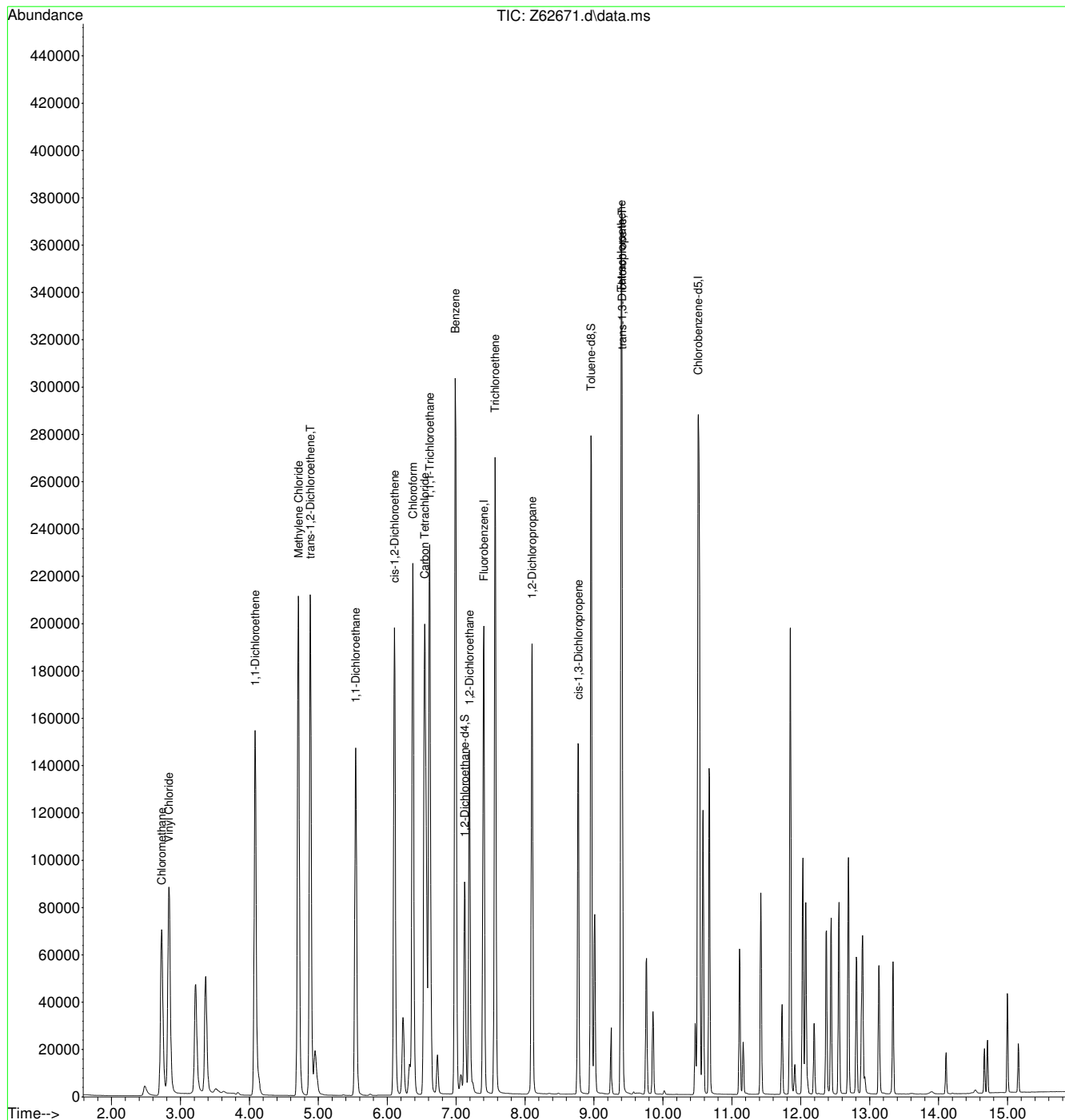
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.32  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62671.d  
 Acq On : 2 Oct 2020 4:17 pm  
 Operator : AKARIG  
 Sample : bs  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 05:30:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration



7.3.2  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\092520\  
 Data File : O61502.D  
 Acq On : 25 Sep 2020 9:05 pm  
 Operator : JuanG  
 Sample : fa79149-7ms Inst : MSVOA12  
 Misc : MS47304,VO2367,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 01 10:56:59 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.345	96	220686	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.444	117	192225	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.077	65	97765	5.40	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	108.00%		
19) Toluene-d8	8.899	98	164282	4.12	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	82.40%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.912	62	116526	6.39	ug/L		100
3) Chloromethane	2.806	50	171267	6.23	ug/L		100
4) 1,1-Dichloroethene	4.096	61	167736	6.40	ug/L		97
5) Methylene Chloride	4.707	49	263692	5.88	ug/L		94
6) trans-1,2-Dichloroethene	4.873	61	181671	5.86	ug/L		99
7) 1,1-Dichloroethane	5.514	63	218534	6.09	ug/L		100
8) cis-1,2-Dichloroethene	6.071	96	90768	5.19	ug/L		98
9) Chloroform	6.332	83	189158	5.88	ug/L		98
10) Carbon Tetrachloride	6.510	117	143237	6.35	ug/L		99
11) 1,1,1-Trichloroethane	6.580	97	160123	6.34	ug/L		98
12) Benzene	6.947	78	346209	5.54	ug/L		98
14) 1,2-Dichloroethane	7.138	62	175654	6.05	ug/L		97
15) Trichloroethene	7.513	95	102298	5.66	ug/L		99
16) 1,2-Dichloropropane	8.043	63	112876	5.82	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	87734	4.62	ug/L		95
20) trans-1,3-Dichloropropene	9.346	75	93067	4.10	ug/L		96
21) Tetrachloroethene	9.341	166	111433	5.77	ug/L		99
22) 1,4-Dichlorobenzene	12.824	146	216517	5.51	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.035	75	31831	4.32	ug/L		98

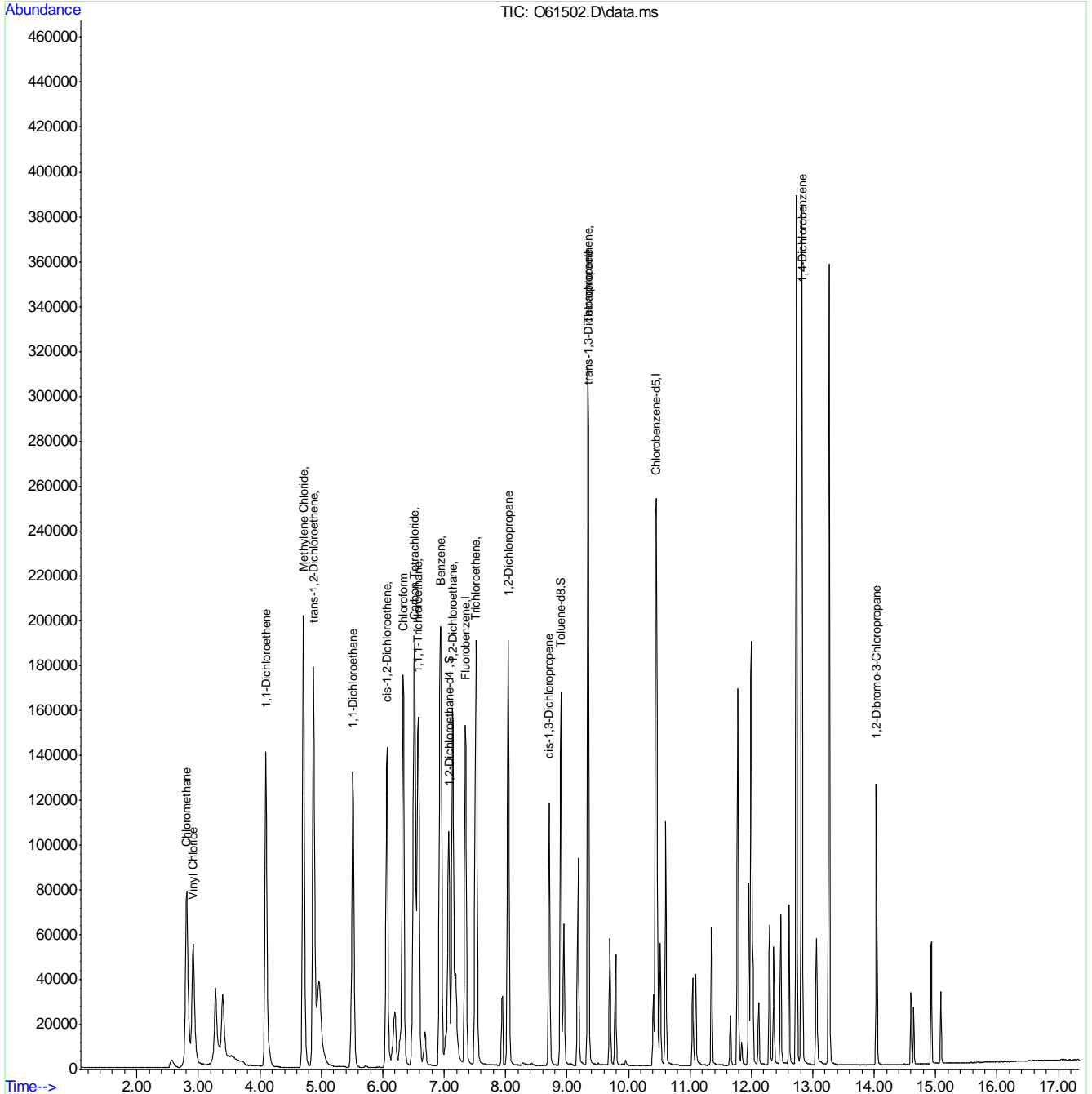
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\092520\  
 Data File : O61502.D  
 Acq On : 25 Sep 2020 9:05 pm  
 Operator : JuanG  
 Sample : fa79149-7ms  
 Misc : MS47304,VO2367,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Oct 01 10:56:59 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\092520\  
 Data File : O61503.D  
 Acq On : 25 Sep 2020 9:25 pm  
 Operator : JuanG  
 Sample : fa79149-7msd Inst : MSVOA12  
 Misc : MS47304,VO2367,,,,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 01 10:57:01 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.345	96	234717	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	202645	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.077	65	101490	5.27	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	105.40%	
19) Toluene-d8	8.899	98	178832	4.26	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	85.20%#	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.912	62	129690	6.68	ug/L	100
3) Chloromethane	2.807	50	188254	6.46	ug/L	100
4) 1,1-Dichloroethene	4.096	61	179064	6.42	ug/L	98
5) Methylene Chloride	4.707	49	276153	5.78	ug/L	95
6) trans-1,2-Dichloroethene	4.873	61	195185	5.92	ug/L	99
7) 1,1-Dichloroethane	5.514	63	230501	6.04	ug/L	99
8) cis-1,2-Dichloroethene	6.071	96	99264	5.34	ug/L	98
9) Chloroform	6.332	83	198347	5.80	ug/L	98
10) Carbon Tetrachloride	6.510	117	152181	6.34	ug/L	99
11) 1,1,1-Trichloroethane	6.580	97	169377	6.30	ug/L	99
12) Benzene	6.939	78	372645	5.60	ug/L	93
14) 1,2-Dichloroethane	7.138	62	183926	5.95	ug/L	97
15) Trichloroethene	7.513	95	108572	5.65	ug/L	100
16) 1,2-Dichloropropane	8.043	63	119943	5.81	ug/L	95
17) cis-1,3-Dichloropropene	8.711	75	97369	4.81	ug/L	95
20) trans-1,3-Dichloropropene	9.347	75	101306	4.24	ug/L	97
21) Tetrachloroethene	9.341	166	116680	5.73	ug/L	99
22) 1,4-Dichlorobenzene	12.824	146	226572	5.47	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.035	75	34030	4.38	ug/L	99

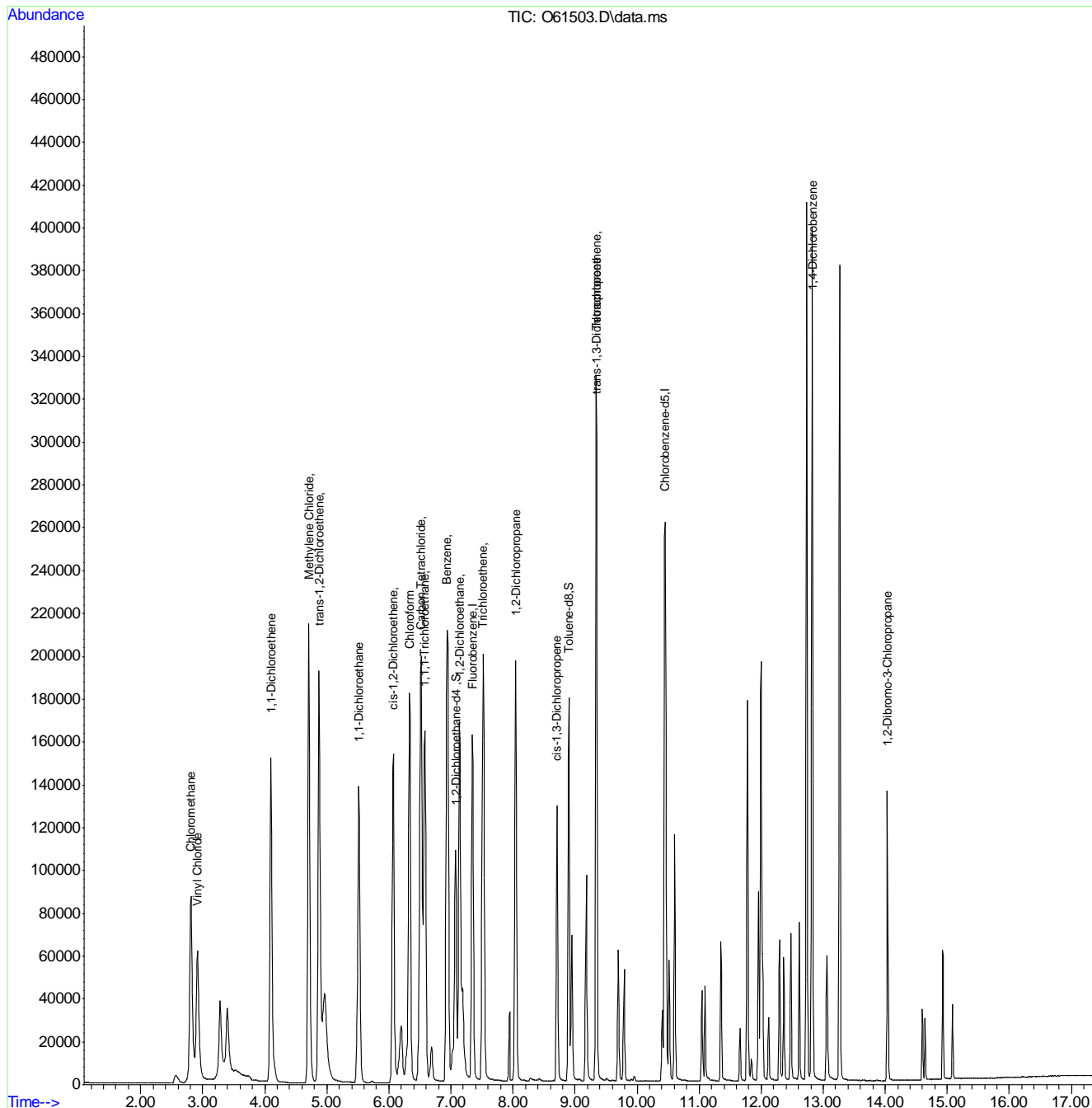
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\092520\  
 Data File : O61503.D  
 Acq On : 25 Sep 2020 9:25 pm  
 Operator : JuanG  
 Sample : fa79149-7msd  
 Misc : MS47304,VO2367,,,,,  
 ALS Vial : 23 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Oct 01 10:57:01 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration



7.4.2  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62680.d  
 Acq On : 2 Oct 2020 7:28 pm  
 Operator : AKARIG  
 Sample : fa79149-1ms  
 Misc : MS47304,VZ2432,,,,,10  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 05:31:20 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1835269	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1863425	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	596878	5.09	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.80%	
19) Toluene-d8	8.961	98	1876136	4.71	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.831	62	1246159	5.37	ppb		99
3) Chloromethane	2.726	50	992078	4.87	ppb		99
4) 1,1-Dichloroethene	4.083	96	770286	5.91	ppb		97
5) Methylene Chloride	4.713	84	1337978	5.54	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	954768	5.49	ppb		95
7) 1,1-Dichloroethane	5.542	63	1601642	5.59	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	983289	5.40	ppb		98
9) Chloroform	6.371	83	1890167	5.45	ppb		100
10) Carbon Tetrachloride	6.543	117	1083947	5.39	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	1600158	5.76	ppb		100
12) Benzene	6.994	78	3565982	5.67	ppb		99
14) 1,2-Dichloroethane	7.198	62	1173713	5.28	ppb		100
15) Trichloroethene	7.564	95	1004968	5.71	ppb		98
16) 1,2-Dichloropropane	8.105	63	833215	5.47	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	672817	3.83	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	483447	4.61	ppb		99
21) Tetrachloroethene	9.399	166	1101148	5.41	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.3  
7

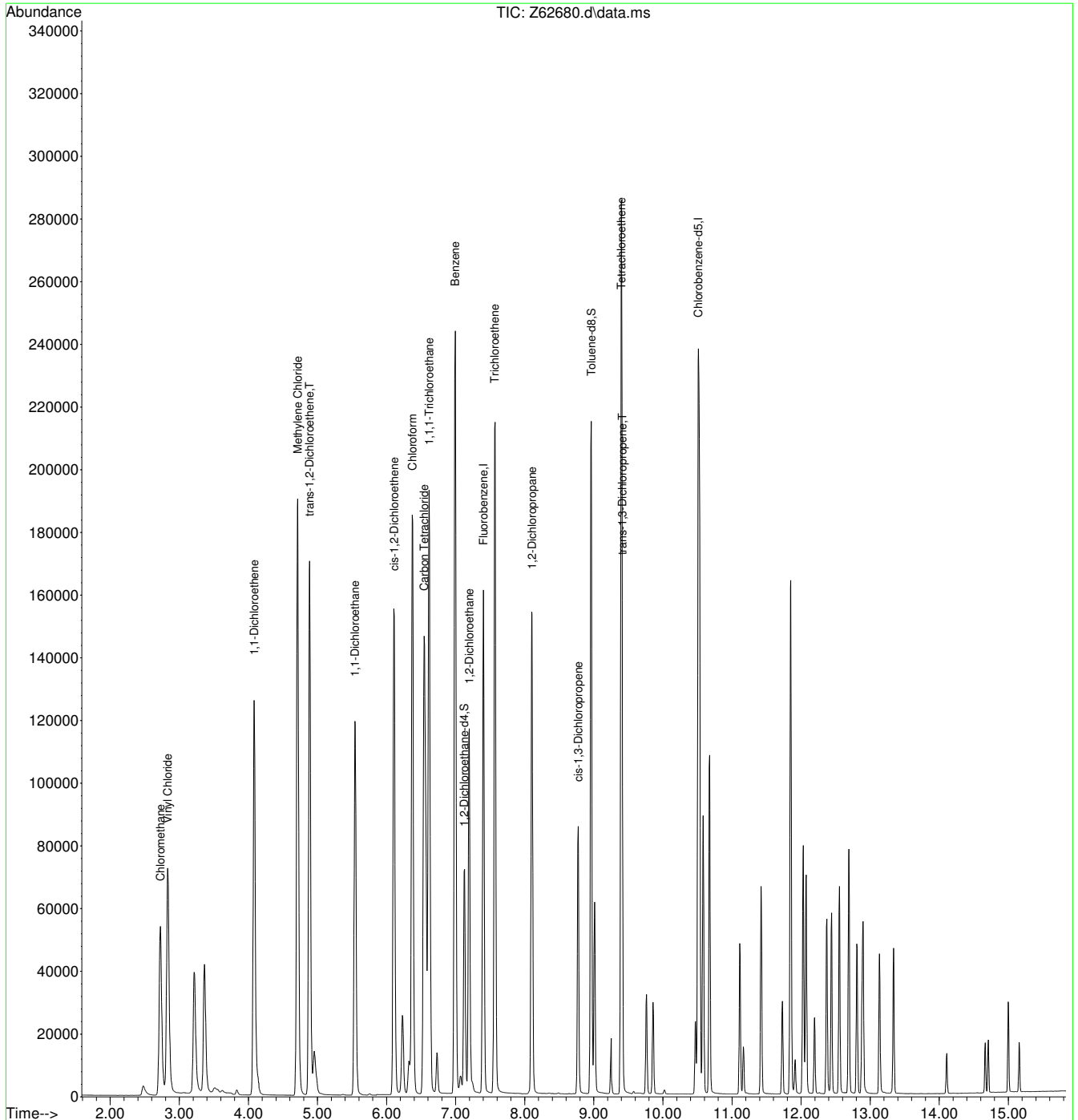




Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62680.d  
 Acq On : 2 Oct 2020 7:28 pm  
 Operator : AKARIG  
 Sample : fa79149-1ms  
 Misc : MS47304,VZ2432,,,,,10  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 06 05:31:20 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62681.d  
 Acq On : 2 Oct 2020 7:47 pm  
 Operator : AKARIG  
 Sample : fa79149-1msd  
 Misc : MS47304,VZ2432,,,,,10  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 05:31:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

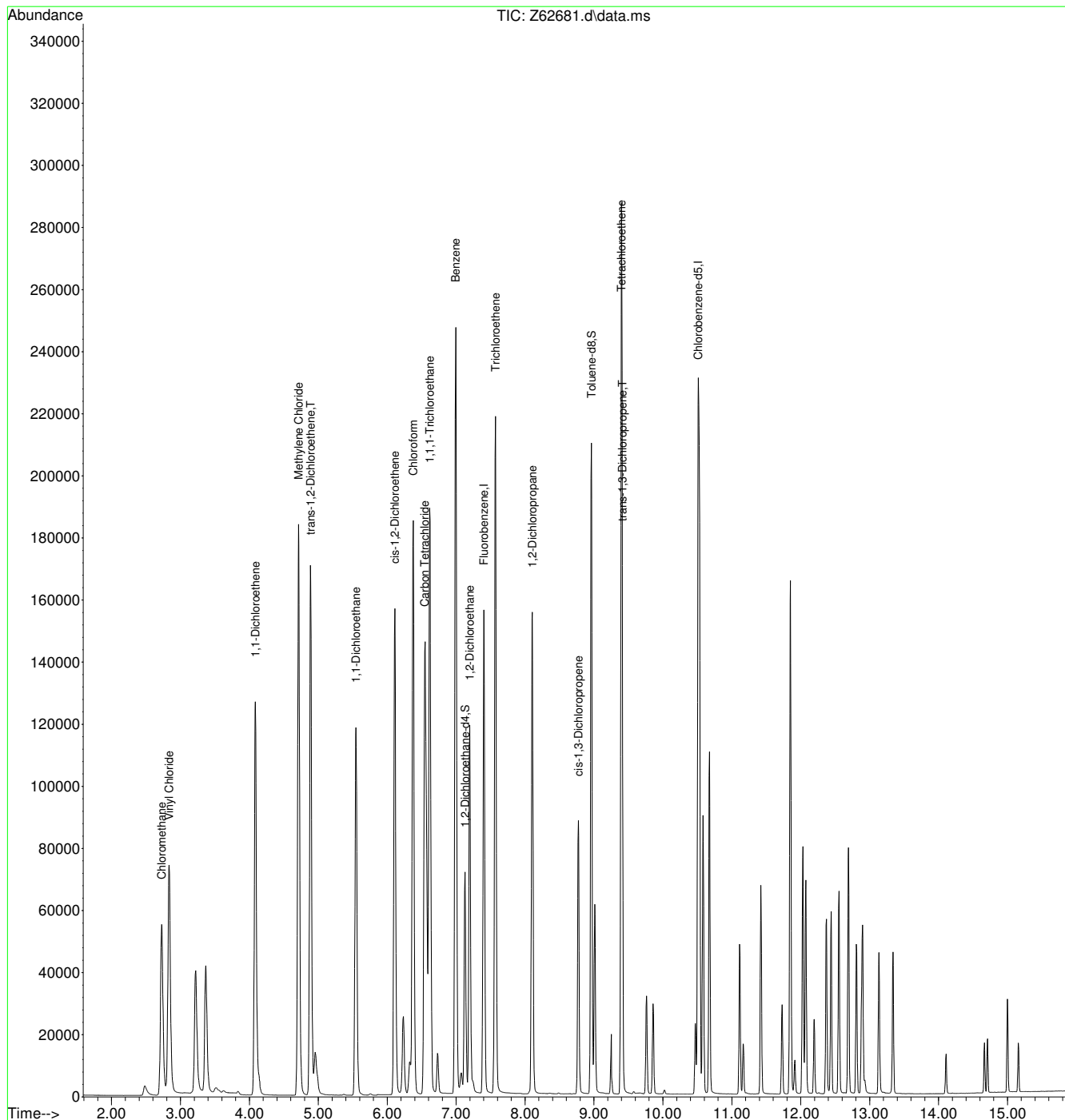
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1792836	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1804502	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	582109	5.08	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.60%	
19) Toluene-d8	8.961	98	1826465	4.73	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	1251484	5.52	ppb		100
3) Chloromethane	2.726	50	993312	4.99	ppb		100
4) 1,1-Dichloroethene	4.087	96	766300	6.01	ppb		98
5) Methylene Chloride	4.713	84	1267048	5.36	ppb		98
6) trans-1,2-Dichloroethene	4.890	96	947104	5.58	ppb		94
7) 1,1-Dichloroethane	5.546	63	1585136	5.67	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	975337	5.48	ppb		98
9) Chloroform	6.377	83	1863395	5.50	ppb		100
10) Carbon Tetrachloride	6.543	117	1072204	5.46	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	1587527	5.85	ppb		99
12) Benzene	6.994	78	3550664	5.78	ppb		99
14) 1,2-Dichloroethane	7.198	62	1164230	5.36	ppb		100
15) Trichloroethene	7.571	95	1001588	5.83	ppb		88
16) 1,2-Dichloropropane	8.105	63	833407	5.60	ppb		100
17) cis-1,3-Dichloropropene	8.773	75	701618	4.09	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	510155	4.97	ppb		98
21) Tetrachloroethene	9.399	166	1103908	5.60	ppb		98
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

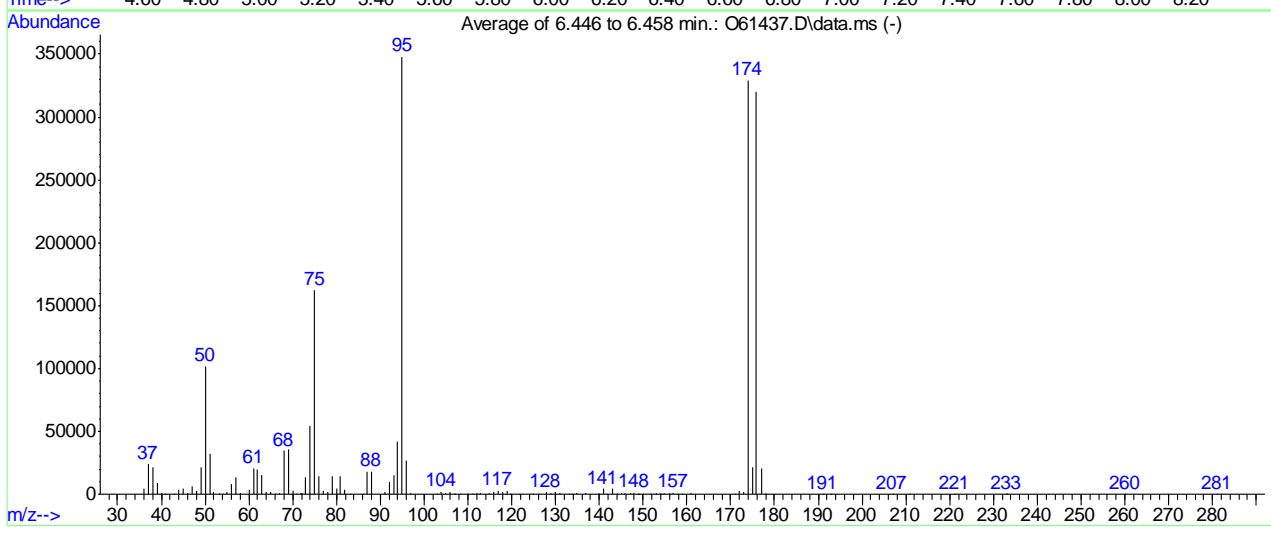
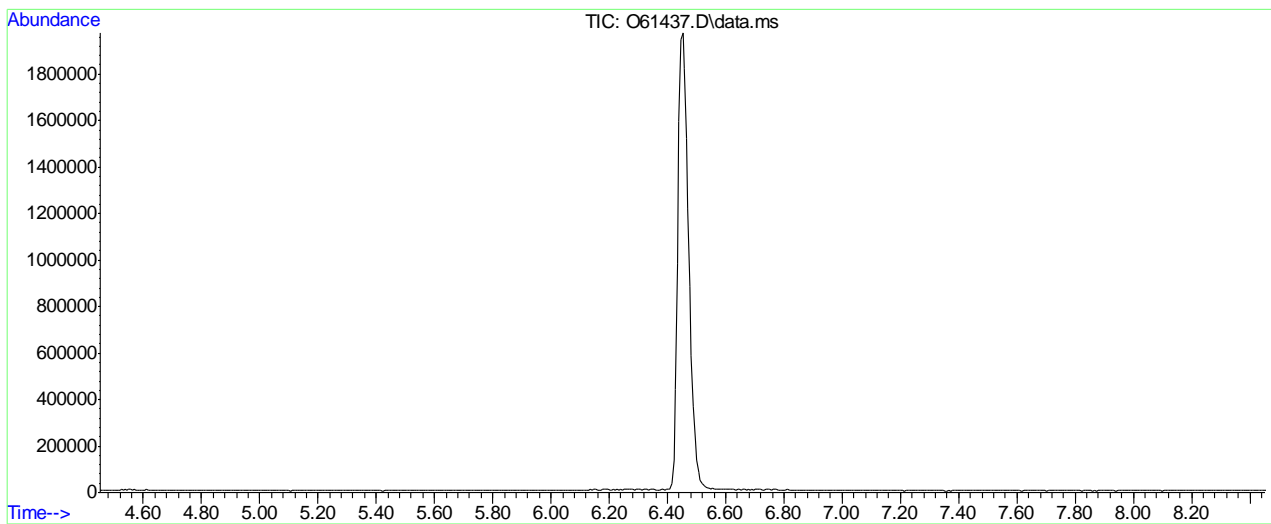
Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62681.d  
 Acq On : 2 Oct 2020 7:47 pm  
 Operator : AKARIG  
 Sample : fa79149-1msd  
 Misc : MS47304,VZ2432,,,,,10  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 06 05:31:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration



7.4.4  
7

Methods: SW-846 8260B  
 Data File : C:\msdchem\2\data\091820\O61437.D Vial: 100  
 Acq On : 18 Sep 2020 8:17 am Operator: melissam  
 Sample : bfb Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\msdchem\2\methods\SIMCL091820.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 469, 470, 471; Background Corrected with Scan 460

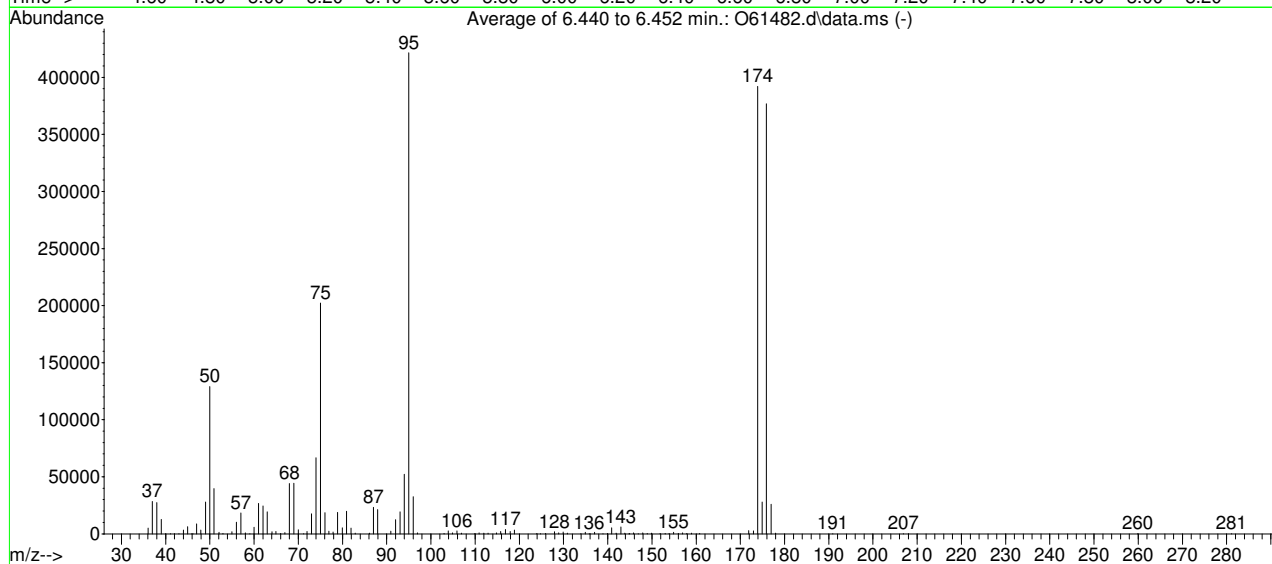
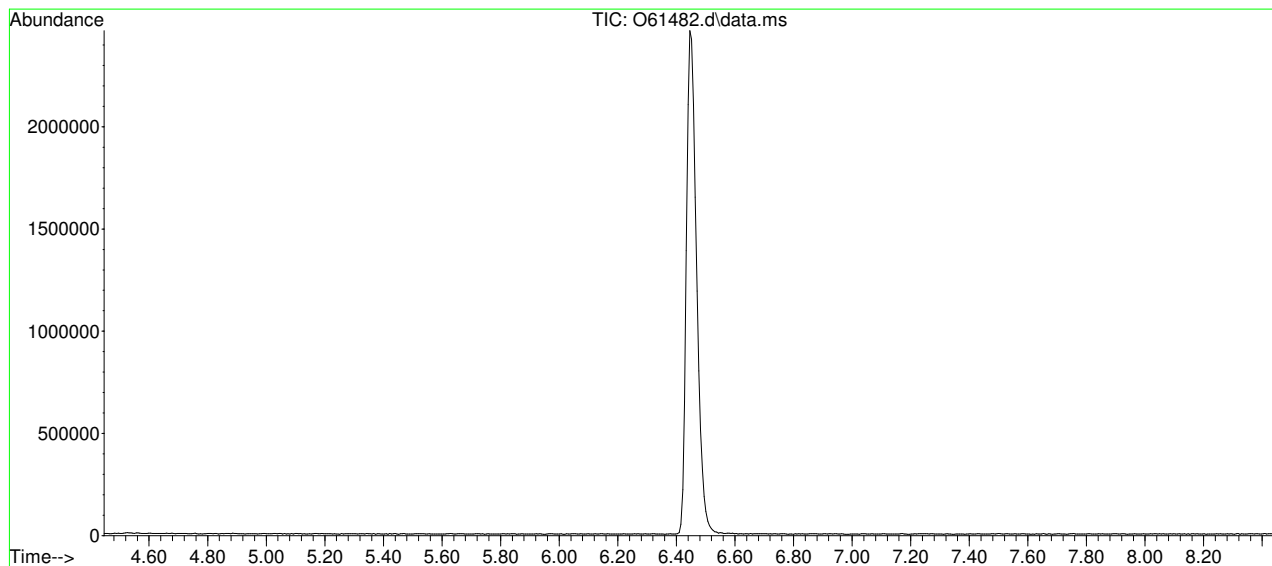
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.3	101965	PASS
75	95	30	60	46.7	162539	PASS
95	95	100	100	100.0	348139	PASS
96	95	5	9	7.8	27092	PASS
173	174	0.00	2	0.6	1951	PASS
174	95	50	100	94.5	329003	PASS
175	174	5	9	6.6	21733	PASS
176	174	95	101	97.2	319701	PASS
177	176	5	9	6.5	20736	PASS

7.5.1  
 7

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\jo...-2020\vo2367\O61482.d Vial: 100  
 Acq On : 25 Sep 2020 12:19 pm Operator: JuanG  
 Sample : bfb Inst : MSVOA12  
 Misc : MS47193,VO2367,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091820.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 460

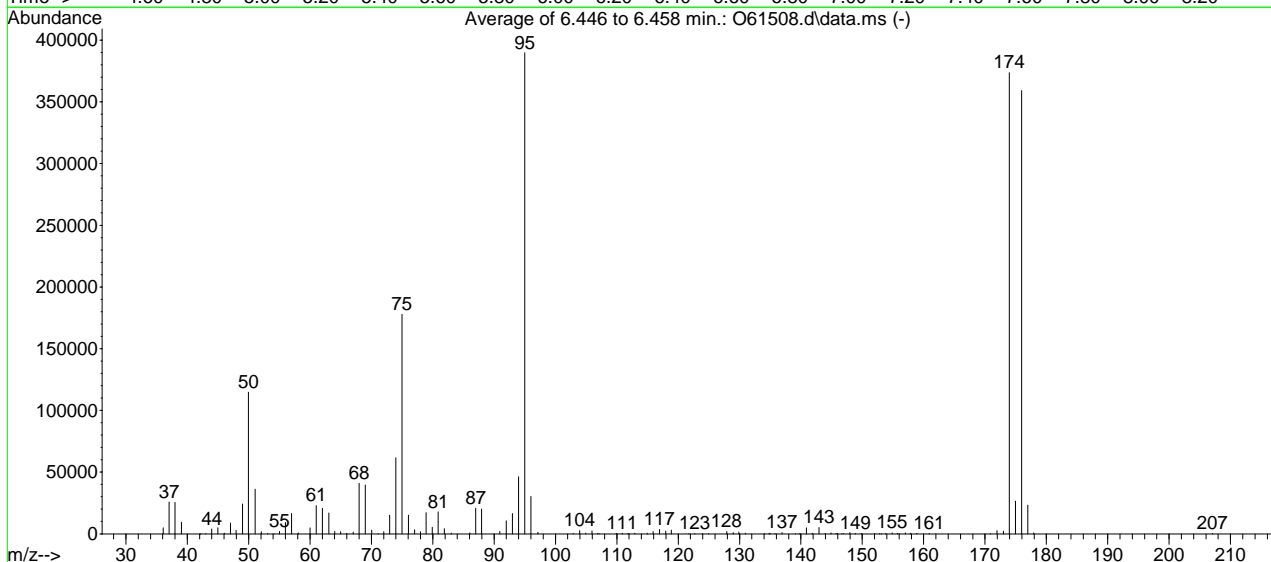
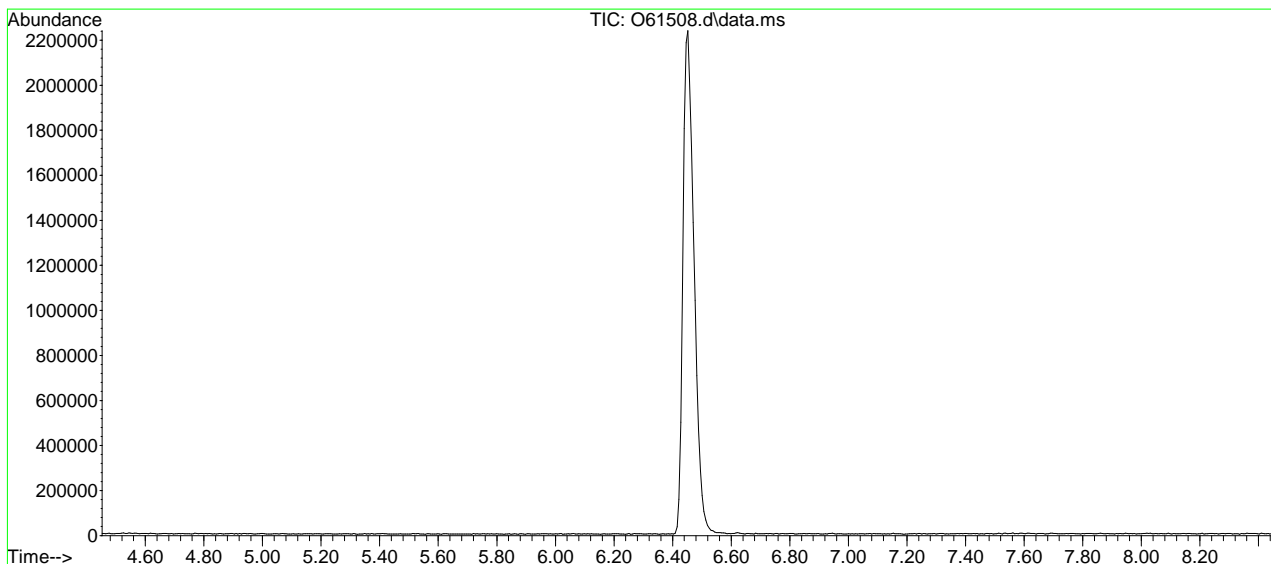
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.6	129112	PASS
75	95	30	60	48.0	202347	PASS
95	95	100	100	100.0	421483	PASS
96	95	5	9	7.7	32579	PASS
173	174	0.00	2	0.6	2531	PASS
174	95	50	100	93.0	392021	PASS
175	174	5	9	7.1	27813	PASS
176	174	95	101	96.2	376939	PASS
177	176	5	9	6.8	25819	PASS

O61482.d SIMCL091820.M Wed Sep 30 05:29:23 2020

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\Je...-2020\VO2368\O61508.d Vial: 100  
 Acq On : 1 Oct 2020 9:54 am Operator: AKARIG  
 Sample : bfb Inst : MSVOA12  
 Misc : MS47193,VO2368,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091820.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 469, 470, 471; Background Corrected with Scan 458

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.4	114720	PASS
75	95	30	60	45.7	177941	PASS
95	95	100	100	100.0	389696	PASS
96	95	5	9	7.8	30424	PASS
173	174	0.00	2	0.6	2200	PASS
174	95	50	100	95.9	373547	PASS
175	174	5	9	7.1	26451	PASS
176	174	95	101	96.2	359168	PASS
177	176	5	9	6.5	23285	PASS

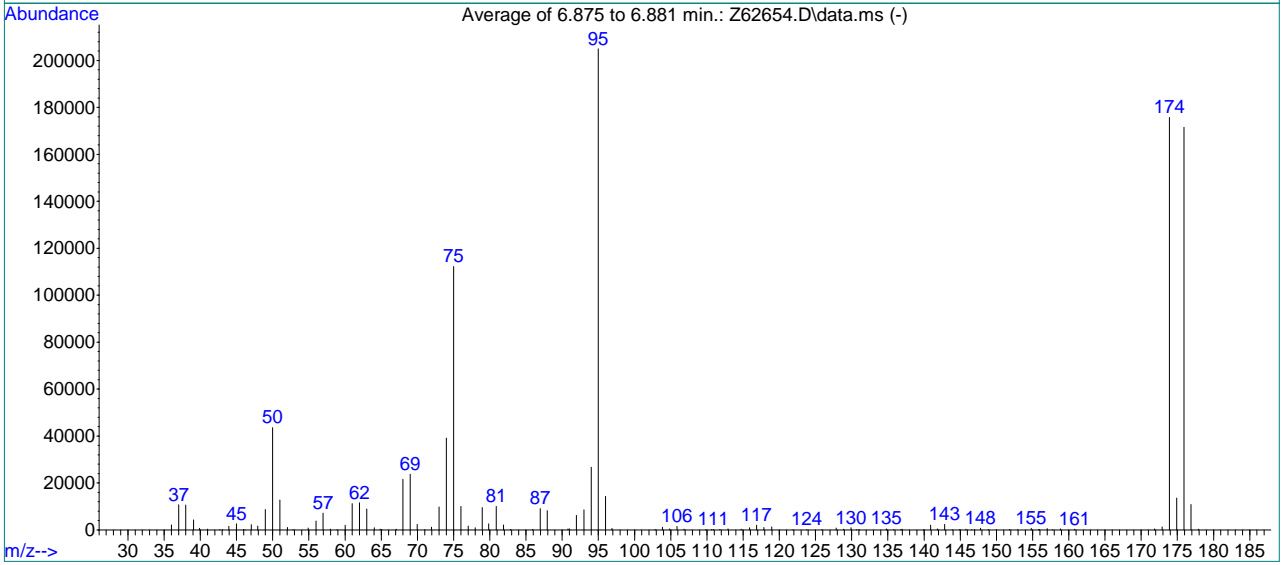
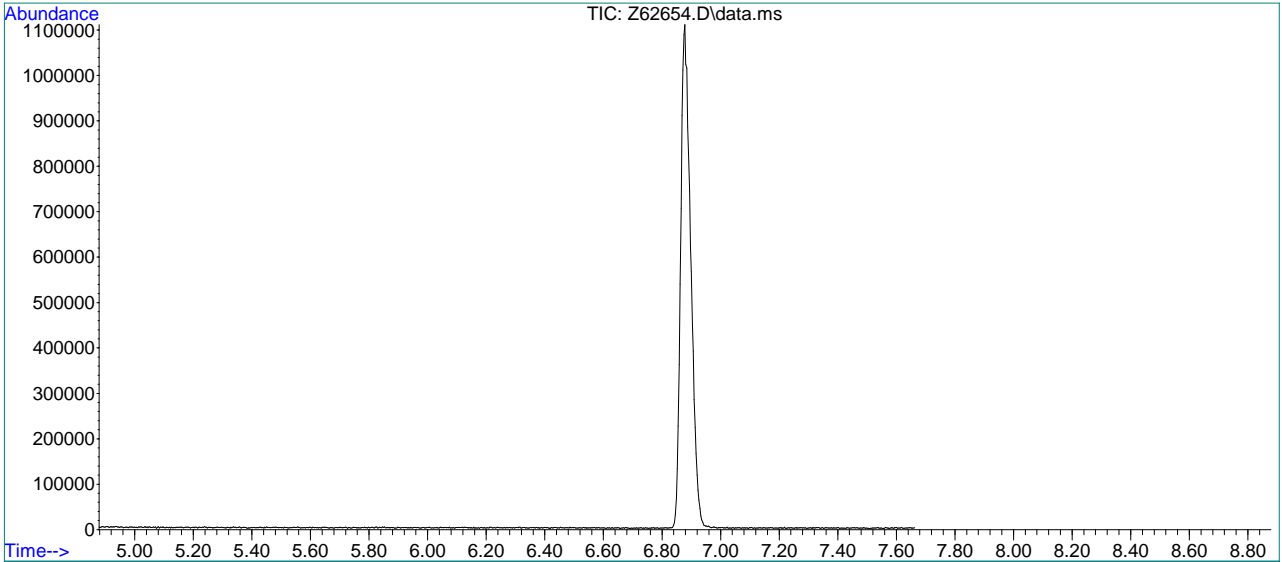
7.5.3  
7

BFB

Data File : C:\msdchem\1\data\100120\Z62654.D  
 Acq On : 1 Oct 2020 9:35 am  
 Sample : bfb  
 Misc : MS47304,VZ2431,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: AKARIG  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2111, 2112, 2113; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	43555	PASS
75	95	30	60	54.7	112171	PASS
95	95	100	100	100.0	204928	PASS
96	95	5	9	7.0	14329	PASS
173	174	0.00	2	0.7	1200	PASS
174	95	50	100	85.7	175723	PASS
175	174	5	9	7.7	13587	PASS
176	174	95	101	97.6	171477	PASS
177	176	5	9	6.3	10768	PASS



7.5.4  
7

Average of 6.875 to 6.881 min.: Z62654.D\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	2112	46.20	69	57.95	344	69.00	23757
37.00	10663	47.05	2218	58.90	51	69.95	2332
38.00	10556	47.95	1664	60.00	2004	71.00	74
39.05	4303	49.00	8710	61.00	11178	71.95	1084
39.90	640	50.00	43555	62.00	11492	73.00	9686
41.00	361	51.00	12735	63.00	8852	74.00	39091
42.70	86	52.05	980	64.05	921	75.00	112171
43.05	127	52.80	53	64.85	320	76.00	9933
43.95	1478	54.90	728	65.10	174	77.00	1620
45.00	2538	56.00	3732	67.05	351	78.00	879
45.95	205	56.95	7072	68.00	21616	78.95	9453

Average of 6.875 to 6.881 min.: Z62654.D\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.85	2599	94.00	26731	110.90	173	127.85	816
80.90	10017	95.00	204928	111.80	143	128.90	290
81.90	2083	96.00	14329	112.90	391	129.90	844
82.85	242	96.90	632	114.75	317	130.70	109
85.90	208	102.85	149	115.90	878	131.05	224
86.95	8977	103.85	1085	116.85	1945	134.80	486
87.95	8196	104.85	473	117.85	1020	135.80	70
90.80	425	105.85	1558	118.95	1257	136.80	203
91.00	419	106.85	334	121.90	60	136.95	334
91.95	6134	109.80	66	123.80	78	139.90	77
93.00	8579	110.65	148	125.90	65	140.90	2036

Average of 6.875 to 6.881 min.: Z62654.D\data.ms  
bfb

Modified:subtracted

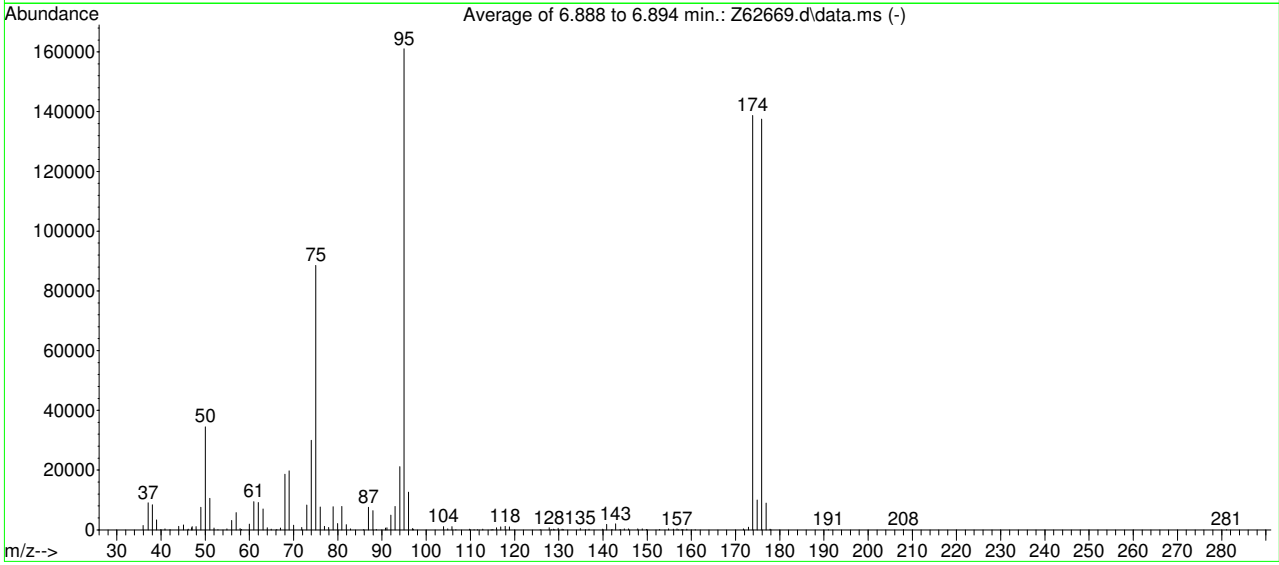
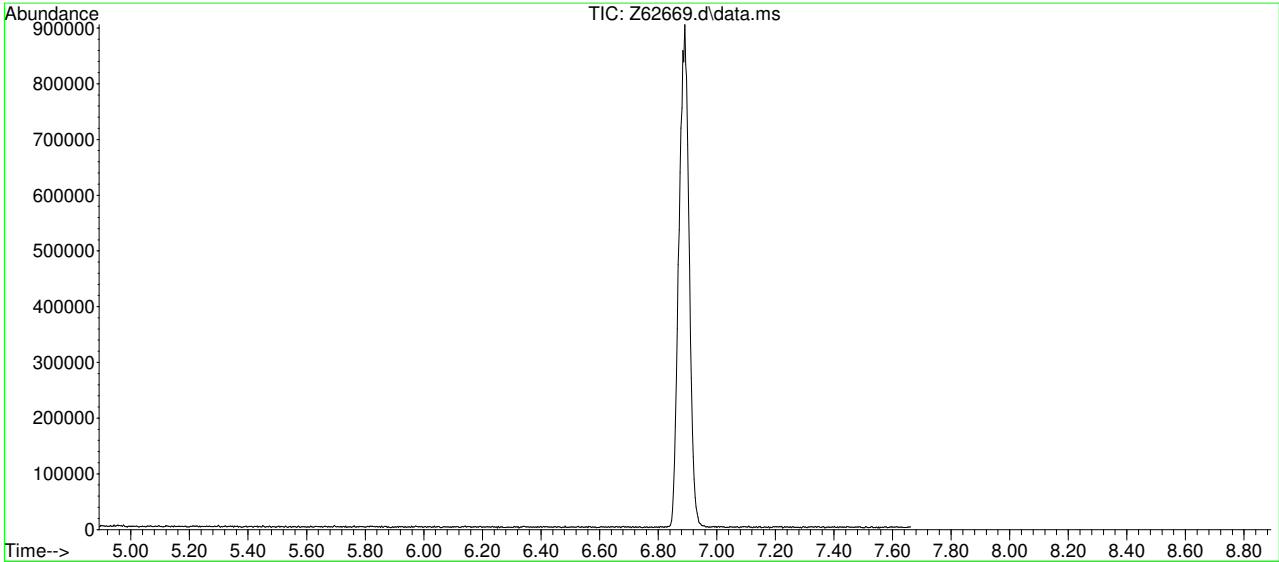
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
141.85	441	152.90	124	174.90	13587		
142.85	2359	154.80	653	175.90	171477		
143.90	108	155.80	92	176.90	10768		
144.95	129	155.95	160	177.90	288		
145.80	301	157.00	508				
146.60	55	157.70	75				
147.00	55	158.85	393				
147.80	690	160.80	345				
148.90	144	171.85	388				
150.00	56	172.90	1200				
151.80	247	173.90	175723				



BFB

Data File : C:\msdchem\1\data\jo...-2020\ vz2432\Z62669.d Vial: 100  
 Acq On : 2 Oct 2020 3:11 pm Operator: AKARIG  
 Sample : bfb Inst : MSVOA15  
 Misc : MS47304,VZ2432,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2115, 2116, 2117; Background Corrected with Scan 2097

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	34533	PASS
75	95	30	60	55.0	88507	PASS
95	95	100	100	100.0	161024	PASS
96	95	5	9	7.9	12651	PASS
173	174	0.00	2	0.6	876	PASS
174	95	50	100	86.2	138752	PASS
175	174	5	9	7.2	9979	PASS
176	174	95	101	99.1	137488	PASS
177	176	5	9	6.5	8970	PASS

7.5.5  
7

Average of 6.888 to 6.894 min.: Z62669.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	1473	47.05	1056	58.20	117	70.00	1571
37.05	9022	47.95	1086	59.95	1890	71.85	840
38.00	8392	49.00	7520	61.00	9444	73.00	8308
39.00	3342	50.00	34533	62.00	9114	74.00	29936
39.95	57	51.00	10539	63.05	7006	75.00	88507
40.90	313	51.95	659	64.00	723	76.00	7646
42.00	48	52.90	53	64.90	241	76.95	1213
44.00	1193	54.90	301	66.20	137	77.95	801
45.05	1646	56.00	3140	67.00	612	78.95	7722
46.15	194	57.00	5784	68.00	18664	79.95	2153
46.90	716	57.90	427	69.00	19760	80.90	7863

Average of 6.888 to 6.894 min.: Z62669.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.90	1760	95.00	161024	112.80	248	129.10	86
82.85	301	96.00	12651	114.70	54	129.85	567
85.80	76	96.90	409	115.10	108	130.75	199
86.95	7574	97.10	252	115.90	706	131.00	119
87.95	6475	103.90	1118	116.85	1017	134.85	404
88.70	115	104.90	325	117.85	1164	136.10	53
90.80	572	105.85	1082	118.85	1023	136.85	264
91.10	678	106.70	76	125.80	64	139.95	249
92.00	4945	109.80	208	127.80	701	140.85	1854
92.95	7872	110.85	103	128.40	63	142.05	186
94.00	21131	111.60	66	128.85	246	142.85	2047

Average of 6.888 to 6.894 min.: Z62669.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
143.90	186	157.80	91	178.00	56		
144.85	337	158.05	153	191.00	66		
145.80	350	158.95	244	208.00	55		
147.85	365	160.90	89	281.10	86		
148.90	337	171.75	377				
149.85	175	172.90	876				
152.80	155	173.90	138752				
154.85	300	174.90	9979				
155.90	210	175.90	137488				
156.75	348	176.90	8970				
157.10	72	177.80	197				

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61438.D  
 Acq On : 18 Sep 2020 8:59 am  
 Operator : manager  
 Sample : ic2365-1 Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 10:58:45 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 18 12:33:03 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.337	96	261236	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	202163	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	116570	5.44	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	108.80%	
19) Toluene-d8	8.892	98	218200	5.20	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	104.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.901	62	2083	0.10	ug/L	93
3) Chloromethane	2.799	50	7435	0.21	ug/L	90
4) 1,1-Dichloroethene	4.092	61	2731	0.09	ug/L	98
5) Methylene Chloride	4.699	49	20345	0.36	ug/L	98
6) trans-1,2-Dichloroethene	4.865	61	3398	0.09	ug/L	99
7) 1,1-Dichloroethane	5.506	63	4113	0.10	ug/L	92
8) cis-1,2-Dichloroethene	6.065	96	1999	0.10	ug/L	96
9) Chloroform	6.326	83	4005	0.11	ug/L	86
10) Carbon Tetrachloride	6.504	117	2341	0.09	ug/L	98
11) 1,1,1-Trichloroethane	6.574	97	2520	0.08	ug/L	97
12) Benzene	6.931	78	6565	0.09	ug/L	99
14) 1,2-Dichloroethane	7.130	62	3299	0.10	ug/L	96
15) Trichloroethene	7.513	95	2001	0.09	ug/L	93
16) 1,2-Dichloropropane	8.036	63	2172	0.09	ug/L	96
17) cis-1,3-Dichloropropene	8.707	75	1804	0.09	ug/L	99
20) trans-1,3-Dichloropropene	9.341	75	1693	0.07	ug/L	100
21) Tetrachloroethene	9.341	166	1788	0.09	ug/L	86
22) 1,4-Dichlorobenzene	12.824	146	3287	0.08	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.035	75	966	0.12	ug/L #	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

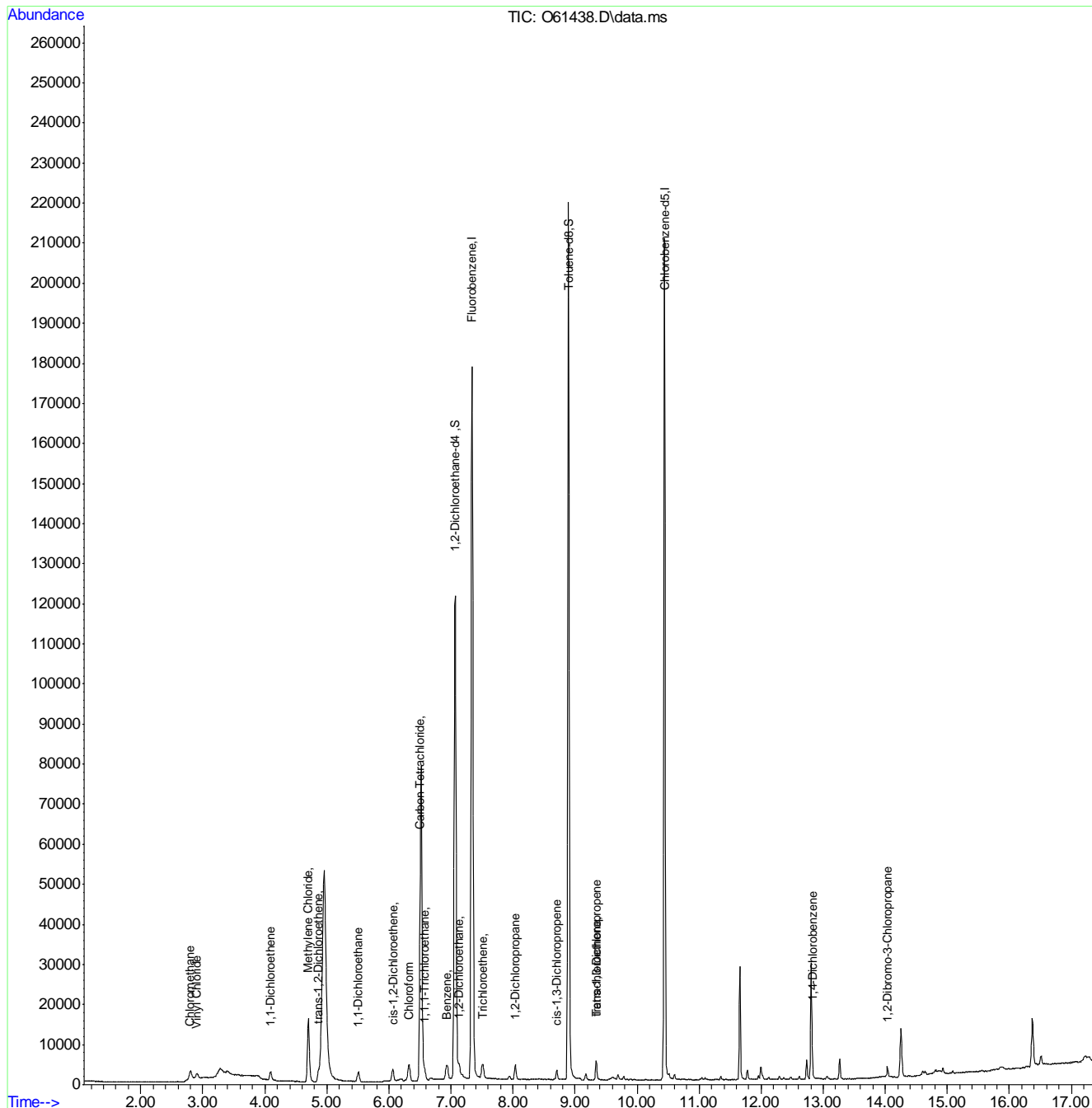
7.6.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61438.D  
 Acq On : 18 Sep 2020 8:59 am  
 Operator : manager  
 Sample : ic2365-1  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 21 10:58:45 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 18 12:33:03 2020  
 Response via : Initial Calibration



7  
197

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61439.D  
 Acq On : 18 Sep 2020 9:19 am  
 Operator : manager  
 Sample : ic2365-2 Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 11:15:13 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.344	96	252171	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	194840	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	113152	5.33	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	106.60%	
19) Toluene-d8	8.896	98	210430	5.29	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	105.80%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.908	62	11644	0.35	ug/L	100
3) Chloromethane	2.810	50	20323	0.41	ug/L	97
4) 1,1-Dichloroethene	4.096	61	15033	0.40	ug/L	96
5) Methylene Chloride	4.707	49	36456	0.51	ug/L	95
6) trans-1,2-Dichloroethene	4.873	61	18800	0.44	ug/L	98
7) 1,1-Dichloroethane	5.514	63	20598	0.42	ug/L	99
8) cis-1,2-Dichloroethene	6.071	96	9414	0.42	ug/L	95
9) Chloroform	6.332	83	18583	0.45	ug/L	100
10) Carbon Tetrachloride	6.510	117	12911	0.45	ug/L	99
11) 1,1,1-Trichloroethane	6.580	97	13989	0.43	ug/L	99
12) Benzene	6.939	78	32370	0.42	ug/L	99
14) 1,2-Dichloroethane	7.138	62	16414	0.43	ug/L	97
15) Trichloroethene	7.513	95	9833	0.42	ug/L	97
16) 1,2-Dichloropropane	8.043	63	10856	0.42	ug/L	96
17) cis-1,3-Dichloropropene	8.711	75	9449	0.40	ug/L	94
20) trans-1,3-Dichloropropene	9.346	75	8839	0.40	ug/L	95
21) Tetrachloroethene	9.341	166	9884	0.44	ug/L	95
22) 1,4-Dichlorobenzene	12.824	146	16845	0.40	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.035	75	3203	0.43	ug/L	97

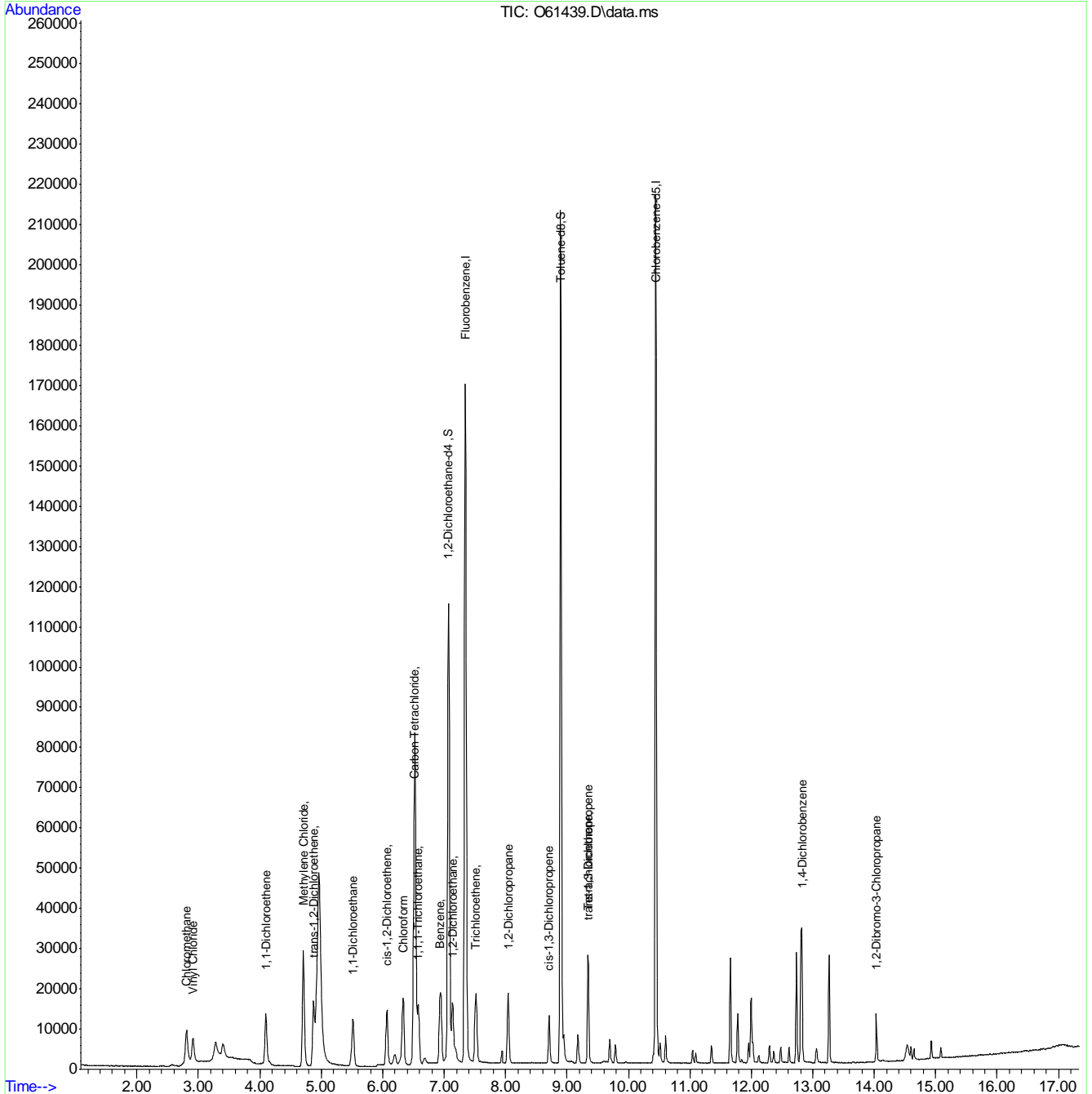
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61439.D  
 Acq On : 18 Sep 2020 9:19 am  
 Operator : manager  
 Sample : ic2365-2  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 18 11:15:13 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration



7.6.2  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61440.D  
 Acq On : 18 Sep 2020 9:39 am  
 Operator : manager  
 Sample : ic2365-3 Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 18 11:15:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.345	96	268141	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	209010	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	115751	5.12	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	102.40%	
19) Toluene-d8	8.896	98	216803	5.08	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	101.60%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.905	62	49935	1.44	ug/L	98
3) Chloromethane	2.799	50	72140	1.38	ug/L	99
4) 1,1-Dichloroethene	4.092	61	66773	1.66	ug/L	97
5) Methylene Chloride	4.700	49	117124	1.58	ug/L	96
6) trans-1,2-Dichloroethene	4.869	61	75666	1.65	ug/L	95
7) 1,1-Dichloroethane	5.510	63	89006	1.70	ug/L	99
8) cis-1,2-Dichloroethene	6.065	96	41201	1.75	ug/L	98
9) Chloroform	6.332	83	78619	1.77	ug/L	97
10) Carbon Tetrachloride	6.510	117	56528	1.85	ug/L	99
11) 1,1,1-Trichloroethane	6.580	97	64352	1.87	ug/L	97
12) Benzene	6.939	78	144210	1.74	ug/L	99
14) 1,2-Dichloroethane	7.138	62	71965	1.77	ug/L	95
15) Trichloroethene	7.513	95	42878	1.74	ug/L	96
16) 1,2-Dichloropropane	8.039	63	47054	1.71	ug/L	99
17) cis-1,3-Dichloropropene	8.707	75	42794	1.71	ug/L	95
20) trans-1,3-Dichloropropene	9.341	75	42016	1.77	ug/L	95
21) Tetrachloroethene	9.341	166	44410	1.86	ug/L	97
22) 1,4-Dichlorobenzene	12.824	146	83651	1.83	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.035	75	14699	1.85	ug/L	99

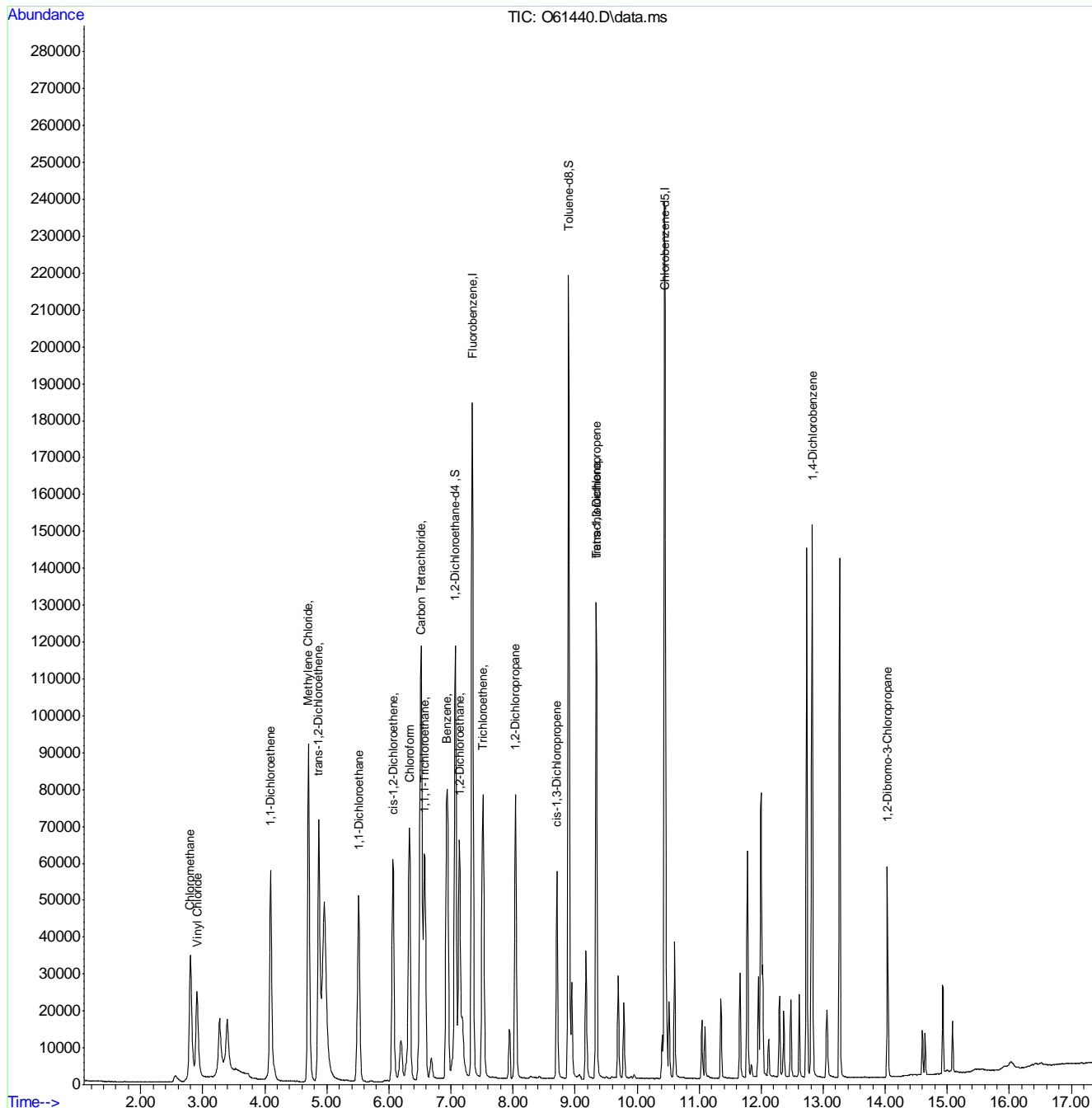
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61440.D  
 Acq On : 18 Sep 2020 9:39 am  
 Operator : manager  
 Sample : ic2365-3  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 18 11:15:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61441.D  
 Acq On : 18 Sep 2020 9:59 am  
 Operator : manager  
 Sample : ic2365-4 Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 11:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.344	96	294808	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.442	117	237988	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	116529	4.69	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	93.80%	
19) Toluene-d8	8.896	98	239015	4.92	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.40%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.901	62	120675	3.25	ug/L	98
3) Chloromethane	2.795	50	176395	3.17	ug/L	100
4) 1,1-Dichloroethene	4.085	61	171754	3.89	ug/L	97
5) Methylene Chloride	4.699	49	275783	3.49	ug/L	94
6) trans-1,2-Dichloroethene	4.865	61	194812	3.86	ug/L	97
7) 1,1-Dichloroethane	5.510	63	230378	4.01	ug/L	99
8) cis-1,2-Dichloroethene	6.065	96	109559	4.22	ug/L	96
9) Chloroform	6.325	83	203003	4.17	ug/L	98
10) Carbon Tetrachloride	6.503	117	145473	4.34	ug/L	99
11) 1,1,1-Trichloroethane	6.573	97	157017	4.14	ug/L	98
12) Benzene	6.939	78	384822	4.23	ug/L	99
14) 1,2-Dichloroethane	7.138	62	188429	4.21	ug/L	96
15) Trichloroethene	7.513	95	115676	4.26	ug/L	96
16) 1,2-Dichloropropane	8.039	63	125456	4.14	ug/L	100
17) cis-1,3-Dichloropropene	8.707	75	121235	4.41	ug/L	96
20) trans-1,3-Dichloropropene	9.344	75	121382	4.48	ug/L	94
21) Tetrachloroethene	9.338	166	115720	4.25	ug/L	99
22) 1,4-Dichlorobenzene	12.822	146	233075	4.48	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.032	75	41267	4.56	ug/L	90

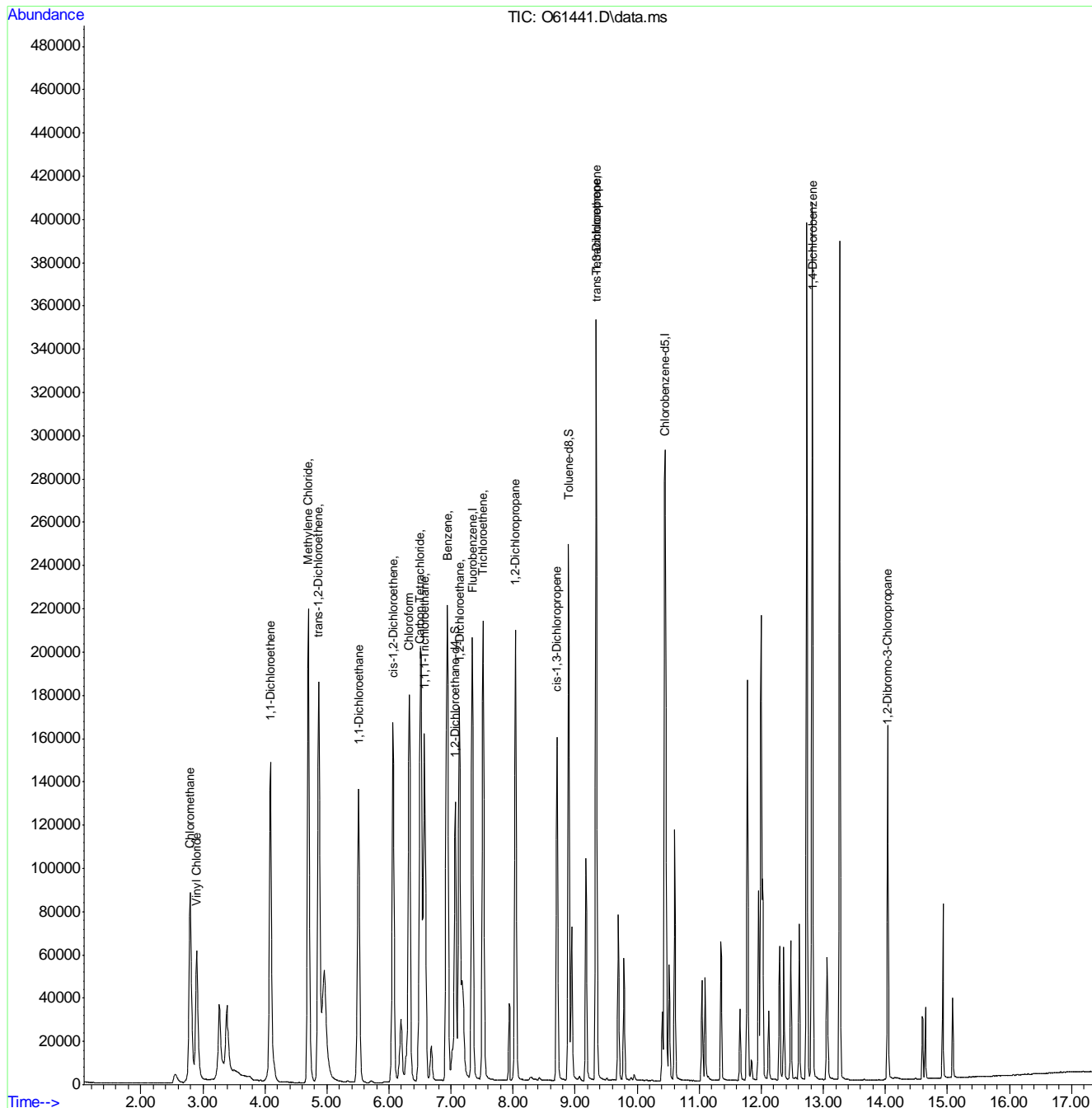
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61441.D  
 Acq On : 18 Sep 2020 9:59 am  
 Operator : manager  
 Sample : ic2365-4  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 18 11:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration



7.6.4  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61442.D  
 Acq On : 18 Sep 2020 10:20 am  
 Operator : manager  
 Sample : icc2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 18 13:28:13 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 18 12:33:03 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.344	96	317479	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	262197	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	124374	4.78	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	95.60%	
19) Toluene-d8	8.896	98	261566	4.81	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	96.20%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.904	62	258010	9.83	ug/L	100
3) Chloromethane	2.799	50	368949	9.84	ug/L	100
4) 1,1-Dichloroethene	4.089	61	403552	10.70	ug/L	100
5) Methylene Chloride	4.699	49	594962	9.66	ug/L	100
6) trans-1,2-Dichloroethene	4.865	61	465324	10.43	ug/L	100
7) 1,1-Dichloroethane	5.506	63	538909	10.44	ug/L	100
8) cis-1,2-Dichloroethene	6.065	96	267602	10.63	ug/L	100
9) Chloroform	6.326	83	473177	10.23	ug/L	100
10) Carbon Tetrachloride	6.504	117	349387	10.76	ug/L	100
11) 1,1,1-Trichloroethane	6.573	97	396800	10.91	ug/L	100
12) Benzene	6.939	78	927336	10.31	ug/L	100
14) 1,2-Dichloroethane	7.138	62	433891	10.38	ug/L	100
15) Trichloroethene	7.513	95	279983	10.77	ug/L	100
16) 1,2-Dichloropropane	8.039	63	295419	10.58	ug/L	100
17) cis-1,3-Dichloropropene	8.711	75	305456	10.40	ug/L	100
20) trans-1,3-Dichloropropene	9.341	75	303355	9.80	ug/L	100
21) Tetrachloroethene	9.341	166	276313	10.48	ug/L	100
22) 1,4-Dichlorobenzene	12.824	146	571165	10.33	ug/L	100
23) 1,2-Dibromo-3-Chloropr...	14.035	75	100354	9.98	ug/L	100

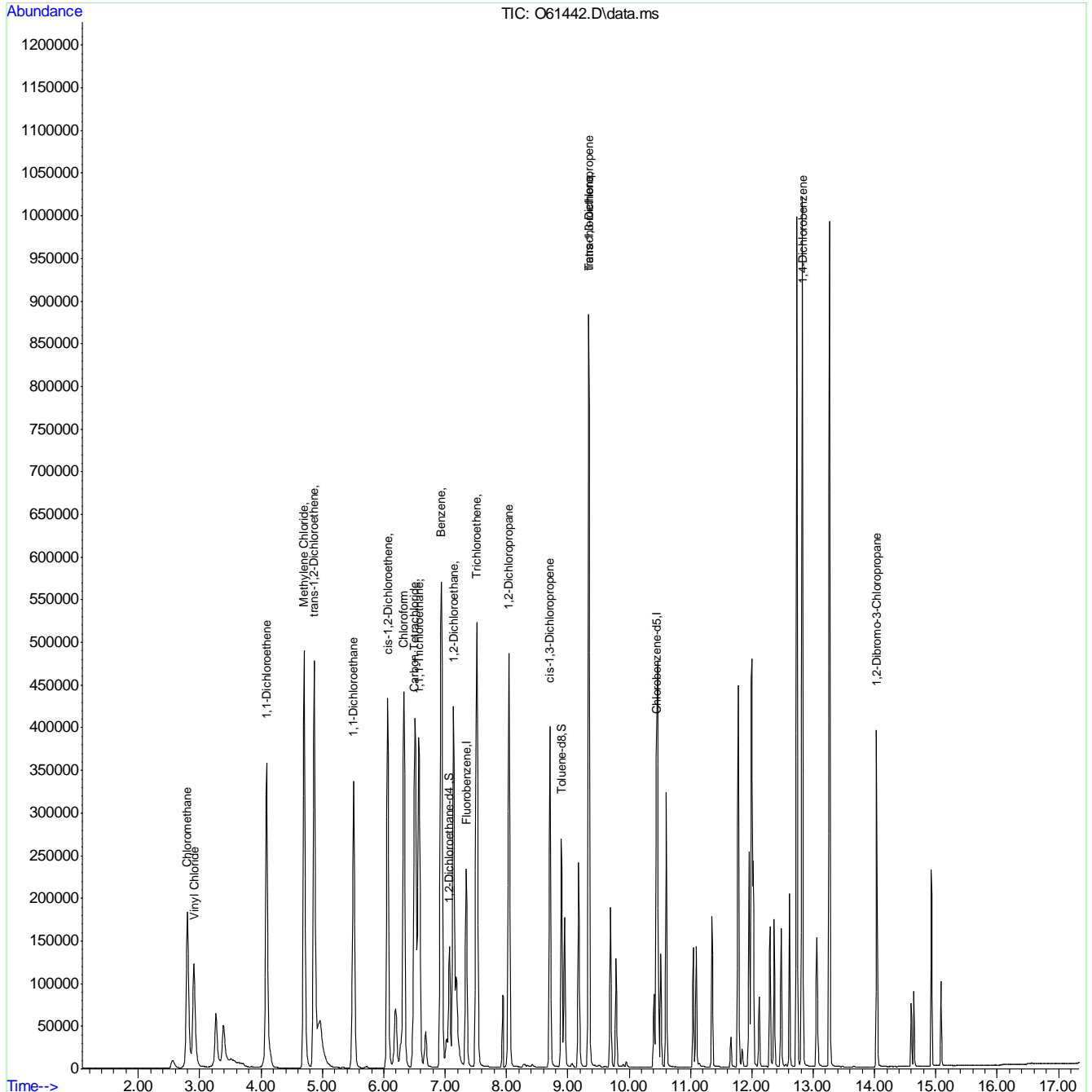
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61442.D  
 Acq On : 18 Sep 2020 10:20 am  
 Operator : manager  
 Sample : icc2365-5  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 18 13:28:13 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 18 12:33:03 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61443.D  
 Acq On : 18 Sep 2020 10:40 am  
 Operator : manager  
 Sample : ic2365-6 Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 11:15:21 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.344	96	349600	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.444	117	284296	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.069	65	133006	4.52	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	90.40%		
19) Toluene-d8	8.896	98	289639	4.99	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	408210	10.18	ug/L		99
3) Chloromethane	2.799	50	573827	9.85	ug/L		100
4) 1,1-Dichloroethene	4.085	61	628074	11.99	ug/L		96
5) Methylene Chloride	4.696	49	942585	11.72	ug/L		95
6) trans-1,2-Dichloroethene	4.865	61	748951	12.53	ug/L		95
7) 1,1-Dichloroethane	5.506	63	860860	12.63	ug/L		99
8) cis-1,2-Dichloroethene	6.065	96	440975	14.33	ug/L		96
9) Chloroform	6.332	83	755124	13.07	ug/L		95
10) Carbon Tetrachloride	6.504	117	546583	13.74	ug/L		100
11) 1,1,1-Trichloroethane	6.573	97	633035	14.07	ug/L		96
12) Benzene	6.939	78	1489877	13.80	ug/L		99
14) 1,2-Dichloroethane	7.138	62	706014	13.29	ug/L		95
15) Trichloroethene	7.513	95	448714	13.94	ug/L		96
16) 1,2-Dichloropropane	8.039	63	476629	13.25	ug/L		96
17) cis-1,3-Dichloropropene	8.711	75	519158	15.91	ug/L		90
20) trans-1,3-Dichloropropene	9.341	75	514875	15.92	ug/L		93
21) Tetrachloroethene	9.341	166	430942	13.24	ug/L		98
22) 1,4-Dichlorobenzene	12.824	146	935228	15.06	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.035	75	172288	15.94	ug/L		91

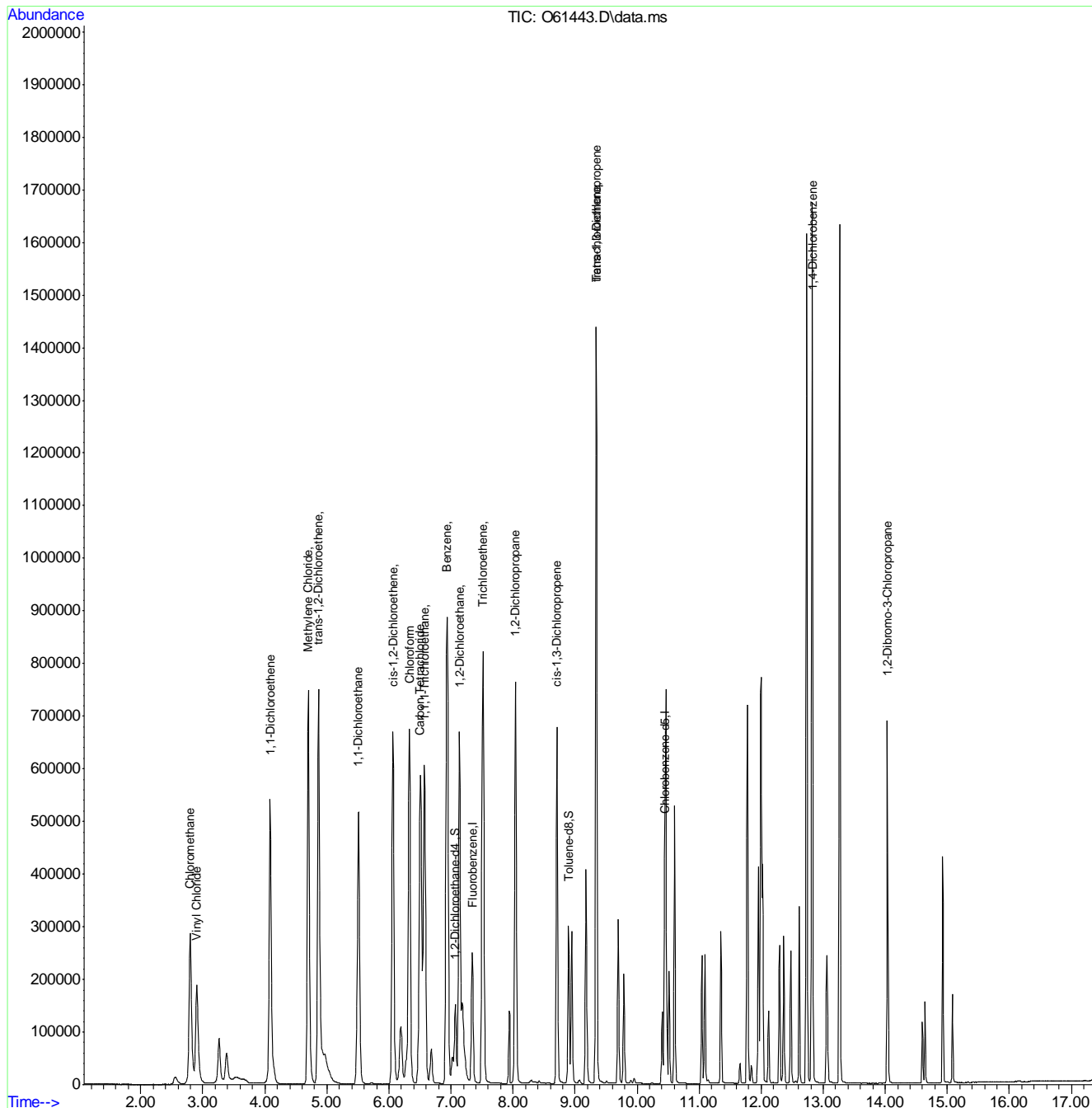
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61443.D  
 Acq On : 18 Sep 2020 10:40 am  
 Operator : manager  
 Sample : ic2365-6  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 18 11:15:21 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration



9'9'7  
 7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61444.D  
 Acq On : 18 Sep 2020 11:00 am  
 Operator : manager  
 Sample : ic2365-7 Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:18:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.345	96	378436	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	303929	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	142322	4.46	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	89.20%	
19) Toluene-d8	8.896	98	316353	5.10	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	102.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.905	62	549351	13.23	ug/L	99
3) Chloromethane	2.803	50	759194	12.80	ug/L	99
4) 1,1-Dichloroethene	4.089	61	906550	15.99	ug/L	96
5) Methylene Chloride	4.703	49	1296523	16.47	ug/L	91
6) trans-1,2-Dichloroethene	4.869	61	1075792	16.62	ug/L	95
7) 1,1-Dichloroethane	5.510	63	1223744	16.59	ug/L	99
8) cis-1,2-Dichloroethene	6.065	96	636570	19.12	ug/L	97
9) Chloroform	6.332	83	1072728	17.15	ug/L	95
10) Carbon Tetrachloride	6.510	117	798020	18.53	ug/L	99
11) 1,1,1-Trichloroethane	6.574	97	922417	18.95	ug/L	96
12) Benzene	6.939	78	2138246	18.29	ug/L	100
14) 1,2-Dichloroethane	7.138	62	996784	17.34	ug/L	95
15) Trichloroethene	7.513	95	652438	18.72	ug/L	99
16) 1,2-Dichloropropane	8.043	63	678346	17.42	ug/L	95
17) cis-1,3-Dichloropropene	8.711	75	768754	21.77	ug/L	91
20) trans-1,3-Dichloropropene	9.341	75	752317	21.75	ug/L	92
21) Tetrachloroethene	9.341	166	630648	18.12	ug/L	99
22) 1,4-Dichlorobenzene	12.824	146	1345441	20.27	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.035	75	238266	20.62	ug/L	92

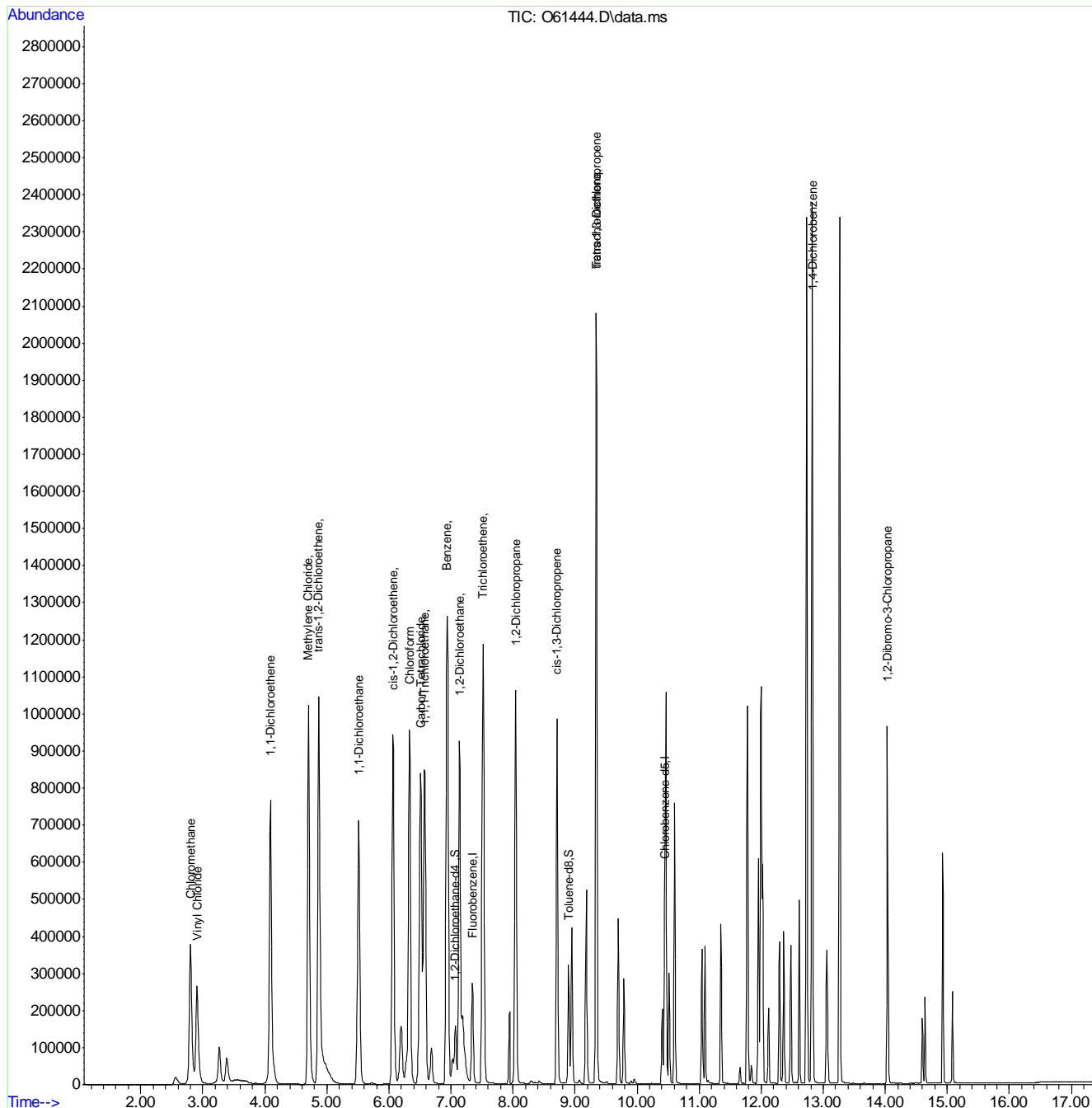
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61444.D  
 Acq On : 18 Sep 2020 11:00 am  
 Operator : manager  
 Sample : ic2365-7  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 18 11:18:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration



7.6.7  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61449.D  
 Acq On : 18 Sep 2020 1:45 pm  
 Operator : manager  
 Sample : icv2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 21 11:02:09 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.345	96	345404	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.444	117	280094	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.069	65	132346	4.67	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	93.40%		
19) Toluene-d8	8.896	98	287603	4.95	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.916	62	278141	9.74	ug/L		100
3) Chloromethane	2.814	50	385205	9.38	ug/L		100
4) 1,1-Dichloroethene	4.092	61	453054	11.04	ug/L		98
5) Methylene Chloride	4.707	49	649105	9.69	ug/L		99
6) trans-1,2-Dichloroethene	4.873	61	515172	10.61	ug/L		99
7) 1,1-Dichloroethane	5.514	63	601290	10.70	ug/L		100
8) cis-1,2-Dichloroethene	6.071	96	302659	11.06	ug/L		99
9) Chloroform	6.332	83	518250	10.30	ug/L		99
10) Carbon Tetrachloride	6.510	117	388731	11.01	ug/L		99
11) 1,1,1-Trichloroethane	6.580	97	437431	11.06	ug/L		99
12) Benzene	6.939	78	1068476	10.92	ug/L		98
14) 1,2-Dichloroethane	7.138	62	491591	10.81	ug/L		99
15) Trichloroethene	7.513	95	320798	11.35	ug/L		100
16) 1,2-Dichloropropane	8.039	63	339084	11.16	ug/L		99
17) cis-1,3-Dichloropropene	8.707	75	364460	11.29	ug/L		99
20) trans-1,3-Dichloropropene	9.341	75	365164	11.05	ug/L		98
21) Tetrachloroethene	9.341	166	304680	10.82	ug/L		99
22) 1,4-Dichlorobenzene	12.824	146	650957	10.97	ug/L		100
23) 1,2-Dibromo-3-Chloropr...	14.035	75	117662	10.96	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

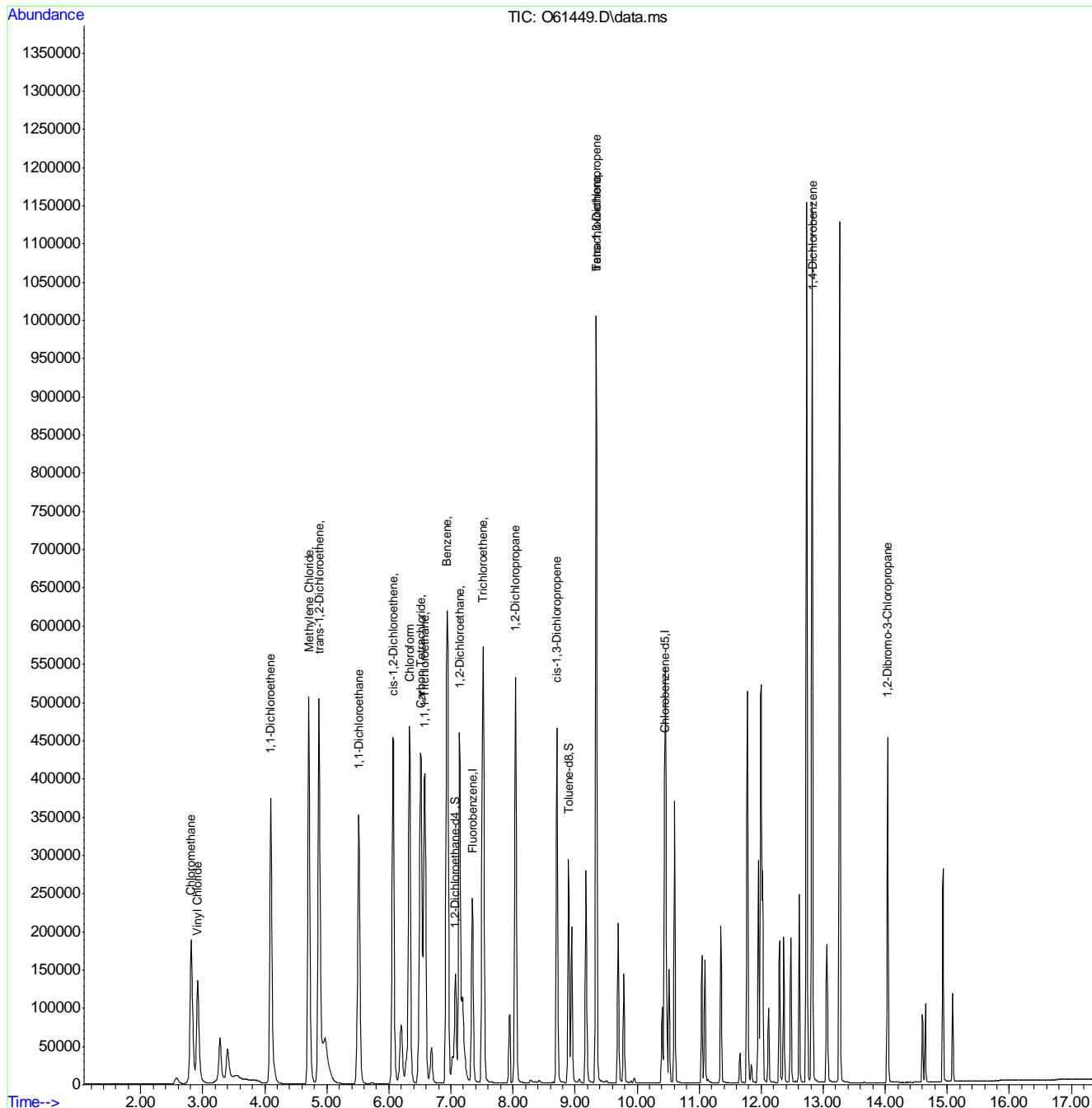
7.6.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091820\  
 Data File : O61449.D  
 Acq On : 18 Sep 2020 1:45 pm  
 Operator : manager  
 Sample : icv2365-5  
 Misc : MS47193,VO2365,,,,,  
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 21 11:02:09 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration



8'9'7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-30-2020\vo2367\  
 Data File : O61483.d  
 Acq On : 25 Sep 2020 12:51 pm  
 Operator : JuanG  
 Sample : cc2365-5  
 Misc : MS47193,VO2367,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 05:27:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.344	96	313062	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.444	117	267652	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.069	65	124840	4.86	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	97.20%		
19) Toluene-d8	8.896	98	259895	4.68	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	93.60%		
Target Compounds							Qvalue
2) Vinyl Chloride	2.908	62	269597	10.42	ug/L	100	
3) Chloromethane	2.806	50	372709	10.13	ug/L	100	
4) 1,1-Dichloroethene	4.088	61	383587	10.32	ug/L	98	
5) Methylene Chloride	4.699	49	581291	9.56	ug/L	97	
6) trans-1,2-Dichloroethene	4.865	61	443833	10.09	ug/L	99	
7) 1,1-Dichloroethane	5.506	63	512637	10.07	ug/L	100	
8) cis-1,2-Dichloroethene	6.065	96	250008	10.08	ug/L	100	
9) Chloroform	6.325	83	445039	9.76	ug/L	100	
10) Carbon Tetrachloride	6.503	117	332839	10.40	ug/L	99	
11) 1,1,1-Trichloroethane	6.573	97	375177	10.47	ug/L	99	
12) Benzene	6.939	78	867613	9.78	ug/L	100	
14) 1,2-Dichloroethane	7.138	62	410000	9.95	ug/L	99	
15) Trichloroethene	7.513	95	263038	10.26	ug/L	97	
16) 1,2-Dichloropropane	8.039	63	277846	10.09	ug/L	99	
17) cis-1,3-Dichloropropene	8.707	75	283101	9.84	ug/L	96	
20) trans-1,3-Dichloropropene	9.340	75	281773	8.92	ug/L	99	
21) Tetrachloroethene	9.340	166	261247	9.71	ug/L	96	
22) 1,4-Dichlorobenzene	12.824	146	542909	9.66	ug/L	99	
23) 1,2-Dibromo-3-Chloropr...	14.035	75	94453	9.20	ug/L	100	

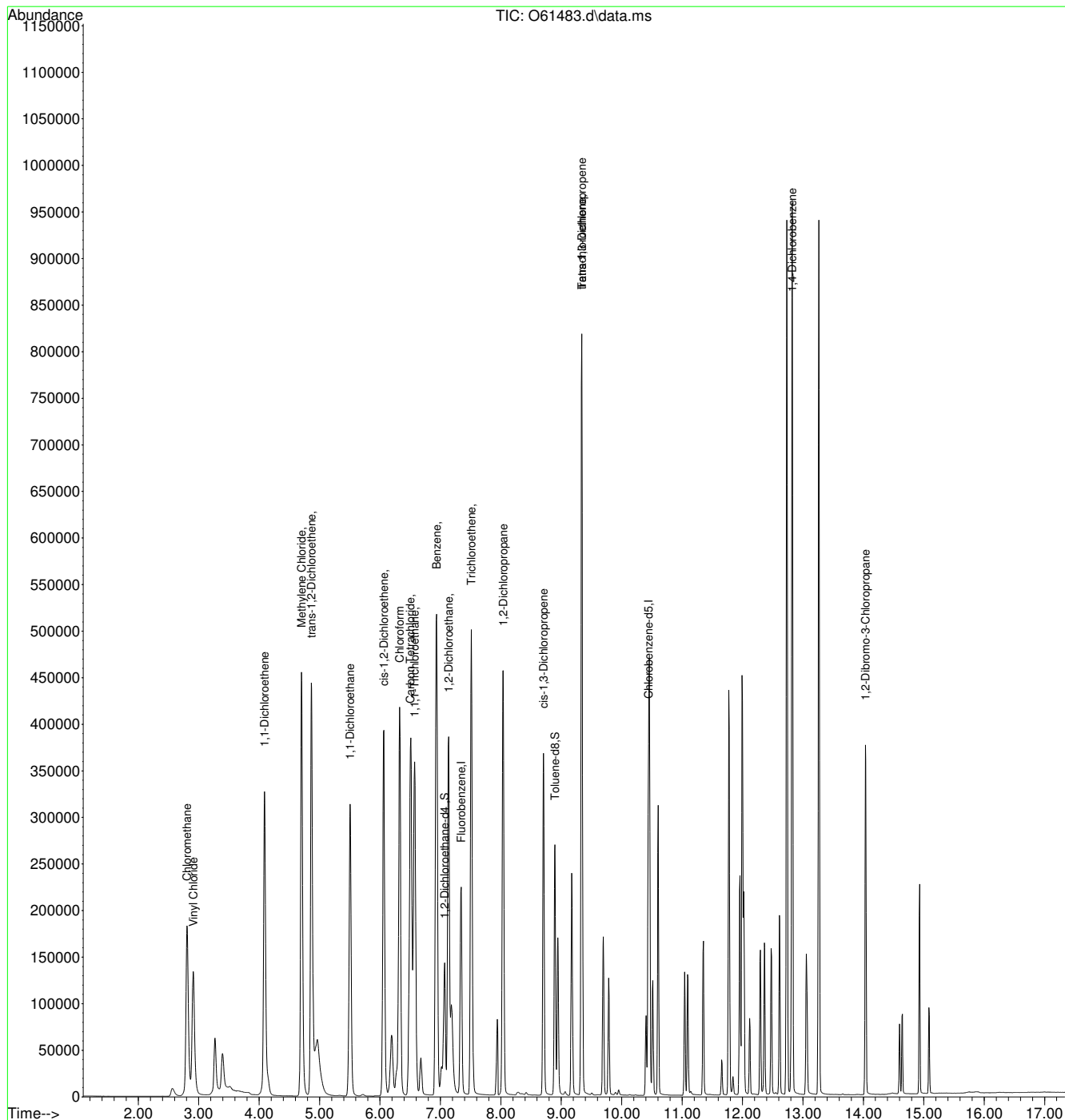
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-30-2020\vo2367\  
 Data File : O61483.d  
 Acq On : 25 Sep 2020 12:51 pm  
 Operator : JuanG  
 Sample : cc2365-5  
 Misc : MS47193,VO2367,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 05:27:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration



6.9.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-30-2020\vo2367\  
 Data File : O61504.d  
 Acq On : 25 Sep 2020 9:45 pm  
 Operator : JuanG  
 Sample : ecc2365  
 Misc : MS47304,VO2367,,,,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 30 05:28:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.345	96	262795	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.444	117	227944	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.069	65	109574	5.08	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	101.60%		
19) Toluene-d8	8.896	98	207088	4.38	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	87.60%#		
Target Compounds							Qvalue
2) Vinyl Chloride	2.905	62	261720	12.05	ug/L	100	
3) Chloromethane	2.803	50	369029	12.37	ug/L	100	
4) 1,1-Dichloroethene	4.089	61	367015	11.76	ug/L	99	
5) Methylene Chloride	4.700	49	553326	11.05	ug/L	94	
6) trans-1,2-Dichloroethene	4.865	61	411910	11.15	ug/L	97	
7) 1,1-Dichloroethane	5.510	63	478316	11.19	ug/L	100	
8) cis-1,2-Dichloroethene	6.065	96	221496	10.63	ug/L	96	
9) Chloroform	6.332	83	417307	10.90	ug/L	99	
10) Carbon Tetrachloride	6.510	117	312502	11.63	ug/L	98	
11) 1,1,1-Trichloroethane	6.574	97	351811	11.69	ug/L	98	
12) Benzene	6.939	78	788070	10.58	ug/L	96	
14) 1,2-Dichloroethane	7.138	62	387240	11.19	ug/L	98	
15) Trichloroethene	7.513	95	243669	11.33	ug/L	98	
16) 1,2-Dichloropropane	8.039	63	252679	10.93	ug/L	97	
17) cis-1,3-Dichloropropene	8.711	75	229465	9.54	ug/L	97	
20) trans-1,3-Dichloropropene	9.341	75	237805	8.84	ug/L	96	
21) Tetrachloroethene	9.341	166	246734	10.77	ug/L	98	
22) 1,4-Dichlorobenzene	12.824	146	504089	10.47	ug/L	99	
23) 1,2-Dibromo-3-Chloropr...	14.035	75	77660	8.89	ug/L	98	

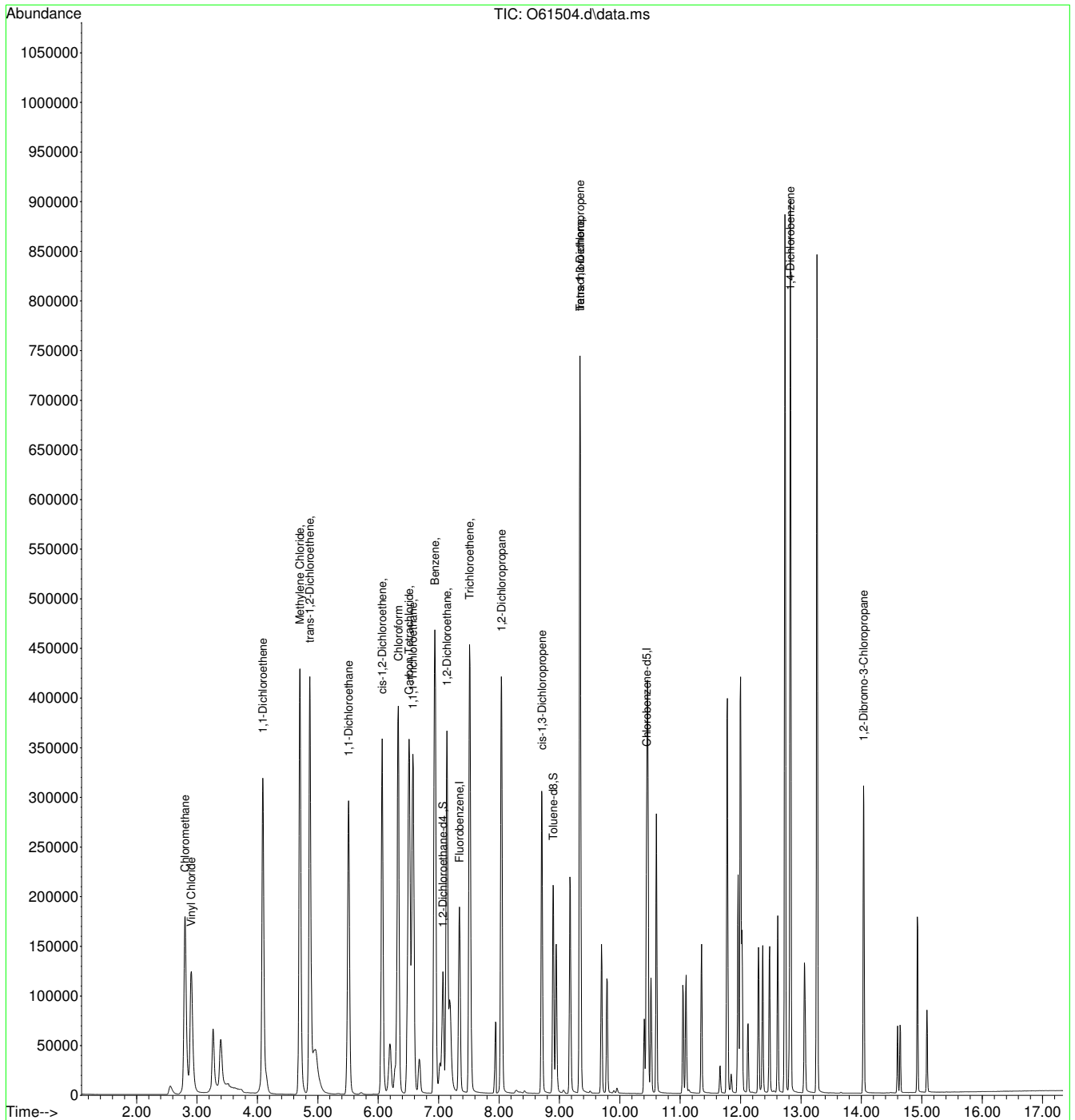
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-30-2020\vo2367\  
 Data File : O61504.d  
 Acq On : 25 Sep 2020 9:45 pm  
 Operator : JuanG  
 Sample : ecc2365  
 Misc : MS47304,VO2367,,,,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 30 05:28:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration



7.6.10  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\OCTOBER 2020\10-02-2020\VO2368\  
 Data File : O61509.d  
 Acq On : 1 Oct 2020 10:30 am  
 Operator : akarig  
 Sample : cc2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2368,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Results File: SIMCL091820.RES  
 Quant Time: Oct 02 02:49:35 2020  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.337	96	337552	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.442	117	310019	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.061	65	137451	4.97	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.40%		
19) Toluene-d8	8.892	98	287199	4.47	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	89.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	313467	11.23	ug/L		99
3) Chloromethane	2.795	50	442224	11.36	ug/L		100
4) 1,1-Dichloroethene	4.085	61	397702	9.92	ug/L		99
5) Methylene Chloride	4.696	49	673006	10.38	ug/L		96
6) trans-1,2-Dichloroethene	4.862	61	445303	9.39	ug/L		99
7) 1,1-Dichloroethane	5.503	63	516059	9.40	ug/L		100
8) cis-1,2-Dichloroethene	6.059	96	252280	9.43	ug/L		97
9) Chloroform	6.326	83	452371	9.20	ug/L		99
10) Carbon Tetrachloride	6.504	117	333945	9.67	ug/L		99
11) 1,1,1-Trichloroethane	6.573	97	378456	9.79	ug/L		100
12) Benzene	6.931	78	866857	9.06	ug/L		95
14) 1,2-Dichloroethane	7.130	62	420343	9.46	ug/L		98
15) Trichloroethene	7.505	95	261442	9.46	ug/L		99
16) 1,2-Dichloropropane	8.036	63	279828	9.43	ug/L		99
17) cis-1,3-Dichloropropene	8.707	75	283109	9.20	ug/L		98
20) trans-1,3-Dichloropropene	9.338	75	284888	7.79	ug/L		99
21) Tetrachloroethene	9.338	166	265468	8.52	ug/L		97
22) 1,4-Dichlorobenzene	12.822	146	554990	8.58	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.032	75	99288	8.35	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

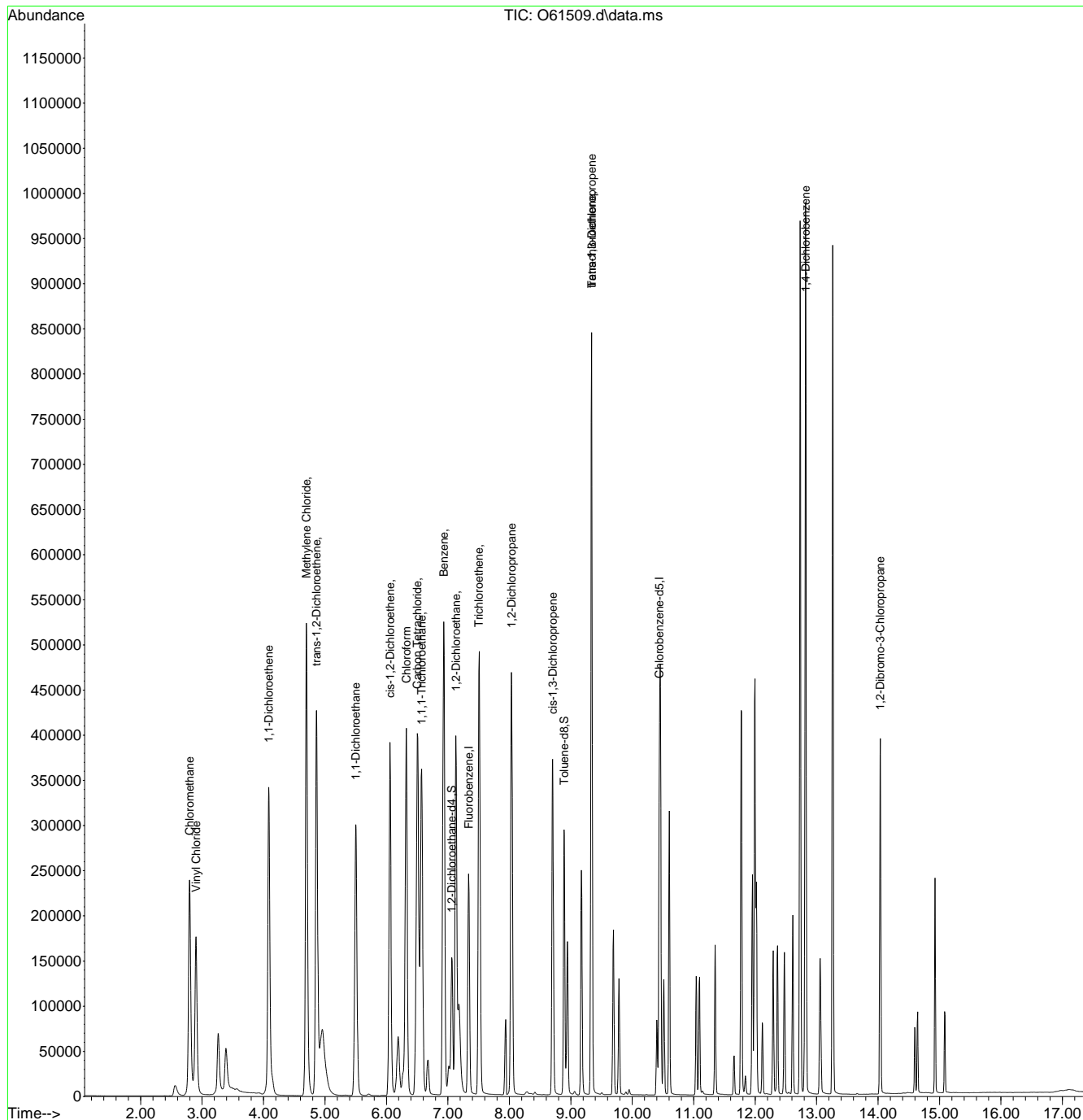
7.6.11  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\OCTOBER 2020\10-02-2020\VO2368\  
 Data File : O61509.d  
 Acq On : 1 Oct 2020 10:30 am  
 Operator : akarig  
 Sample : cc2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2368,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Results File: SIMCL091820.RES  
 Quant Time: Oct 02 02:49:35 2020  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration



7.6.11  
7





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\OCTOBER 2020\10-02-2020\VO2368\  
 Data File : O61531.d  
 Acq On : 1 Oct 2020 6:56 pm  
 Operator : akarig  
 Sample : ecc2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2368,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Results File: SIMCL091820.RES  
 Quant Time: Oct 02 02:50:31 2020  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.344	96	257630	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.444	117	229126	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.069	65	108282	5.13	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	102.60%		
19) Toluene-d8	8.896	98	204445	4.30	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	86.00%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	266800	12.53	ug/L		100
3) Chloromethane	2.791	50	392583	13.71	ug/L		100
4) 1,1-Dichloroethene	4.085	61	338337	11.06	ug/L		98
5) Methylene Chloride	4.696	49	606060	12.60	ug/L		94
6) trans-1,2-Dichloroethene	4.865	61	380523	10.51	ug/L		99
7) 1,1-Dichloroethane	5.506	63	444684	10.61	ug/L		100
8) cis-1,2-Dichloroethene	6.065	96	203021	9.94	ug/L		99
9) Chloroform	6.326	83	392112	10.45	ug/L		98
10) Carbon Tetrachloride	6.504	117	295450	11.21	ug/L		99
11) 1,1,1-Trichloroethane	6.573	97	314948	10.68	ug/L		99
12) Benzene	6.939	78	734396	10.06	ug/L		97
14) 1,2-Dichloroethane	7.138	62	367765	10.84	ug/L		99
15) Trichloroethene	7.513	95	225082	10.67	ug/L		96
16) 1,2-Dichloropropane	8.039	63	238375	10.52	ug/L		96
17) cis-1,3-Dichloropropene	8.707	75	213077	9.09	ug/L		93
20) trans-1,3-Dichloropropene	9.341	75	224093	8.29	ug/L		96
21) Tetrachloroethene	9.341	166	233408	10.14	ug/L		98
22) 1,4-Dichlorobenzene	12.824	146	489256	10.14	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.035	75	69813	7.95	ug/L		93

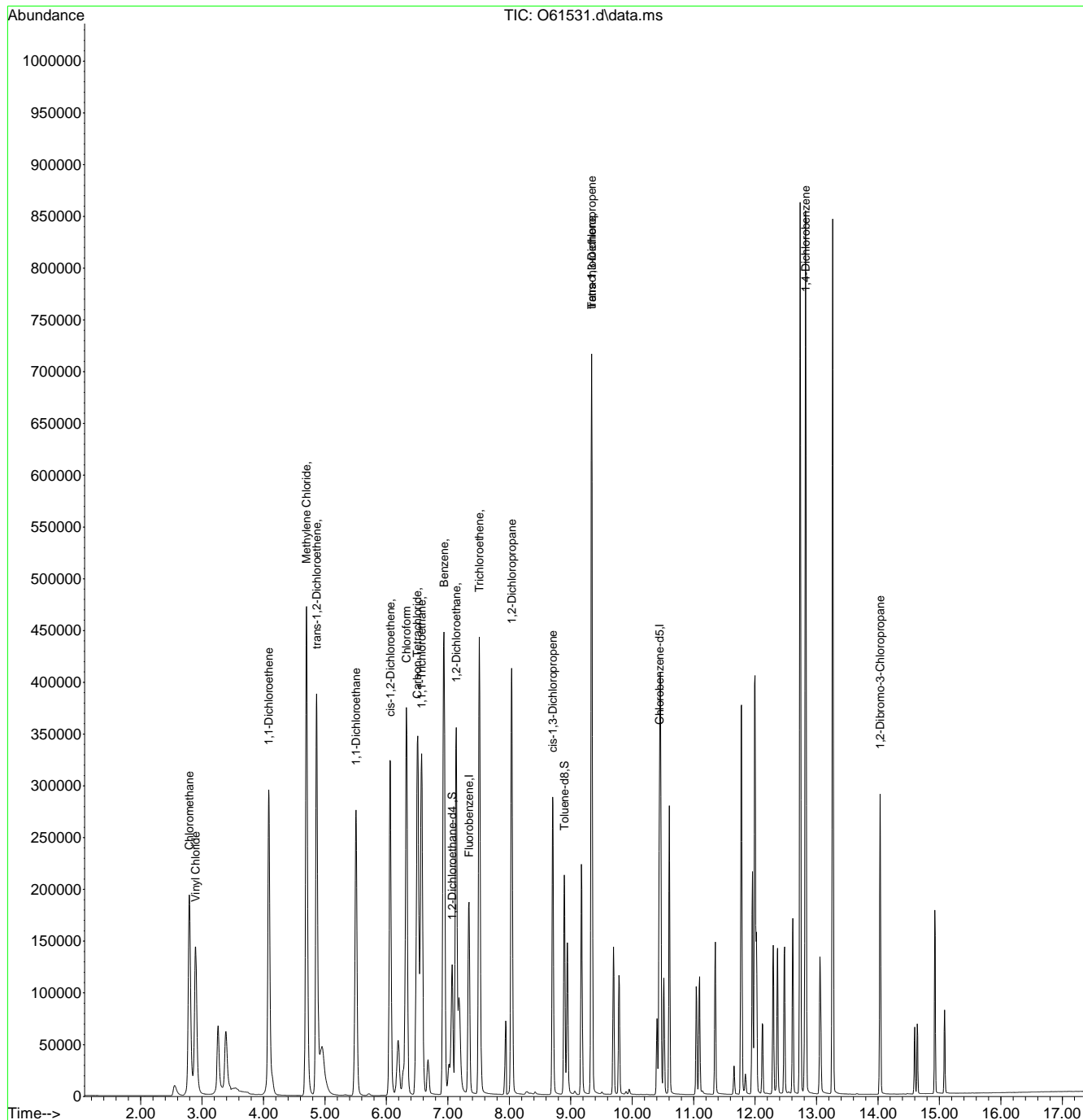
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7.6.12  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\OCTOBER 2020\10-02-2020\VO2368\  
 Data File : O61531.d  
 Acq On : 1 Oct 2020 6:56 pm  
 Operator : akarig  
 Sample : ecc2365-5 Inst : MSVOA12  
 Misc : MS47193,VO2368,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\SIMCL091820.M  
 Quant Results File: SIMCL091820.RES  
 Quant Time: Oct 02 02:50:31 2020  
 Quant Title : Standard Methods 6200B  
 QLast Update : Mon Sep 21 11:01:30 2020  
 Response via : Initial Calibration



7.6.12  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 12:48:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2225777	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2039325	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	717461	5.05	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	101.00%		
19) Toluene-d8	8.958	98	2310011	5.30	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	106.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.831	62	28258	0.10	ppb		99
3) Chloromethane	2.726	50	30914	0.13	ppb		98
4) 1,1-Dichloroethene	4.080	96	14291	0.09	ppb		96
5) Methylene Chloride	4.709	84	419797	1.36	ppb		99
6) trans-1,2-Dichloroethene	4.883	96	19172	0.09	ppb		96
7) 1,1-Dichloroethane	5.539	63	33176	0.10	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	21567	0.10	ppb		98
9) Chloroform	6.371	83	42647	0.10	ppb		99
10) Carbon Tetrachloride	6.543	117	18965	0.08	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	28789	0.09	ppb		91
12) Benzene	6.987	78	73128	0.10	ppb		96
14) 1,2-Dichloroethane	7.191	62	28033	0.10	ppb		98
15) Trichloroethene	7.564	95	20638	0.10	ppb		94
16) 1,2-Dichloropropane	8.101	63	18506m	0.10	ppb		
17) cis-1,3-Dichloropropene	8.773	75	14498	0.10	ppb		93
20) trans-1,3-Dichloropropene	9.412	75	9793	0.11	ppb		97
21) Tetrachloroethene	9.395	166	22239	0.10	ppb		98
-----							

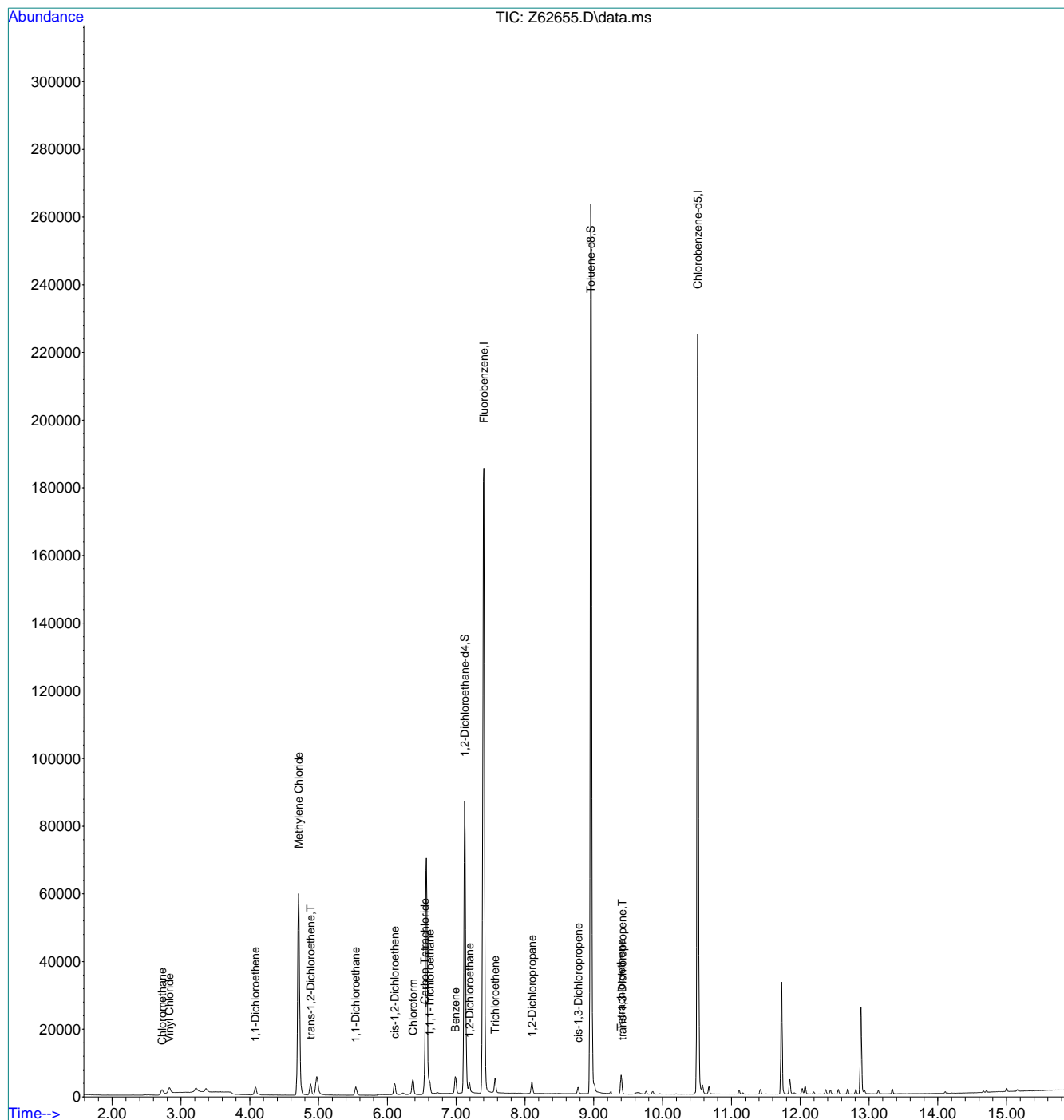
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7.6.13  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 12:48:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.13  
7



# Manual Integration Approval Summary

**Sample Number:** VZ2431-IC2431      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62655.D      **Analyst approved:** 10/05/20 20:33 Stuti Patel  
**Injection Time:** 10/01/20 10:01      **Supervisor approved:** 10/06/20 11:28 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichloropropane	78-87-5		8.10	Poor instrument integration

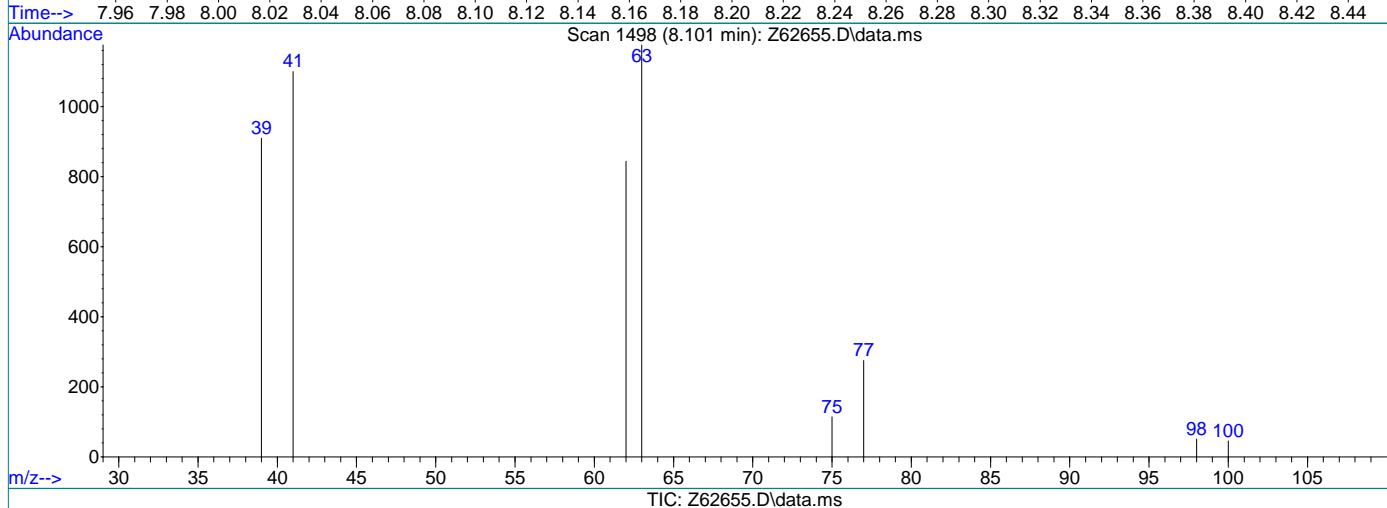
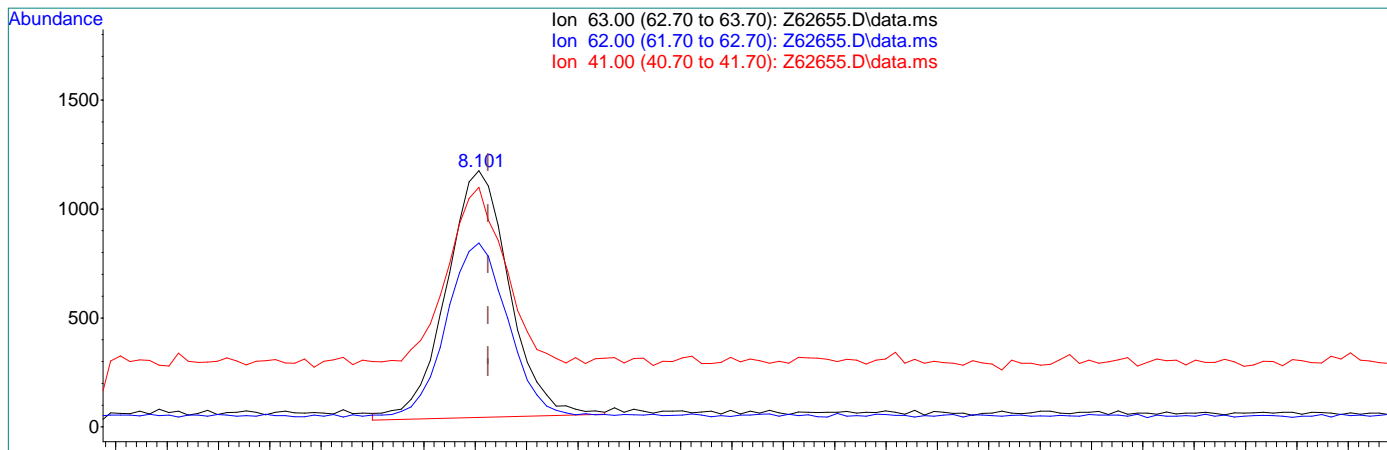
7.6.13.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 10:20:38 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane

8.101min (-0.004) 0.12ppb

response 19297

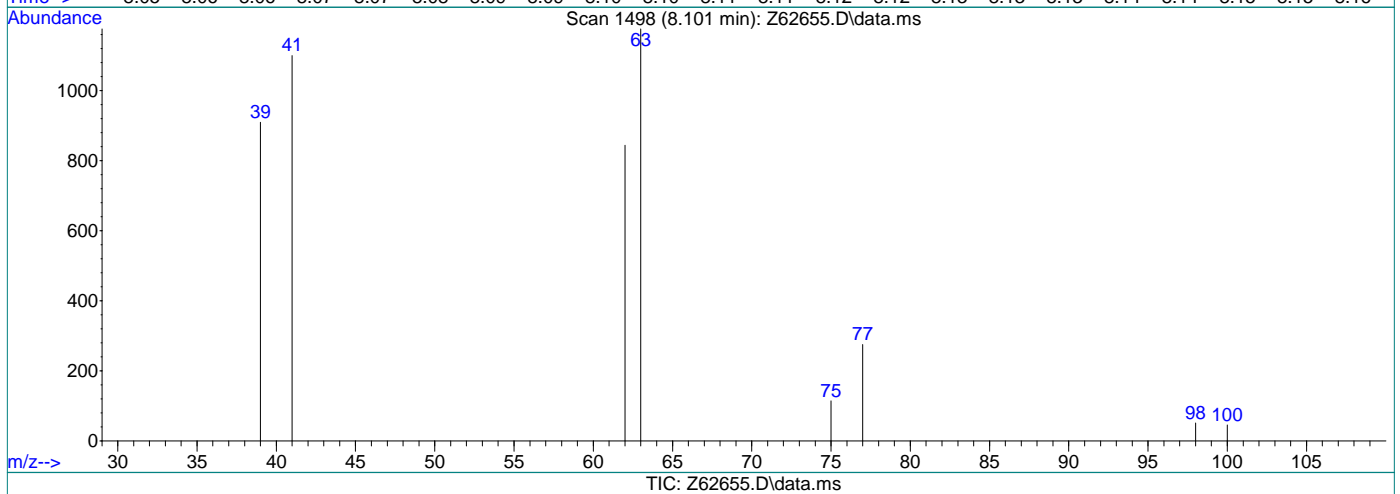
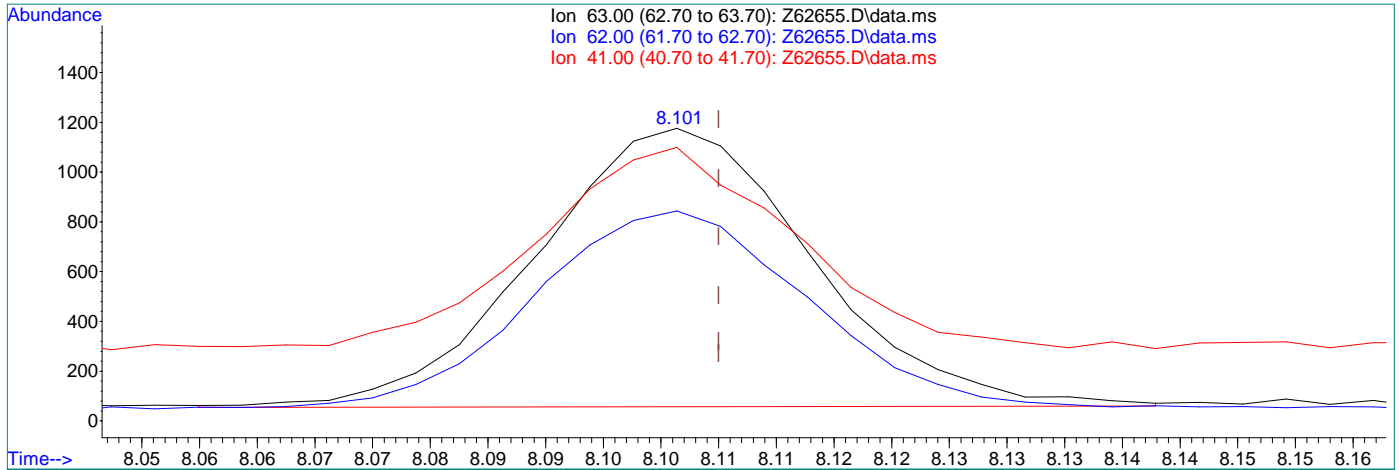
Ion	Exp%	Act%
63.00	100	100
62.00	71.60	69.96
41.00	73.70	63.96
0.00	0.00	0.00

7.6.13.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 10:20:38 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



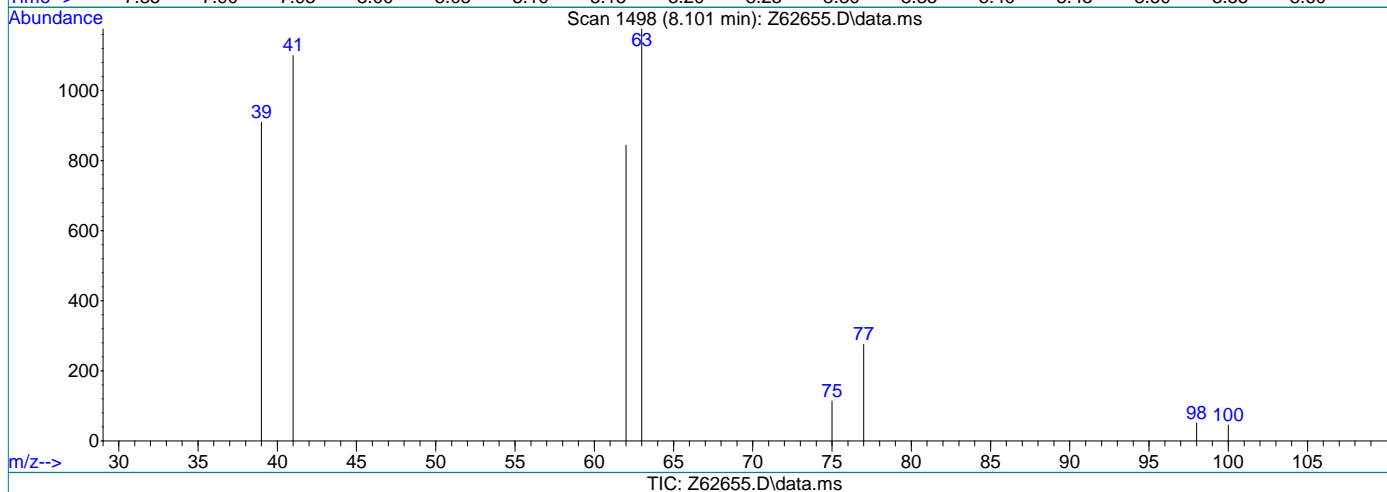
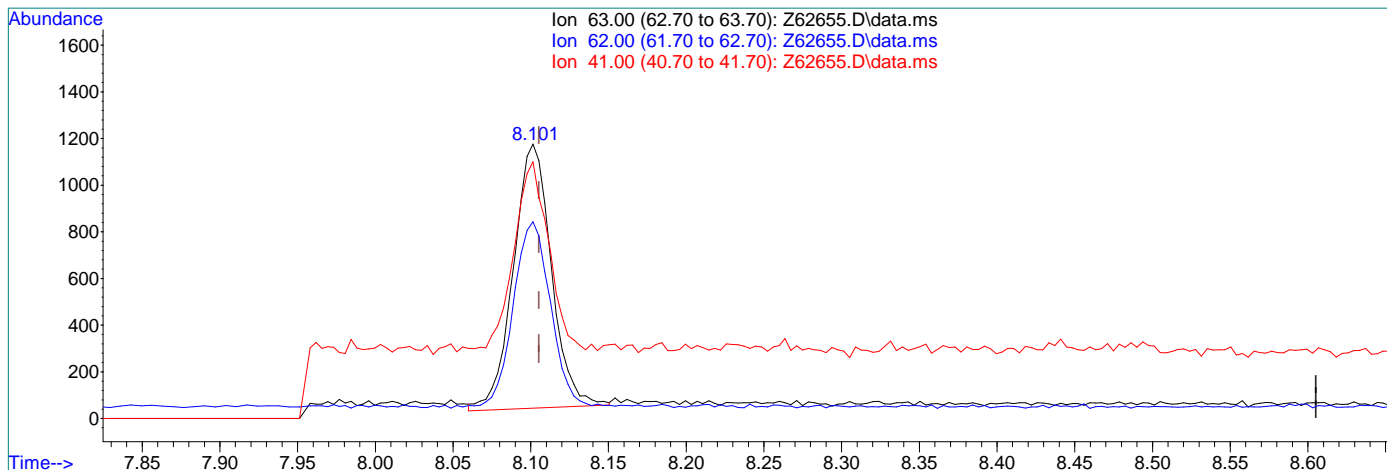
(16) 1,2-Dichloropropane  
 8.101min (-0.004) 0.12ppb m  
 response 18581

Ion	Exp%	Act%
63.00	100	100
62.00	71.60	72.65
41.00	73.70	66.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 12:47:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane

8.101min (-0.004) 0.10ppb

response 19297

Ion	Exp%	Act%
63.00	100	100
62.00	71.20	69.96
41.00	62.00	63.96
0.00	0.00	0.00

7.6.13.4  
7

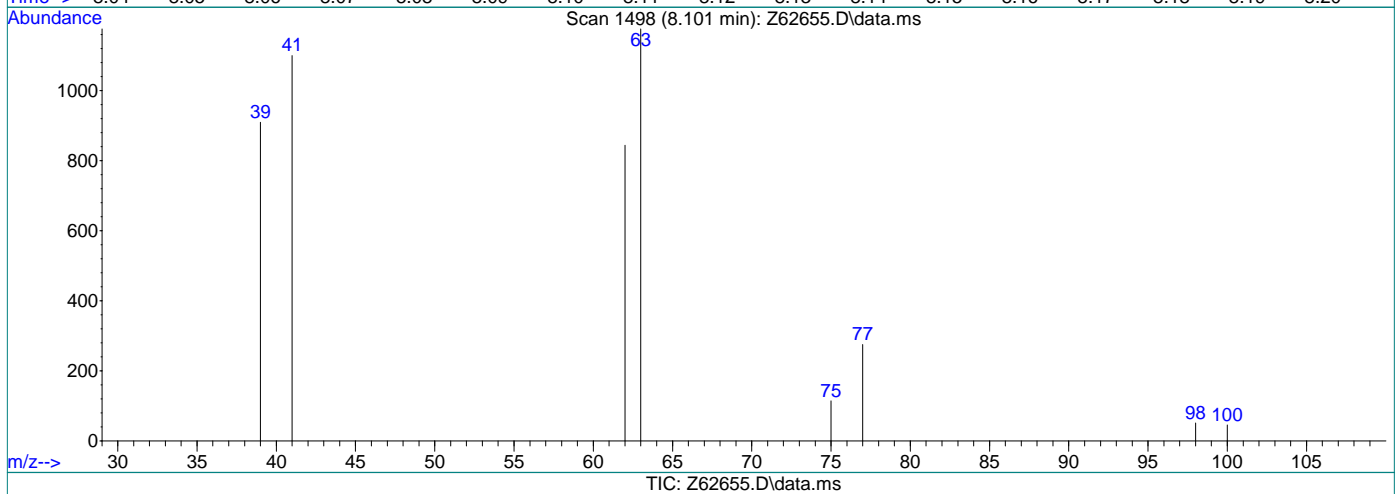
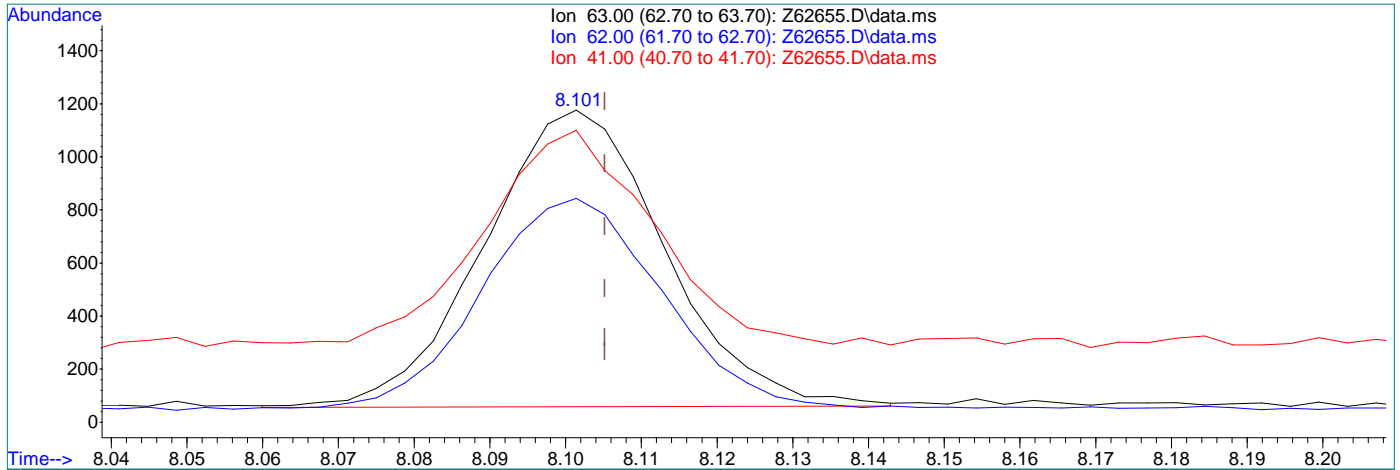




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 12:47:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane  
 8.101min (-0.004) 0.10ppb m  
 response 18506

Ion	Exp%	Act%
63.00	100	100
62.00	71.20	72.95
41.00	62.00	66.69
0.00	0.00	0.00

7.6.13.5  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62656.D  
 Acq On : 1 Oct 2020 10:20 am  
 Operator : AKARIG  
 Sample : ic2431-2  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 12:47:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

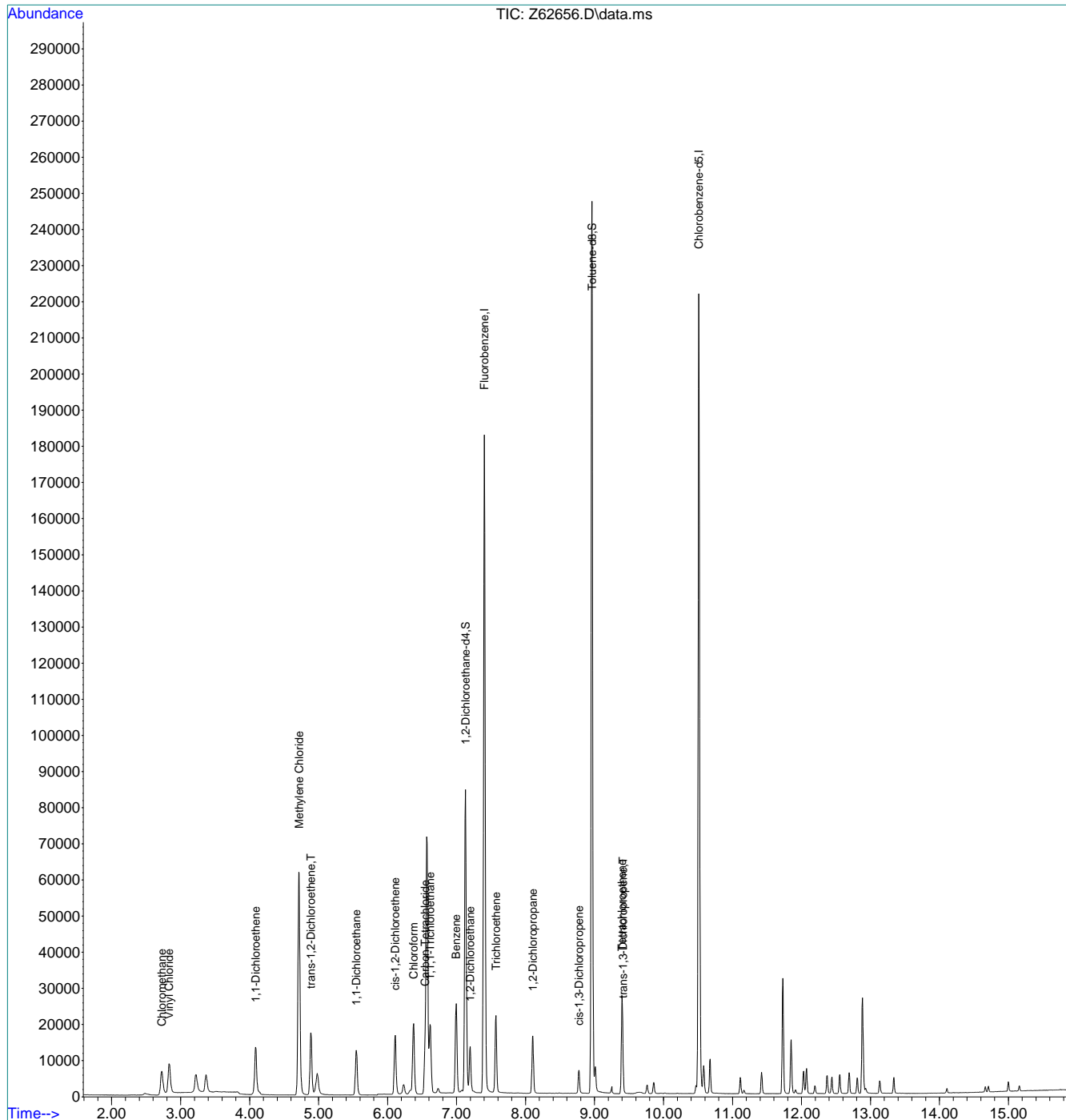
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2101741	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1985926	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	685744	5.11	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.20%	
19) Toluene-d8	8.961	98	2163549	5.09	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.831	62	142310	0.54	ppb		99
3) Chloromethane	2.726	50	120495	0.52	ppb		98
4) 1,1-Dichloroethene	4.087	96	78536	0.53	ppb		95
5) Methylene Chloride	4.717	84	433799	1.49	ppb		99
6) trans-1,2-Dichloroethene	4.890	96	97459	0.50	ppb		95
7) 1,1-Dichloroethane	5.546	63	167344	0.51	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	104295	0.50	ppb		99
9) Chloroform	6.377	83	196009	0.49	ppb		99
10) Carbon Tetrachloride	6.543	117	102313	0.47	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	156624	0.49	ppb		98
12) Benzene	6.994	78	358957	0.50	ppb		100
14) 1,2-Dichloroethane	7.198	62	125095	0.49	ppb		100
15) Trichloroethene	7.571	95	98886	0.49	ppb		90
16) 1,2-Dichloropropane	8.105	63	84258	0.48	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	51571	0.36	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	30148	0.34	ppb		97
21) Tetrachloroethene	9.399	166	110218	0.51	ppb		97
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62656.D  
 Acq On : 1 Oct 2020 10:20 am  
 Operator : AKARIG  
 Sample : ic2431-2  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 12:47:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.14  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62657.D  
 Acq On : 1 Oct 2020 10:40 am  
 Operator : AKARIG  
 Sample : ic2431-3  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 01 12:47:18 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

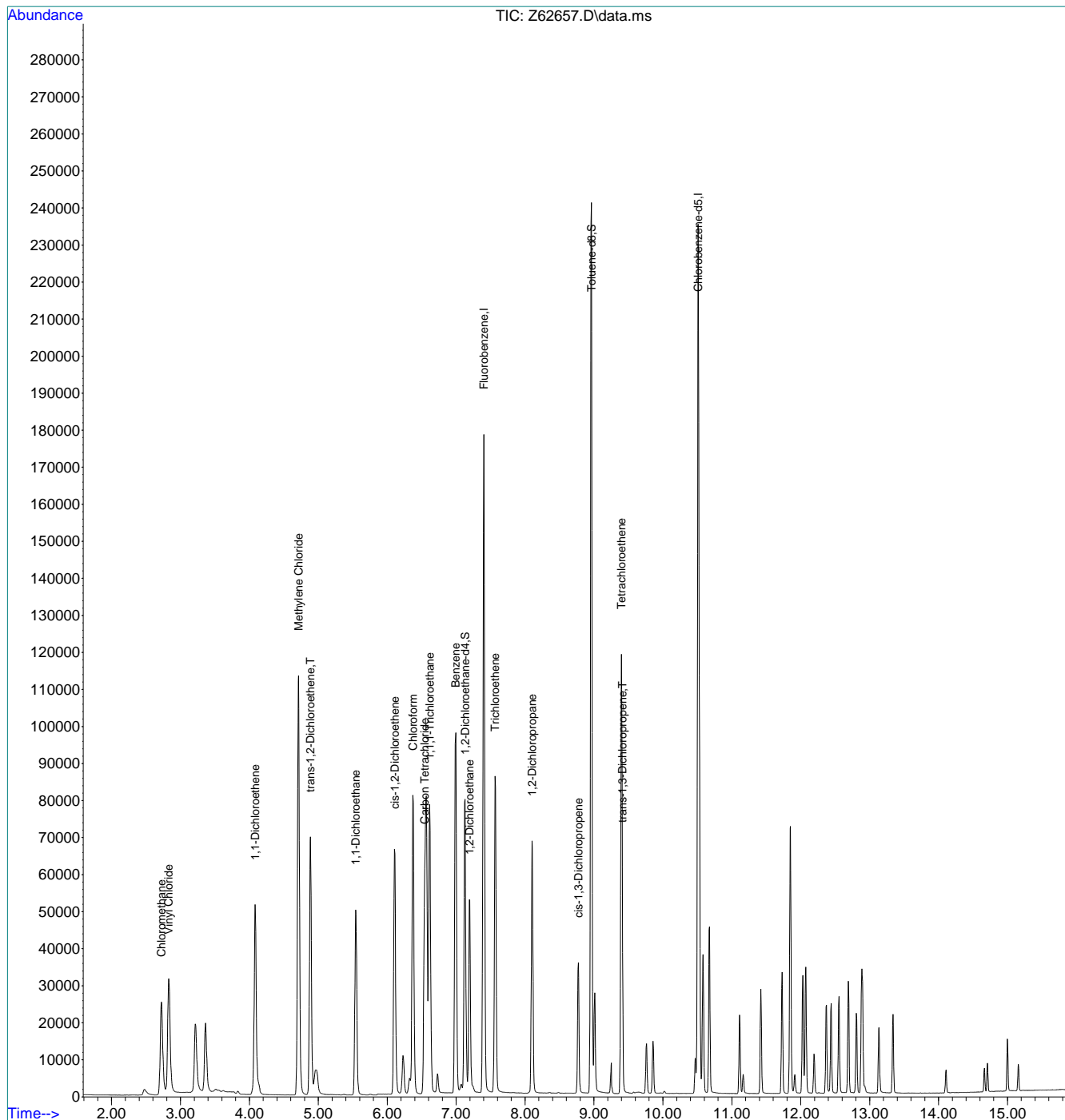
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2042151	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1978632	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	663622	5.09	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.80%	
19) Toluene-d8	8.961	98	2104986	4.97	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.827	62	531814	2.06	ppb		99
3) Chloromethane	2.722	50	451880	1.99	ppb		99
4) 1,1-Dichloroethene	4.083	96	303296	2.09	ppb		96
5) Methylene Chloride	4.713	84	784758	2.82	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	386589	2.05	ppb		96
7) 1,1-Dichloroethane	5.542	63	664522	2.09	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	417168	2.06	ppb		96
9) Chloroform	6.371	83	814265	2.11	ppb		100
10) Carbon Tetrachloride	6.543	117	411272	1.95	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	637448	2.06	ppb		99
12) Benzene	6.994	78	1449199	2.07	ppb		98
14) 1,2-Dichloroethane	7.191	62	531167	2.15	ppb		100
15) Trichloroethene	7.564	95	404995	2.07	ppb		98
16) 1,2-Dichloropropane	8.101	63	361266	2.13	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	282689	1.95	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	188207	1.95	ppb		98
21) Tetrachloroethene	9.399	166	459421	2.13	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62657.D  
 Acq On : 1 Oct 2020 10:40 am  
 Operator : AKARIG  
 Sample : ic2431-3  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 01 12:47:18 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.15  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62658.D  
 Acq On : 1 Oct 2020 10:59 am  
 Operator : AKARIG  
 Sample : ic2431-4  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 12:47:20 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

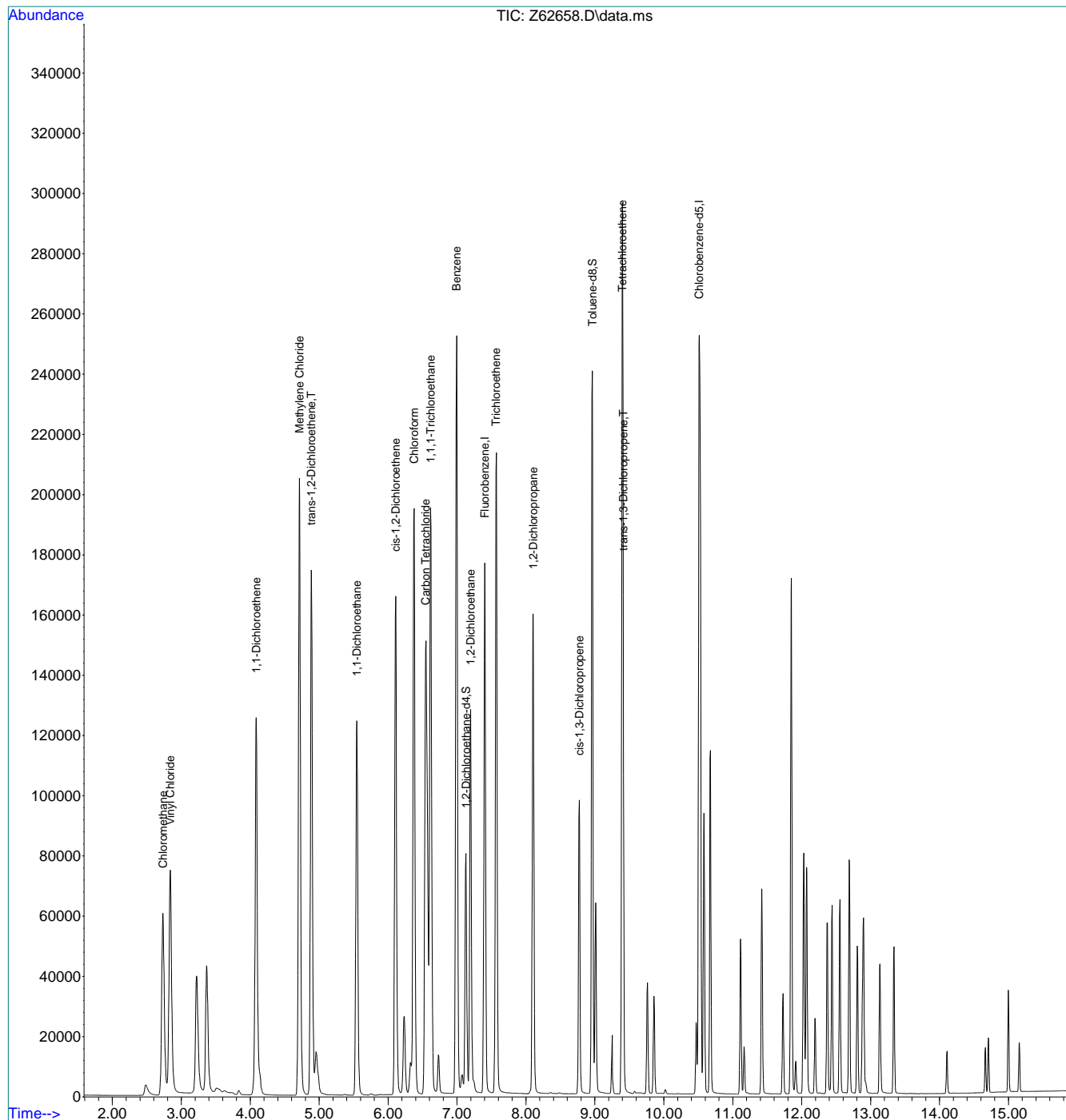
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2046513	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2001672	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	661230	5.06	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.20%	
19) Toluene-d8	8.961	98	2104194	4.91	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1320233	5.10	ppb		99
3) Chloromethane	2.733	50	1125495	4.95	ppb		99
4) 1,1-Dichloroethene	4.087	96	765386	5.26	ppb		96
5) Methylene Chloride	4.713	84	1442310	5.34	ppb		98
6) trans-1,2-Dichloroethene	4.886	96	984446	5.22	ppb		98
7) 1,1-Dichloroethane	5.546	63	1667258	5.22	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	1040311	5.12	ppb		98
9) Chloroform	6.377	83	1987474	5.14	ppb		100
10) Carbon Tetrachloride	6.543	117	1113689	5.27	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	1651358	5.33	ppb		100
12) Benzene	6.994	78	3641471	5.19	ppb		99
14) 1,2-Dichloroethane	7.198	62	1267380	5.11	ppb		99
15) Trichloroethene	7.564	95	1010176	5.15	ppb		98
16) 1,2-Dichloropropane	8.105	63	868299	5.11	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	774972	4.98	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	556510	5.01	ppb		99
21) Tetrachloroethene	9.399	166	1119421	5.12	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62658.D  
 Acq On : 1 Oct 2020 10:59 am  
 Operator : AKARIG  
 Sample : ic2431-4  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 12:47:20 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.16  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62659.D  
 Acq On : 1 Oct 2020 11:18 am  
 Operator : AKARIG  
 Sample : icc2431-5  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 12:47:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2158955	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2125137	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	685479	4.97	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	99.40%	
19) Toluene-d8	8.961	98	2219665	4.88	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	2696733	9.88	ppb		100
3) Chloromethane	2.726	50	2245316	9.36	ppb		100
4) 1,1-Dichloroethene	4.087	96	1576428	10.28	ppb		100
5) Methylene Chloride	4.713	84	2548206	9.49	ppb		100
6) trans-1,2-Dichloroethene	4.886	96	2023937	10.18	ppb		100
7) 1,1-Dichloroethane	5.546	63	3398562	10.09	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	2159027	10.07	ppb		100
9) Chloroform	6.377	83	4085128	10.01	ppb		100
10) Carbon Tetrachloride	6.543	117	2419359	10.85	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	3463239	10.60	ppb		100
12) Benzene	6.994	78	7563923	10.22	ppb		100
14) 1,2-Dichloroethane	7.198	62	2581621	9.86	ppb		100
15) Trichloroethene	7.564	95	2133162	10.31	ppb		100
16) 1,2-Dichloropropane	8.105	63	1802250	10.04	ppb		100
17) cis-1,3-Dichloropropene	8.773	75	1872456	10.21	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	1445243	10.18	ppb		100
21) Tetrachloroethene	9.399	166	2332783	10.05	ppb		100

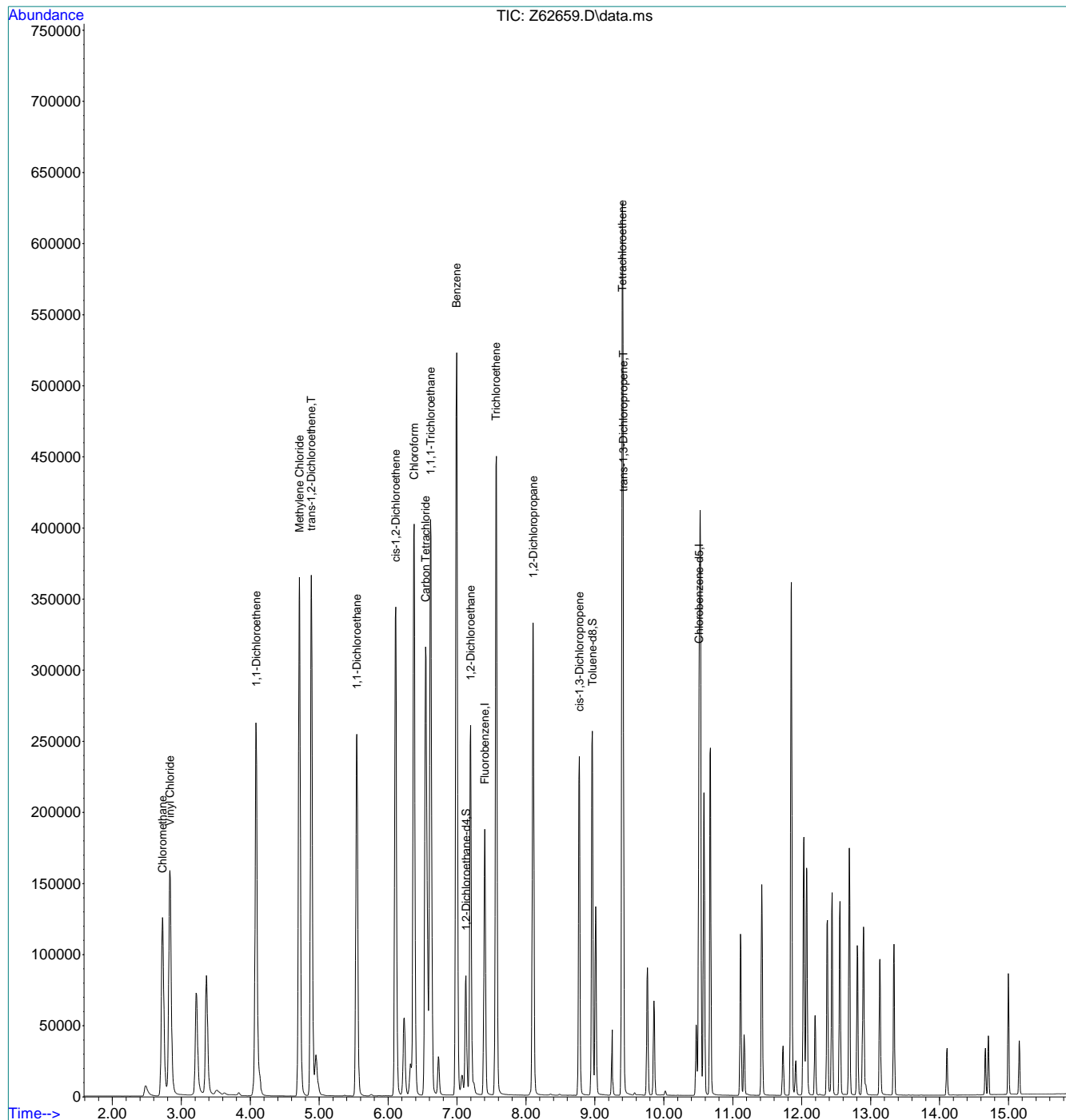
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62659.D  
 Acq On : 1 Oct 2020 11:18 am  
 Operator : AKARIG  
 Sample : icc2431-5  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 12:47:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.17  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62660.D  
 Acq On : 1 Oct 2020 11:37 am  
 Operator : AKARIG  
 Sample : ic2431-6  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 12:47:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

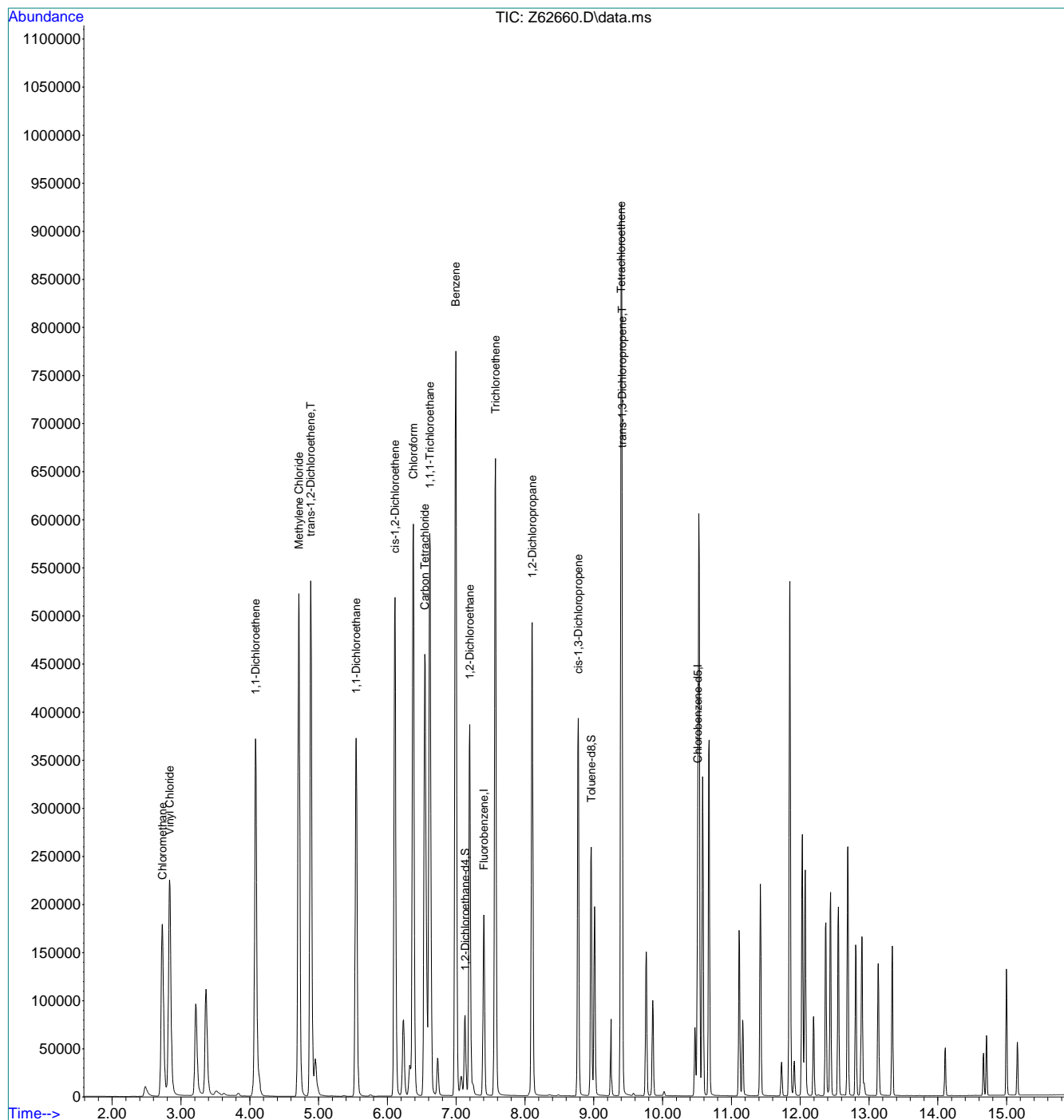
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2170216	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2126130	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	677268	4.89	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	97.80%	
19) Toluene-d8	8.961	98	2228604	4.90	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	3814887	13.90	ppb		99
3) Chloromethane	2.730	50	3218919	13.35	ppb		100
4) 1,1-Dichloroethene	4.083	96	2246292	14.57	ppb		97
5) Methylene Chloride	4.713	84	3637278	14.55	ppb		98
6) trans-1,2-Dichloroethene	4.886	96	2963240	14.82	ppb		98
7) 1,1-Dichloroethane	5.546	63	4947249	14.61	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	3198702	14.85	ppb		99
9) Chloroform	6.377	83	5965409	14.55	ppb		100
10) Carbon Tetrachloride	6.543	117	3532615	15.76	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	4989392	15.19	ppb		100
12) Benzene	6.994	78	11028446	14.83	ppb		100
14) 1,2-Dichloroethane	7.198	62	3813831	14.50	ppb		100
15) Trichloroethene	7.571	95	3094019	14.87	ppb		88
16) 1,2-Dichloropropane	8.105	63	2665706	14.78	ppb		100
17) cis-1,3-Dichloropropene	8.773	75	3061311	15.12	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	2476953	15.04	ppb		99
21) Tetrachloroethene	9.399	166	3339747	14.39	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62660.D  
 Acq On : 1 Oct 2020 11:37 am  
 Operator : AKARIG  
 Sample : ic2431-6  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 12:47:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.18  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:51:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

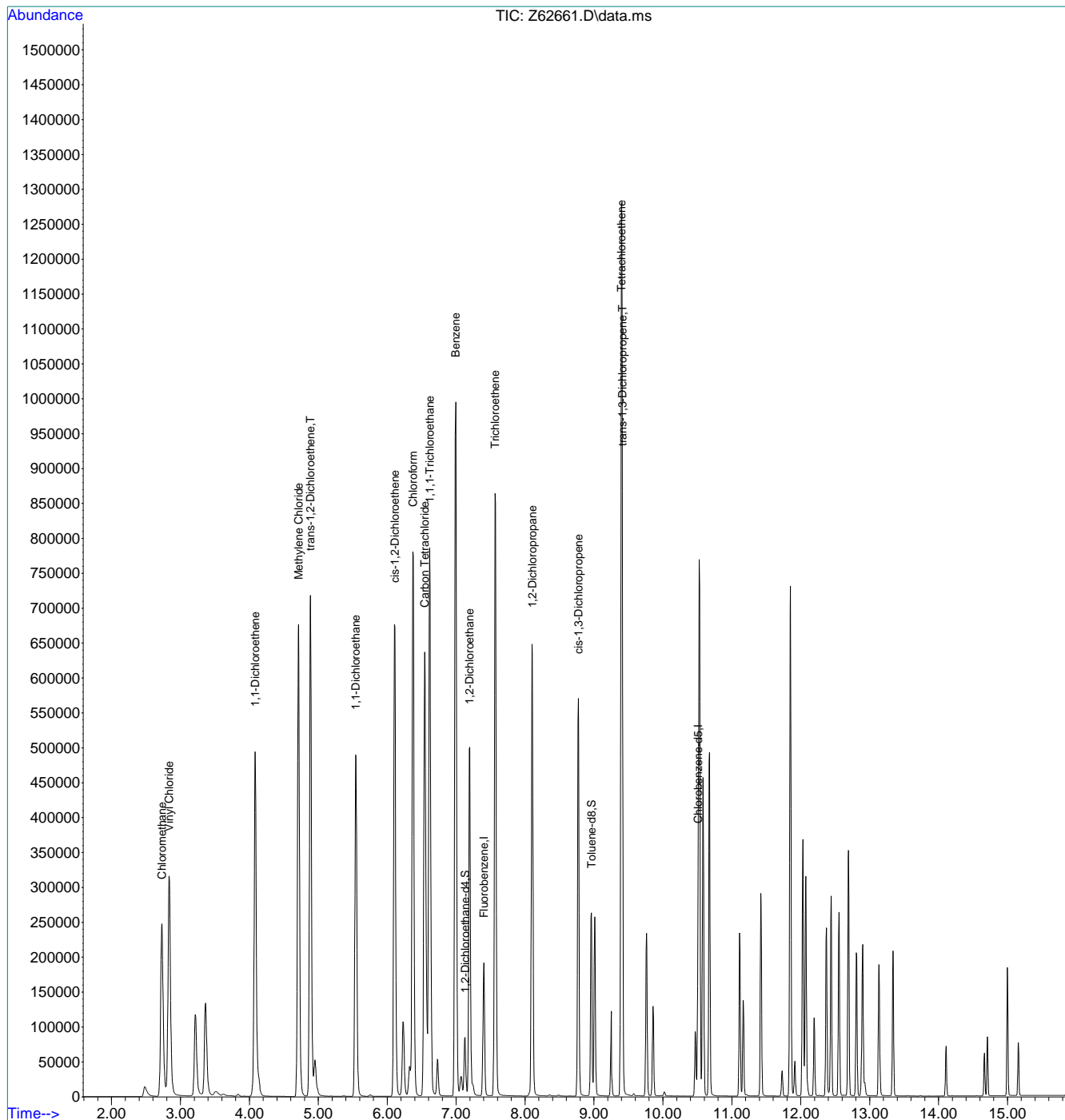
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2215762	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2161930m	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	683964	4.83	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.60%	
19) Toluene-d8	8.961	98	2283038	4.94	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	5385695	19.22	ppb		99
3) Chloromethane	2.729	50	4447966	18.07	ppb		100
4) 1,1-Dichloroethene	4.083	96	2987652	18.97	ppb		98
5) Methylene Chloride	4.713	84	4736279	20.47	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	4006380	19.63	ppb		96
7) 1,1-Dichloroethane	5.542	63	6584906	19.05	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	4288760	19.50	ppb		97
9) Chloroform	6.371	83	7913114	18.90	ppb		100
10) Carbon Tetrachloride	6.543	117	4885218	21.35	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	6638529	19.80	ppb		99
12) Benzene	6.994	78	14562158	19.18	ppb		99
14) 1,2-Dichloroethane	7.191	62	5006978	18.64	ppb		100
15) Trichloroethene	7.564	95	4097842	19.29	ppb		98
16) 1,2-Dichloropropane	8.105	63	3518506	19.11	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	4456580	19.85	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	3792764	19.91	ppb		99
21) Tetrachloroethene	9.399	166	4402753	18.65	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:51:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.19  
7



# Manual Integration Approval Summary

**Sample Number:** VZ2431-IC2431      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62661.D      **Analyst approved:** 10/05/20 20:33 Stuti Patel  
**Injection Time:** 10/01/20 11:59      **Supervisor approved:** 10/06/20 11:28 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorobenzene-D5	3114-55-4		10.51	Poor instrument integration

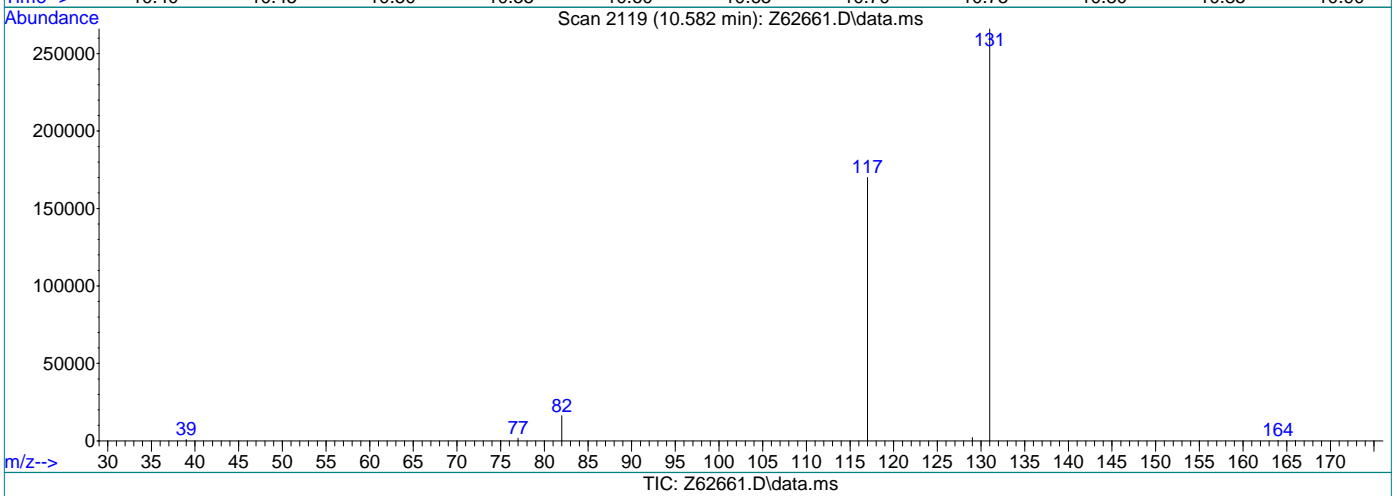
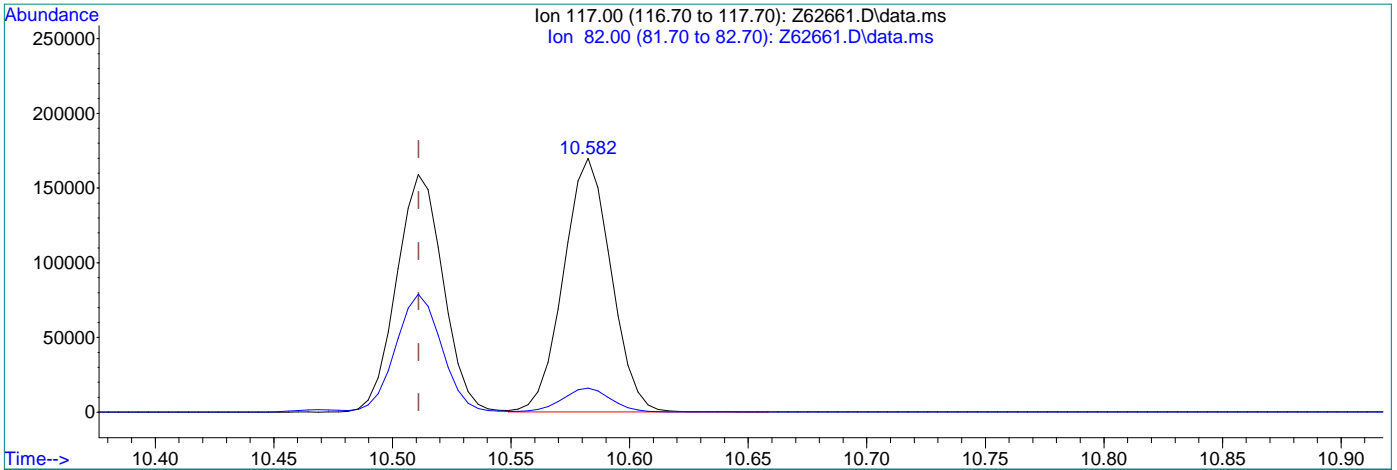
7.6.19.1

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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:47:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



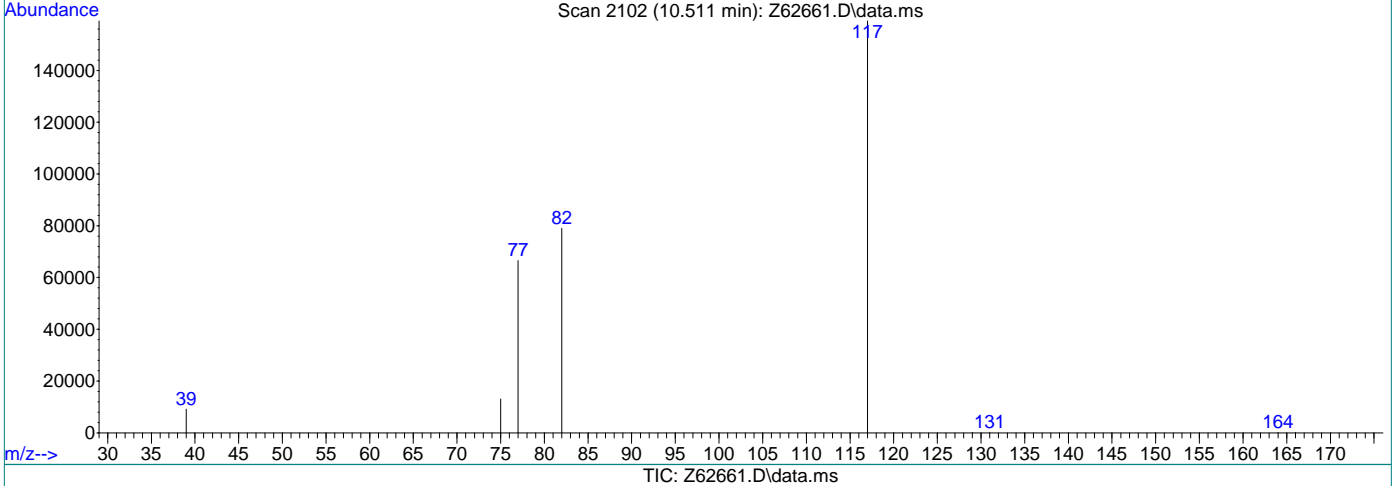
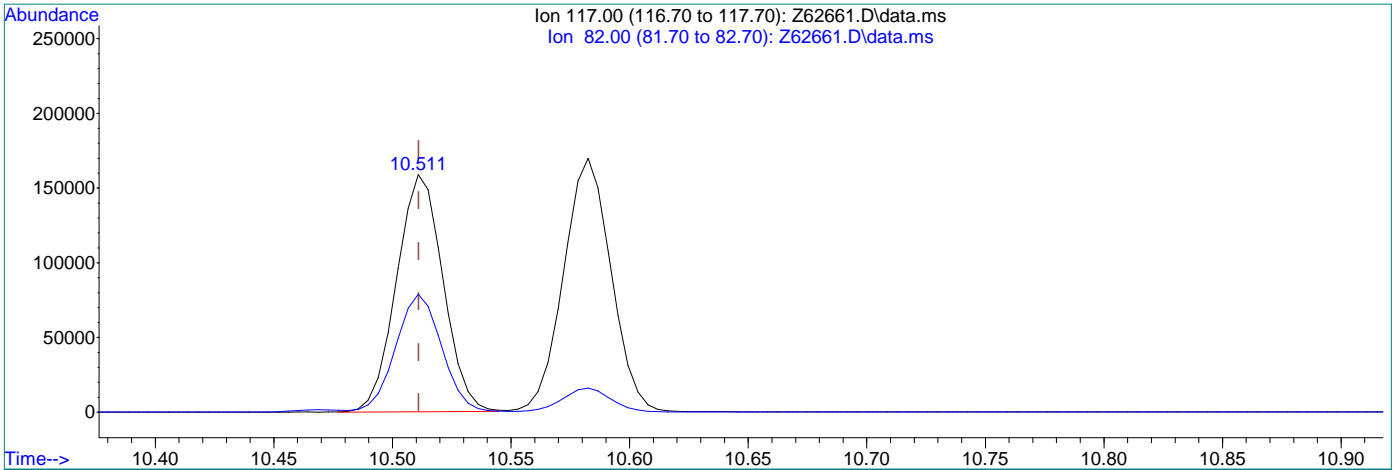
(18) Chlorobenzene-d5 (l)  
 10.582min (+0.071) 5.00ppb  
 response 2369980

Ion	Exp%	Act%
117.00	100	100
82.00	49.20	9.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:47:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.511min (-0.000) 5.00ppb m  
 response 2161930

Ion	Exp%	Act%
117.00	100	100
82.00	49.20	10.50#
0.00	0.00	0.00
0.00	0.00	0.00

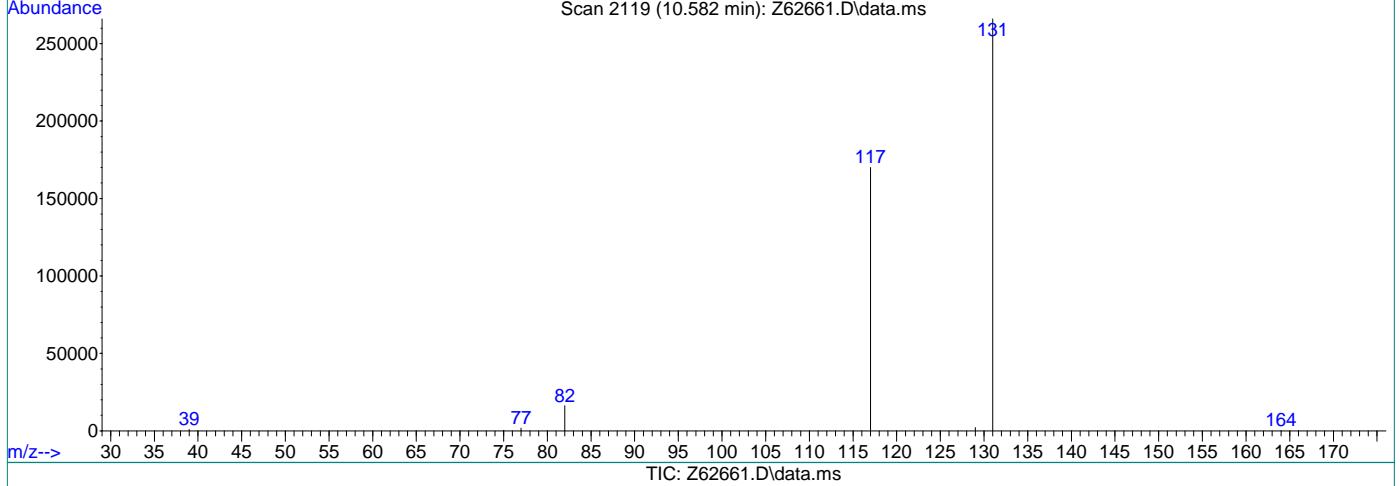
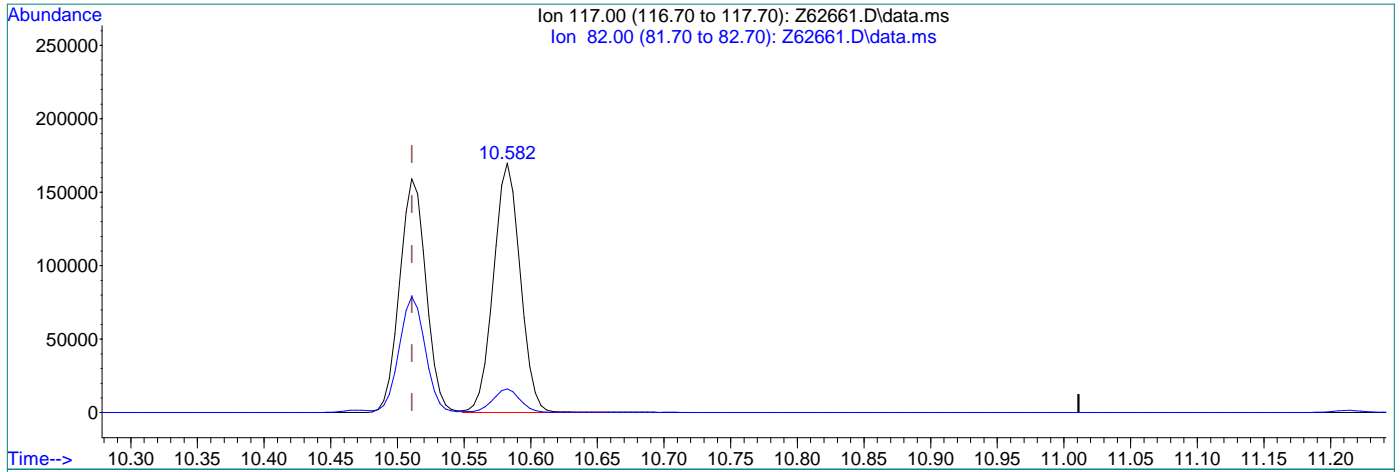
7.6.19.3  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:25:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



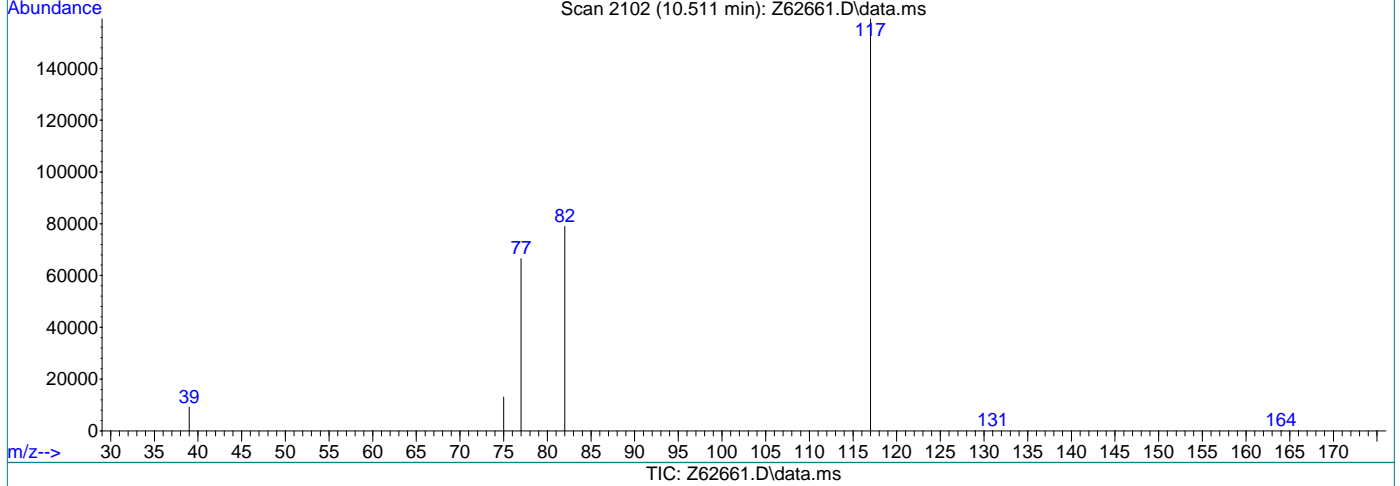
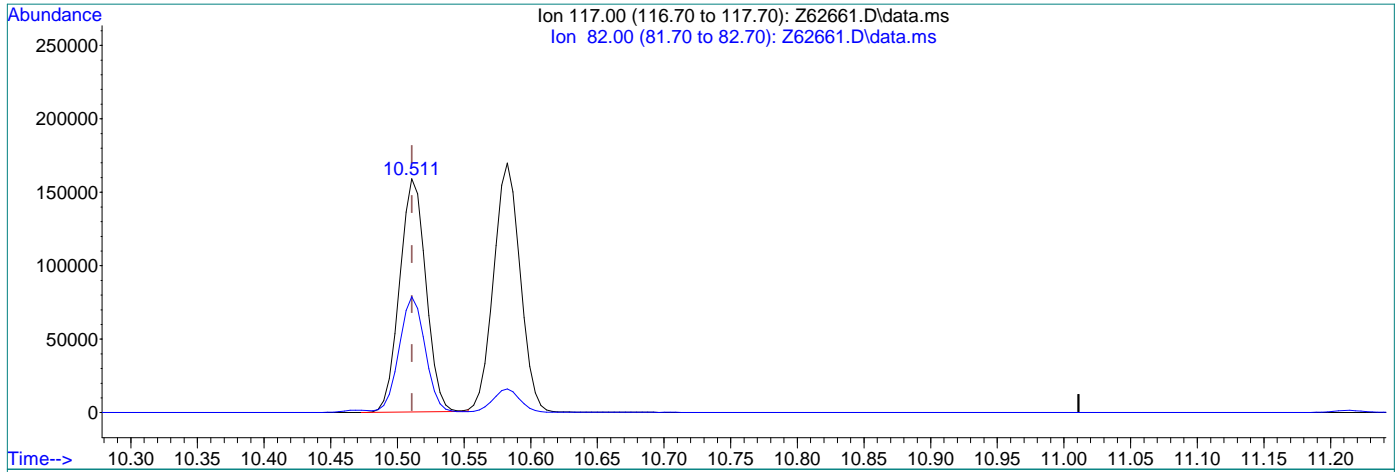
(18) Chlorobenzene-d5 (l)  
 10.582min (+0.071) 5.00ppb  
 response 2369980

Ion	Exp%	Act%
117.00	100	100
82.00	56.00	9.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:25:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.511min (-0.000) 5.00ppb m  
 response 2160627

Ion	Exp%	Act%
117.00	100	100
82.00	56.00	10.50#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62663.D  
 Acq On : 1 Oct 2020 1:17 pm  
 Operator : AKARIG  
 Sample : icv2431-5  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 03 15:37:48 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:37:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1999509	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1983678	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	630939	4.94	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	98.80%		
19) Toluene-d8	8.958	98	2053030	4.84	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	96.80%		
Target Compounds							Qvalue
2) Vinyl Chloride	2.828	62	2552566	10.09	ppb	99	
3) Chloromethane	2.722	50	2032474	9.15	ppb	100	
4) 1,1-Dichloroethene	4.083	96	1598920	11.25	ppb	98	
5) Methylene Chloride	4.709	84	2785871	11.55	ppb	99	
6) trans-1,2-Dichloroethene	4.883	96	2075149	11.16	ppb	97	
7) 1,1-Dichloroethane	5.539	63	3437975	11.02	ppb	# 100	
8) cis-1,2-Dichloroethene	6.104	96	2166050	10.91	ppb	98	
9) Chloroform	6.371	83	4002979	10.59	ppb	100	
10) Carbon Tetrachloride	6.543	117	2632344	12.00	ppb	99	
11) 1,1,1-Trichloroethane	6.614	97	3451194	11.41	ppb	99	
12) Benzene	6.987	78	7653429	11.17	ppb	98	
14) 1,2-Dichloroethane	7.191	62	2546884	10.51	ppb	100	
15) Trichloroethene	7.564	95	2128170	11.10	ppb	93	
16) 1,2-Dichloropropane	8.101	63	1812609	10.91	ppb	100	
17) cis-1,3-Dichloropropene	8.773	75	2254840	11.77	ppb	100	
20) trans-1,3-Dichloropropene	9.407	75	1974805	13.46	ppb	98	
21) Tetrachloroethene	9.399	166	2290465	10.58	ppb	99	
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

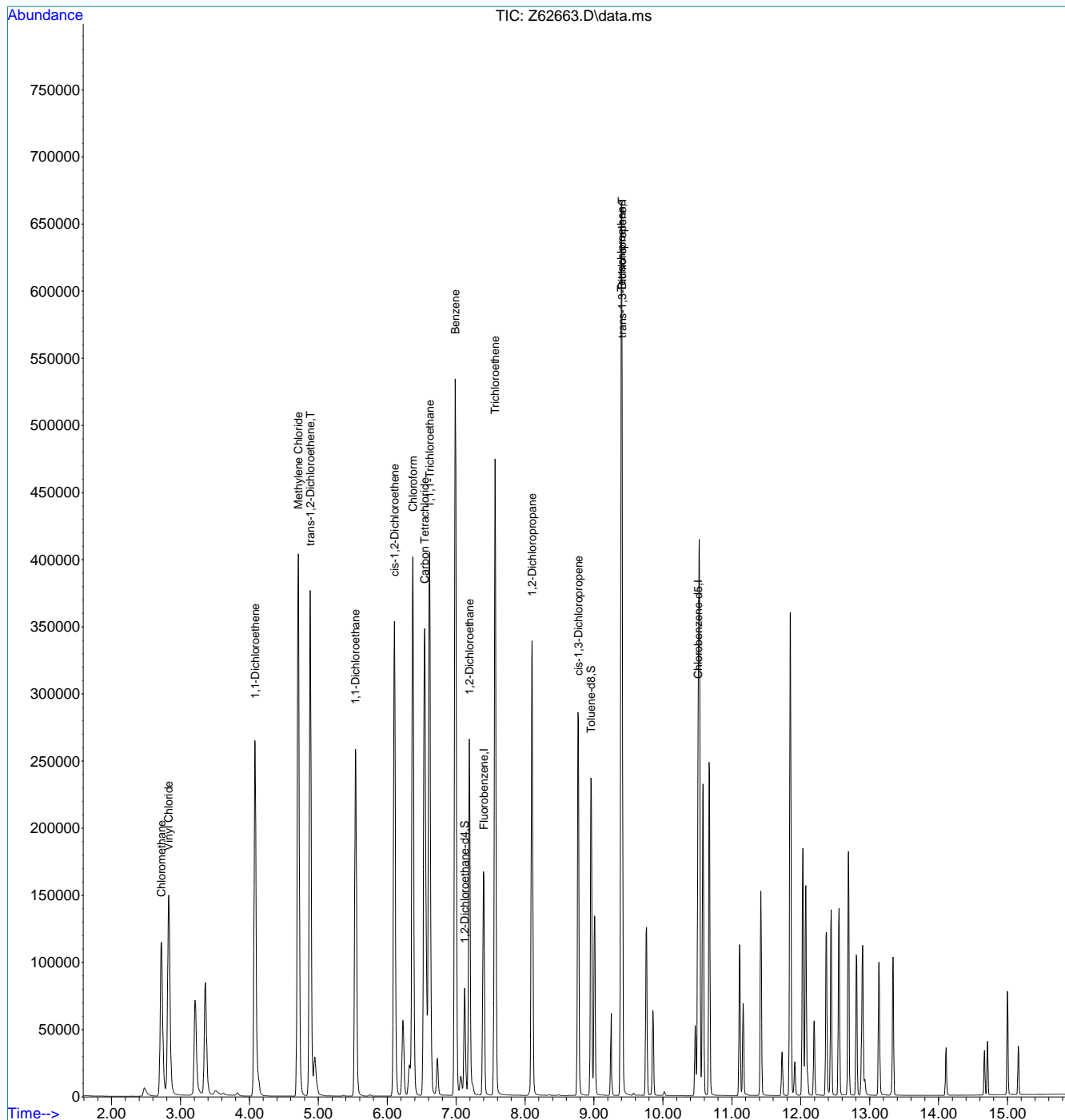
7.6.20  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62663.D  
 Acq On : 1 Oct 2020 1:17 pm  
 Operator : AKARIG  
 Sample : icv2431-5  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 03 15:37:48 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:37:45 2020  
 Response via : Initial Calibration



7.6.20  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62670.d  
 Acq On : 2 Oct 2020 3:31 pm  
 Operator : AKARIG  
 Sample : cc2431-5  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 05:30:45 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2463449	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2412326	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	768198	4.88	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	97.60%		
19) Toluene-d8	8.958	98	2561752	4.97	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.831	62	2698376	8.66	ppb		100
3) Chloromethane	2.722	50	2506714	9.16	ppb		99
4) 1,1-Dichloroethene	4.083	96	1449382	8.28	ppb		98
5) Methylene Chloride	4.709	84	2963500	9.70	ppb		99
6) trans-1,2-Dichloroethene	4.883	96	2030305	8.80	ppb		97
7) 1,1-Dichloroethane	5.543	63	3452941	8.99	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	2227409	9.11	ppb		98
9) Chloroform	6.371	83	4130328	8.87	ppb		100
10) Carbon Tetrachloride	6.543	117	2340356	8.67	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	3337645	8.95	ppb		99
12) Benzene	6.987	78	7648249	9.06	ppb		97
14) 1,2-Dichloroethane	7.191	62	2652891	8.88	ppb		100
15) Trichloroethene	7.564	95	2082267	8.82	ppb		94
16) 1,2-Dichloropropane	8.101	63	1836843	8.98	ppb		99
17) cis-1,3-Dichloropropene	8.769	75	2287376	9.69	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	1961128	11.54	ppb		98
21) Tetrachloroethene	9.399	166	2252555	8.55	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

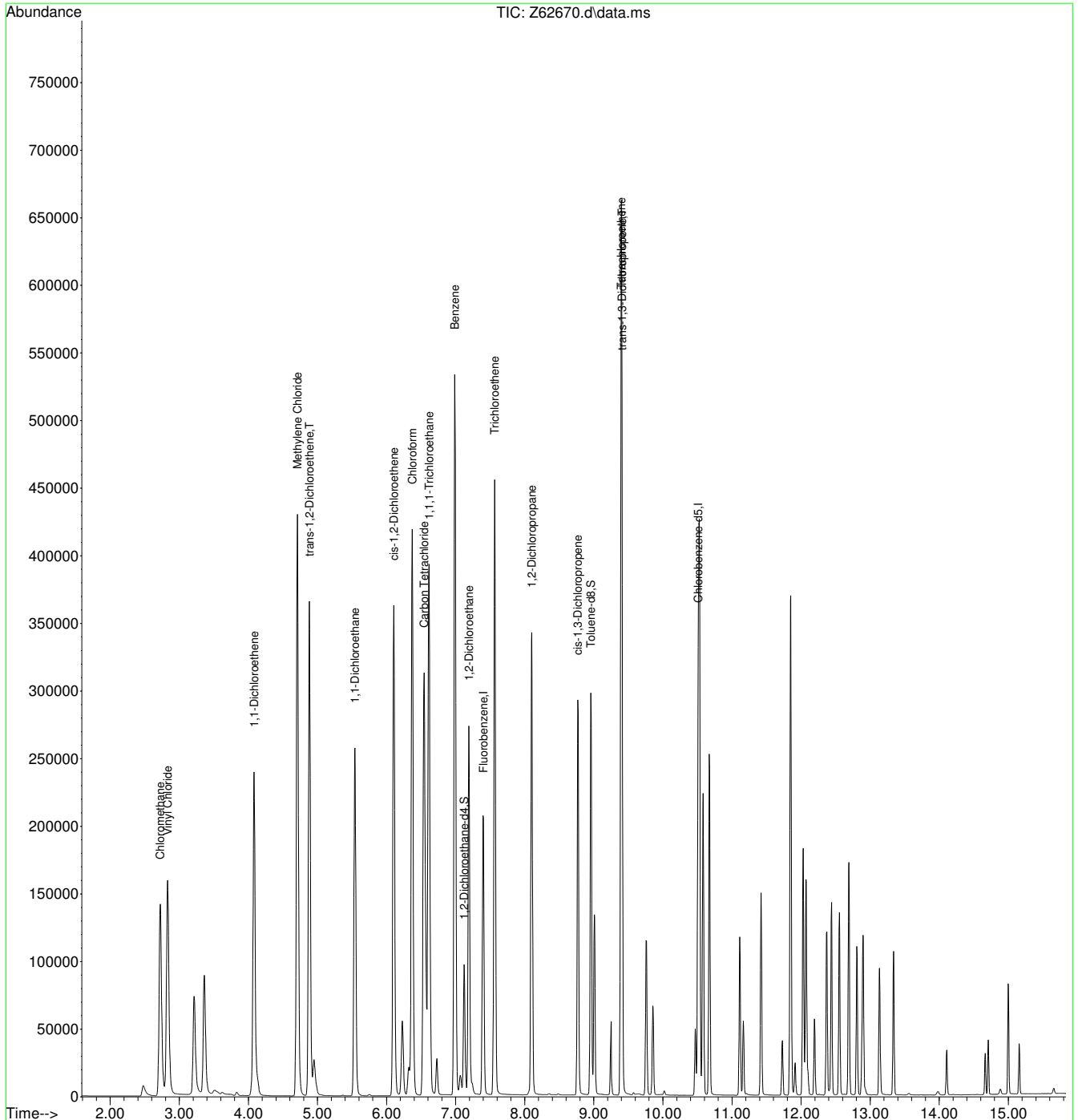
7.6.21  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62670.d  
 Acq On : 2 Oct 2020 3:31 pm  
 Operator : AKARIG  
 Sample : cc2431-5  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 05:30:45 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration



7.6.21  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62692.d  
 Acq On : 2 Oct 2020 11:20 pm  
 Operator : AKARIG  
 Sample : ecc2431-5  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 06 05:32:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1613020	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1700823	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	529599	5.14	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.80%	
19) Toluene-d8	8.961	98	1628468	4.48	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.831	62	2307322	11.31	ppb		100
3) Chloromethane	2.726	50	1891241	10.56	ppb		100
4) 1,1-Dichloroethene	4.083	96	1218946	10.63	ppb		99
5) Methylene Chloride	4.713	84	2017768	10.16	ppb		98
6) trans-1,2-Dichloroethene	4.886	96	1556188	10.35	ppb		94
7) 1,1-Dichloroethane	5.542	63	2659089	10.57	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	1654526	10.33	ppb		98
9) Chloroform	6.371	83	3271175	10.73	ppb		100
10) Carbon Tetrachloride	6.543	117	1796348	10.16	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	2660200	10.90	ppb		100
12) Benzene	6.994	78	5841612	10.57	ppb		99
14) 1,2-Dichloroethane	7.191	62	2024944	10.36	ppb		100
15) Trichloroethene	7.564	95	1668481	10.79	ppb		98
16) 1,2-Dichloropropane	8.101	63	1419525	10.60	ppb		100
17) cis-1,3-Dichloropropene	8.773	75	1266084	8.20	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	1006799	9.06	ppb		99
21) Tetrachloroethene	9.399	166	1818660	9.79	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

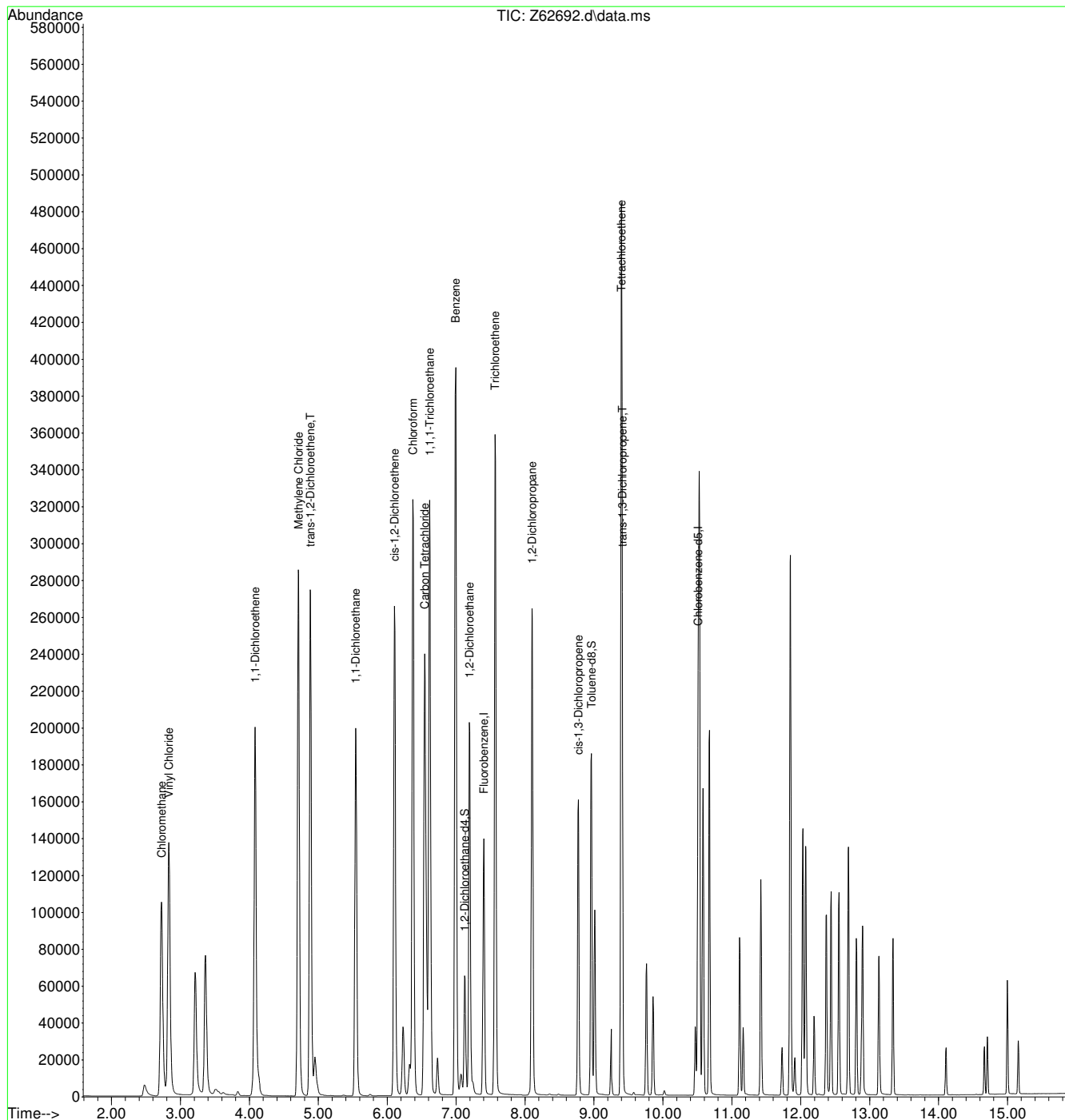
7.6.22  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\October 2020\10-06-2020\ vz2432\  
 Data File : Z62692.d  
 Acq On : 2 Oct 2020 11:20 pm  
 Operator : AKARIG  
 Sample : ecc2431-5  
 Misc : MS47304,VZ2432,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 06 05:32:01 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration





SGS -ORLANDO

MSVOA12-O-ANALYSIS LOG

Date: 9/18/2020
COLUMN TYPE: RTX VMS
DETECTOR: 5975 MSD
INSTRUMENT: MSVOA12-O
PURGE PRESSURE 8.4PSI
PURGE VOLUME: 5 mL
ANALYST: JuanG

METHODS: SIMCLM
METHOD FILE: SIMCL091820.M
CALIB. DATE: 9/18/2020
EM VOLTAGE: 1412v
BFB RESPONSE: 5146339
RUN ID: VO2365

BFB: V25942b
ICAL/CC: V25806\_VS0818
ISTD/SUR: VS0799
ICV/CC: VS0822 VS0802
data reviewed by: JuanG

PH LOT1-12 :230814
ph lot.0.0-3.0 : 220416a
KI PAPER LOT:030317
SAMPLE ID VERIFIED BY: JuanG
DATE VERIFIED: 09/21/2020

Table with columns: Data File, Sample ID, DIL., VIAL #, MATRIX, ALS POS., SAMPLE METHOD, MANUALLY INTEGRATED PEAK RATIONAL, PEAK #, PH, CL, RR, COMMENTS. Rows include sample IDs like O61435, O61436, O61437, etc., with corresponding method names and comments.

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Spilt Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

Analyst's Signature: [Handwritten Signature]

Analyst's Signature:

1 of 1

VO2365.xls 040918

Date:	9/25/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSV0A12-0
PURGE PRESSURE:	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	JuangG

METHODS*:	SIMCLM
METHOD FILE:	SIMCL091820.M
CALIB. DATE:	9/18/2020
EM VOLTAGE:	1412v
BFB RESPONSE:	5992972
RUN ID:	VO2367

BFB:	V25942b
ICAL/CC:	V25806, VS0818
STD/SUR:	VS0799
ICV/QC:	VS0822 VS0802
data reviewed by: Johnm	

PH LOT1-12 :	230814
ph lot 0.0-3.0 :	220416a
KI PAPER LOT:	030317
SAMPLE ID VERIFIED BY:	JuangG
DATE VERIFIED:	09/25/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL ?	RR	COMMENTS
061480	BLK	-	-	w	1	ACQ_SIMCLB		-	-	-	
061481	BLK	-	-	w	2	ACQ_SIMCLB		-	-	-	
061482	bfb	-	-	w	100	bfb		-	-	-	autofind 2ul passed
061483	cc2365-5	-	-	w	1	ACQ_SIMCLB		-	-	-	50ul -> 50ml passed
061484	bs	-	-	w	2	ACQ_SIMCLB		-	-	-	20ul -> 40ML VIAL
061485	mb	-	-	w	3	ACQ_SIMCLB		-	-	-	
061486	mb	-	-	w	4	ACQ_SIMCLB		-	-	-	
061487	FA79149-1	-	1	w	7	ACQ_SIMCLB		1	N	1x	Surr Failed
061488	FA79149-2	-	1	w	8	ACQ_SIMCLB		1	N	1x	Surr Failed
061489	FA79149-3	-	1	w	9	ACQ_SIMCLB		1	N	1x	Surr Failed
061490	FA79149-4	-	1	w	10	ACQ_SIMCLB		1	N	1x	Surr Failed
061491	FA79149-5	-	1	w	11	ACQ_SIMCLB		1	N	1x	Surr Failed
061492	FA79149-6	-	1	w	12	ACQ_SIMCLB		1	N	1x	Surr Failed
061493	FA79149-7	-	1	w	13	ACQ_SIMCLB		1	N	1x	Surr Failed
061494	FA79149-8	-	1	w	14	ACQ_SIMCLB		1	N	1x	Surr Failed
061495	FA79149-9	-	1	w	15	ACQ_SIMCLB		1	N	1x	Surr Failed
061496	FA79149-10	-	1	w	16	ACQ_SIMCLB		1	N	1x	Surr Failed
061497	FA79149-11	-	1	w	17	ACQ_SIMCLB		1	N	1x	Surr Failed
061498	FA79149-12	-	1	w	18	ACQ_SIMCLB	20ml to 100ml	1	N	1x	Surr Failed
061499	FA79149-13	-	1	w	19	ACQ_SIMCLB	20ml to 100ml	1	N	1x	Surr Failed
061500	FA79149-14	-	1	w	20	ACQ_SIMCLB		1	N	1x	IS Failed
061501	FA79149-15	-	1	w	21	ACQ_SIMCLB		1	N	1x	IS Failed
061502	FA79149-7 MS	5X	2	w	22	ACQ_SIMCLB		1	N		20ul -> 40ML VIAL
061503	FA79149-7 MSD	5X	2	w	23	ACQ_SIMCLB		1	N		20ul -> 40ML VIAL
061504	ECC2365-5			w	24	ACQ_SIMCLB		1	N		50ul -> 50ml passed

\* For NIELAC purposes, Method 8280 includes analytes by SOP MS005 Matrix: Designate "W" for Water, "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
 Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

Analyst's Signature:  Juan G.

SGS -ORLANDO

MSV0A12-O-ANALYSIS LOG

Date:	10/12/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSV0A12-O
PURGE PRESSURE:	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	AKARIG

METHODS:	SIMCLM
METHOD FILE:	SIMCL091820.M
CALIB. DATE:	9/18/2020
EM VOLTAGE:	1412V
BFB RESPONSE	5888841
RUN ID:	VO2368

BFB:	V25942b
ICAL/CC:	V25806_VS0818
ISTD/SUR:	VS0799
ICV/CC:	VS0822_VS0802
data reviewed by: JenniferF	

PH LOT1-12:	230814
ph lot 0.0-3.0:	220416a
KI PAPER LOT:	030317
SAMPLE ID VERIFIED BY:	AKARIG
DATE VERIFIED:	10/01/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
061505	BLK	-	-	w	1	ACQ_SIMCLB		-	-	-	
061506	BLK	-	-	w	2	ACQ_SIMCLB		-	-	-	
061507	bfb	-	-	w	100	bfb		-	-	-	
061508	bfb	-	-	w	100	bfb		-	-	-	autofind 2ul passed ✓
061509	CC2365-5	-	-	w	2	ACQ_SIMCLB		-	-	-	50ul -> 50ml passed ✓
061510	bs	-	-	w	3	ACQ_SIMCLB		-	-	-	20ul -> 40ML VIAL
061511	bs	-	-	w	4	ACQ_SIMCLB		-	-	-	20ul -> 40ML VIAL
061512	mb	-	-	w	7	ACQ_SIMCLB		-	-	-	MCI (J Value)
061513	mb	-	-	w	8	ACQ_SIMCLB		-	-	-	MCI (J Value)
061514	fa79149-1	-	-	w	9	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061515	fa79149-2	-	-	w	10	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061516	fa79149-3	-	-	w	11	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061517	fa79149-4	-	-	w	12	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061518	fa79149-5	-	-	w	13	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061519	fa79149-1ms	-	-	w	14	ACQ_SIMCLB	10ml -> 100ml	-	-	-	20ul -> 40ML VIAL
061520	fa79149-1msd	-	-	w	15	ACQ_SIMCLB	10ml -> 100ml	-	-	-	20ul -> 40ML VIAL
061521	fa79149-6	-	-	w	16	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061522	fa79149-7	-	-	w	17	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ND ✓
061523	fa79149-8	-	-	w	18	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ND ✓
061524	fa79149-9	-	-	w	19	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061525	fa79149-10	-	-	w	20	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061526	fa79149-11	-	-	w	21	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061527	fa79149-12	-	-	w	22	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061528	fa79149-13	-	-	w	23	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ✓
061529	fa79149-14	-	-	w	24	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ND ✓
061530	fa79149-15	-	-	w	25	ACQ_SIMCLB		-	-	-	SS Fail low, CFS ND ✓
061531	ecc2365-5	-	-	w	26	ACQ_SIMCLB		-	-	-	50ul -> 50ml ✓

\* For NELAC purposes, Method 8260 Includes analytes by SOP MS005 Matrix: Designate "W" for Water, "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
 Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PI Poor Instrument

Analyst's Signature:

MSV0A17-1A-ANALYSIS LOG

DATE: 10/01/20	METHOD(s):* Simcl	BFB: V25942A	PH LOT: 1 to 12 pH lot #: 200814					
COLUMN TYPE: RTX-VMS	METHOD FILE(s): simcl100120.m	ICAL/CC: vs0846/vs0806	0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD	CALIB. DATE: 10/01/20	ISTD/SURR: vs0791	KI PAPER LOT: 060117					
INSTRUMENT: MSV0A15-Z	EM VOLTAGE: 1871V	ICV/QC: vs0847/vs0802	Processed BY:					
PURGE PRESSURE: 9.7psi	BFB Response: 26563050	AFA: VS0418A	akarig					
PURGE VOLUME: 5 ml	Run id		DATE VERIFIED: 10/01/2020					
ANALYST: akarig	VIAL #	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS	PH	CL	RR	COMMENTS
Z62662	blk	1	acq_simcl0214		-	-	-	✓
Z62663	blk	W			-	-	-	
Z62664	bfb	100	bfb		-	-	-	Passed Autofind ✓
Z62665	ic2431-1	3	acq_simcl0214		-	-	-	1ul -> 100ml
Z62666	ic2431-2	4	acq_simcl0214		-	-	-	5ul -> 100ml
Z62667	ic2431-3	5	acq_simcl0214		-	-	-	10ul -> 50ml
Z62668	ic2431-4	6	acq_simcl0214		-	-	-	25ul -> 50ml
Z62669	ic2431-5	7	acq_simcl0214		-	-	-	50ul -> 50ml
Z62660	ic2431-6	8	acq_simcl0214		-	-	-	75ul -> 50ml
Z62661	ic2431-7	9	acq_simcl0214		-	-	-	100ul -> 50ml
Z62662	blk	10	acq_simcl0214		-	-	-	
Z62663	icv2431-5	11	acq_simcl0214		-	-	-	50ul -> 50ml
Z62664	icv2431-5	12	acq_simcl0214		-	-	-	50ul -> 50ml

\* For NELAP purposes, Method 8260 includes analytes by SOP MS005. Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration. Rationale SOP QA029. MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PI Poor Instrument Integration

Analyst's Signature: 



DATE: 10/02/20	METHOD(s): * Simcl	BFB: V25942A	PH LOT: 1 to 12 pH lot # 200814
COLUMN TYPE: RTX-VMS	METHOD FILE(S): simcl100120.m	ICAL/CC: vs0846/vs0806	0 to 3 pH lot# 220416
DETECTOR: 5975C MSD	CALIB. DATE: 10/01/20	ISTD/SURR: vs0791	KI PAPER LOT: 060117
INSTRUMENT: MSVOA15-z	EM VOLTAGE: 1871V	ICV/OC: vs0847/vs0802	Processed By: johnm
PURGE PRESSURE: 9.7psi	BFB Response: 21796298	AFA: VS0418A	akarig
PURGE VOLUME: 5 mL	Run id		DATE VERIFIED: 10/02/2020
ANALYST: akarig	VZ2432		

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62665	blk	-	-	w	1	acq_simcl0214		-	-	-	✓
Z62666	blk	-	-	w	2	acq_simcl0214		-	-	-	
Z62667	bfb	-	-	w	100	bfb		-	-	-	
Z62668	bfb	-	-	w	100	acq_simcl0214		-	-	-	
Z62669	bfb	-	-	w	100	acq_simcl0214		-	-	-	Passed Autofind✓
Z62670	cc2431-5	-	-	w	3	acq_simcl0214		-	-	-	50ul -> 50ml✓
Z62671	bs	-	-	w	4	acq_simcl0214		-	-	-	20ul -> 40ml✓
Z62672	mhb	-	-	w	5	acq_simcl0214		-	-	-	ND✓
Z62673	mhb	-	-	w	6	acq_simcl0214		-	-	-	ND✓
Z62674	fa79149-1	1X	3	w	7	acq_simcl0214		1	n		✓
Z62675	fa79149-2	1X	3	w	8	acq_simcl0214		1	n		✓
Z62676	fa79149-3	1X	3	w	9	acq_simcl0214		1	n		✓
Z62677	fa79149-4	1X	3	w	10	acq_simcl0214		1	n		✓
Z62678	fa79149-5	1X	3	w	11	acq_simcl0214		1	n		✓
Z62679	fa79149-6	1X	3	w	12	acq_simcl0214		1	n		✓
Z62680	fa79149-1ms	10X	3	w	13	acq_simcl0214		1	n		20ul -> 40ml✓
Z62681	fa79149-1msd	10X	3	w	14	acq_simcl0214		1	n		20ul -> 40ml✓
Z62682	blank			w	15	acq_simcl0214		1	n		✓
Z62683	fa79149-8	1X	3	w	16	acq_simcl0214		1	n		✓
Z62684	fa79149-9	1X	3	w	17	acq_simcl0214		1	n		✓
Z62685	fa79149-10	1X	3	w	18	acq_simcl0214		1	n		✓
Z62686	fa79149-11	1X	3	w	19	acq_simcl0214		1	n		✓
Z62687	fa79149-12	1X	3	w	20	acq_simcl0214		1	n		✓
Z62688	fa79149-13	1X	3	w	21	acq_simcl0214		1	n		✓
Z62689	fa79149-14	1X	3	w	22	acq_simcl0214		1	n		✓
Z62690	fa79149-15	1X	3	w	23	acq_simcl0214		1	n		✓
Z62691	fa79149-16	1X	1	w	24	acq_simcl0214		1	n		✓
Z62692	ecc2431-5			w	25	acq_simcl0214					✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate Manual Integration Rationale SOP QA029. MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PI Poor Instrument Integration.

Analyst's Signature: 



The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWM-OUCTP Upper 3Q2020)

SGS Job Number: FA79153

Sampling Date: 09/23/20



Report to:

Ahtna Global, LLC  
9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
dlieberman@ahtna.net; mfisher@ahtna.net;  
hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: **78**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA79153

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWM-OUCTP Upper 3Q2020)

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
FA79153-1	09/23/20	14:42 SB	09/25/20	AQ	Ground Water	2039YOU2454F



## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA79153

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 10/11/2020 7:23:08

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/23/2020 and were received at SGS North America Inc - Orlando on 09/25/2020 properly preserved, at 2.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA79153. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ

**Batch ID:** VZ2433

All samples were analyzed within the recommended method holding time.

Sample(s) FA79152-1MS, FA79152-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA79153  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/23/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

**FA79153-1**      **2039YOU2454F**

No hits reported in this sample.

Sample Results

---

Report of Analysis

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SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2039YOU2454F	
<b>Lab Sample ID:</b> FA79153-1	<b>Date Sampled:</b> 09/23/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/25/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62703.D	1	10/07/20 16:15	AG	n/a	n/a	VZ2433
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		74-125%
2037-26-5	Toluene-D8	104%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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Misc. Forms

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

Project Information:										Analysis Requested				Lab Sample Receipt										
Project Location: <u>Former Fort Ord, CA</u> Sampler/s: <u>S. Bennett</u>										VOCs 8260 - SIM Metals 6010 C Chloride 9056A				Laboratory Sample Delivery										
Project Name: <u>Groundwater Monitoring Program</u> Report To: <u>Derek Lieberman</u>														Group #:										
Project Number: <u>21065.000.01.0000</u> E-Mail: <u>dlieberman@ahna.net</u>														Custody Seal:										
Sampling Event/Site: <u>3Q2020</u> Laboratory: <u>SGS</u>														Temp (°C): <u>2.4°C IR#1</u>										
Lab Number	Sample Number/Description	Sample Collection		Matrix			Number of Preserved Bottles										Notes							
		Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	MuHSC <sup>+</sup>	None	Other									
/	2039Y002454F	9.23.20	1442	X			3	3																
Turnaround Time: <u>10</u> : Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush										Shipment:		Method:		Tracking ID:		INITIAL ASSESSMENT <u>MK</u> LABEL VERIFICATION <u>DD</u>								
										Comments:														
OUCTP - upper																								
Chain of Custody Tracking:																								
Relinquished By Sampler: <u>S. Bennett</u>										Date/Time: <u>9.24.20 / 1200</u>					Received By: <u>FX</u>					Date/Time:				
Relinquished By: <u>FX</u>										Date/Time:					Received By: <u>Carlton St. Dehaene</u>					Date/Time: <u>9/25/20 1000</u>				
Relinquished By:										Date/Time:					Received By Laboratory:					Date/Time:				

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## SGS Sample Receipt Summary

Job Number: FA79153

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP Upper - 3Q2020

Date / Time Received: 9/25/2020 10:00:00 AM

Delivery Method: FedEx

Airbill #: 771623867825

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.4);

**Cooler Information**

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | IR Gun                              |                          |
| 5. Cooler media             | Ice (Bag)                           |                          |

**Sample Information**

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | Intact                              |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Trip Blank Information**

Y or N N/A

- |                                |                                     |                                     |                          |
|--------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                                | <u>W or S</u>                       |                                     | <u>N/A</u>               |
| 3. Type Of TB Received         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 \_\_\_\_\_ 230315 \_\_\_\_\_ pH 10-12 \_\_\_\_\_ 219813A \_\_\_\_\_ Other: (Specify) \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: PETERH

Date: 9/25/2020 10:00:00 A

Reviewer: PH

Date: 9/26/2020

FA79153: Chain of Custody

Page 2 of 2

5.1  
5

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA79153  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/23/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VZ2433	SW846 8260B BY SIM						
VZ2433-BS	56-23-5	Carbon Tetrachloride	BSP	REC	100	%	72-136
VZ2433-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
VZ2433-BS	2037-26-5	Toluene-D8	BSP	SURR	104	%	89-112
FA79152-1MS*	56-23-5	Carbon Tetrachloride	MS	REC	97	%	72-136
FA79152-1MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	105	%	81-118
FA79152-1MS*	2037-26-5	Toluene-D8	MS	SURR	99	%	89-112
FA79152-1MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	92	%	72-136
FA79152-1MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	6	%	20
FA79152-1MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	103	%	81-118
FA79152-1MSD*	2037-26-5	Toluene-D8	MSD	SURR	100	%	89-112
VZ2433-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	105	%	81-118
VZ2433-MB	2037-26-5	Toluene-D8	MB	SURR	111	%	89-112
FA79153-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	110	%	81-118
FA79153-1	2037-26-5	Toluene-D8	SAMP	SURR	104	%	89-112

\* Sample used for QC is not from job FA79153

5.2  
5



## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2433-MB	Z62699.D	1	10/07/20	AG	n/a	n/a	VZ2433

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA79153-1

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	105%	74-125%
2037-26-5	Toluene-D8	111%	88-111%

# Blank Spike Summary

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2433-BS	Z62697.D	1	10/07/20	AG	n/a	n/a	VZ2433

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA79153-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.0	100	76-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	74-125%
2037-26-5	Toluene-D8	104%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA79152-1MS	Z62704.D	10	10/07/20	AG	n/a	n/a	VZ2433
FA79152-1MSD	Z62705.D	10	10/07/20	AG	n/a	n/a	VZ2433
FA79152-1	Z62700.D	1	10/07/20	AG	n/a	n/a	VZ2433

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA79153-1

CAS No.	Compound	FA79152-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	50	48.7	97	50	45.9	92	6	76-136/23

CAS No.	Surrogate Recoveries	MS	MSD	FA79152-1	Limits
17060-07-0	1,2-Dichloroethane-D4	105%	103%	108%	74-125%
2037-26-5	Toluene-D8	99%	100%	106%	88-111%

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2431-BFB	<b>Injection Date:</b> 10/01/20
<b>Lab File ID:</b> Z62654.D	<b>Injection Time:</b> 09:35
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	43555	21.3	Pass
75	30.0 - 60.0% of mass 95	112171	54.7	Pass
95	Base peak, 100% relative abundance	204928	100.0	Pass
96	5.0 - 9.0% of mass 95	14329	6.99	Pass
173	Less than 2.0% of mass 174	1200	0.59 (0.68) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	175723	85.7	Pass
175	5.0 - 9.0% of mass 174	13587	6.63 (7.73) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	171477	83.7 (97.6) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	10768	5.25 (6.28) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2431-IC2431	Z62655.D	10/01/20	10:01	00:26	Initial cal 1
VZ2431-IC2431	Z62656.D	10/01/20	10:20	00:45	Initial cal 2
VZ2431-IC2431	Z62657.D	10/01/20	10:40	01:05	Initial cal 3
VZ2431-IC2431	Z62658.D	10/01/20	10:59	01:24	Initial cal 4
VZ2431-ICC2431	Z62659.D	10/01/20	11:18	01:43	Initial cal 5
VZ2431-IC2431	Z62660.D	10/01/20	11:37	02:02	Initial cal 6
VZ2431-IC2431	Z62661.D	10/01/20	11:59	02:24	Initial cal 7
VZ2431-ICV2431	Z62663.D	10/01/20	13:17	03:42	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2433-BFB	<b>Injection Date:</b> 10/07/20
<b>Lab File ID:</b> Z62695.D	<b>Injection Time:</b> 12:20
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	43800	20.7	Pass
75	30.0 - 60.0% of mass 95	116720	55.1	Pass
95	Base peak, 100% relative abundance	211968	100.0	Pass
96	5.0 - 9.0% of mass 95	16127	7.61	Pass
173	Less than 2.0% of mass 174	599	0.28 (0.32) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	186453	88.0	Pass
175	5.0 - 9.0% of mass 174	13734	6.48 (7.37) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	181803	85.8 (97.5) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	11884	5.61 (6.54) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2433-CC2431	Z62696.D	10/07/20	13:04	00:44	Continuing cal 5
VZ2433-BS	Z62697.D	10/07/20	14:06	01:46	Blank Spike
VZ2433-MB	Z62699.D	10/07/20	14:58	02:38	Method Blank
FA79152-1	Z62700.D	10/07/20	15:17	02:57	(used for QC only; not part of job FA79153)
ZZZZZZ	Z62701.D	10/07/20	15:36	03:16	(unrelated sample)
ZZZZZZ	Z62702.D	10/07/20	15:56	03:36	(unrelated sample)
FA79153-1	Z62703.D	10/07/20	16:15	03:55	2039YOU2454F
FA79152-1MS	Z62704.D	10/07/20	16:35	04:15	Matrix Spike
FA79152-1MSD	Z62705.D	10/07/20	16:54	04:34	Matrix Spike Duplicate
VZ2433-ECC2431	Z62706.D	10/07/20	17:13	04:53	Ending cal 5

# Internal Standard Area Summary

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2433-CC2431	<b>Injection Date:</b> 10/07/20
<b>Lab File ID:</b> Z62696.D	<b>Injection Time:</b> 13:04
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	2158955	7.40	2125137	10.51
Check Std <sup>b</sup>	2888637	7.40	2414515	10.51
Upper Limit <sup>c</sup>	5777274	7.57	4829030	10.68
Lower Limit <sup>d</sup>	1444319	7.23	1207258	10.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ2433-BS	2644992	7.40	2160141	10.51
VZ2433-MB	2242817	7.40	1721479	10.51
FA79152-1	2109086	7.40	1708390	10.51
ZZZZZZ	1949614	7.40	1574101	10.51
ZZZZZZ	1814796	7.40	1481092	10.51
FA79153-1	1844426	7.40	1505350	10.51
FA79152-1MS	2074320	7.40	1754061	10.51
FA79152-1MSD	2135710	7.40	1782708	10.51
VZ2433-ECC2431	2103691	7.40	1786538	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2431-ICC2431 Z62659.D 10/01/20 11:18
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

6.5.1  
6

# Surrogate Recovery Summary

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Method:** SW846 8260B BY SIM                      **Matrix:** AQ

**Samples and QC shown here apply to the above method**

Lab Sample ID	Lab File ID	S1	S2
FA79153-1	Z62703.D	110	104
FA79152-1MS	Z62704.D	105	99
FA79152-1MSD	Z62705.D	103	100
VZ2433-BS	Z62697.D	100	104
VZ2433-MB	Z62699.D	105	111

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

6.6.1  
6



# Initial Calibration Summary

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2431-ICC2431  
**Lab FileID:** Z62659.D

Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Calibration Files

1 =Z62655.D 2 =Z62656.D 3 =Z62657.D 4 =Z62658.D  
 5 =Z62659.D 6 =Z62660.D 7 =Z62661.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.635	0.677	0.651	0.645	0.625	0.586	0.608	0.632	4.72
3) Chloromethane	0.694	0.573	0.553	0.550	0.520	0.494	0.502	0.555	12.20
4) 1,1-Dichloroethen	0.321	0.374	0.371	0.374	0.365	0.345	0.337	0.355	5.91
5) Methylene Chlorid	2.064	0.961	0.705	0.705	0.590	0.559	0.534	0.902	65.45
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9953								
	Response Ratio = 0.00000 + 0.70811 *A + -0.04543 *A^2								
6)T trans-1,2-Dichlor	0.431	0.464	0.473	0.481	0.469	0.455	0.452	0.461	3.60
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
	Response Ratio = 0.00000 + 0.48235 *A + -0.00787 *A^2								
7) 1,1-Dichloroethan	0.745	0.796	0.814	0.815	0.787	0.760	0.743	0.780	3.92
8) cis-1,2-Dichloroe	0.484	0.496	0.511	0.508	0.500	0.491	0.484	0.496	2.15
9) Chloroform	0.958	0.933	0.997	0.971	0.946	0.916	0.893	0.945	3.68
10) Carbon Tetrachlor	0.426	0.487	0.503	0.544	0.560	0.543	0.551	0.516	9.29
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.54675 *A + 0.00078 *A^2								
11) 1,1,1-Trichloroet	0.647	0.745	0.780	0.807	0.802	0.766	0.749	0.757	7.14
12) Benzene	1.643	1.708	1.774	1.779	1.752	1.694	1.643	1.713	3.36
13)S 1,2-Dichloroethan	0.322	0.326	0.325	0.323	0.318	0.312	0.309	0.319	2.11
14) 1,2-Dichloroethan	0.630	0.595	0.650	0.619	0.598	0.586	0.565	0.606	4.75
15) Trichloroethene	0.464	0.470	0.496	0.494	0.494	0.475	0.462	0.479	3.10
16) 1,2-Dichloropropa	0.416	0.401	0.442	0.424	0.417	0.409	0.397	0.415	3.66
17) cis-1,3-Dichlorop	0.326	0.245	0.346	0.379	0.434	0.470	0.503	0.386	23.18
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9946								
	Response Ratio = 0.00000 + 0.47889 *A								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.133	1.089	1.064	1.051	1.044	1.048	1.056	1.069	2.96
20)T trans-1,3-Dichlor	0.240	0.152	0.238	0.278	0.340	0.388	0.439	0.296	33.29
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.22278 *A + 0.05465 *A^2								
21) Tetrachloroethene	0.545	0.555	0.580	0.559	0.549	0.524	0.509	0.546	4.31

(#) = Out of Range

6.7.1  
6

## Initial Calibration Verification

Job Number: FA79153  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2431-ICV2431  
 Lab FileID: Z62663.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\100120\Z62663.D Vial: 11  
 Acq On : 1 Oct 2020 1:17 pm Operator: AKARIG  
 Sample : icv2431-5 Inst : MSVOA15  
 Misc : MS47304,VZ2431,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sat Oct 03 15:38:22 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	93	0.00	7.40
2	Vinyl Chloride	0.632	0.638	-0.9	95	0.00	2.83
3	Chloromethane	0.555	0.508	8.5	91	0.00	2.72
4	1,1-Dichloroethene	0.355	0.400	-12.7	101	0.00	4.08
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	11.550	-15.5	109	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	11.165	-11.6	103	0.00	4.88
	----- AvgRF	CCRF	%Dev	-----			
7	1,1-Dichloroethane	0.780	0.860	-10.3	101	0.00	5.54
8	cis-1,2-Dichloroethene	0.496	0.542	-9.3	100	0.00	6.10
9	Chloroform	0.945	1.001	-5.9	98	0.00	6.37
	----- Amount	Calc.	%Drift	-----			
10	Carbon Tetrachloride	10.000	11.998	-20.0	109	0.00	6.54
	----- AvgRF	CCRF	%Dev	-----			
11	1,1,1-Trichloroethane	0.757	0.863	-14.0	100	0.00	6.61
12	Benzene	1.713	1.914	-11.7	101	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.319	0.316	0.9	92	0.00	7.12
14	1,2-Dichloroethane	0.606	0.637	-5.1	99	0.00	7.19
15	Trichloroethene	0.479	0.532	-11.1	100	0.00	7.56
16	1,2-Dichloropropane	0.415	0.453	-9.2	101	0.00	8.10
	----- Amount	Calc.	%Drift	-----			
17	cis-1,3-Dichloropropene	10.000	11.774	-17.7	120	0.00	8.77
	----- AvgRF	CCRF	%Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00	10.51
19 S	Toluene-d8	1.069	1.035	3.2	92	0.00	8.96
	----- Amount	Calc.	%Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	13.458	-34.6#	137	0.00	9.41
	----- AvgRF	CCRF	%Dev	-----			
21	Tetrachloroethene	0.546	0.577	-5.7	98	0.00	9.40

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

# Initial Calibration Verification

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2431-ICV2431  
**Lab FileID:** Z62663.D

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Z62659.D SIMCL100120.M Mon Oct 05 20:49:17 2020

# Continuing Calibration Summary

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2433-CC2431  
**Lab FileID:** Z62696.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\vz2433\Z62696.d Vial: 3  
 Acq On : 7 Oct 2020 1:04 pm Operator: AKARIG  
 Sample : cc2431-5 Inst : MSVOA15  
 Misc : MS47304,VZ2433,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sat Oct 03 15:38:22 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	134	0.00	7.40
2	Vinyl Chloride	0.632	0.534	15.5	114	0.00	2.84
3	Chloromethane	0.555	0.476	14.2	123	0.00	2.73
4	1,1-Dichloroethene	0.355	0.331	6.8	121	0.00	4.08
		----- True	Calc.	% Drift	-----		
5	Methylene Chloride	10.000	8.517	14.8	122	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	9.383	6.2	125	0.00	4.88
		----- AvgRF	CCRF	% Dev	-----		
7	1,1-Dichloroethane	0.780	0.736	5.6	125	0.00	5.54
8	cis-1,2-Dichloroethene	0.496	0.462	6.9	124	0.00	6.10
9	Chloroform	0.945	0.879	7.0	124	0.00	6.37
		----- True	Calc.	% Drift	-----		
10	Carbon Tetrachloride	10.000	10.012	-0.1	131	0.00	6.54
		----- AvgRF	CCRF	% Dev	-----		
11	1,1,1-Trichloroethane	0.757	0.743	1.8	124	0.00	6.61
12	Benzene	1.713	1.613	5.8	123	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.319	0.310	2.8	131	0.00	7.12
14	1,2-Dichloroethane	0.606	0.550	9.2	123	0.00	7.19
15	Trichloroethene	0.479	0.452	5.6	122	0.00	7.56
16	1,2-Dichloropropane	0.415	0.377	9.2	121	0.00	8.10
		----- True	Calc.	% Drift	-----		
17	cis-1,3-Dichloropropene	10.000	9.710	2.9	143	0.00	8.77
		----- AvgRF	CCRF	% Dev	-----		
18 I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00	10.51
19 S	Toluene-d8	1.069	1.098	-2.7	119	0.00	8.96
		----- True	Calc.	% Drift	-----		
20 T	trans-1,3-Dichloropropene	10.000	13.277	-32.8#	164	0.00	9.41
		----- AvgRF	CCRF	% Dev	-----		
21	Tetrachloroethene	0.546	0.587	-7.5	121	0.00	9.40

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

# Continuing Calibration Summary

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2433-CC2431  
**Lab FileID:** Z62696.D

---

Z62659.D SIMCL100120.M Wed Oct 07 20:53:40 2020

# Continuing Calibration Summary

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2433-ECC2431  
**Lab FileID:** Z62706.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\vz2433\Z62706.d Vial: 13  
 Acq On : 7 Oct 2020 5:13 pm Operator: AKARIG  
 Sample : ecc2431-5 Inst : MSVOA15  
 Misc : MS47304,VZ2433,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sat Oct 03 15:38:22 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	97	0.00	7.40
2	Vinyl Chloride	0.632	0.607	4.0	95	0.00	2.84
3	Chloromethane	0.555	0.528	4.9	99	0.01	2.74
4	1,1-Dichloroethene	0.355	0.394	-11.0	105	0.00	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	9.593	4.1	98	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	10.892	-8.9	105	0.00	4.89
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.780	0.855	-9.6	106	0.00	5.55
8	cis-1,2-Dichloroethene	0.496	0.534	-7.7	104	0.00	6.11
9	Chloroform	0.945	1.032	-9.2	106	0.00	6.38
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	11.424	-14.2	109	0.00	6.54
	----- AvgRF	CCRF	% Dev	-----			
11	1,1,1-Trichloroethane	0.757	0.874	-15.5	106	0.00	6.61
12	Benzene	1.713	1.890	-10.3	105	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.319	0.321	-0.6	99	0.00	7.13
14	1,2-Dichloroethane	0.606	0.659	-8.7	107	0.00	7.20
15	Trichloroethene	0.479	0.543	-13.4	107	0.00	7.56
16	1,2-Dichloropropane	0.415	0.447	-7.7	104	0.00	8.11
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.982	0.2	107	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	10.51
19 S	Toluene-d8	1.069	1.068	0.1	86	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	12.776	-27.8	115	0.00	9.41
	----- AvgRF	CCRF	% Dev	-----			
21	Tetrachloroethene	0.546	0.694	-27.1	106	0.00	9.40

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

# Continuing Calibration Summary

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2433-ECC2431  
**Lab FileID:** Z62706.D

---

Z62659.D SIMCL100120.M Wed Oct 07 20:53:23 2020

**Run Sequence Report**

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2431	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
-----------------------	-----------------------------------	-----------------------------

<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VZ2431-BFB	Z62654.D	10/01/20 09:35	n/a	BFB Tune
VZ2431-IC2431	Z62655.D	10/01/20 10:01	n/a	Initial cal 1
VZ2431-IC2431	Z62656.D	10/01/20 10:20	n/a	Initial cal 2
VZ2431-IC2431	Z62657.D	10/01/20 10:40	n/a	Initial cal 3
VZ2431-IC2431	Z62658.D	10/01/20 10:59	n/a	Initial cal 4
VZ2431-ICC2431	Z62659.D	10/01/20 11:18	n/a	Initial cal 5
VZ2431-IC2431	Z62660.D	10/01/20 11:37	n/a	Initial cal 6
VZ2431-IC2431	Z62661.D	10/01/20 11:59	n/a	Initial cal 7
VZ2431-ICV2431	Z62663.D	10/01/20 13:17	n/a	Initial cal verification 5



**Run Sequence Report**

**Job Number:** FA79153  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2433	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
-----------------------	-----------------------------------	-----------------------------

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2433-BFB	Z62695.D	10/07/20 12:20	n/a	BFB Tune
VZ2433-CC2431	Z62696.D	10/07/20 13:04	n/a	Continuing cal 5
VZ2433-BS	Z62697.D	10/07/20 14:06	n/a	Blank Spike
VZ2433-MB	Z62699.D	10/07/20 14:58	n/a	Method Blank
FA79152-1	Z62700.D	10/07/20 15:17	n/a	(used for QC only; not part of job FA79153)
ZZZZZZ	Z62701.D	10/07/20 15:36	n/a	(unrelated sample)
ZZZZZZ	Z62702.D	10/07/20 15:56	n/a	(unrelated sample)
FA79153-1	Z62703.D	10/07/20 16:15	n/a	2039YOU2454F
FA79152-1MS	Z62704.D	10/07/20 16:35	n/a	Matrix Spike
FA79152-1MSD	Z62705.D	10/07/20 16:54	n/a	Matrix Spike Duplicate
VZ2433-ECC2431	Z62706.D	10/07/20 17:13	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\vz2433\  
Data File : Z62703.d  
Acq On : 7 Oct 2020 4:15 pm  
Operator : AKARIG  
Sample : fa79153-1  
Misc : MS47343,VZ2433,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 20:46:24 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1844426	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1505350	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	650205	5.52	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	110.40%	
19) Toluene-d8	8.961	98	1666467	5.18	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.60%	
Target Compounds							
3) Chloromethane	2.733	50	43938	0.21	ppb		Qvalue 99
5) Methylene Chloride	4.713	84	70196	0.27	ppb		99
15) Trichloroethene	7.571	95	10380	0.06	ppb		91
-----							

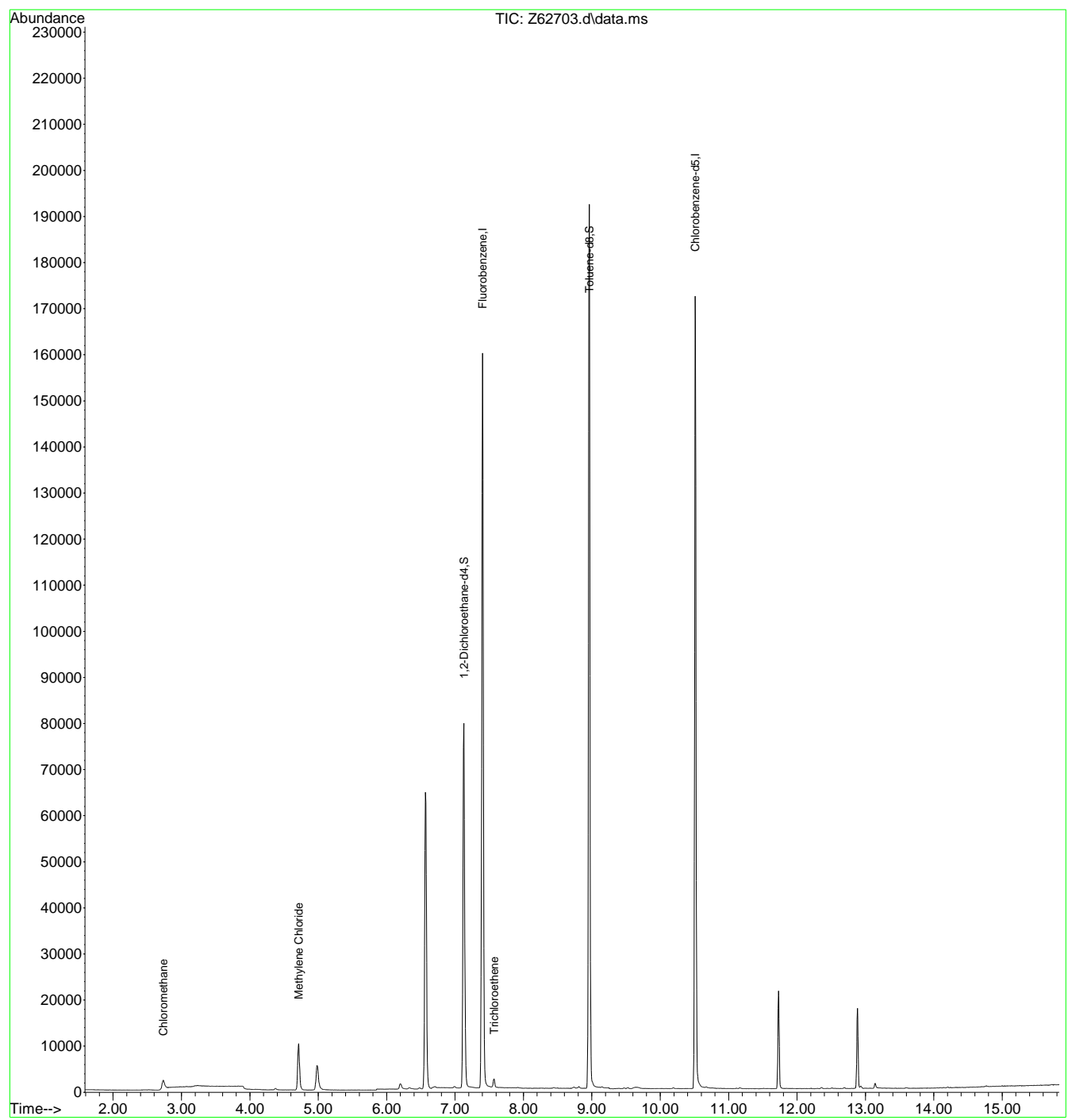
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1  
7

Quantitation Report (QT Reviewed)

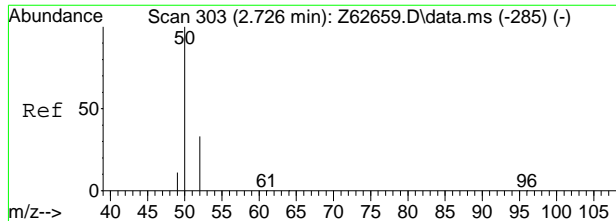
Data Path : C:\msdchem\1\data\edessas\10-08-2020\vz2433\  
Data File : Z62703.d  
Acq On : 7 Oct 2020 4:15 pm  
Operator : AKARIG  
Sample : fa79153-1  
Misc : MS47343,VZ2433,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 20:46:24 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



711  
7

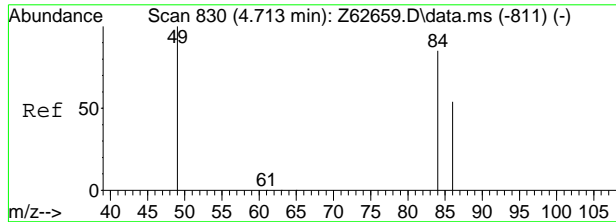
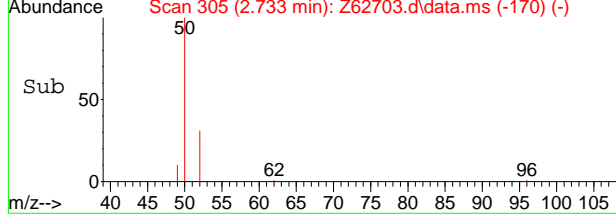
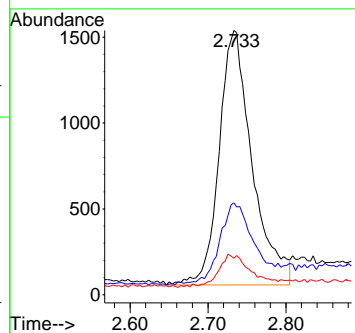
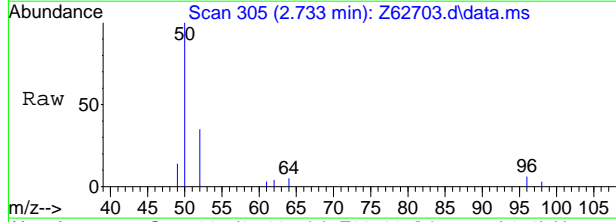




#3  
 Chloromethane  
 Concen: 0.21 ppb  
 RT: 2.733 min Scan# 305  
 Delta R.T. 0.007 min  
 Lab File: Z62703.d  
 Acq: 7 Oct 2020 4:15 pm

Tgt Ion: 50 Resp: 43938

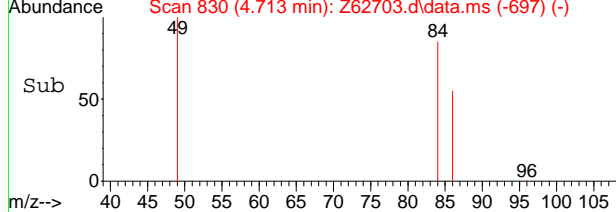
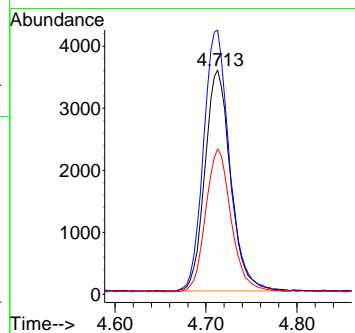
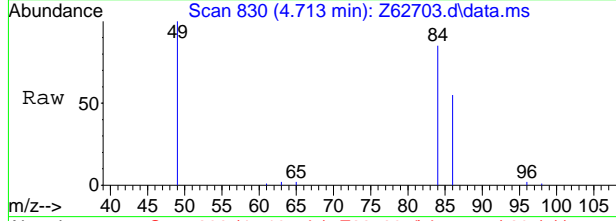
Ion	Ratio	Lower	Upper
50	100		
52	32.2	12.9	52.9
49	10.8	0.0	30.7



#5  
 Methylene Chloride  
 Concen: 0.27 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62703.d  
 Acq: 7 Oct 2020 4:15 pm

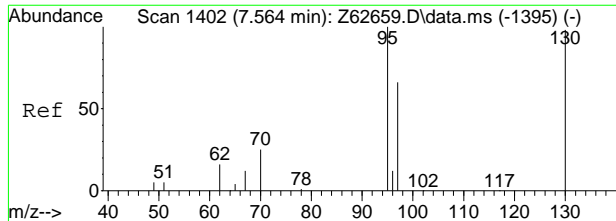
Tgt Ion: 84 Resp: 70196

Ion	Ratio	Lower	Upper
84	100		
49	118.0	98.2	138.2
86	64.6	43.5	83.5



7.1.1  
7

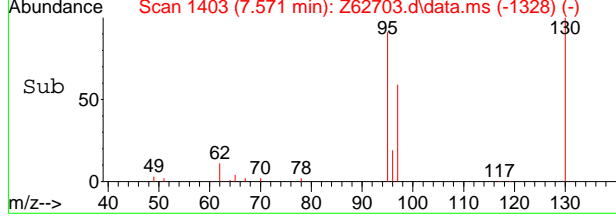
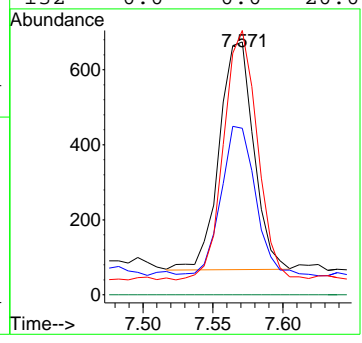
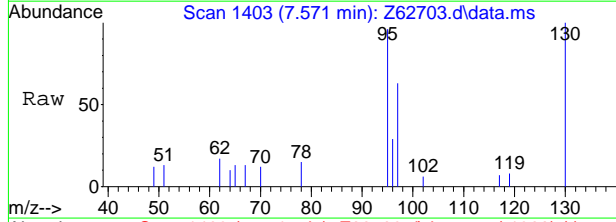




#15  
 Trichloroethene  
 Concen: 0.06 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.007 min  
 Lab File: Z62703.d  
 Acq: 7 Oct 2020 4:15 pm

Tgt Ion: 95 Resp: 10380

Ion	Ratio	Lower	Upper
95	100		
97	63.0	46.4	86.4
130	108.9	77.5	117.5
132	0.0	0.0	20.0



7.1.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\VZ2433\  
 Data File : Z62699.d  
 Acq On : 7 Oct 2020 2:58 pm  
 Operator : AKARIG  
 Sample : mb  
 Misc : MS47343,VZ2433,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 20:46:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2242817	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1721479	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	755009	5.27	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	105.40%
19) Toluene-d8	8.961	98	2044401	5.55	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.00%
Target Compounds						
5) Methylene Chloride	4.713	84	222796	0.71	ppb	Qvalue 98
-----						

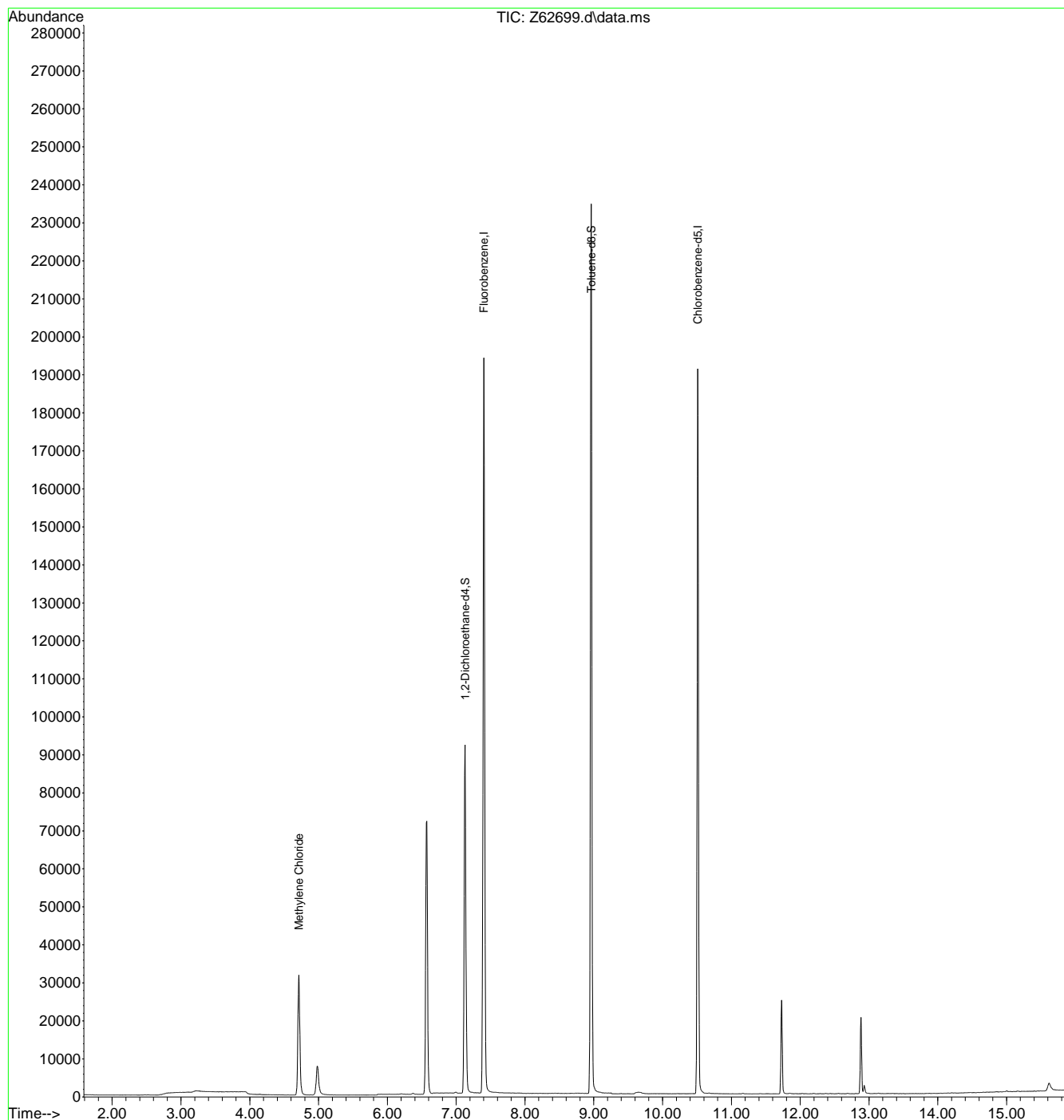
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.2.1  
7

Quantitation Report (QT Reviewed)

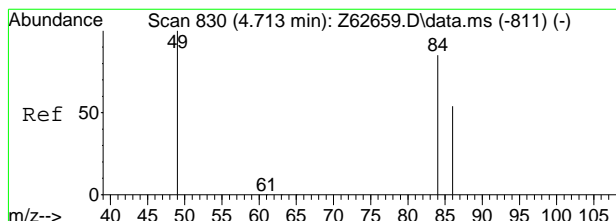
Data Path : C:\msdchem\1\data\edessas\10-08-2020\vz2433\  
Data File : Z62699.d  
Acq On : 7 Oct 2020 2:58 pm  
Operator : AKARIG  
Sample : mb  
Misc : MS47343,VZ2433,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 20:46:16 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



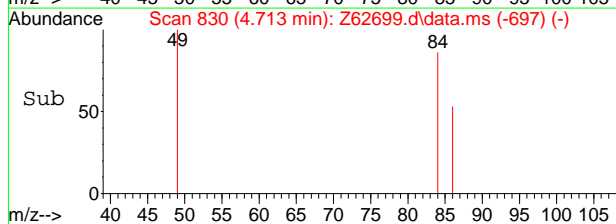
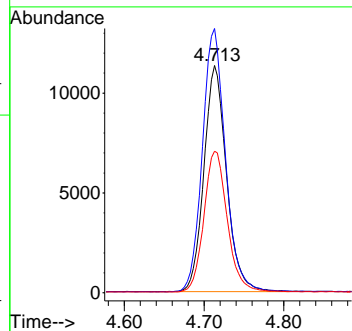
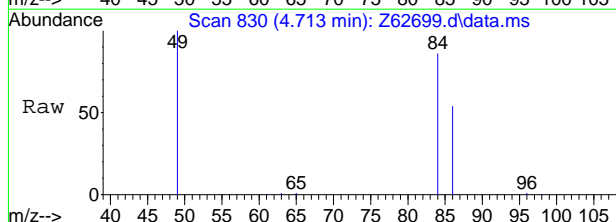
7.2.1  
7





#5  
 Methylene Chloride  
 Concen: 0.71 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62699.d  
 Acq: 7 Oct 2020 2:58 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	116.6	98.2	138.2
86	62.3	43.5	83.5



7.2.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\VZ2433\  
 Data File : Z62697.d  
 Acq On : 7 Oct 2020 2:06 pm  
 Operator : AKARIG  
 Sample : bs  
 Misc : MS47343,VZ2433,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 07 20:46:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2644992	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2160141	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	846361	5.01	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	100.20%		
19) Toluene-d8	8.958	98	2400893	5.20	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	104.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1511787	4.52	ppb		100
3) Chloromethane	2.737	50	1386910	4.72	ppb		100
4) 1,1-Dichloroethene	4.079	96	911609	4.85	ppb		97
5) Methylene Chloride	4.709	84	1446868	4.08	ppb		99
6) trans-1,2-Dichloroethene	4.883	96	1143914	4.55	ppb		96
7) 1,1-Dichloroethane	5.539	63	1903425	4.61	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	1161984	4.42	ppb		98
9) Chloroform	6.371	83	2217188	4.44	ppb		100
10) Carbon Tetrachloride	6.543	117	1445976	4.99	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	1907489	4.77	ppb		100
12) Benzene	6.987	78	4233416	4.67	ppb		98
14) 1,2-Dichloroethane	7.191	62	1422567	4.44	ppb		99
15) Trichloroethene	7.564	95	1199201	4.73	ppb		93
16) 1,2-Dichloropropane	8.101	63	981785	4.47	ppb		100
17) cis-1,3-Dichloropropene	8.769	75	1119483	4.42	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	943427	7.12	ppb		98
21) Tetrachloroethene	9.399	166	1293601	5.48	ppb		98

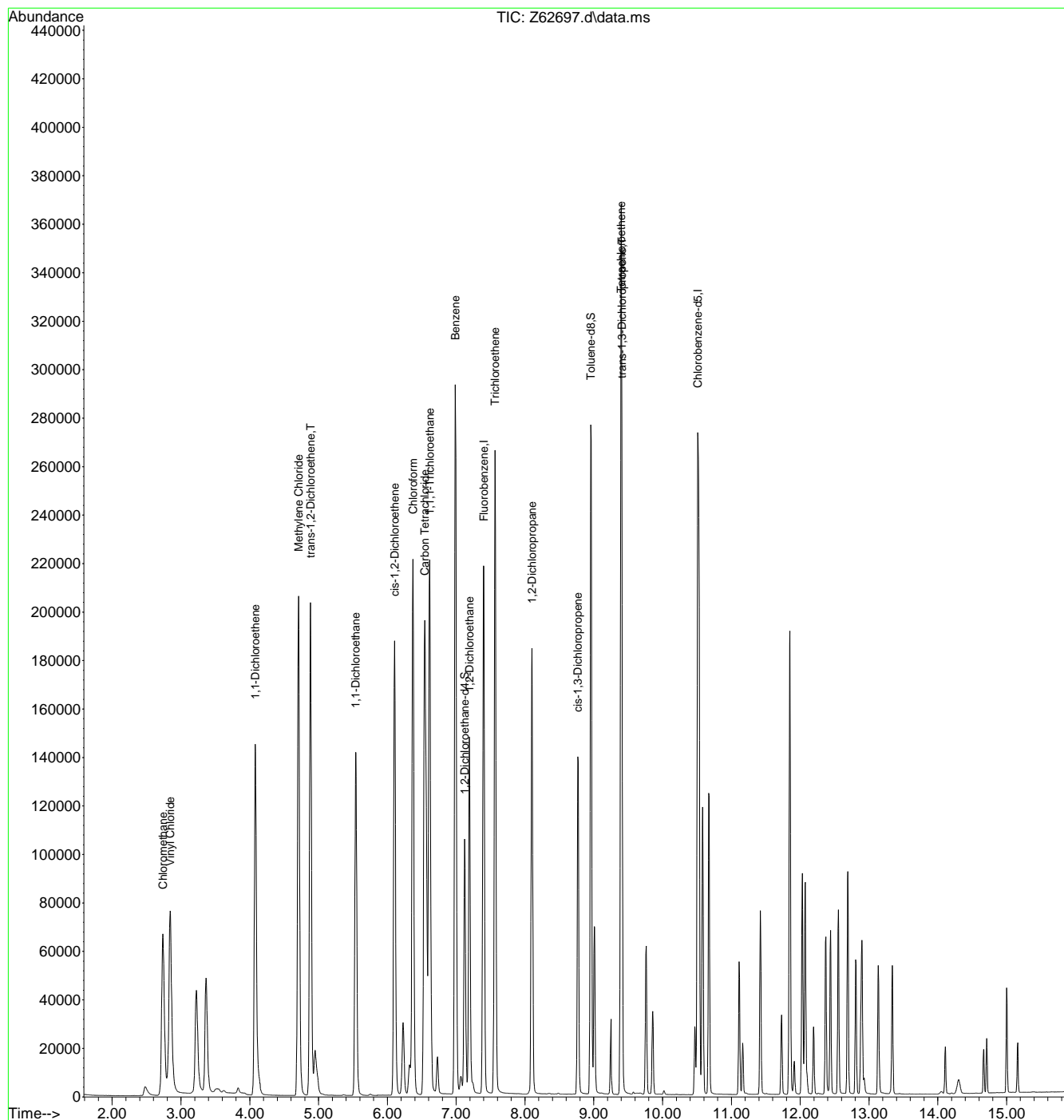
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\vz2433\  
 Data File : Z62697.d  
 Acq On : 7 Oct 2020 2:06 pm  
 Operator : AKARIG  
 Sample : bs  
 Misc : MS47343,VZ2433,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 07 20:46:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration



7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\ vz2433\  
 Data File : Z62704.d  
 Acq On : 7 Oct 2020 4:35 pm  
 Operator : AKARIG  
 Sample : fa79152-1ms  
 Misc : MS47343,VZ2433,,,,,10  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 20:46:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2074320	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1754061	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	696567	5.26	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	105.20%	
19) Toluene-d8	8.961	98	1854745	4.94	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1275751	4.86	ppb		99
3) Chloromethane	2.733	50	1064224	4.62	ppb		100
4) 1,1-Dichloroethene	4.083	96	762086	5.17	ppb		98
5) Methylene Chloride	4.713	84	1191211	4.29	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	932729	4.73	ppb		95
7) 1,1-Dichloroethane	5.546	63	1621711	5.01	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	952709	4.63	ppb		97
9) Chloroform	6.377	83	1914405	4.88	ppb		100
10) Carbon Tetrachloride	6.543	117	1105333	4.87	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	1592419	5.07	ppb		100
12) Benzene	6.994	78	3553486	5.00	ppb		99
14) 1,2-Dichloroethane	7.198	62	1226904	4.88	ppb		100
15) Trichloroethene	7.571	95	1023345	5.15	ppb		86
16) 1,2-Dichloropropane	8.105	63	837162	4.86	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	755225	3.80	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	586673	5.72	ppb		99
21) Tetrachloroethene	9.399	166	1133087	5.92	ppb		99

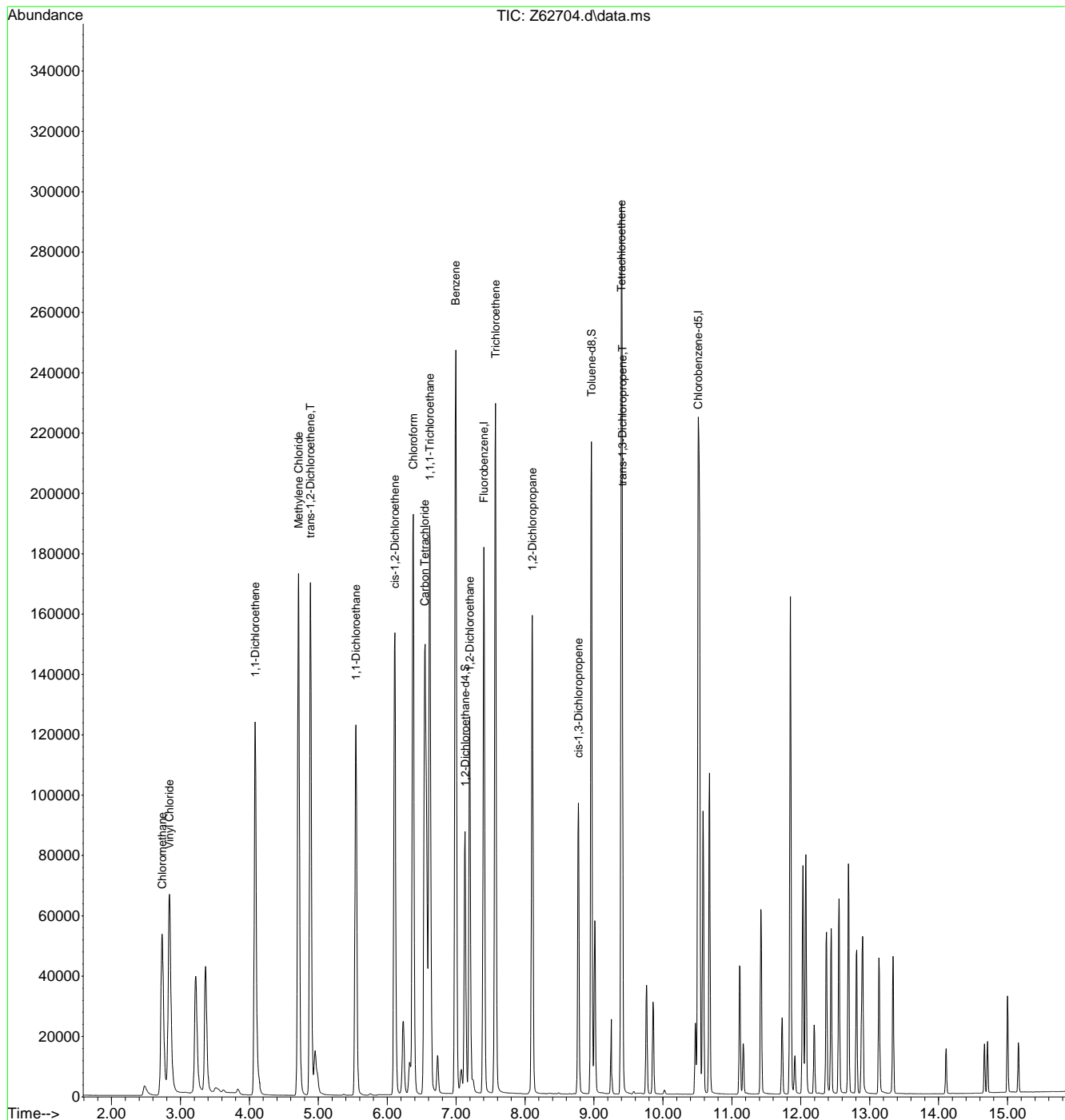
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\vz2433\  
 Data File : Z62704.d  
 Acq On : 7 Oct 2020 4:35 pm  
 Operator : AKARIG  
 Sample : fa79152-1ms  
 Misc : MS47343,VZ2433,,,,,10  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 20:46:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration



7.4.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\ vz2433\  
 Data File : Z62705.d  
 Acq On : 7 Oct 2020 4:54 pm  
 Operator : AKARIG  
 Sample : fa79152-1msd  
 Misc : MS47343,VZ2433,,,,,10  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 20:46:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

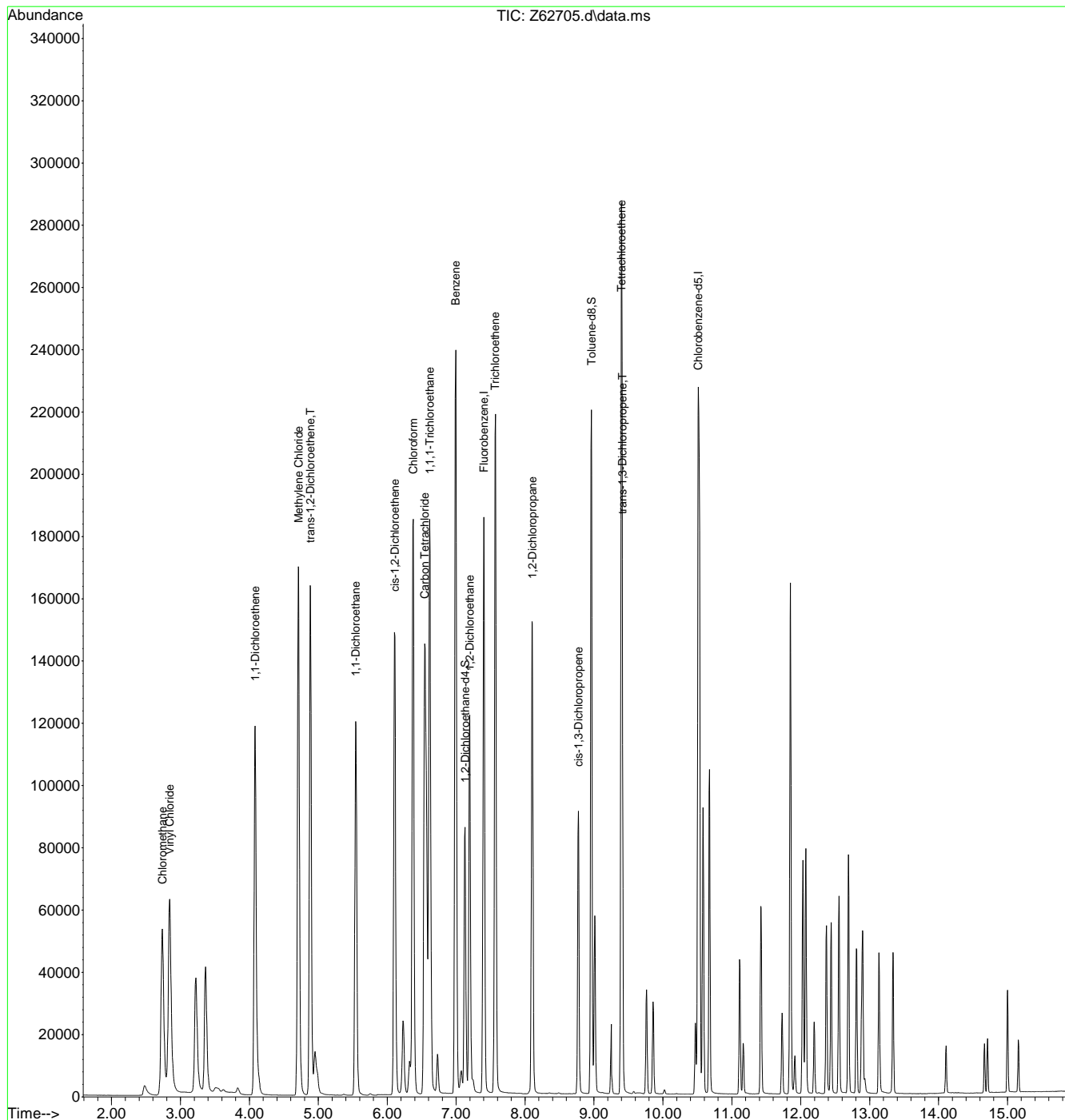
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2135710	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1782708	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	704160	5.16	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.20%	
19) Toluene-d8	8.961	98	1908338	5.00	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1259130	4.66	ppb		99
3) Chloromethane	2.737	50	1071847	4.52	ppb		100
4) 1,1-Dichloroethene	4.083	96	759015	5.00	ppb		99
5) Methylene Chloride	4.713	84	1207767	4.22	ppb		98
6) trans-1,2-Dichloroethene	4.886	96	927218	4.57	ppb		94
7) 1,1-Dichloroethane	5.543	63	1596714	4.79	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	944923	4.46	ppb		97
9) Chloroform	6.377	83	1881144	4.66	ppb		99
10) Carbon Tetrachloride	6.543	117	1074080	4.59	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1560078	4.83	ppb		100
12) Benzene	6.994	78	3502682	4.79	ppb		99
14) 1,2-Dichloroethane	7.198	62	1201632	4.64	ppb		100
15) Trichloroethene	7.564	95	1007118	4.92	ppb		99
16) 1,2-Dichloropropane	8.105	63	817799	4.61	ppb		100
17) cis-1,3-Dichloropropene	8.773	75	725362	3.55	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	546028	5.31	ppb		99
21) Tetrachloroethene	9.399	166	1100864	5.66	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\vz2433\  
Data File : Z62705.d  
Acq On : 7 Oct 2020 4:54 pm  
Operator : AKARIG  
Sample : fa79152-1msd  
Misc : MS47343,VZ2433,,,,,10  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 20:46:28 2020  
Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sat Oct 03 15:38:22 2020  
Response via : Initial Calibration



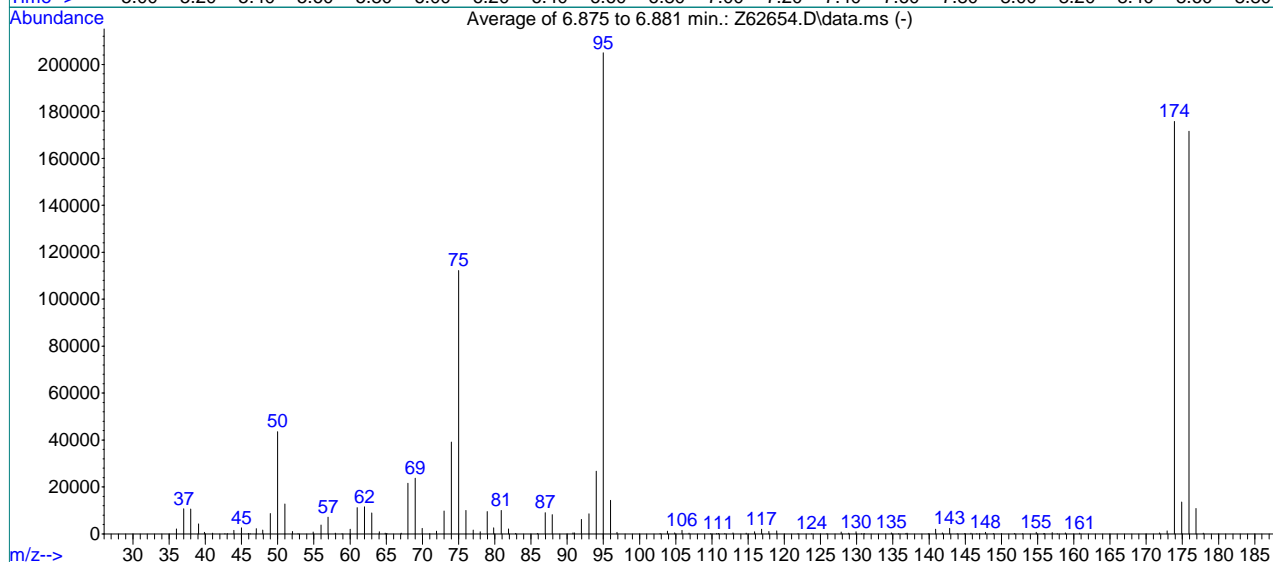
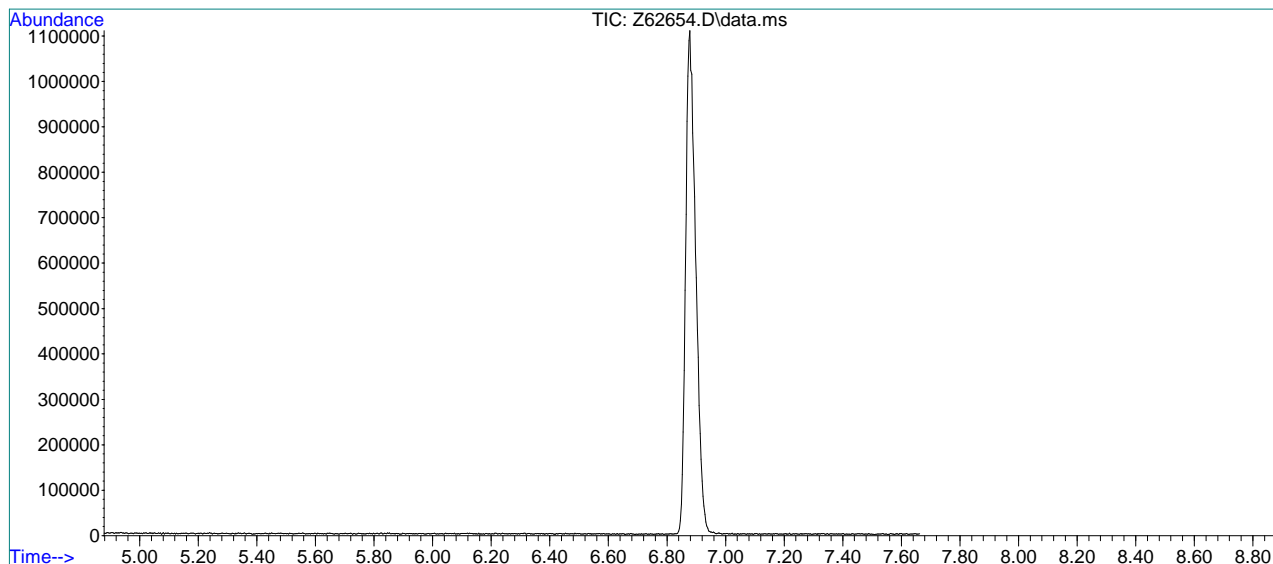
7.4.2  
7

BFB

Data File : C:\msdchem\1\data\100120\Z62654.D  
 Acq On : 1 Oct 2020 9:35 am  
 Sample : bfb  
 Misc : MS47304,VZ2431,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: AKARIG  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2111, 2112, 2113; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	43555	PASS
75	95	30	60	54.7	112171	PASS
95	95	100	100	100.0	204928	PASS
96	95	5	9	7.0	14329	PASS
173	174	0.00	2	0.7	1200	PASS
174	95	50	100	85.7	175723	PASS
175	174	5	9	7.7	13587	PASS
176	174	95	101	97.6	171477	PASS
177	176	5	9	6.3	10768	PASS

7.5.1  
7



Average of 6.875 to 6.881 min.: Z62654.D\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	2112	46.20	69	57.95	344	69.00	23757
37.00	10663	47.05	2218	58.90	51	69.95	2332
38.00	10556	47.95	1664	60.00	2004	71.00	74
39.05	4303	49.00	8710	61.00	11178	71.95	1084
39.90	640	50.00	43555	62.00	11492	73.00	9686
41.00	361	51.00	12735	63.00	8852	74.00	39091
42.70	86	52.05	980	64.05	921	75.00	112171
43.05	127	52.80	53	64.85	320	76.00	9933
43.95	1478	54.90	728	65.10	174	77.00	1620
45.00	2538	56.00	3732	67.05	351	78.00	879
45.95	205	56.95	7072	68.00	21616	78.95	9453

Average of 6.875 to 6.881 min.: Z62654.D\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.85	2599	94.00	26731	110.90	173	127.85	816
80.90	10017	95.00	204928	111.80	143	128.90	290
81.90	2083	96.00	14329	112.90	391	129.90	844
82.85	242	96.90	632	114.75	317	130.70	109
85.90	208	102.85	149	115.90	878	131.05	224
86.95	8977	103.85	1085	116.85	1945	134.80	486
87.95	8196	104.85	473	117.85	1020	135.80	70
90.80	425	105.85	1558	118.95	1257	136.80	203
91.00	419	106.85	334	121.90	60	136.95	334
91.95	6134	109.80	66	123.80	78	139.90	77
93.00	8579	110.65	148	125.90	65	140.90	2036

Average of 6.875 to 6.881 min.: Z62654.D\data.ms  
bfb

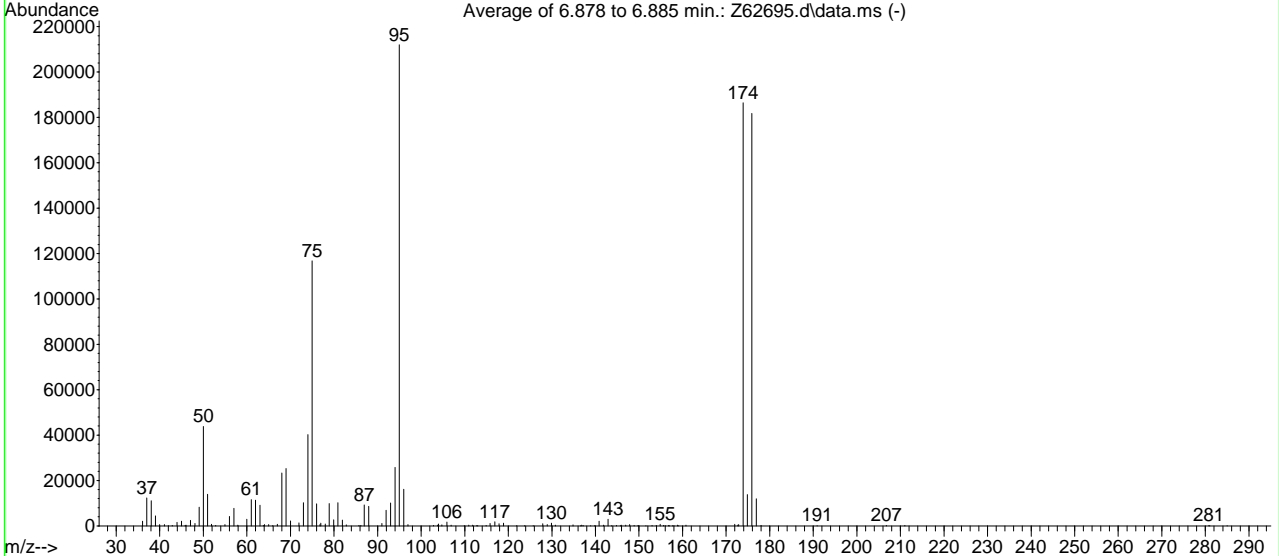
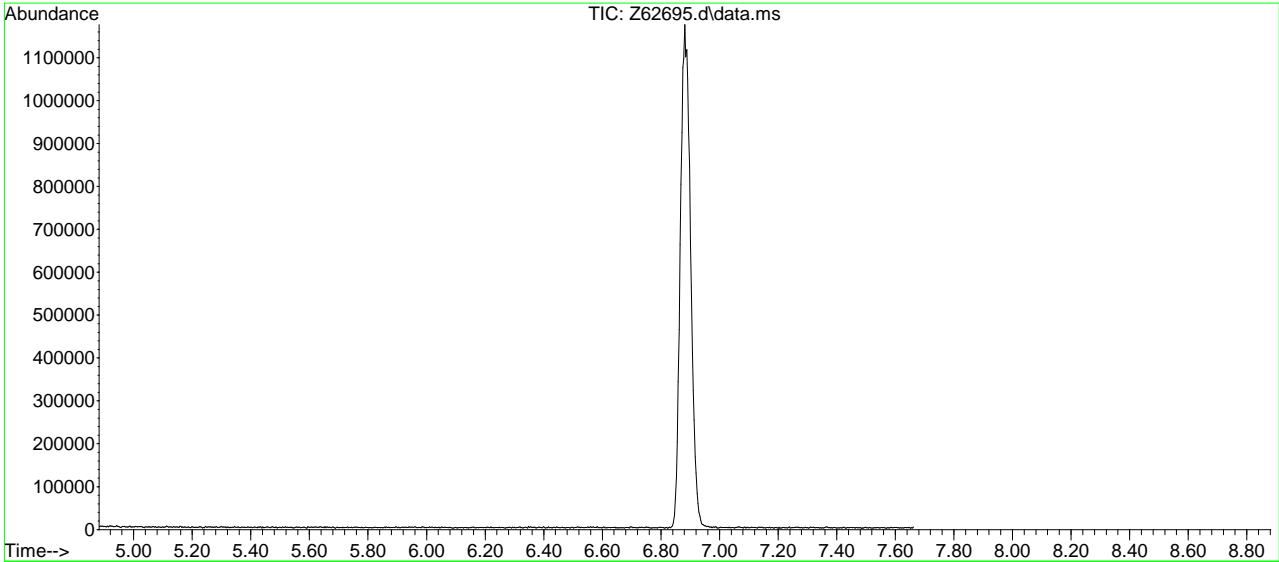
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
141.85	441	152.90	124	174.90	13587		
142.85	2359	154.80	653	175.90	171477		
143.90	108	155.80	92	176.90	10768		
144.95	129	155.95	160	177.90	288		
145.80	301	157.00	508				
146.60	55	157.70	75				
147.00	55	158.85	393				
147.80	690	160.80	345				
148.90	144	171.85	388				
150.00	56	172.90	1200				
151.80	247	173.90	175723				

BFB

Data File : C:\msdchem\1\data\ed...-2020\ vz2433\Z62695.d Vial: 100  
 Acq On : 7 Oct 2020 12:20 pm Operator: AKARIG  
 Sample : bfb Inst : MSVOA15  
 Misc : MS47304,VZ2433,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL100120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2112, 2113, 2114; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	43800	PASS
75	95	30	60	55.1	116720	PASS
95	95	100	100	100.0	211968	PASS
96	95	5	9	7.6	16127	PASS
173	174	0.00	2	0.3	599	PASS
174	95	50	100	88.0	186453	PASS
175	174	5	9	7.4	13734	PASS
176	174	95	101	97.5	181803	PASS
177	176	5	9	6.5	11884	PASS

7.5.2  
7

Average of 6.878 to 6.885 min.: Z62695.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	2040	46.05	298	57.95	375	69.00	25301
37.00	12265	47.05	2433	59.95	2919	70.00	2177
38.05	11050	48.05	1113	61.00	11563	71.95	1278
39.00	4405	49.05	8209	62.00	11290	73.00	10253
39.95	533	50.00	43800	63.00	9086	74.00	40147
41.05	623	51.00	13869	63.80	240	75.00	116720
42.00	9	51.90	639	64.05	597	76.00	9716
42.85	174	52.85	200	65.00	528	76.80	611
43.95	1605	54.95	604	65.90	68	76.95	1186
45.00	2060	56.00	4157	67.00	700	78.00	843
45.80	158	57.00	7747	68.00	23291	78.90	9774

Average of 6.878 to 6.885 min.: Z62695.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.90	2633	94.00	25733	110.90	291	125.70	51
80.90	10241	95.00	211968	111.85	332	127.90	879
81.90	2493	96.00	16127	112.80	232	128.95	586
82.80	405	96.95	537	113.00	76	129.90	1138
85.70	134	102.85	152	114.90	154	130.80	337
86.15	195	103.80	355	115.80	995	134.85	394
86.95	9236	103.95	847	116.90	1850	136.60	106
87.95	8631	104.75	393	117.85	983	136.85	361
91.00	1014	105.90	1628	118.90	1171	137.20	130
91.95	6834	106.85	320	121.90	92	138.90	57
92.95	10099	109.90	89	123.70	79	139.80	121

Average of 6.878 to 6.885 min.: Z62695.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
140.85	2093	150.00	108	158.85	274	190.90	55
141.90	344	151.60	57	159.10	94	206.80	174
142.90	2914	153.00	139	160.75	292	211.00	141
143.70	52	153.95	181	172.00	639	280.80	135
144.80	157	154.85	643	172.70	273	281.00	96
145.70	74	155.65	153	172.85	599	285.00	108
145.90	261	156.00	88	173.90	186453		
146.95	256	156.80	232	174.90	13734		
147.85	570	157.00	100	175.90	181803		
148.90	171	157.70	65	176.90	11884		
149.75	237	158.00	88	178.05	222		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 12:48:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2225777	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2039325	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	717461	5.05	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	101.00%		
19) Toluene-d8	8.958	98	2310011	5.30	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	106.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.831	62	28258	0.10	ppb		99
3) Chloromethane	2.726	50	30914	0.13	ppb		98
4) 1,1-Dichloroethene	4.080	96	14291	0.09	ppb		96
5) Methylene Chloride	4.709	84	419797	1.36	ppb		99
6) trans-1,2-Dichloroethene	4.883	96	19172	0.09	ppb		96
7) 1,1-Dichloroethane	5.539	63	33176	0.10	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	21567	0.10	ppb		98
9) Chloroform	6.371	83	42647	0.10	ppb		99
10) Carbon Tetrachloride	6.543	117	18965	0.08	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	28789	0.09	ppb		91
12) Benzene	6.987	78	73128	0.10	ppb		96
14) 1,2-Dichloroethane	7.191	62	28033	0.10	ppb		98
15) Trichloroethene	7.564	95	20638	0.10	ppb		94
16) 1,2-Dichloropropane	8.101	63	18506m	0.10	ppb		
17) cis-1,3-Dichloropropene	8.773	75	14498	0.10	ppb		93
20) trans-1,3-Dichloropropene	9.412	75	9793	0.11	ppb		97
21) Tetrachloroethene	9.395	166	22239	0.10	ppb		98
-----							

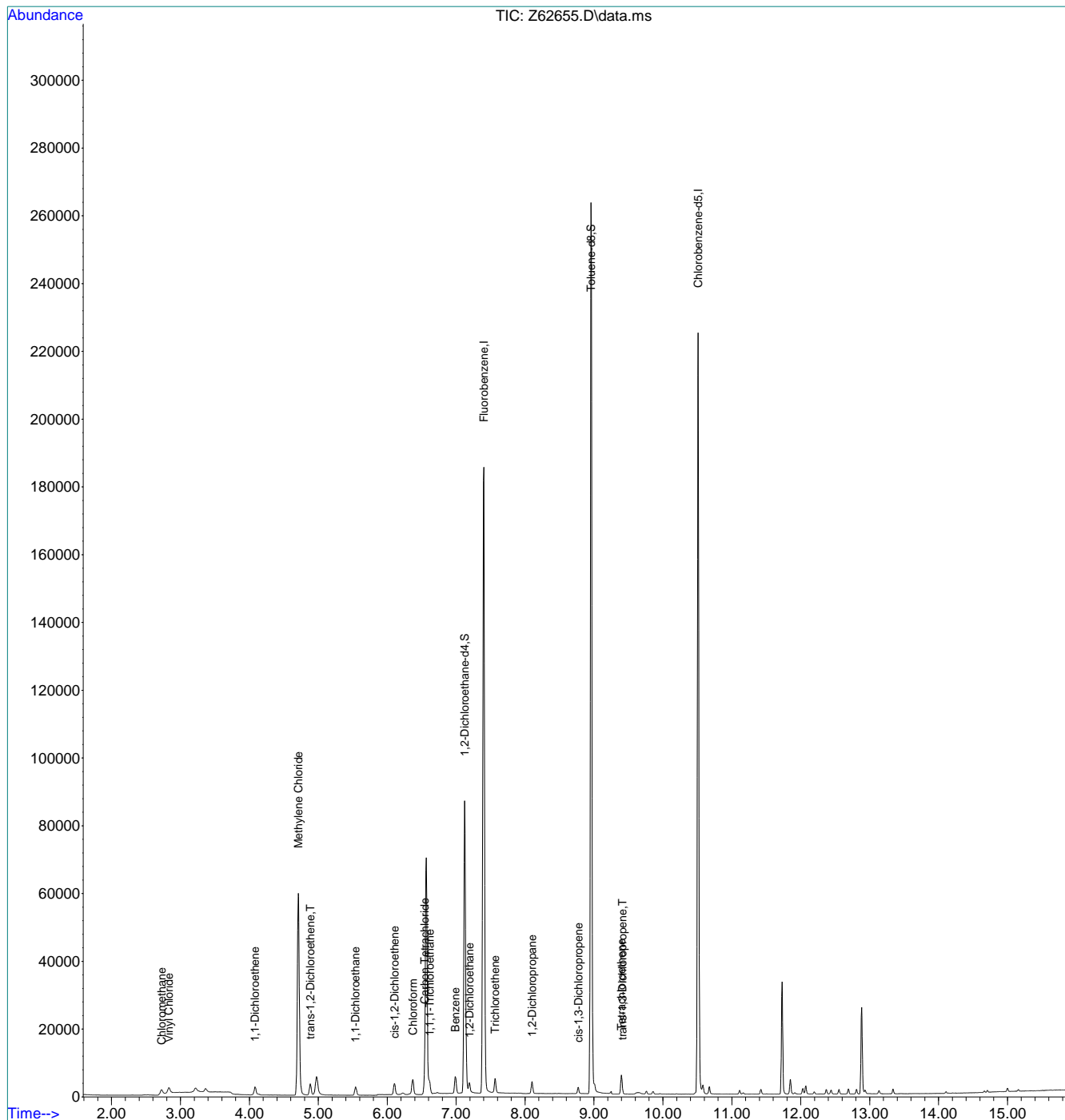
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6-1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 12:48:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.1  
7

# Manual Integration Approval Summary

**Sample Number:** VZ2431-IC2431      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62655.D      **Analyst approved:** 10/05/20 20:33 Stuti Patel  
**Injection Time:** 10/01/20 10:01      **Supervisor approved:** 10/06/20 11:28 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichloropropane	78-87-5		8.10	Poor instrument integration

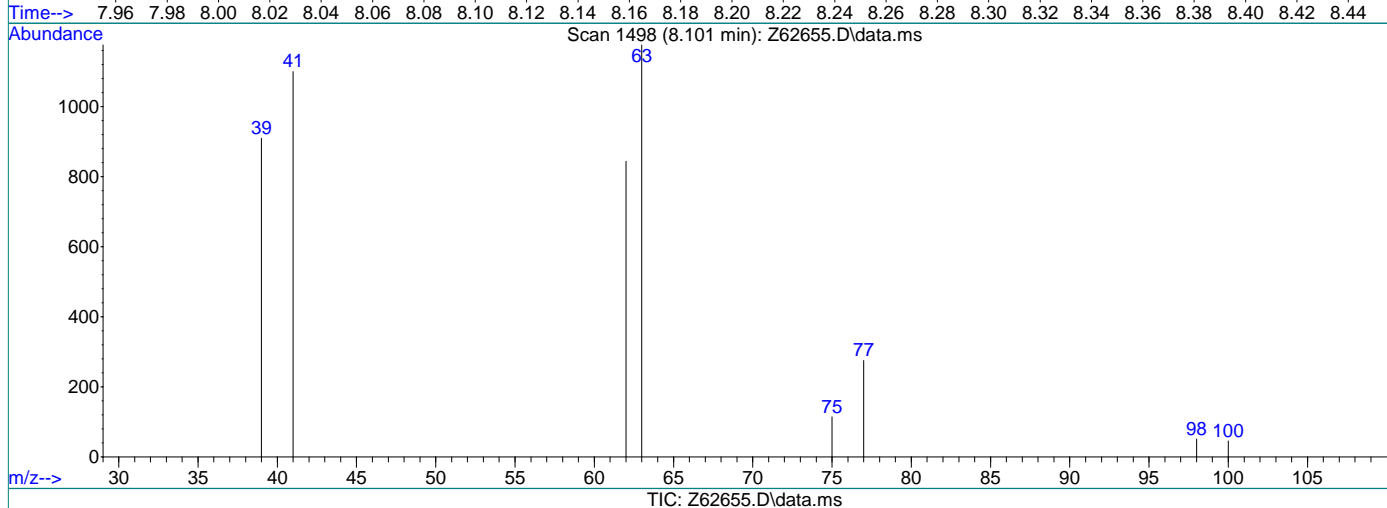
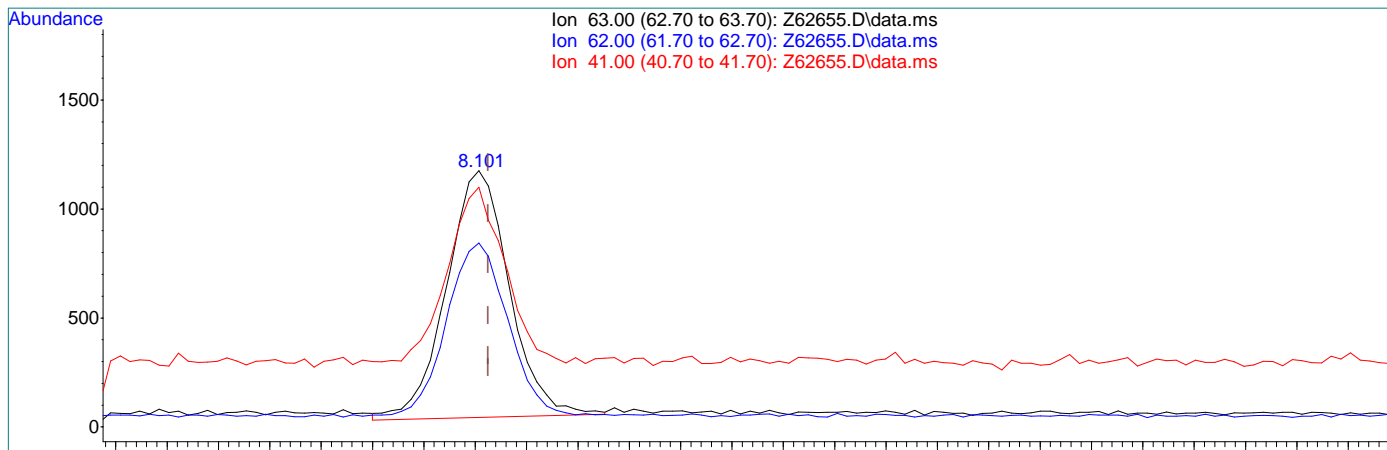
7.6.1.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 10:20:38 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane

8.101min (-0.004) 0.12ppb

response 19297

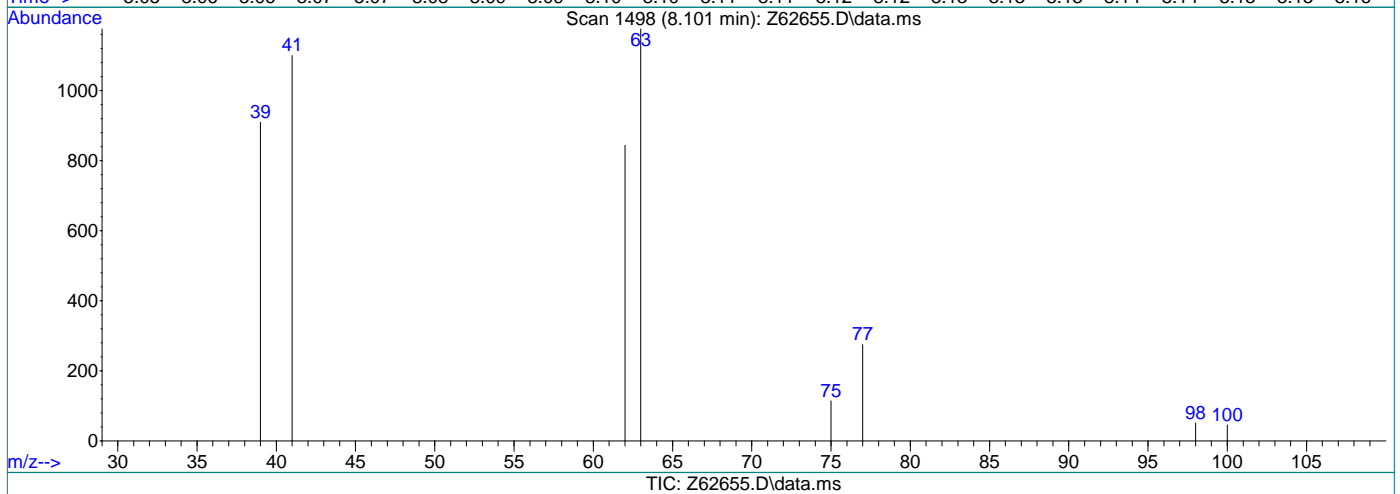
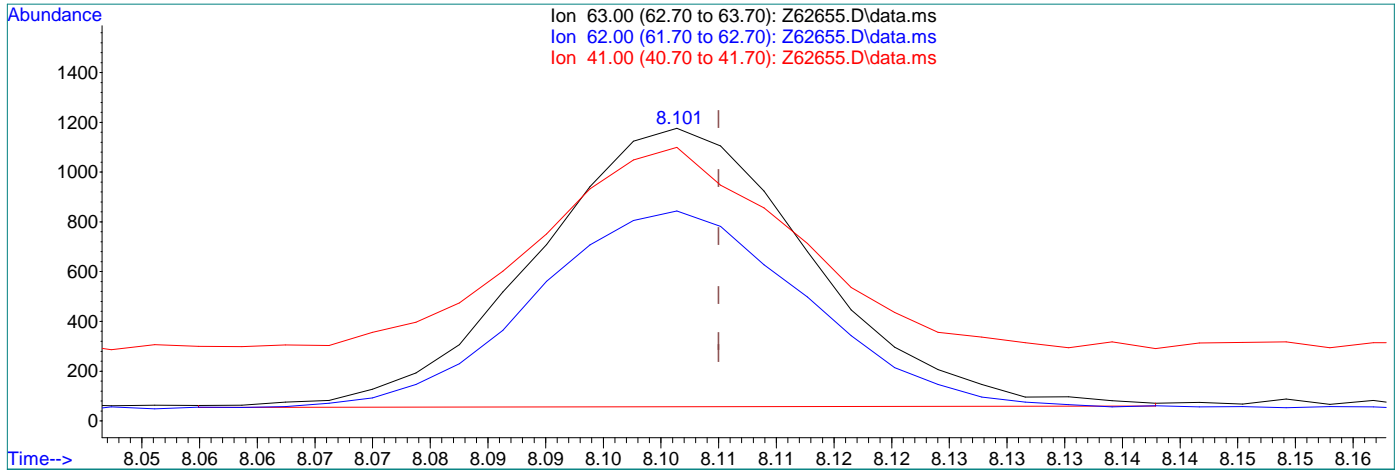
Ion	Exp%	Act%
63.00	100	100
62.00	71.60	69.96
41.00	73.70	63.96
0.00	0.00	0.00

7.6.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 10:20:38 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane  
 8.101min (-0.004) 0.12ppb m  
 response 18581

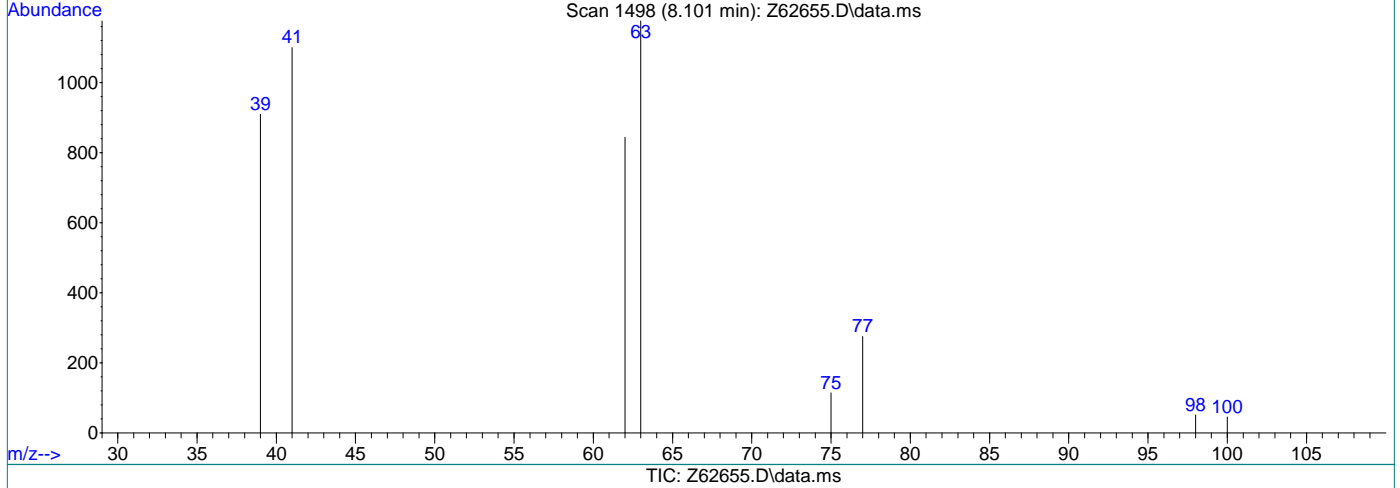
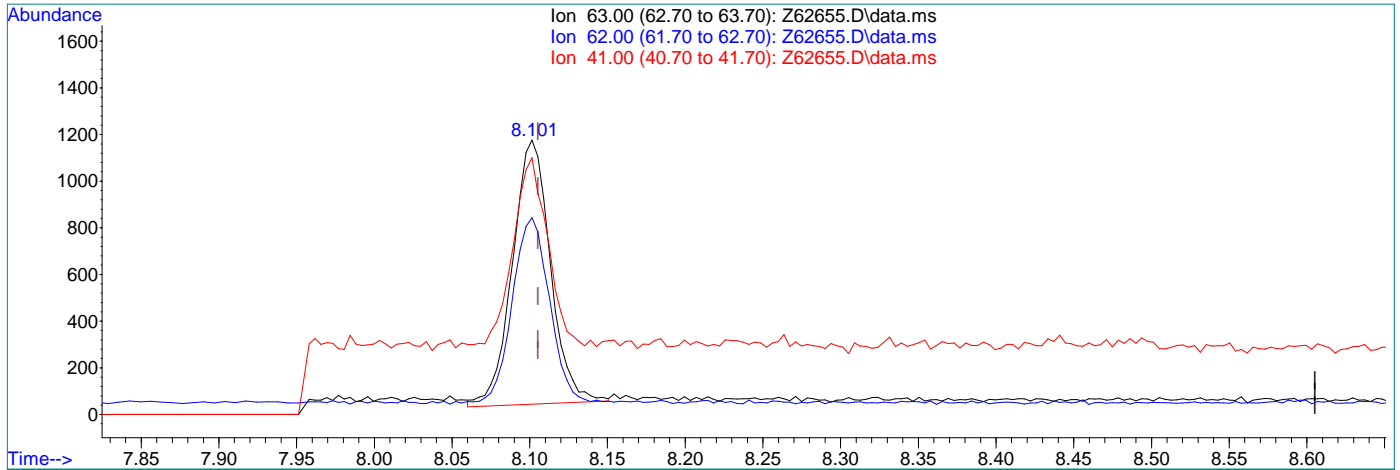
Ion	Exp%	Act%
63.00	100	100
62.00	71.60	72.65
41.00	73.70	66.42
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 12:47:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



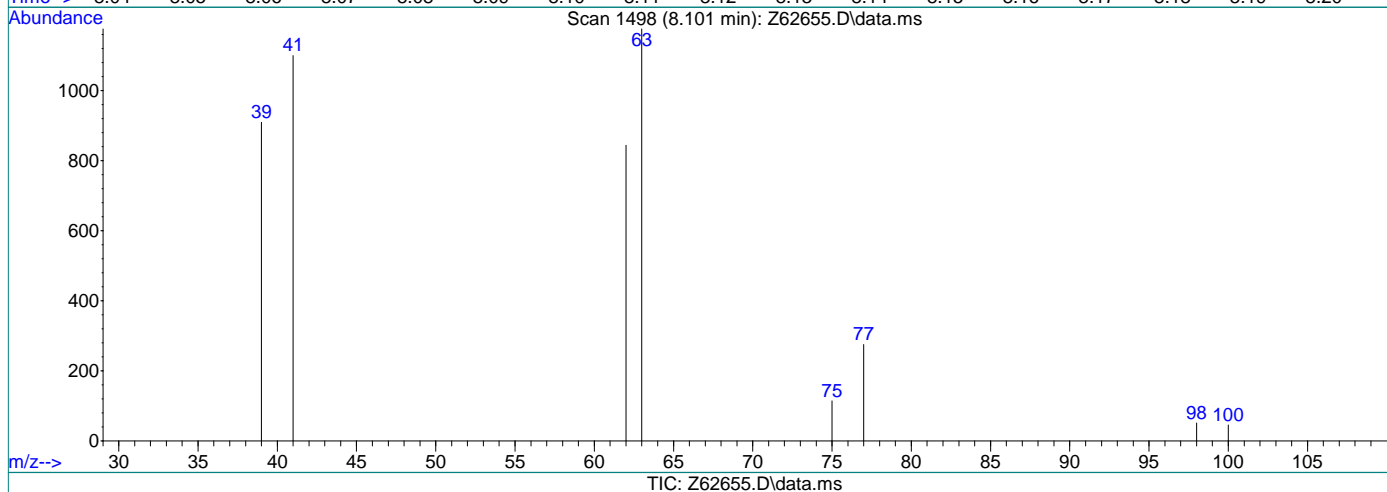
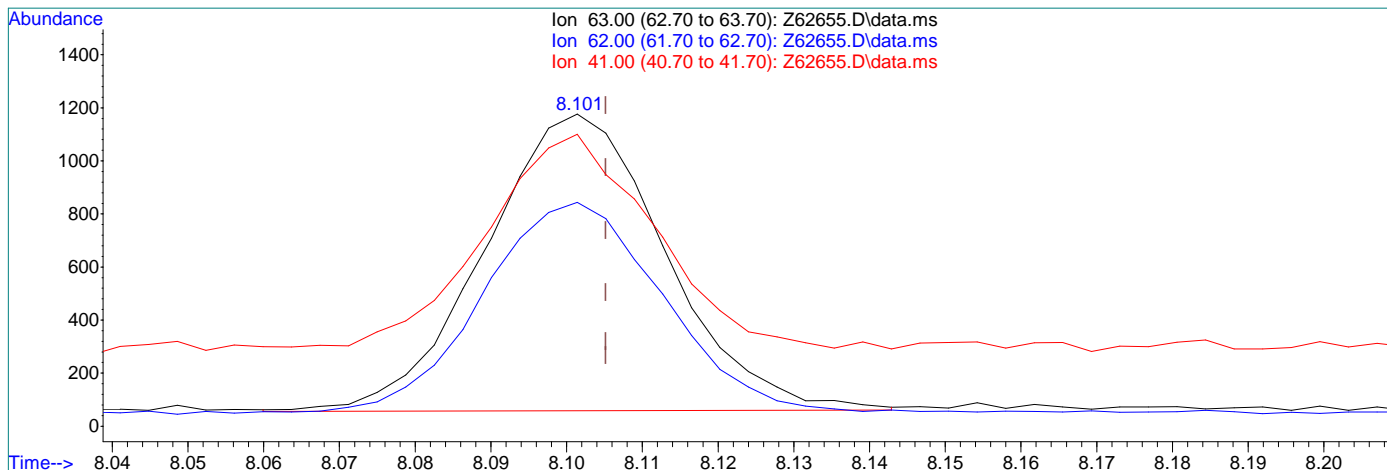
(16) 1,2-Dichloropropane  
 8.101min (-0.004) 0.10ppb  
 response 19297

Ion	Exp%	Act%
63.00	100	100
62.00	71.20	69.96
41.00	62.00	63.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62655.D  
 Acq On : 1 Oct 2020 10:01 am  
 Operator : AKARIG  
 Sample : ic2431-1  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 12:47:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane  
 8.101min (-0.004) 0.10ppb m  
 response 18506

Ion	Exp%	Act%
63.00	100	100
62.00	71.20	72.95
41.00	62.00	66.69
0.00	0.00	0.00

7.6.1.5  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62656.D  
 Acq On : 1 Oct 2020 10:20 am  
 Operator : AKARIG  
 Sample : ic2431-2  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 12:47:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

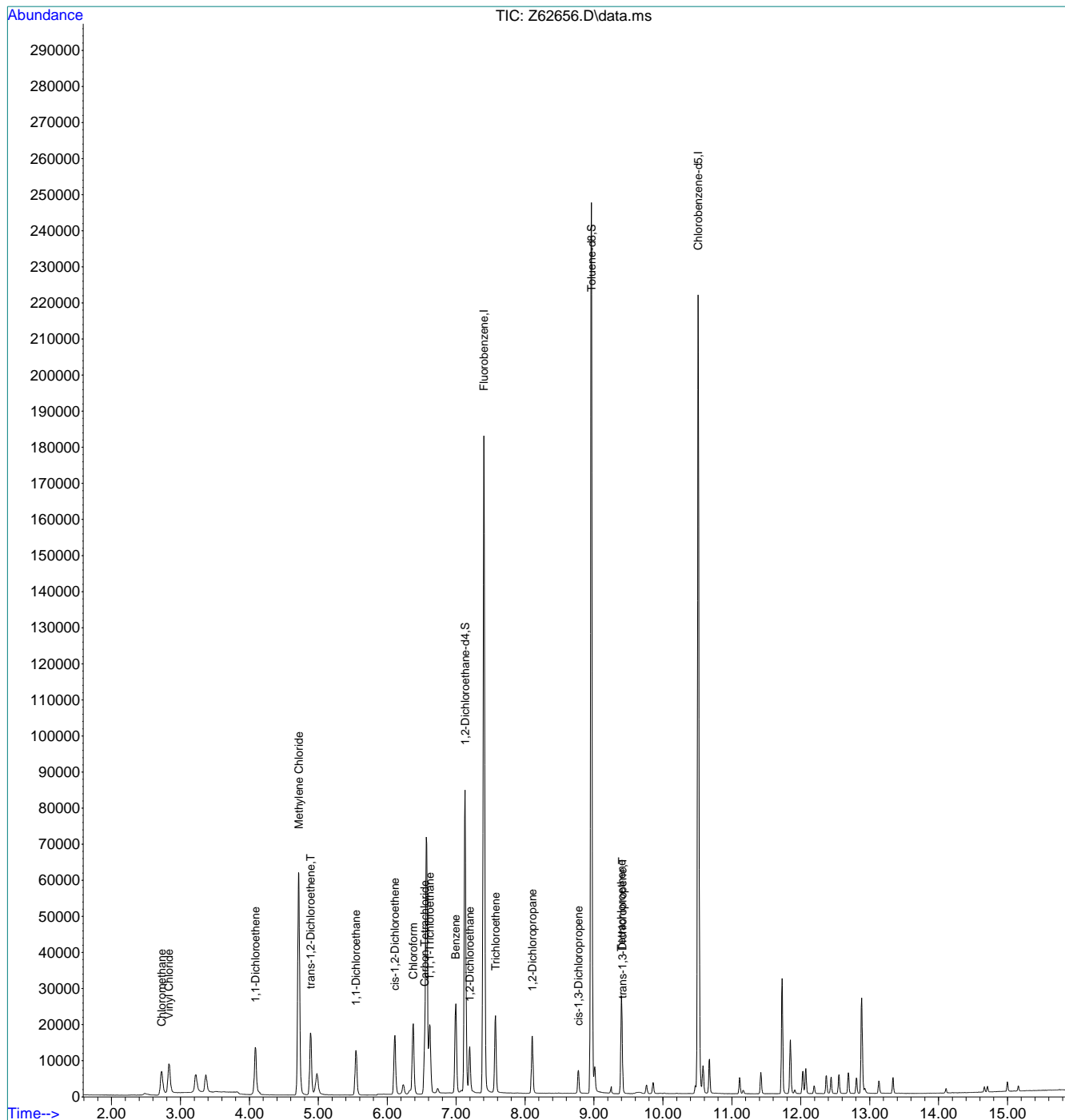
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2101741	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1985926	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	685744	5.11	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	102.20%	
19) Toluene-d8	8.961	98	2163549	5.09	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.831	62	142310	0.54	ppb		99
3) Chloromethane	2.726	50	120495	0.52	ppb		98
4) 1,1-Dichloroethene	4.087	96	78536	0.53	ppb		95
5) Methylene Chloride	4.717	84	433799	1.49	ppb		99
6) trans-1,2-Dichloroethene	4.890	96	97459	0.50	ppb		95
7) 1,1-Dichloroethane	5.546	63	167344	0.51	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	104295	0.50	ppb		99
9) Chloroform	6.377	83	196009	0.49	ppb		99
10) Carbon Tetrachloride	6.543	117	102313	0.47	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	156624	0.49	ppb		98
12) Benzene	6.994	78	358957	0.50	ppb		100
14) 1,2-Dichloroethane	7.198	62	125095	0.49	ppb		100
15) Trichloroethene	7.571	95	98886	0.49	ppb		90
16) 1,2-Dichloropropane	8.105	63	84258	0.48	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	51571	0.36	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	30148	0.34	ppb		97
21) Tetrachloroethene	9.399	166	110218	0.51	ppb		97
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62656.D  
 Acq On : 1 Oct 2020 10:20 am  
 Operator : AKARIG  
 Sample : ic2431-2  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 12:47:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.2  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62657.D  
 Acq On : 1 Oct 2020 10:40 am  
 Operator : AKARIG  
 Sample : ic2431-3  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 01 12:47:18 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

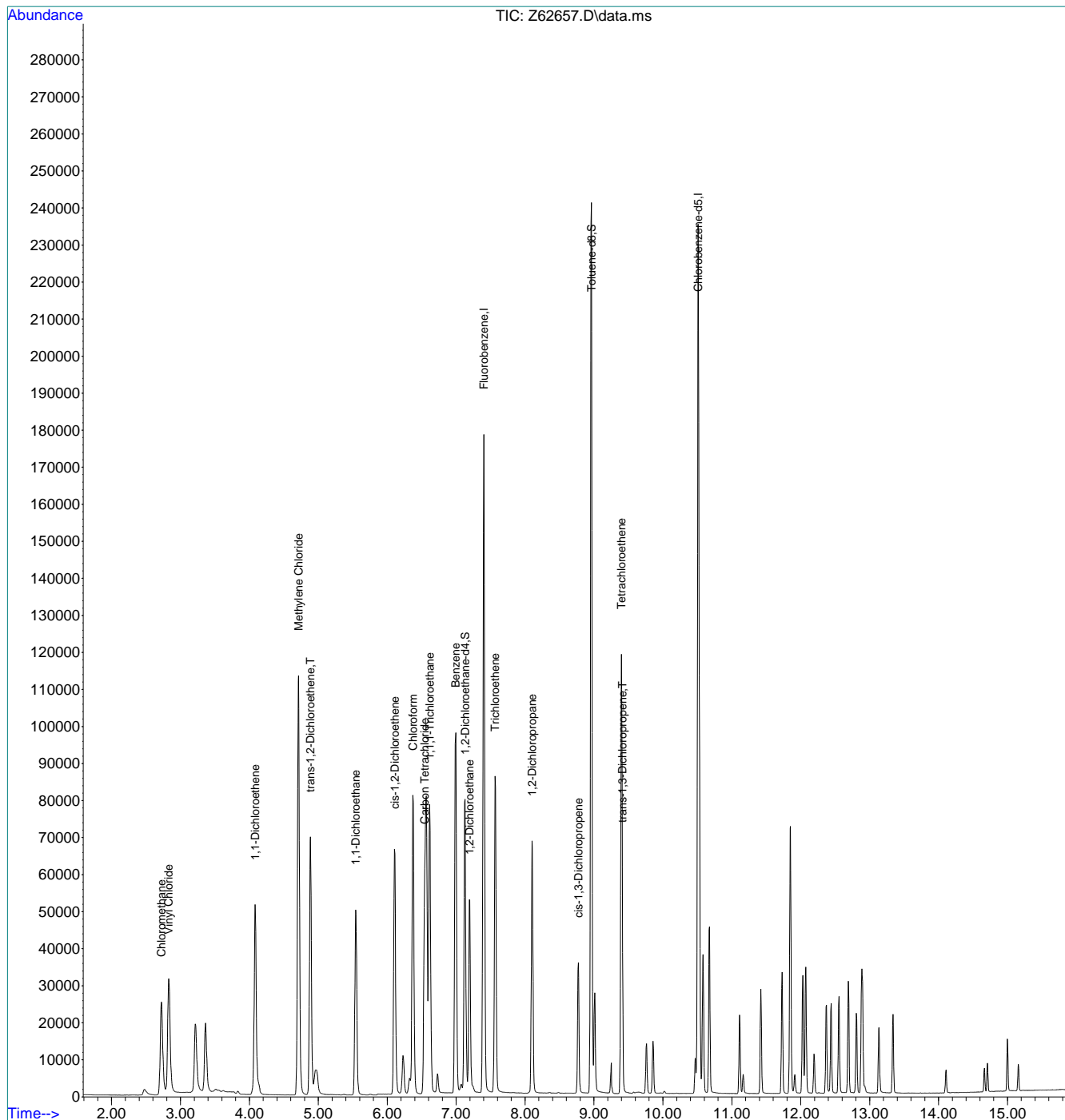
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2042151	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1978632	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	663622	5.09	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.80%	
19) Toluene-d8	8.961	98	2104986	4.97	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.827	62	531814	2.06	ppb		99
3) Chloromethane	2.722	50	451880	1.99	ppb		99
4) 1,1-Dichloroethene	4.083	96	303296	2.09	ppb		96
5) Methylene Chloride	4.713	84	784758	2.82	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	386589	2.05	ppb		96
7) 1,1-Dichloroethane	5.542	63	664522	2.09	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	417168	2.06	ppb		96
9) Chloroform	6.371	83	814265	2.11	ppb		100
10) Carbon Tetrachloride	6.543	117	411272	1.95	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	637448	2.06	ppb		99
12) Benzene	6.994	78	1449199	2.07	ppb		98
14) 1,2-Dichloroethane	7.191	62	531167	2.15	ppb		100
15) Trichloroethene	7.564	95	404995	2.07	ppb		98
16) 1,2-Dichloropropane	8.101	63	361266	2.13	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	282689	1.95	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	188207	1.95	ppb		98
21) Tetrachloroethene	9.399	166	459421	2.13	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62657.D  
 Acq On : 1 Oct 2020 10:40 am  
 Operator : AKARIG  
 Sample : ic2431-3  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 01 12:47:18 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62658.D  
 Acq On : 1 Oct 2020 10:59 am  
 Operator : AKARIG  
 Sample : ic2431-4  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 12:47:20 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

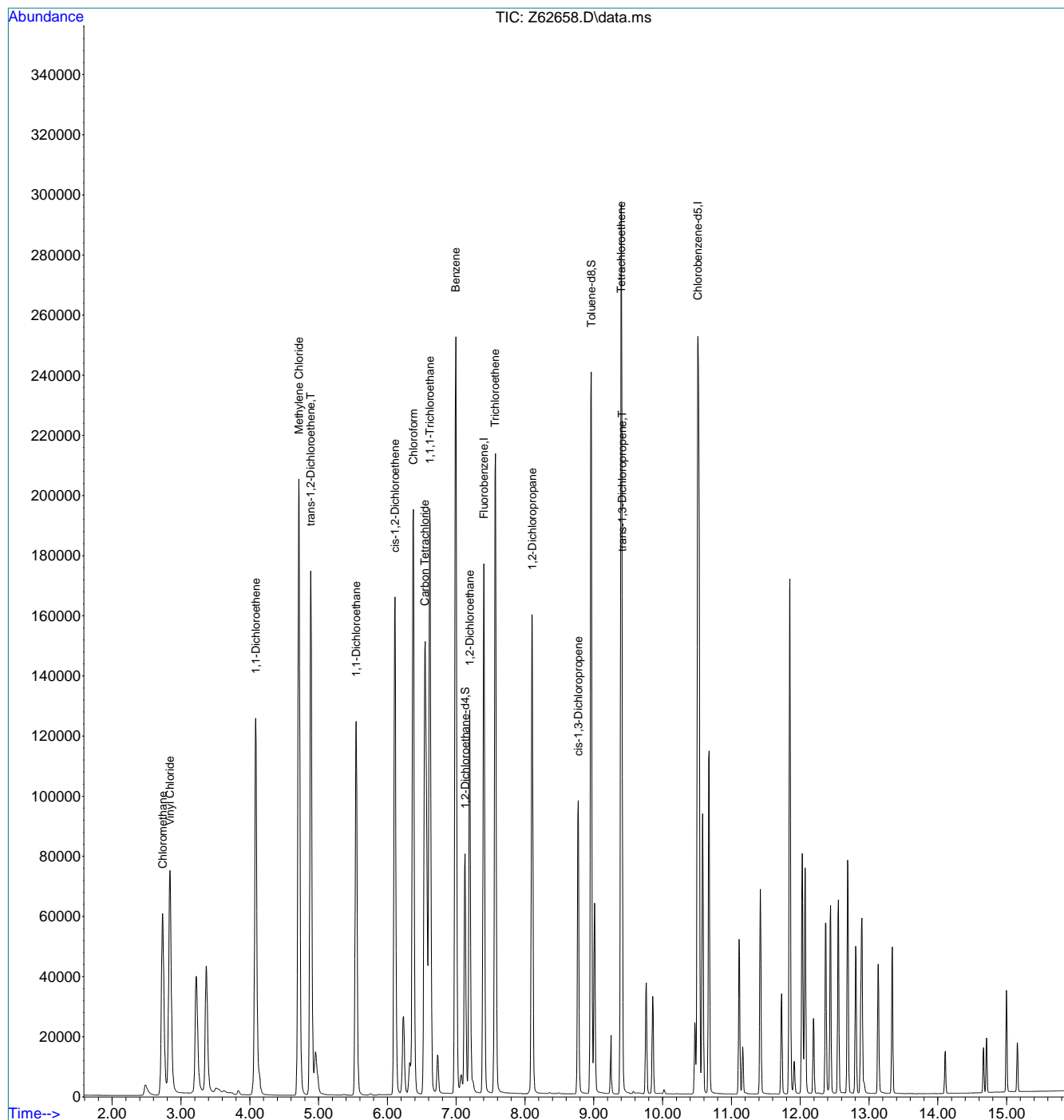
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2046513	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2001672	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	661230	5.06	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.20%	
19) Toluene-d8	8.961	98	2104194	4.91	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1320233	5.10	ppb		99
3) Chloromethane	2.733	50	1125495	4.95	ppb		99
4) 1,1-Dichloroethene	4.087	96	765386	5.26	ppb		96
5) Methylene Chloride	4.713	84	1442310	5.34	ppb		98
6) trans-1,2-Dichloroethene	4.886	96	984446	5.22	ppb		98
7) 1,1-Dichloroethane	5.546	63	1667258	5.22	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	1040311	5.12	ppb		98
9) Chloroform	6.377	83	1987474	5.14	ppb		100
10) Carbon Tetrachloride	6.543	117	1113689	5.27	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	1651358	5.33	ppb		100
12) Benzene	6.994	78	3641471	5.19	ppb		99
14) 1,2-Dichloroethane	7.198	62	1267380	5.11	ppb		99
15) Trichloroethene	7.564	95	1010176	5.15	ppb		98
16) 1,2-Dichloropropane	8.105	63	868299	5.11	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	774972	4.98	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	556510	5.01	ppb		99
21) Tetrachloroethene	9.399	166	1119421	5.12	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62658.D  
 Acq On : 1 Oct 2020 10:59 am  
 Operator : AKARIG  
 Sample : ic2431-4  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 12:47:20 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.4  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62659.D  
 Acq On : 1 Oct 2020 11:18 am  
 Operator : AKARIG  
 Sample : icc2431-5  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 12:47:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

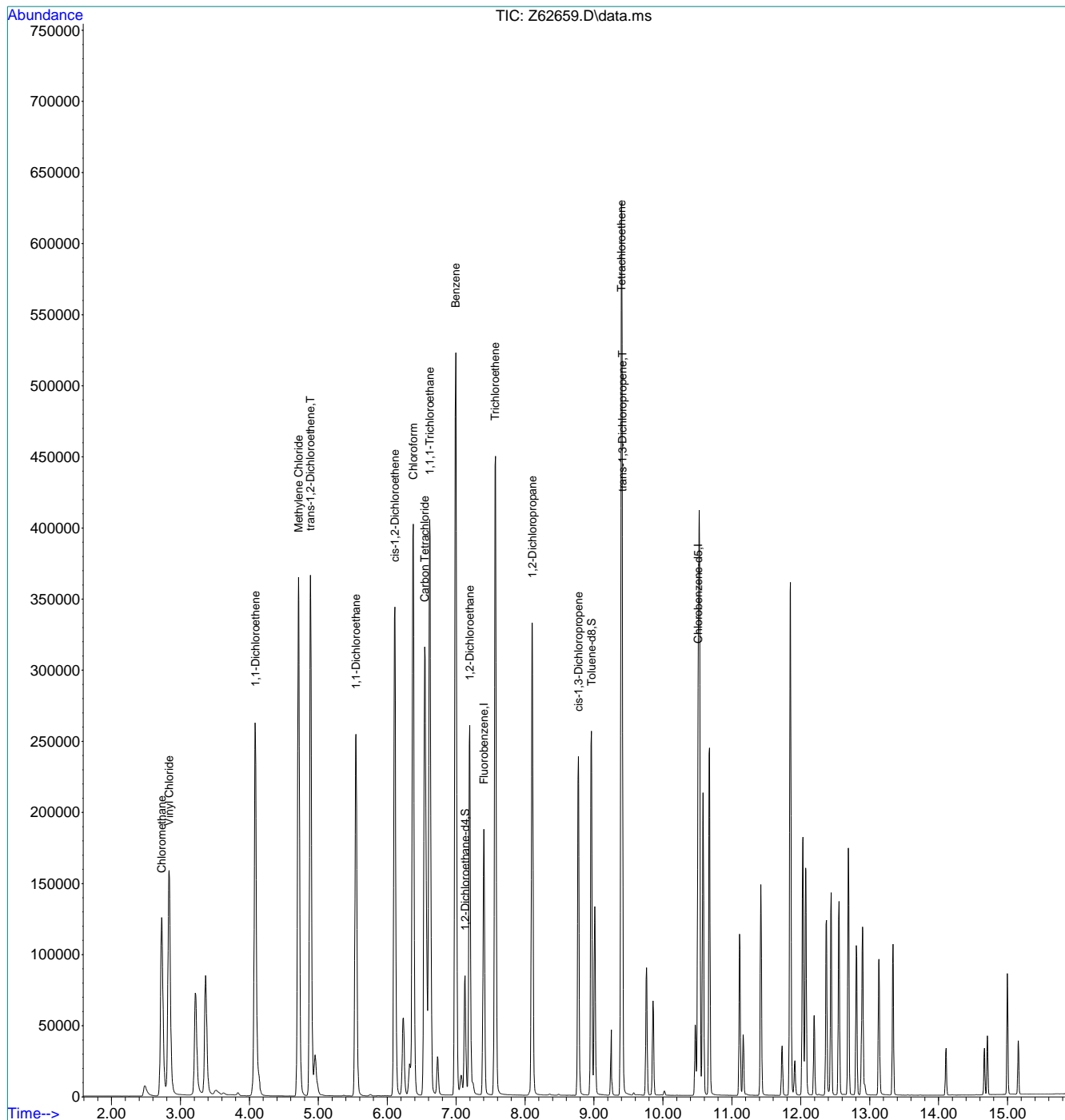
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2158955	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2125137	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	685479	4.97	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	99.40%	
19) Toluene-d8	8.961	98	2219665	4.88	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	2696733	9.88	ppb		100
3) Chloromethane	2.726	50	2245316	9.36	ppb		100
4) 1,1-Dichloroethene	4.087	96	1576428	10.28	ppb		100
5) Methylene Chloride	4.713	84	2548206	9.49	ppb		100
6) trans-1,2-Dichloroethene	4.886	96	2023937	10.18	ppb		100
7) 1,1-Dichloroethane	5.546	63	3398562	10.09	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	2159027	10.07	ppb		100
9) Chloroform	6.377	83	4085128	10.01	ppb		100
10) Carbon Tetrachloride	6.543	117	2419359	10.85	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	3463239	10.60	ppb		100
12) Benzene	6.994	78	7563923	10.22	ppb		100
14) 1,2-Dichloroethane	7.198	62	2581621	9.86	ppb		100
15) Trichloroethene	7.564	95	2133162	10.31	ppb		100
16) 1,2-Dichloropropane	8.105	63	1802250	10.04	ppb		100
17) cis-1,3-Dichloropropene	8.773	75	1872456	10.21	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	1445243	10.18	ppb		100
21) Tetrachloroethene	9.399	166	2332783	10.05	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62659.D  
 Acq On : 1 Oct 2020 11:18 am  
 Operator : AKARIG  
 Sample : icc2431-5  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 12:47:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.5  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62660.D  
 Acq On : 1 Oct 2020 11:37 am  
 Operator : AKARIG  
 Sample : ic2431-6  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 12:47:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

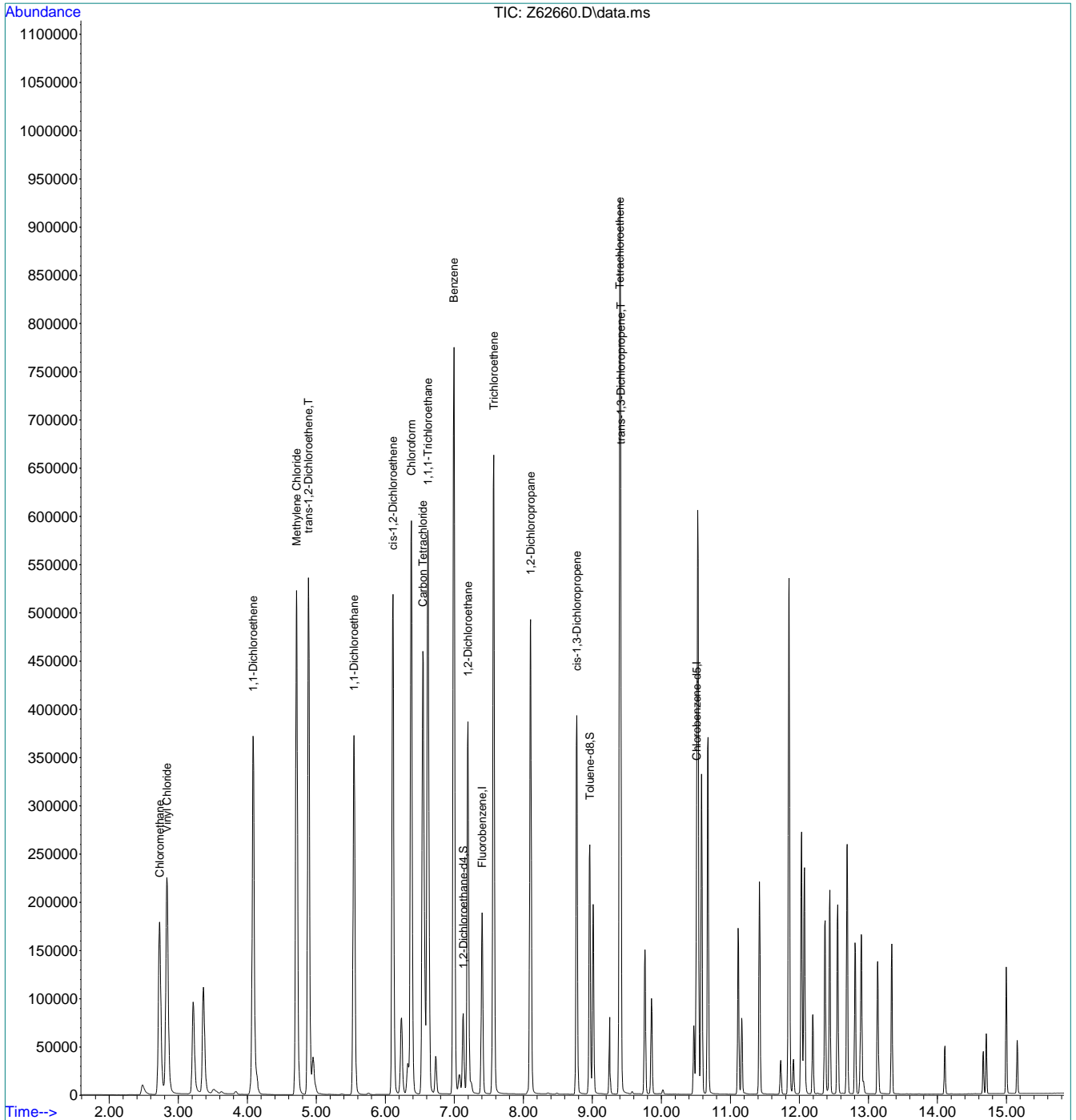
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2170216	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2126130	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	677268	4.89	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	97.80%	
19) Toluene-d8	8.961	98	2228604	4.90	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	3814887	13.90	ppb		99
3) Chloromethane	2.730	50	3218919	13.35	ppb		100
4) 1,1-Dichloroethene	4.083	96	2246292	14.57	ppb		97
5) Methylene Chloride	4.713	84	3637278	14.55	ppb		98
6) trans-1,2-Dichloroethene	4.886	96	2963240	14.82	ppb		98
7) 1,1-Dichloroethane	5.546	63	4947249	14.61	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	3198702	14.85	ppb		99
9) Chloroform	6.377	83	5965409	14.55	ppb		100
10) Carbon Tetrachloride	6.543	117	3532615	15.76	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	4989392	15.19	ppb		100
12) Benzene	6.994	78	11028446	14.83	ppb		100
14) 1,2-Dichloroethane	7.198	62	3813831	14.50	ppb		100
15) Trichloroethene	7.571	95	3094019	14.87	ppb		88
16) 1,2-Dichloropropane	8.105	63	2665706	14.78	ppb		100
17) cis-1,3-Dichloropropene	8.773	75	3061311	15.12	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	2476953	15.04	ppb		99
21) Tetrachloroethene	9.399	166	3339747	14.39	ppb		98
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62660.D  
 Acq On : 1 Oct 2020 11:37 am  
 Operator : AKARIG  
 Sample : ic2431-6  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 12:47:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:51:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2215762	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2161930m	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	683964	4.83	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	96.60%		
19) Toluene-d8	8.961	98	2283038	4.94	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	98.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	5385695	19.22	ppb		99
3) Chloromethane	2.729	50	4447966	18.07	ppb		100
4) 1,1-Dichloroethene	4.083	96	2987652	18.97	ppb		98
5) Methylene Chloride	4.713	84	4736279	20.47	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	4006380	19.63	ppb		96
7) 1,1-Dichloroethane	5.542	63	6584906	19.05	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	4288760	19.50	ppb		97
9) Chloroform	6.371	83	7913114	18.90	ppb		100
10) Carbon Tetrachloride	6.543	117	4885218	21.35	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	6638529	19.80	ppb		99
12) Benzene	6.994	78	14562158	19.18	ppb		99
14) 1,2-Dichloroethane	7.191	62	5006978	18.64	ppb		100
15) Trichloroethene	7.564	95	4097842	19.29	ppb		98
16) 1,2-Dichloropropane	8.105	63	3518506	19.11	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	4456580	19.85	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	3792764	19.91	ppb		99
21) Tetrachloroethene	9.399	166	4402753	18.65	ppb		98

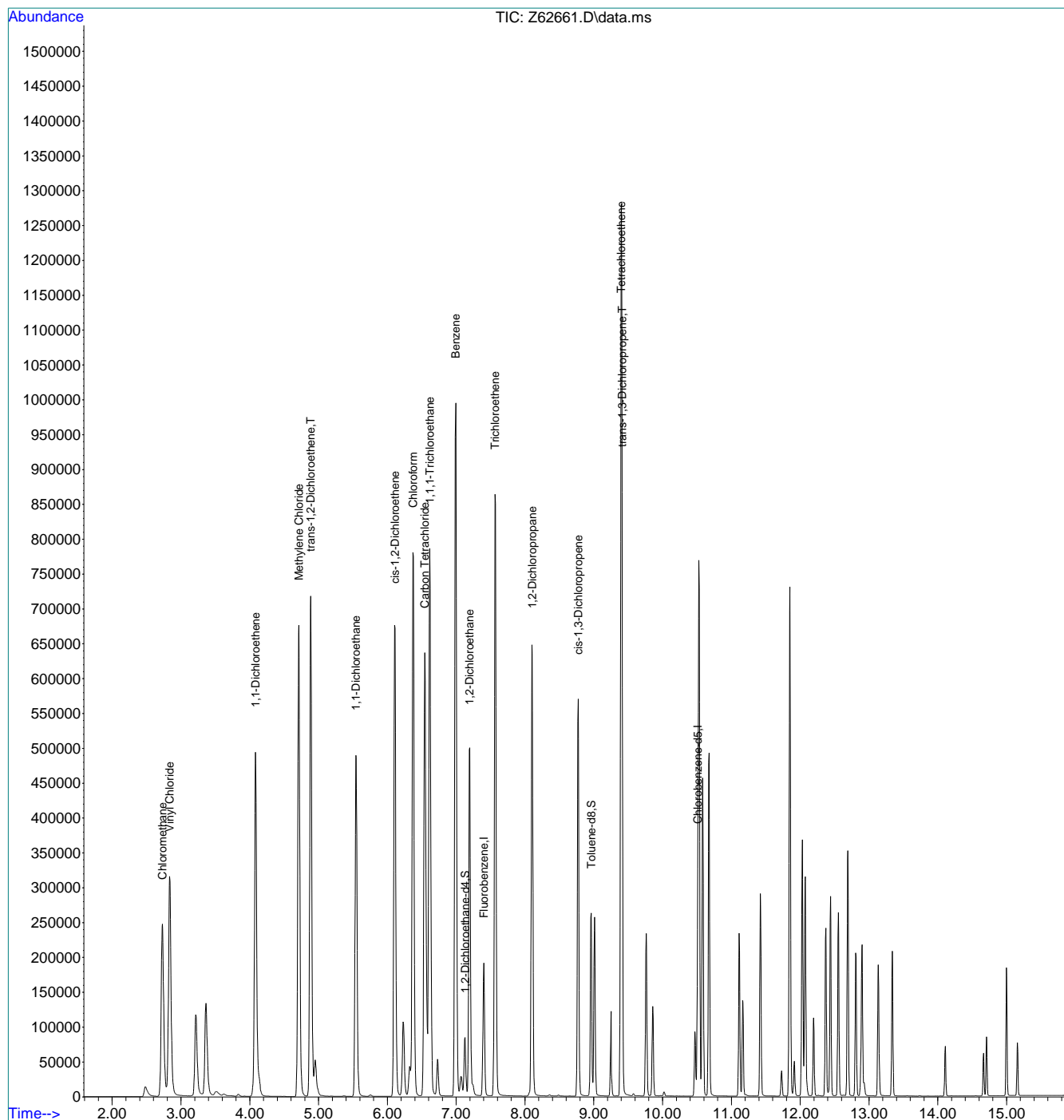
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.67  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:51:49 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



7.6.7

# Manual Integration Approval Summary

**Sample Number:** VZ2431-IC2431      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62661.D      **Analyst approved:** 10/05/20 20:33 Stuti Patel  
**Injection Time:** 10/01/20 11:59      **Supervisor approved:** 10/06/20 11:28 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorobenzene-D5	3114-55-4		10.51	Poor instrument integration

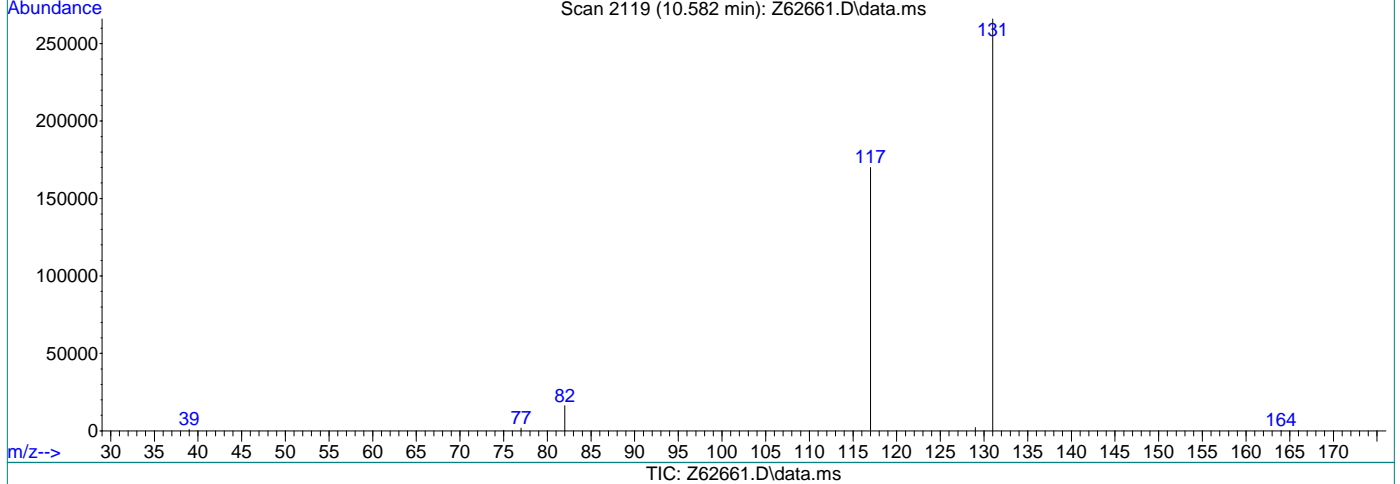
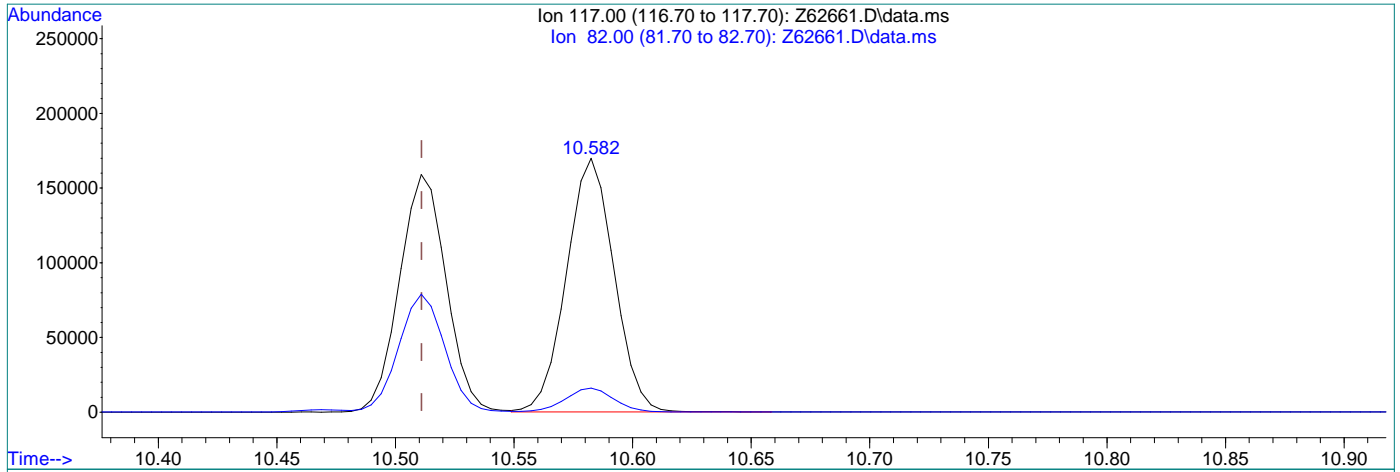
7.6.7.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:47:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.582min (+0.071) 5.00ppb  
 response 2369980

Ion	Exp%	Act%
117.00	100	100
82.00	49.20	9.57#
0.00	0.00	0.00
0.00	0.00	0.00

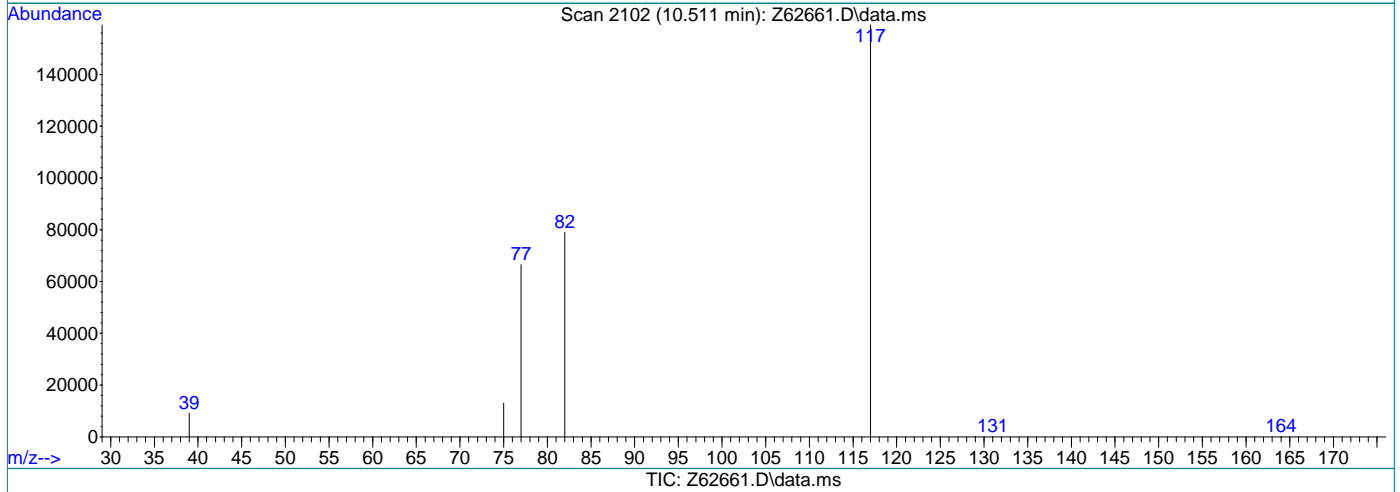
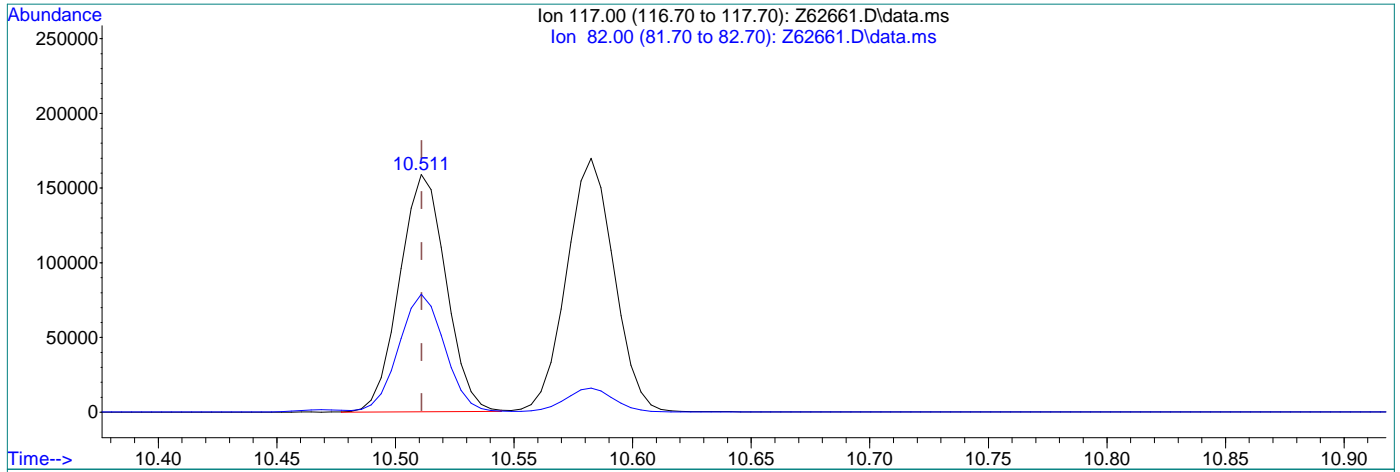
7.6.7.2  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:47:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Thu Oct 01 12:46:19 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.511min (-0.000) 5.00ppb m  
 response 2161930

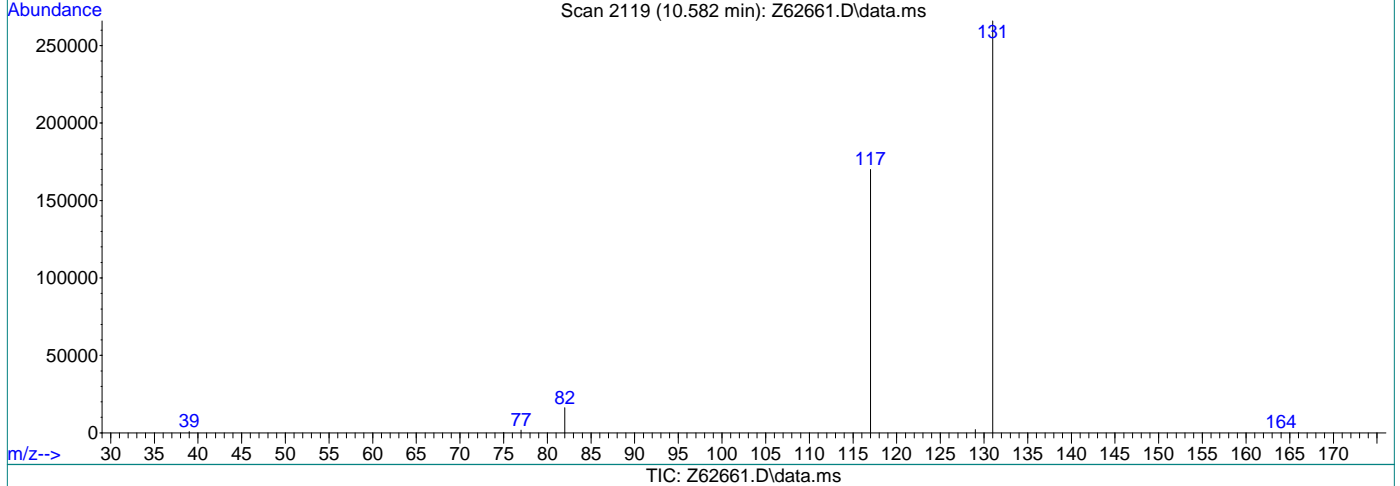
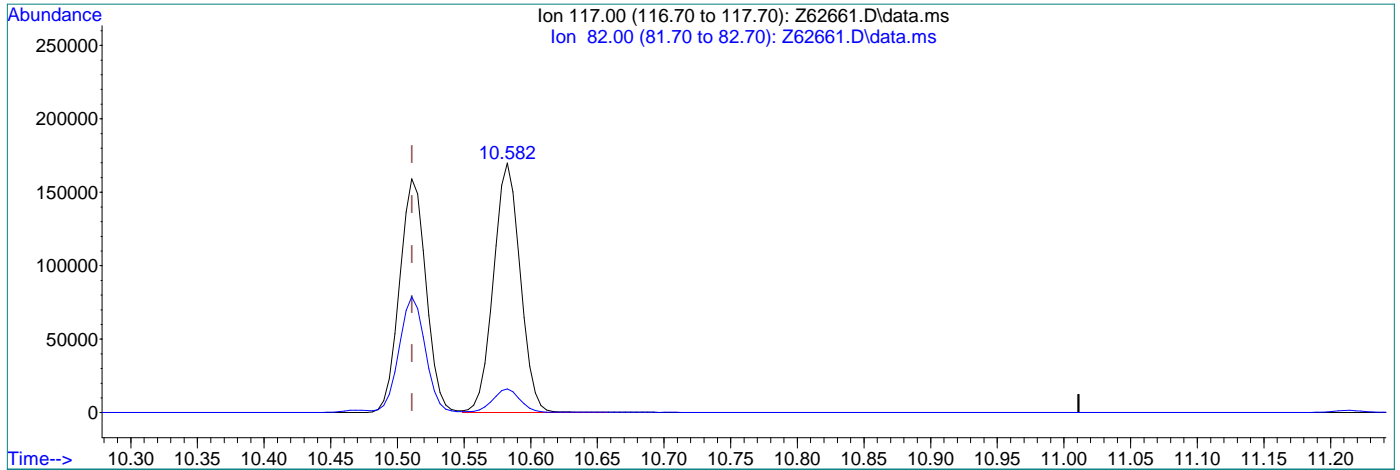
Ion	Exp%	Act%
117.00	100	100
82.00	49.20	10.50#
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:25:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.582min (+0.071) 5.00ppb  
 response 2369980

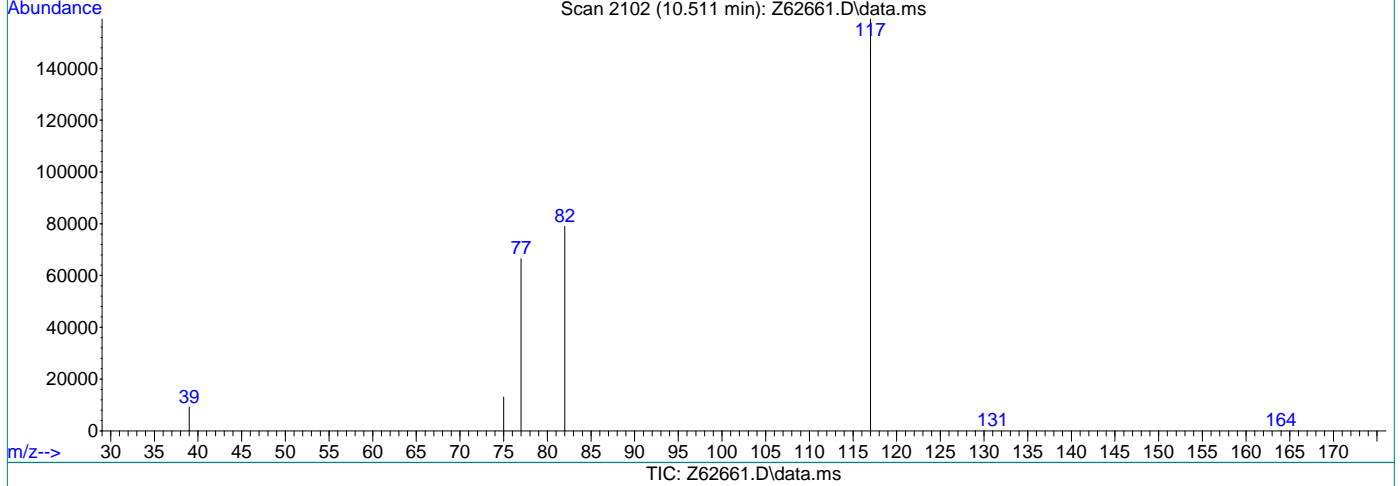
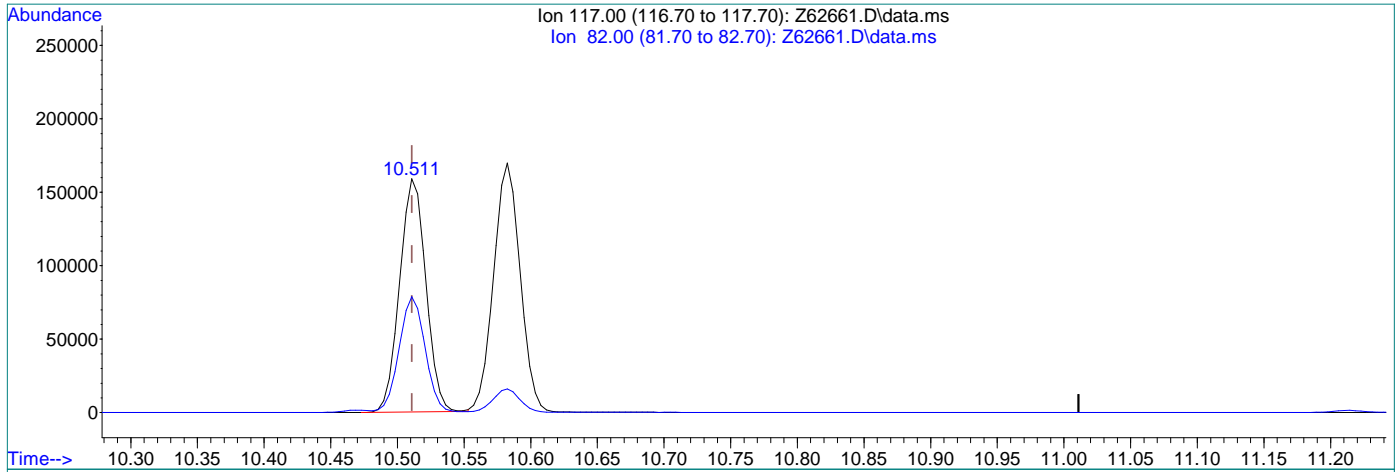
Ion	Exp%	Act%
117.00	100	100
82.00	56.00	9.57#
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62661.D  
 Acq On : 1 Oct 2020 11:59 am  
 Operator : AKARIG  
 Sample : ic2431-7  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 12:25:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.511min (-0.000) 5.00ppb m  
 response 2160627

Ion	Exp%	Act%
117.00	100	100
82.00	56.00	10.50#
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.5  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62663.D  
 Acq On : 1 Oct 2020 1:17 pm  
 Operator : AKARIG  
 Sample : icv2431-5  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 03 15:37:48 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:37:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1999509	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1983678	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	630939	4.94	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	98.80%		
19) Toluene-d8	8.958	98	2053030	4.84	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	96.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.828	62	2552566	10.09	ppb		99
3) Chloromethane	2.722	50	2032474	9.15	ppb		100
4) 1,1-Dichloroethene	4.083	96	1598920	11.25	ppb		98
5) Methylene Chloride	4.709	84	2785871	11.55	ppb		99
6) trans-1,2-Dichloroethene	4.883	96	2075149	11.16	ppb		97
7) 1,1-Dichloroethane	5.539	63	3437975	11.02	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	2166050	10.91	ppb		98
9) Chloroform	6.371	83	4002979	10.59	ppb		100
10) Carbon Tetrachloride	6.543	117	2632344	12.00	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	3451194	11.41	ppb		99
12) Benzene	6.987	78	7653429	11.17	ppb		98
14) 1,2-Dichloroethane	7.191	62	2546884	10.51	ppb		100
15) Trichloroethene	7.564	95	2128170	11.10	ppb		93
16) 1,2-Dichloropropane	8.101	63	1812609	10.91	ppb		100
17) cis-1,3-Dichloropropene	8.773	75	2254840	11.77	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	1974805	13.46	ppb		98
21) Tetrachloroethene	9.399	166	2290465	10.58	ppb		99
-----							

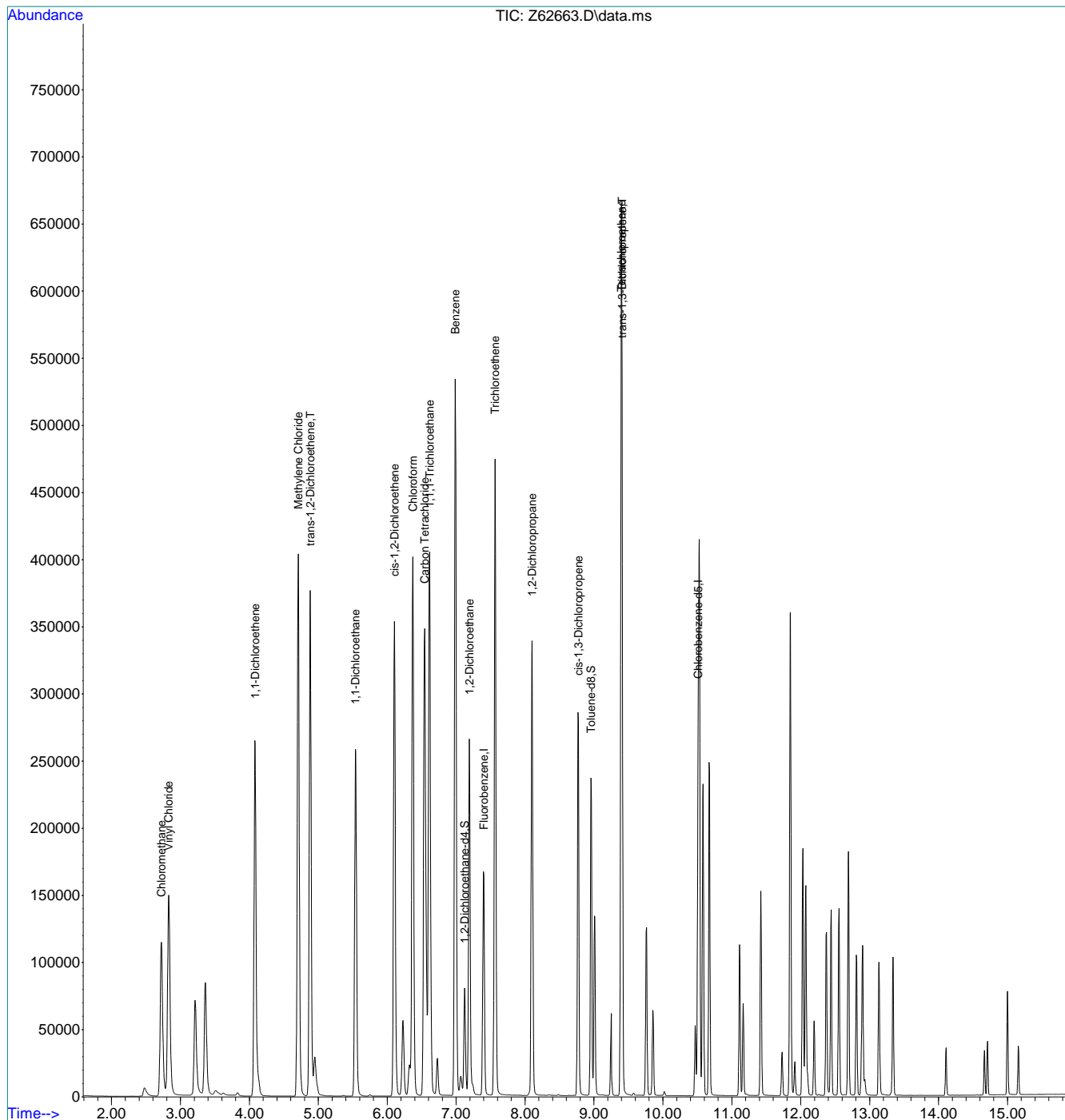
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.68  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100120\  
 Data File : Z62663.D  
 Acq On : 1 Oct 2020 1:17 pm  
 Operator : AKARIG  
 Sample : icv2431-5  
 Misc : MS47304,VZ2431,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 03 15:37:48 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:37:45 2020  
 Response via : Initial Calibration



8'9'7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\VZ2433\  
 Data File : Z62696.d  
 Acq On : 7 Oct 2020 1:04 pm  
 Operator : AKARIG  
 Sample : cc2431-5  
 Misc : MS47304,VZ2433,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 20:46:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2888637	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2414515	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	895799	4.86	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	97.20%	
19) Toluene-d8	8.957	98	2652047	5.14	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	3086416	8.45	ppb		100
3) Chloromethane	2.733	50	2750976	8.57	ppb		99
4) 1,1-Dichloroethene	4.083	96	1911742	9.31	ppb		100
5) Methylene Chloride	4.709	84	3103631	8.52	ppb		99
6) trans-1,2-Dichloroethene	4.883	96	2534781	9.38	ppb		96
7) 1,1-Dichloroethane	5.542	63	4253038	9.44	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	2666416	9.30	ppb		97
9) Chloroform	6.371	83	5077761	9.30	ppb		100
10) Carbon Tetrachloride	6.543	117	3171374	10.01	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	4291017	9.82	ppb		100
12) Benzene	6.987	78	9317969	9.41	ppb		98
14) 1,2-Dichloroethane	7.191	62	3179104	9.08	ppb		99
15) Trichloroethene	7.564	95	2611327	9.43	ppb		94
16) 1,2-Dichloropropane	8.101	63	2177405	9.08	ppb		100
17) cis-1,3-Dichloropropene	8.773	75	2686556	9.71	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	2372829	13.28	ppb		97
21) Tetrachloroethene	9.399	166	2833252	10.75	ppb		99
-----							

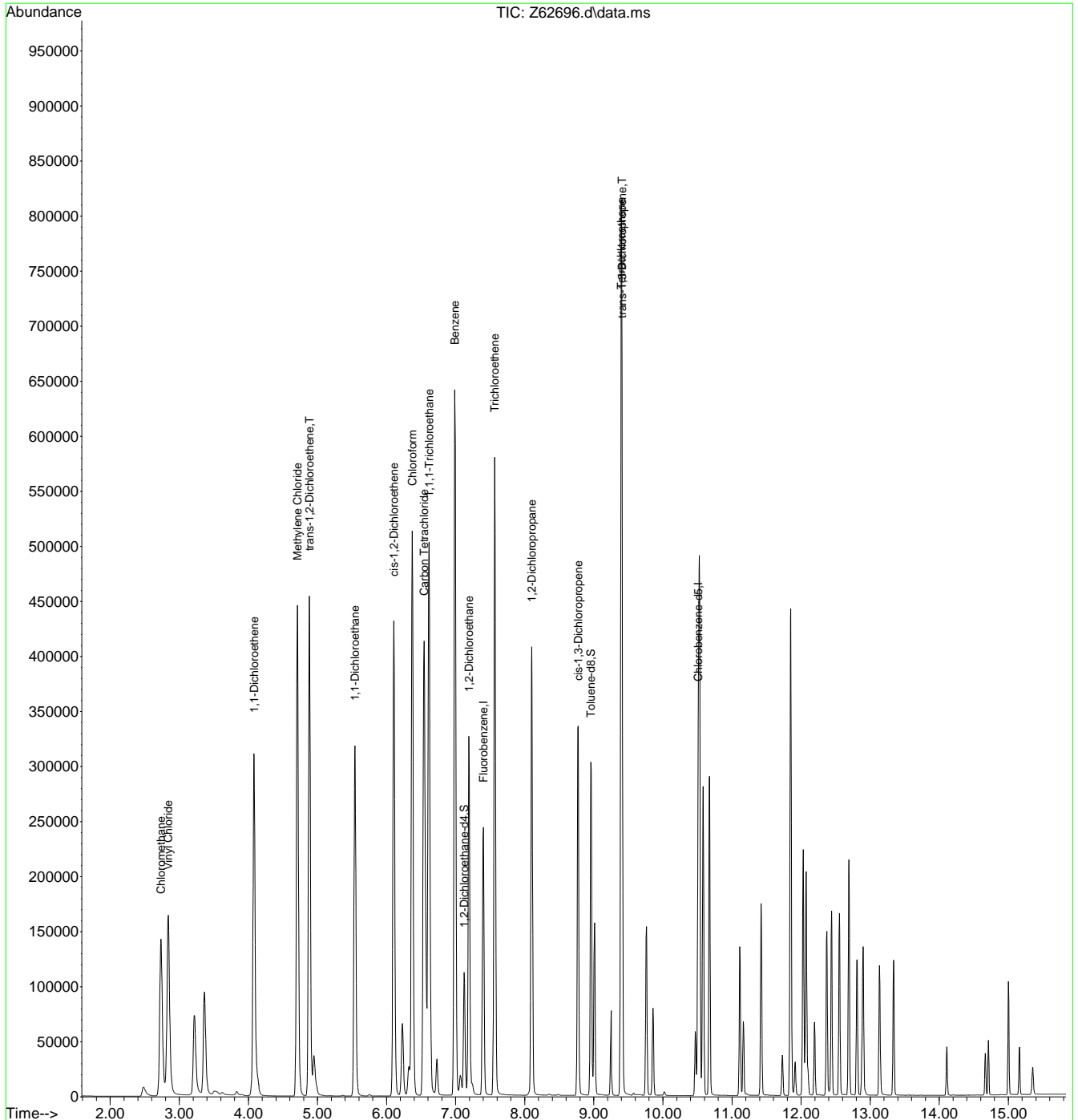
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\vz2433\  
 Data File : Z62696.d  
 Acq On : 7 Oct 2020 1:04 pm  
 Operator : AKARIG  
 Sample : cc2431-5  
 Misc : MS47304,VZ2433,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 20:46:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\VZ2433\  
 Data File : Z62706.d  
 Acq On : 7 Oct 2020 5:13 pm  
 Operator : AKARIG  
 Sample : ecc2431-5  
 Misc : MS47304,VZ2433,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 07 20:46:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2103691	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1786538	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	675522	5.03	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	100.60%	
19) Toluene-d8	8.961	98	1908614	4.99	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	2554883	9.60	ppb		100
3) Chloromethane	2.737	50	2221327	9.51	ppb		100
4) 1,1-Dichloroethene	4.083	96	1656477	11.08	ppb		99
5) Methylene Chloride	4.713	84	2506322	9.59	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	2131938	10.89	ppb		96
7) 1,1-Dichloroethane	5.546	63	3595320	10.96	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	2244875	10.75	ppb		98
9) Chloroform	6.377	83	4343088	10.93	ppb		100
10) Carbon Tetrachloride	6.543	117	2636423	11.42	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	3677739	11.55	ppb		99
12) Benzene	6.994	78	7952480	11.03	ppb		99
14) 1,2-Dichloroethane	7.198	62	2774531	10.88	ppb		100
15) Trichloroethene	7.564	95	2285545	11.33	ppb		100
16) 1,2-Dichloropropane	8.105	63	1879489	10.76	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	2011305	9.98	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	1665960	12.78	ppb		99
21) Tetrachloroethene	9.399	166	2480560	12.72	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

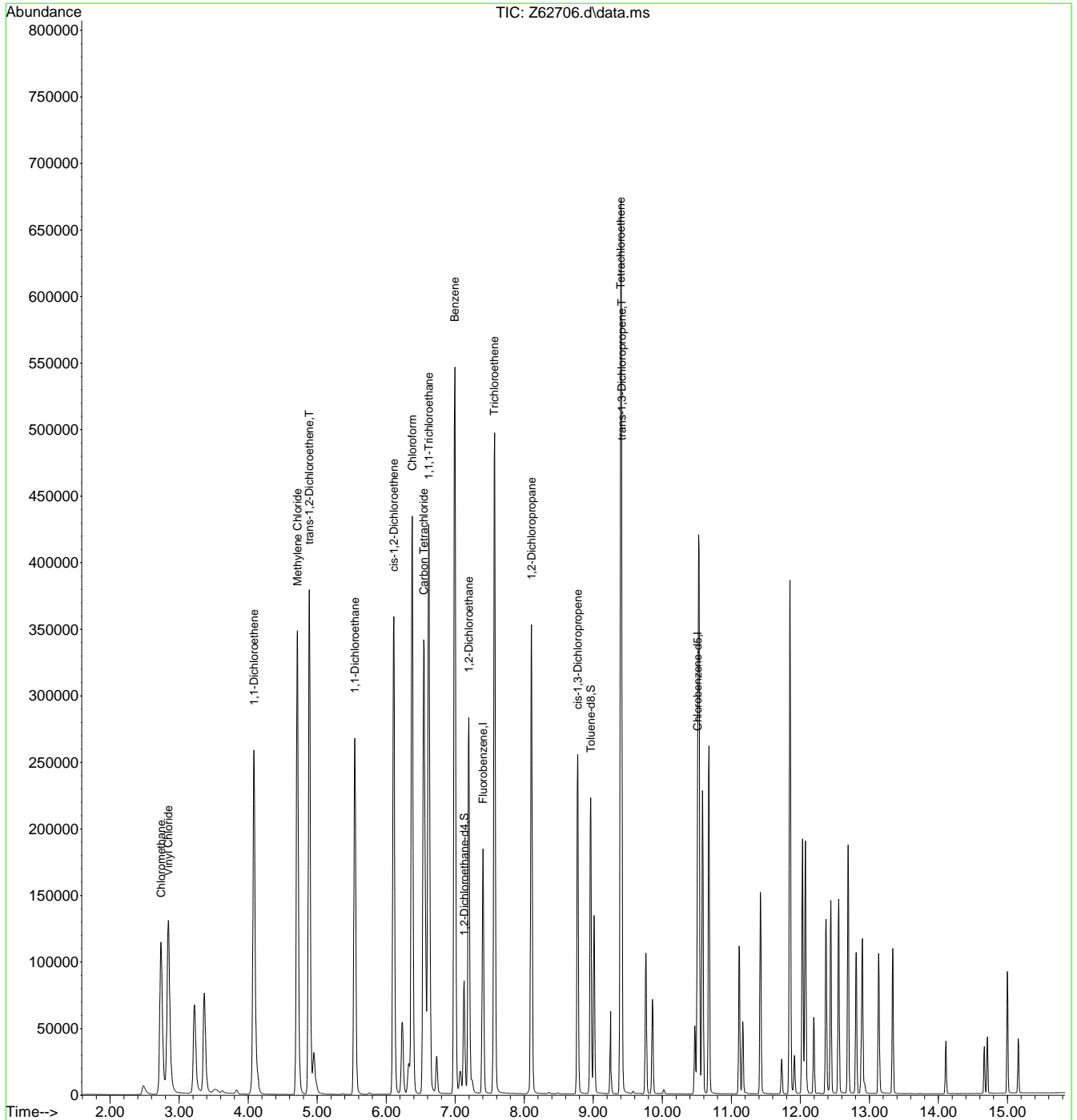
7.6.10  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\10-08-2020\vz2433\  
 Data File : Z62706.d  
 Acq On : 7 Oct 2020 5:13 pm  
 Operator : AKARIG  
 Sample : ecc2431-5  
 Misc : MS47304,VZ2433,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 07 20:46:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL100120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sat Oct 03 15:38:22 2020  
 Response via : Initial Calibration



DATE: 10/01/20	METHOD(s): * Simcl	BFB: V25942A	PH LOT: 1 to 12 pH lot #: 200814						
COLUMN TYPE: RTX-VMS	METHOD FILE(s): simcl100120.m	ICAL/CC: vs0846/vs0806	0 to 3 pH lot#: 220416						
DETECTOR: 5975C MSD	CALIB. DATE: 10/01/20	ISTD/SURR: vs0791	KI PAPER LOT: 060117						
INSTRUMENT: MSV0A15-Z	EM VOLTAGE: 1871V	ICV/QC: vs0847/vs0802	Processed BY:						
PURGE PRESSURE: 9.7psi	BFB Response: 26563050	AFA: VS0418A	akarig						
PURGE VOLUME: 5 ml	Run id	VZ2431	DATE VERIFIED: 10/01/2020						
ANALYST: akarig	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS	PH	CL	RR	COMMENTS
Z62662	blk	w	1	acq_simcl0214		-	-	-	✓
Z62663	blk	w				-	-	-	
Z62664	bfb	w	100	bfb		-	-	-	Passed Autofind ✓
Z62665	ic2431-1	w	3	acq_simcl0214		-	-	-	1ul -> 100ml
Z62666	ic2431-2	w	4	acq_simcl0214		-	-	-	5ul -> 100ml
Z62667	ic2431-3	w	5	acq_simcl0214		-	-	-	10ul -> 50ml
Z62668	ic2431-4	w	6	acq_simcl0214		-	-	-	25ul -> 50ml
Z62669	ic2431-5	w	7	acq_simcl0214		-	-	-	50ul -> 50ml
Z62660	ic2431-6	w	8	acq_simcl0214		-	-	-	75ul -> 50ml
Z62661	ic2431-7	w	9	acq_simcl0214		-	-	-	100ul -> 50ml
Z62662	blk	w	10	acq_simcl0214		-	-	-	
Z62663	icv2431-5	w	11	acq_simcl0214		-	-	-	50ul -> 50ml
Z62664	icv2431-5	w	12	acq_simcl0214		-	-	-	50ul -> 50ml

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005. Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPUP" for Leachate. Manual Integration. Rationale SOP QA029. MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PI Poor Instrument Integration

Analyst's Signature: 

DATE: 10/07/20	METHOD(s): * Simcl	BFB: V25942A	PH LOT: 1 to 12 pH lot #: 200814
COLUMN TYPE: RTX-VMS	METHOD FILE(S): simcl100120.m	ICAL/CC: vs0846/vs0806	0 to 3 pH lot#: 220416
DETECTOR: 5975C MSD	CALIB. DATE: 10/01/20	ISTD/SURR: vs0791	KI PAPER LOT: 060117
INSTRUMENT: MSVQA15-Z	EM VOLTAGE: 1871V	ICV/QC: vs0847/vs0802	Processed BY: Edesas
PURGE PRESSURE: 9.7psi	BFB Response: 28577060	AFA: VS0418A	akarig
PURGE VOLUME: 5 mL	Run id	VZ2433	DATE VERIFIED: 10/07/2020
ANALYST: akarig			

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62693	blk	-	-	w	1	acq_simcl0214		-	-	-	✓
Z62694	blk	-	-	w	2	acq_simcl0214		-	-	-	Passed Autofind ✓
Z62695	bfb	-	-	w	100	bfb		-	-	-	50ul -> 50ml passed
Z62696	cc2431-5	-	-	w	3	acq_simcl0214		-	-	-	20ul -> 40ml passed
Z62697	bs	-	-	w	4	acq_simcl0214		-	-	-	CH2C12 hit, not used
Z62698	mb	-	-	w	5	acq_simcl0214		-	-	-	CH2C12 hit
Z62699	mb	-	-	w	6	acq_simcl0214		-	-	-	CH2C12 hit
Z62700	fa79152-1	1x	2	w	7	acq_simcl0214	#3(Pil)	1	n	✓	
Z62701	fa79152-2	1x	2	w	8	acq_simcl0214		1	n	✓	
Z62702	fa79152-3	1x	2	w	9	acq_simcl0214		1	n	ND ✓	
Z62703	fa79153-1	1x	2	w	10	acq_simcl0214		1	n	ND ✓	
Z62704	fa79152-1.ms	10x	2	w	11	acq_simcl0214	10ml -> 100ml	1	n		20ul -> 40ml
Z62705	fa79152-1.ms	10x	2	w	12	acq_simcl0214	10ml -> 100ml	1	n		20ul -> 40ml
Z62706	ecc2431-5			w	13	acq_simcl0214					50ul -> 50ml

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005. Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration.

Analyst's Signature:  Karan G.

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWMP - OUCTP Lower/80)

SGS Job Number: FA78405

Sampling Date: 08/31/20



Report to:

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9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
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hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: 72



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA78405

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP Lower/80)

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA78405-1	08/31/20	11:50	THLH 09/02/20	AQ	Trip Blank Water	2036W0BW086A
FA78405-2	08/31/20	11:55	THLH 09/02/20	AQ	Ground Water	2036W0BW087F
FA78405-3	08/31/20	16:15	THLH 09/02/20	AQ	Ground Water	2036W0BW089C

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78405

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/16/2020 2:51:56

2 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 08/31/2020 and were received at SGS North America Inc - Orlando on 09/02/2020 properly preserved, at 1 Deg. C and intact. These Samples received an SGS Orlando job number of FA78405. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ

**Batch ID:** VZ2409

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA78405  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 08/31/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

**FA78405-1**      **2036W0BW086A**

No hits reported in this sample.

**FA78405-2**      **2036W0BW087F**

Carbon Tetrachloride	0.30 J	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78405-3**      **2036W0BW089C**

No hits reported in this sample.



Sample Results

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Report of Analysis

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SGS North America Inc.

## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	2036W0BW086A		
<b>Lab Sample ID:</b>	FA78405-1	<b>Date Sampled:</b>	08/31/20
<b>Matrix:</b>	AQ - Trip Blank Water	<b>Date Received:</b>	09/02/20
<b>Method:</b>	SW846 8260B BY SIM	<b>Percent Solids:</b>	n/a
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62083.D	1	09/04/20 11:55	SO	n/a	n/a	VZ2409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		74-125%
2037-26-5	Toluene-D8	102%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW087F	
<b>Lab Sample ID:</b> FA78405-2	<b>Date Sampled:</b> 08/31/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/02/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62084.D	1	09/04/20 12:14	SO	n/a	n/a	VZ2409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.30	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.2  
4

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW089C	
<b>Lab Sample ID:</b> FA78405-3	<b>Date Sampled:</b> 08/31/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/02/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62085.D	1	09/04/20 12:34	SO	n/a	n/a	VZ2409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	117%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits



## SGS Sample Receipt Summary

Job Number: FA78405

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP Lower/80

Date / Time Received: 9/2/2020 9:45:00 AM

Delivery Method: FedEx

Airbill #s: 771419616198

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.2);

Cooler Temps (Corrected) °C: Cooler 1: (1.0);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Sample Information**

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 230315  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 219813A

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: BRYANG

Date: 9/2/2020 9:45:00 AM

Reviewer: PH

Date: 9/3/2020

**FA78405: Chain of Custody**

**Page 2 of 2**

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78405  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 08/31/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VZ2409	SW846	8260B BY SIM					
VZ2409-BS	56-23-5	Carbon Tetrachloride	BSP	REC	86	%	72-136
VZ2409-BS	107-06-2	1,2-Dichloroethane	BSP	REC	92	%	73-128
VZ2409-BS	79-01-6	Trichloroethylene	BSP	REC	84	%	79-123
VZ2409-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	104	%	81-118
VZ2409-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	89-112
VZ2409-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	108	%	81-118
VZ2409-MB	2037-26-5	Toluene-D8	MB	SURR	101	%	89-112
FA78405-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	114	%	81-118
FA78405-1	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FA78405-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	116	%	81-118
FA78405-2	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78405-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	117	%	81-118
FA78405-3	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112

\* Sample used for QC is not from job FA78405



## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2409-MB	Z62076.D	1	09/04/20	SO	n/a	n/a	VZ2409

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78405-1, FA78405-2, FA78405-3

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	108%	74-125%
2037-26-5	Toluene-D8	101%	88-111%

**Blank Spike Summary**

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2409-BS	Z62075.D	1	09/04/20	SO	n/a	n/a	VZ2409

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78405-1, FA78405-2, FA78405-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	4.3	86	76-136
107-06-2	1,2-Dichloroethane	5	4.6	92	75-125
79-01-6	Trichloroethylene	5	4.2	84	81-126

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	104%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2408-BFB	<b>Injection Date:</b> 09/03/20
<b>Lab File ID:</b> Z62039.D	<b>Injection Time:</b> 09:29
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	66488	21.9	Pass
75	30.0 - 60.0% of mass 95	162304	53.5	Pass
95	Base peak, 100% relative abundance	303153	100.0	Pass
96	5.0 - 9.0% of mass 95	21238	7.01	Pass
173	Less than 2.0% of mass 174	1222	0.40 (0.52) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	235477	77.7	Pass
175	5.0 - 9.0% of mass 174	16056	5.30 (6.82) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	230208	75.9 (97.8) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	15659	5.17 (6.80) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2408-IC2408	Z62040.D	09/03/20	09:52	00:23	Initial cal 1
VZ2408-IC2408	Z62041.D	09/03/20	10:11	00:42	Initial cal 2
VZ2408-IC2408	Z62042.D	09/03/20	10:59	01:30	Initial cal 3
VZ2408-IC2408	Z62043.D	09/03/20	11:18	01:49	Initial cal 4
VZ2408-ICC2408	Z62044.D	09/03/20	11:40	02:11	Initial cal 5
VZ2408-IC2408	Z62045.D	09/03/20	11:59	02:30	Initial cal 6
VZ2408-IC2408	Z62046.D	09/03/20	12:18	02:49	Initial cal 7
VZ2408-ICV2408	Z62048.D	09/03/20	12:57	03:28	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2409-BFB	<b>Injection Date:</b> 09/04/20
<b>Lab File ID:</b> Z62073.D	<b>Injection Time:</b> 08:05
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	39290	23.7	Pass
75	30.0 - 60.0% of mass 95	96384	58.2	Pass
95	Base peak, 100% relative abundance	165525	100.0	Pass
96	5.0 - 9.0% of mass 95	11804	7.13	Pass
173	Less than 2.0% of mass 174	624	0.38 (0.47) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	132253	79.9	Pass
175	5.0 - 9.0% of mass 174	9164	5.54 (6.93) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	129197	78.1 (97.7) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	8818	5.33 (6.83) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2409-CC2408	Z62074.D	09/04/20	08:57	00:52	Continuing cal 5
VZ2409-BS	Z62075.D	09/04/20	09:17	01:12	Blank Spike
VZ2409-MB	Z62076.D	09/04/20	09:37	01:32	Method Blank
FA78398-2	Z62077.D	09/04/20	09:57	01:52	(used for QC only; not part of job FA78405)
ZZZZZZ	Z62078.D	09/04/20	10:17	02:12	(unrelated sample)
ZZZZZZ	Z62079.D	09/04/20	10:36	02:31	(unrelated sample)
FA78405-1	Z62083.D	09/04/20	11:55	03:50	2036W0BW086A
FA78405-2	Z62084.D	09/04/20	12:14	04:09	2036W0BW087F
FA78405-3	Z62085.D	09/04/20	12:34	04:29	2036W0BW089C
ZZZZZZ	Z62086.D	09/04/20	12:53	04:48	(unrelated sample)
ZZZZZZ	Z62087.D	09/04/20	13:12	05:07	(unrelated sample)
ZZZZZZ	Z62088.D	09/04/20	13:32	05:27	(unrelated sample)
FA78442-3	Z62089.D	09/04/20	13:51	05:46	(used for QC only; not part of job FA78405)
FA78442-3MS	Z62090.D	09/04/20	14:11	06:06	Matrix Spike
FA78442-3MSD	Z62091.D	09/04/20	14:30	06:25	Matrix Spike Duplicate
ZZZZZZ	Z62092.D	09/04/20	14:51	06:46	(unrelated sample)
ZZZZZZ	Z62093.D	09/04/20	15:10	07:05	(unrelated sample)
ZZZZZZ	Z62094.D	09/04/20	15:30	07:25	(unrelated sample)
ZZZZZZ	Z62095.D	09/04/20	15:49	07:44	(unrelated sample)
VZ2409-ECC2408	Z62100.D	09/04/20	19:51	11:46	Ending cal 5

# Internal Standard Area Summary

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2409-CC2408	<b>Injection Date:</b> 09/04/20
<b>Lab File ID:</b> Z62074.D	<b>Injection Time:</b> 08:57
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	3260477	7.40	2497954	10.51
Check Std <sup>b</sup>	2815075	7.39	2127080	10.51
Upper Limit <sup>c</sup>	5630150	7.56	4254160	10.68
Lower Limit <sup>d</sup>	1407538	7.22	1063540	10.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ2409-BS	2672989	7.40	2058240	10.51
VZ2409-MB	2556488	7.40	1926956	10.51
FA78398-2	2370806	7.40	1792632	10.51
ZZZZZZ	2351900	7.40	1763939	10.51
ZZZZZZ	2198438	7.40	1658808	10.51
FA78405-1	2038462	7.40	1511976	10.52
FA78405-2	1994625	7.40	1489243	10.51
FA78405-3	2009231	7.40	1508709	10.51
ZZZZZZ	2164070	7.40	1612157	10.51
ZZZZZZ	1826748	7.40	1363212	10.51
ZZZZZZ	1838941	7.40	1380575	10.52
FA78442-3	1837994	7.40	1379031	10.51
FA78442-3MS	1927205	7.40	1476074	10.51
FA78442-3MSD	1739870	7.40	1320439	10.51
ZZZZZZ	1825157	7.40	1358812	10.51
ZZZZZZ	1800530	7.40	1346624	10.51
ZZZZZZ	1764784	7.40	1319390	10.51
ZZZZZZ	1724664	7.40	1284998	10.52
VZ2409-ECC24082077882		7.40	1582551	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2408-ICC2408 Z62044.D 09/03/20 11:40
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Surrogate Recovery Summary

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA78405-1	Z62083.D	114	102
FA78405-2	Z62084.D	116	101
FA78405-3	Z62085.D	117	100
VZ2409-BS	Z62075.D	104	99
VZ2409-MB	Z62076.D	108	101

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

# Initial Calibration Summary

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICC2408  
**Lab FileID:** Z62044.D

Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Calibration Files

1 =Z62040.D 2 =Z62041.D 3 =Z62042.D 4 =Z62043.D  
 5 =Z62044.D 6 =Z62045.D 7 =Z62046.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.794	0.463	0.459	0.429	0.461	0.457	0.479	0.506	25.30
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.42534 *A + 0.01287 *A^2								
3) Chloromethane	0.878	0.479	0.498	0.469	0.461	0.475	0.504	0.538	28.07
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.42874 *A + 0.01805 *A^2								
4) 1,1-Dichloroethen	0.434	0.305	0.289	0.312	0.324	0.320	0.341	0.332	14.33
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
	Response Ratio = 0.00000 + 0.29464 *A + 0.01101 *A^2								
5) Methylene Chlorid	0.786	0.535	0.450	0.429	0.419	0.437	0.509	0.509	27.83
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986								
	Response Ratio = 0.00000 + 0.43058 *A + 0.00030 *A^2								
6)T trans-1,2-Dichlor	0.543	0.360	0.360	0.383	0.402	0.400	0.428	0.411	15.37
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.36221 *A + 0.01572 *A^2								
7) 1,1-Dichloroethan	0.923	0.631	0.638	0.678	0.710	0.705	0.747	0.719	13.74
8) cis-1,2-Dichloroe	0.531	0.387	0.385	0.408	0.427	0.424	0.450	0.430	11.68
9) Chloroform	1.017	0.698	0.713	0.753	0.791	0.785	0.836	0.799	13.39
10) Carbon Tetrachlor	0.756	0.480	0.510	0.534	0.578	0.580	0.620	0.580	15.70
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
	Response Ratio = 0.00000 + 0.51032 *A + 0.02676 *A^2								
11) 1,1,1-Trichloroet	0.950	0.631	0.634	0.684	0.724	0.721	0.765	0.730	14.91
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
	Response Ratio = 0.00000 + 0.65351 *A + 0.02692 *A^2								
12) Benzene	1.892	1.310	1.314	1.401	1.450	1.448	1.520	1.476	13.44
13)S 1,2-Dichloroethan	0.313	0.324	0.323	0.328	0.323	0.329	0.328	0.324	1.75
14) 1,2-Dichloroethan	0.493	0.471	0.504	0.541	0.554	0.562	0.586	0.530	7.85
15) Trichloroethene	0.593	0.397	0.411	0.439	0.453	0.456	0.485	0.462	14.03
16) 1,2-Dichloropropa	0.412	0.336	0.339	0.369	0.381	0.383	0.401	0.374	7.75
17) cis-1,3-Dichlorop	0.435	0.292	0.441	0.446	0.513	0.531	0.562	0.460	19.38
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.43921 *A + 0.03094 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.248	1.258	1.248	1.247	1.236	1.239	1.234	1.244	0.69
20)T trans-1,3-Dichlor	0.399	0.287	0.461	0.474	0.566	0.597	0.636	0.489	24.91
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9956								

6.6.1  
6



# Initial Calibration Summary

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICC2408  
**Lab FileID:** Z62044.D

---

$$\text{Response Ratio} = 0.00000 + 0.60851 *A$$

21) Tetrachloroethene 0.868 0.562 0.546 0.585 0.608 0.614 0.641 0.632 17.25  
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999  
Response Ratio = 0.00000 + 0.56157 \*A + 0.01953 \*A^2

-----  
(#) = Out of Range

SIMCL090320.M

Fri Sep 04 14:05:20 2020

6.6.1

6

## Initial Calibration Verification

Job Number: FA78405  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2408-ICV2408  
 Lab FileID: Z62048.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\Je...-2020\VZ2408\Z62048.d Vial: 9  
 Acq On : 3 Sep 2020 12:57 pm Operator: shanicao  
 Sample : cc2408-5 Inst : MSVOA15  
 Misc : MS46458,VZ2408,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Thu Sep 03 14:30:55 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	83	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	9.694	3.1	79	0.00	2.85
3	Chloromethane	10.000	10.151	-1.5	85	0.00	2.74
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.332	0.296	10.8	76	0.00	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	9.714	2.9	81	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	9.671	3.3	78	0.00	4.89
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.695	3.3	81	0.00	5.55
8	cis-1,2-Dichloroethene	0.430	0.417	3.0	81	0.00	6.11
9	Chloroform	0.799	0.771	3.5	81	0.00	6.38
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	9.580	4.2	77	0.00	6.54
11	1,1,1-Trichloroethane	10.000	9.677	3.2	78	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.468	0.5	84	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.335	-3.4	86	0.00	7.13
14	1,2-Dichloroethane	0.530	0.573	-8.1	86	0.00	7.20
15	Trichloroethene	0.462	0.467	-1.1	85	0.00	7.56
16	1,2-Dichloropropane	0.374	0.390	-4.3	85	0.00	8.11
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.853	1.5	80	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00	10.51
19 S	Toluene-d8	1.244	1.241	0.2	83	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	9.828	1.7	79	0.00	9.41
21	Tetrachloroethene	10.000	9.817	1.8	80	0.00	9.40

# Initial Calibration Verification

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICV2408  
**Lab FileID:** Z62048.D

(#) = Out of Range  
Z62044.D SIMCL090320.M

SPCC's out = 0 CCC's out = 0  
Fri Sep 04 00:37:04 2020

# Continuing Calibration Summary

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2409-CC2408  
**Lab FileID:** Z62074.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VZ2409\Z62074.d Vial: 1  
 Acq On : 4 Sep 2020 8:57 am Operator: shanicao  
 Sample : CC2408-5 Inst : MSVOA15  
 Misc : MS47134,VZ2409,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	86	0.00	7.39
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.261	-2.6	87	0.00	2.83
3	Chloromethane	10.000	10.613	-6.1	93	0.00	2.73
4	1,1-Dichloroethene	10.000	9.699	3.0	82	0.00	4.08
5	Methylene Chloride	10.000	9.985	0.2	87	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	9.899	1.0	84	0.00	4.88
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.706	1.8	86	0.00	5.54
8	cis-1,2-Dichloroethene	0.430	0.418	2.8	84	0.00	6.10
9	Chloroform	0.799	0.780	2.4	85	0.00	6.37
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	9.419	5.8	79	0.00	6.54
11	1,1,1-Trichloroethane	10.000	9.639	3.6	81	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.437	2.6	86	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.340	-4.9	91	0.00	7.12
14	1,2-Dichloroethane	0.530	0.590	-11.3	92	0.00	7.19
15	Trichloroethene	0.462	0.442	4.3	84	0.00	7.56
16	1,2-Dichloropropane	0.374	0.382	-2.1	87	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	10.129	-1.3	86	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00	10.51
19 S	Toluene-d8	1.244	1.239	0.4	85	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	9.573	4.3	88	0.00	9.41
21	Tetrachloroethene	10.000	9.736	2.6	82	0.00	9.39

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62044.D    SIMCL090320.M              Tue Sep 08 01:12:30 2020

# Continuing Calibration Summary

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2409-ECC2408  
**Lab FileID:** Z62100.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\090420\Z62100.D Vial: 17  
 Acq On : 4 Sep 2020 7:51 pm Operator: shanicao  
 Sample : ECC2408-5 Inst : MSVOA15  
 Misc : MS47134,VZ2409,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I Fluorobenzene	1.000	1.000	0.0	64	0.00	7.40
----- Amount Calc. %Drift -----						
2 Vinyl Chloride	10.000	11.864	-18.6	75	0.00	2.84
3 Chloromethane	10.000	11.518	-15.2	75	0.00	2.74
4 1,1-Dichloroethene	10.000	10.079	-0.8	63	0.00	4.08
5 Methylene Chloride	10.000	10.080	-0.8	65	0.00	4.71
6 T trans-1,2-Dichloroethene	10.000	10.058	-0.6	63	0.00	4.89
----- AvgRF CCRF %Dev -----						
7 1,1-Dichloroethane	0.719	0.751	-4.5	67	0.00	5.54
8 cis-1,2-Dichloroethene	0.430	0.412	4.2	61	0.00	6.10
9 Chloroform	0.799	0.818	-2.4	66	0.00	6.37
----- Amount Calc. %Drift -----						
10 Carbon Tetrachloride	10.000	9.792	2.1	61	0.00	6.54
11 1,1,1-Trichloroethane	10.000	10.103	-1.0	63	0.00	6.61
----- AvgRF CCRF %Dev -----						
12 Benzene	1.476	1.473	0.2	65	0.00	6.99
13 S 1,2-Dichloroethane-d4	0.324	0.384	-18.5	76	0.00	7.12
14 1,2-Dichloroethane	0.530	0.633	-19.4	73	0.00	7.19
15 Trichloroethene	0.462	0.455	1.5	64	0.00	7.56
16 1,2-Dichloropropane	0.374	0.393	-5.1	66	0.00	8.10
----- Amount Calc. %Drift -----						
17 cis-1,3-Dichloropropene	10.000	9.350	6.5	58	0.00	8.77
----- AvgRF CCRF %Dev -----						
18 I Chlorobenzene-d5	1.000	1.000	0.0	63	0.00	10.51
19 S Toluene-d8	1.244	1.203	3.3	62	0.00	8.96
----- Amount Calc. %Drift -----						
20 T trans-1,3-Dichloropropene	10.000	8.918	10.8	61	0.00	9.41
21 Tetrachloroethene	10.000	9.489	5.1	59	0.00	9.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 Z62044.D SIMCL090320.M Tue Sep 08 12:34:34 2020

**Run Sequence Report**

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2408	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2408-BFB	Z62039.D	09/03/20 09:29	n/a	BFB Tune
VZ2408-IC2408	Z62040.D	09/03/20 09:52	n/a	Initial cal 1
VZ2408-IC2408	Z62041.D	09/03/20 10:11	n/a	Initial cal 2
VZ2408-IC2408	Z62042.D	09/03/20 10:59	n/a	Initial cal 3
VZ2408-IC2408	Z62043.D	09/03/20 11:18	n/a	Initial cal 4
VZ2408-ICC2408	Z62044.D	09/03/20 11:40	n/a	Initial cal 5
VZ2408-IC2408	Z62045.D	09/03/20 11:59	n/a	Initial cal 6
VZ2408-IC2408	Z62046.D	09/03/20 12:18	n/a	Initial cal 7
VZ2408-ICV2408	Z62048.D	09/03/20 12:57	n/a	Initial cal verification 5

**Run Sequence Report**

**Job Number:** FA78405  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2409	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
-----------------------	-----------------------------------	-----------------------------

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2409-BFB	Z62073.D	09/04/20 08:05	n/a	BFB Tune
VZ2409-CC2408	Z62074.D	09/04/20 08:57	n/a	Continuing cal 5
VZ2409-BS	Z62075.D	09/04/20 09:17	n/a	Blank Spike
VZ2409-MB	Z62076.D	09/04/20 09:37	n/a	Method Blank
FA78398-2	Z62077.D	09/04/20 09:57	n/a	(used for QC only; not part of job FA78405)
ZZZZZZ	Z62078.D	09/04/20 10:17	n/a	(unrelated sample)
ZZZZZZ	Z62079.D	09/04/20 10:36	n/a	(unrelated sample)
FA78405-1	Z62083.D	09/04/20 11:55	n/a	2036W0BW086A
FA78405-2	Z62084.D	09/04/20 12:14	n/a	2036W0BW087F
FA78405-3	Z62085.D	09/04/20 12:34	n/a	2036W0BW089C
ZZZZZZ	Z62086.D	09/04/20 12:53	n/a	(unrelated sample)
ZZZZZZ	Z62087.D	09/04/20 13:12	n/a	(unrelated sample)
ZZZZZZ	Z62088.D	09/04/20 13:32	n/a	(unrelated sample)
FA78442-3	Z62089.D	09/04/20 13:51	n/a	(used for QC only; not part of job FA78405)
FA78442-3MS	Z62090.D	09/04/20 14:11	n/a	Matrix Spike
FA78442-3MSD	Z62091.D	09/04/20 14:30	n/a	Matrix Spike Duplicate
ZZZZZZ	Z62092.D	09/04/20 14:51	n/a	(unrelated sample)
ZZZZZZ	Z62093.D	09/04/20 15:10	n/a	(unrelated sample)
ZZZZZZ	Z62094.D	09/04/20 15:30	n/a	(unrelated sample)
ZZZZZZ	Z62095.D	09/04/20 15:49	n/a	(unrelated sample)
VZ2409-ECC2408	Z62100.D	09/04/20 19:51	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
Data File : Z62083.d  
Acq On : 4 Sep 2020 11:55 am  
Operator : shanicao  
Sample : FA78405-1  
Misc : MS47134,VZ2409,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 08 01:14:58 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2038462	5.00	ppb	0.00
18) Chlorobenzene-d5	10.515	117	1511976	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	753128	5.70	ppb	0.00
Spiked Amount	5.000	Range 79 - 125	Recovery	=	114.00%	
19) Toluene-d8	8.961	98	1910301	5.08	ppb	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	101.60%	

Target Compounds Qvalue  
-----

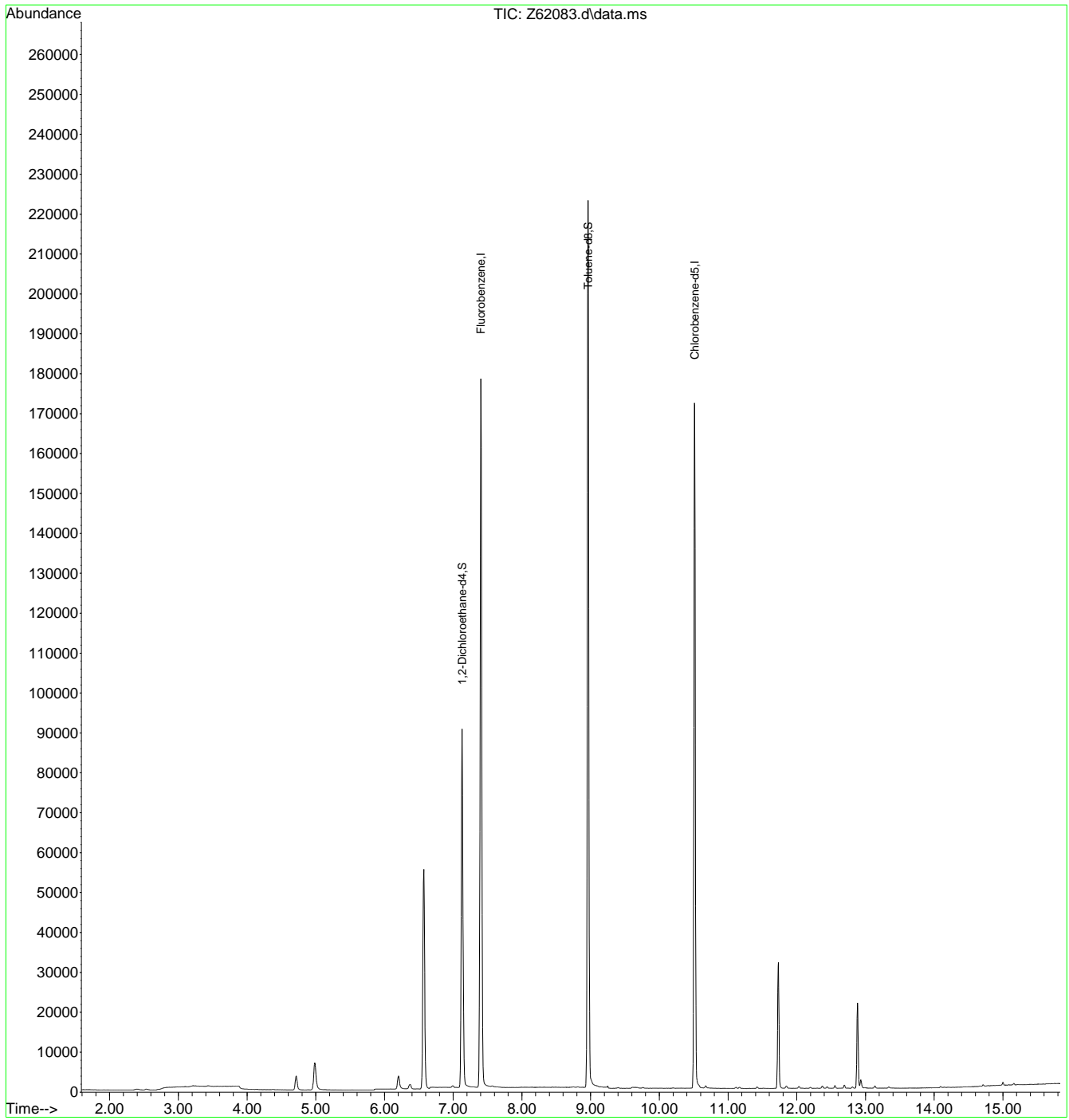
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
Data File : Z62083.d  
Acq On : 4 Sep 2020 11:55 am  
Operator : shanicao  
Sample : FA78405-1  
Misc : MS47134,VZ2409,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 08 01:14:58 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62084.d  
 Acq On : 4 Sep 2020 12:14 pm  
 Operator : shanicao  
 Sample : FA78405-2  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 08 01:15:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1994625	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1489243	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	747775	5.79	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	115.80%
19) Toluene-d8	8.961	98	1863825	5.03	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%
Target Compounds						
10) Carbon Tetrachloride	6.543	117	61467	0.30	ppb	Qvalue 99
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

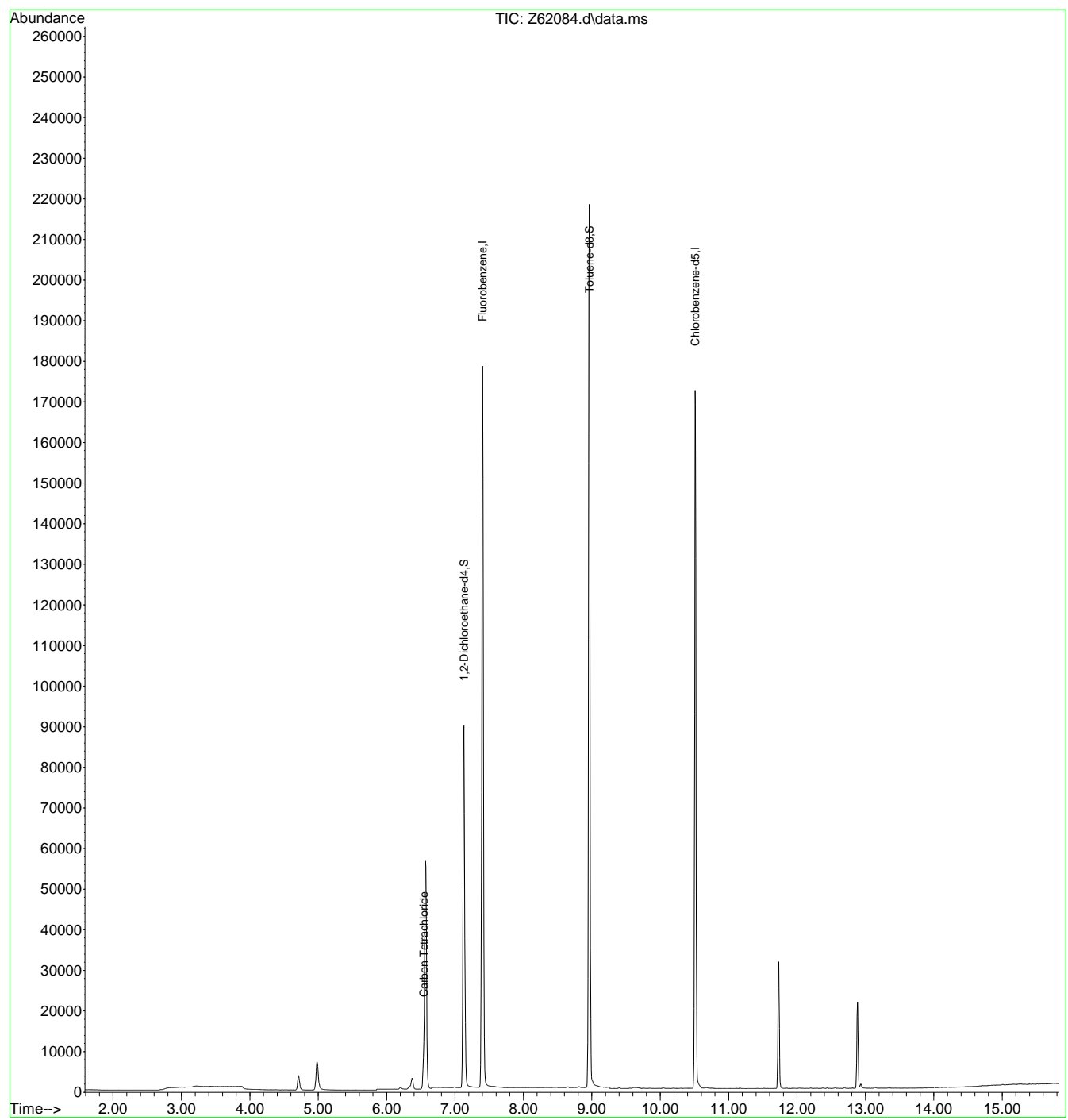
7.12  
7



Quantitation Report (QT Reviewed)

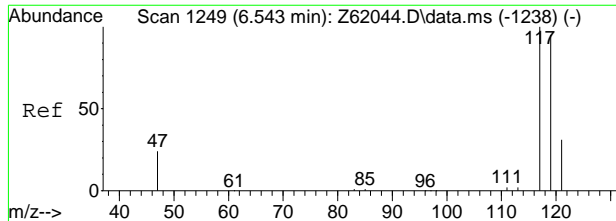
Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
Data File : Z62084.d  
Acq On : 4 Sep 2020 12:14 pm  
Operator : shanicao  
Sample : FA78405-2  
Misc : MS47134,VZ2409,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 08 01:15:12 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



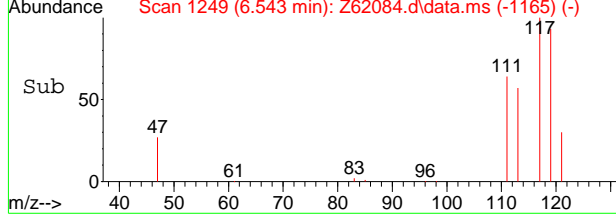
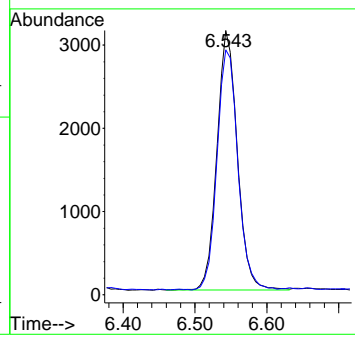
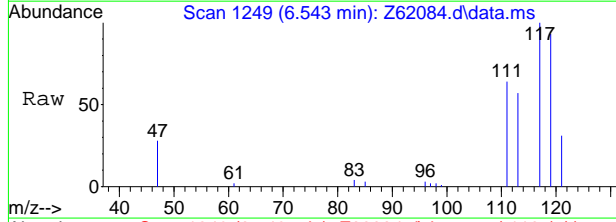
7.1.2  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.30 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. 0.000 min  
 Lab File: Z62084.d  
 Acq: 4 Sep 2020 12:14 pm

Tgt Ion	Resp	Lower	Upper
117	61467		
117	100		
119	94.4	75.6	115.6



7.12  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
Data File : Z62085.d  
Acq On : 4 Sep 2020 12:34 pm  
Operator : shanicao  
Sample : FA78405-3  
Misc : MS47134,VZ2409,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 08 01:15:29 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2009231	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1508709	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	759119	5.83	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	116.60%
19) Toluene-d8	8.961	98	1869486	4.98	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%
Target Compounds						Qvalue
-----						

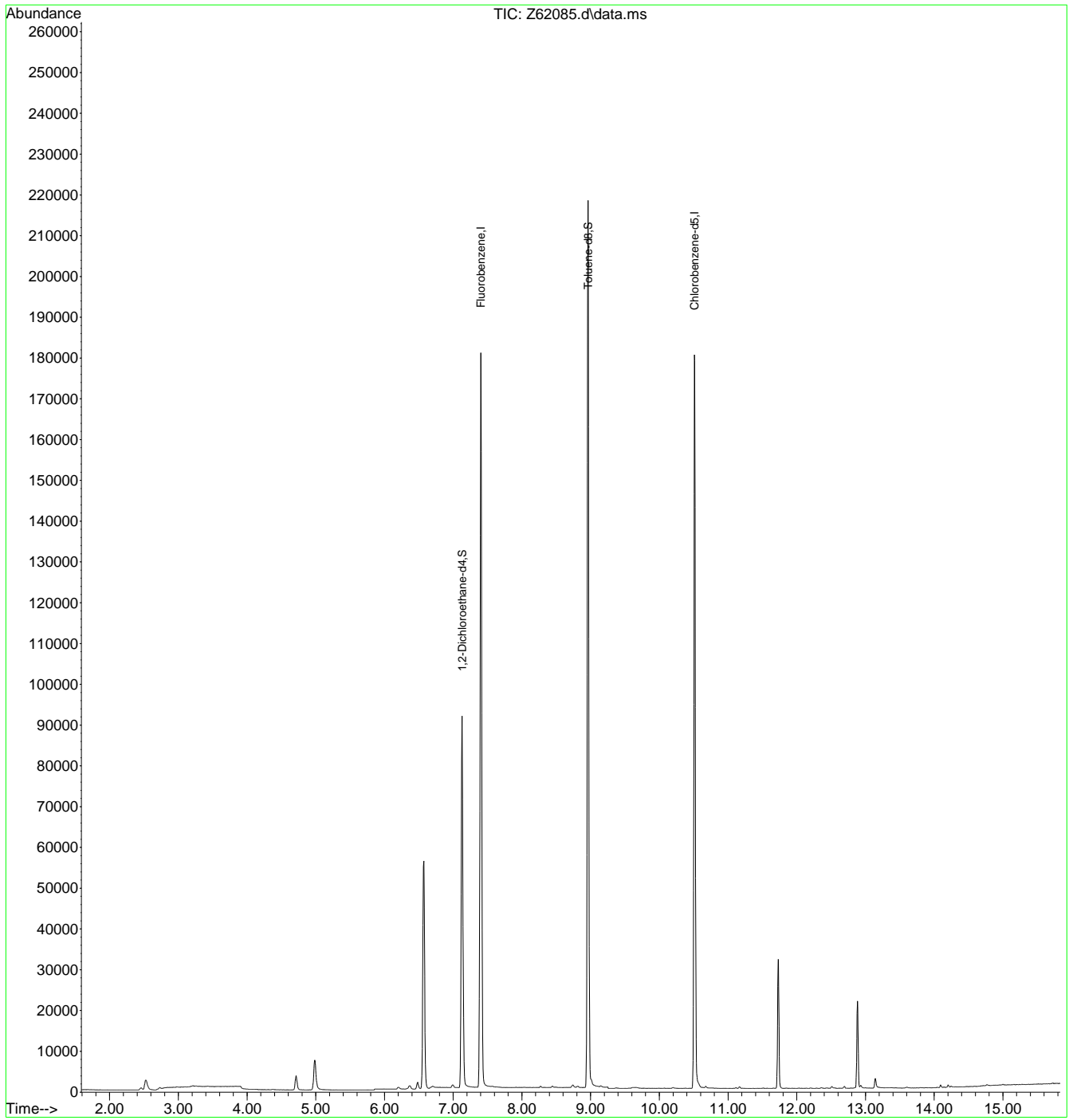
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
Data File : Z62085.d  
Acq On : 4 Sep 2020 12:34 pm  
Operator : shanicao  
Sample : FA78405-3  
Misc : MS47134,VZ2409,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 08 01:15:29 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.3  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62076.d  
 Acq On : 4 Sep 2020 9:37 am  
 Operator : shanicao  
 Sample : MB  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 01:08:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2556488	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1926956	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	892184	5.39	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	107.80%
19) Toluene-d8	8.961	98	2425025	5.06	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
Target Compounds						
5) Methylene Chloride	4.713	84	53538	0.24	ppb	Qvalue 95
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

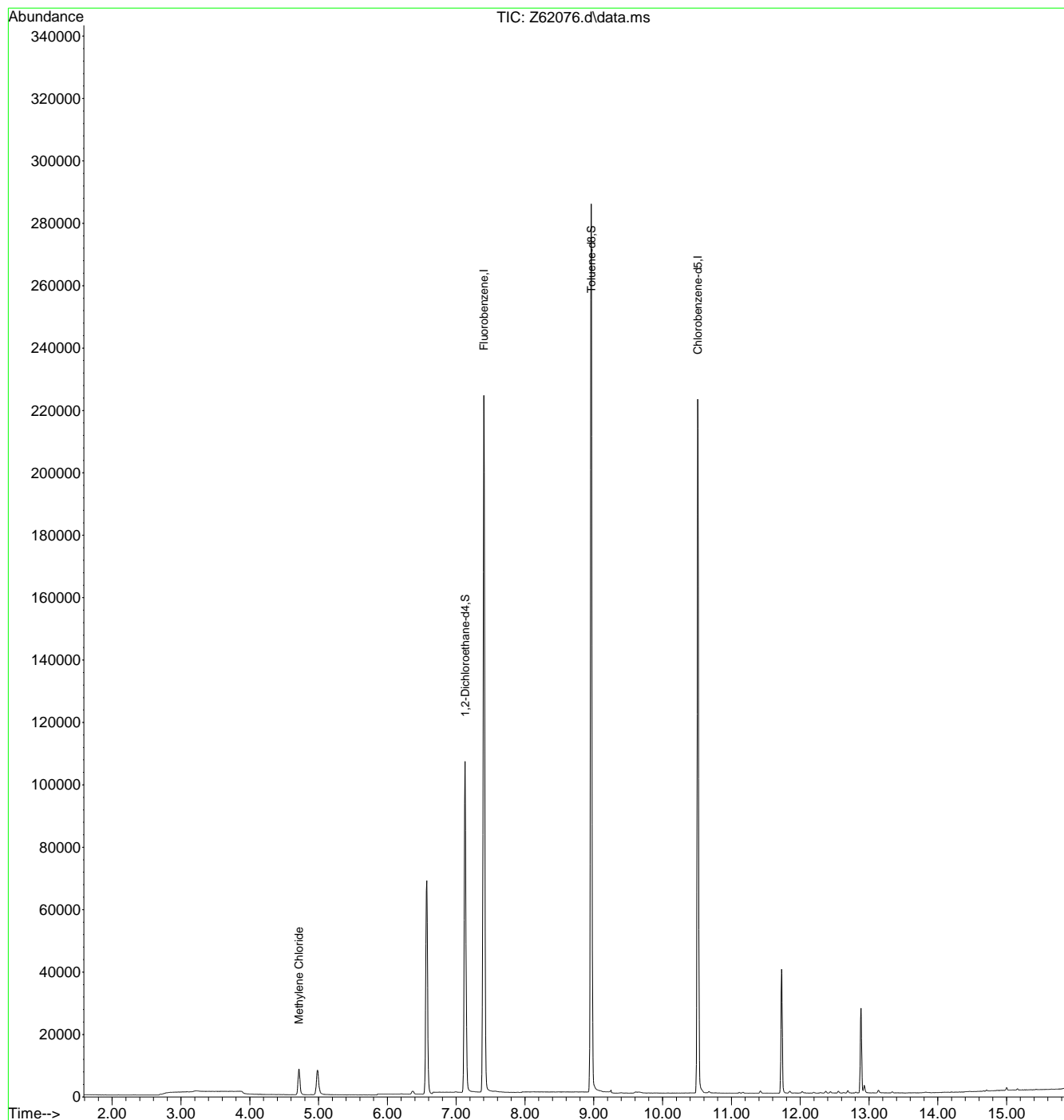
7.2.1  
7



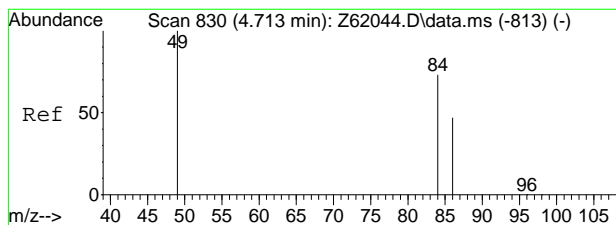
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
Data File : Z62076.d  
Acq On : 4 Sep 2020 9:37 am  
Operator : shanicao  
Sample : MB  
Misc : MS47134,VZ2409,,,,,  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 01:08:19 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

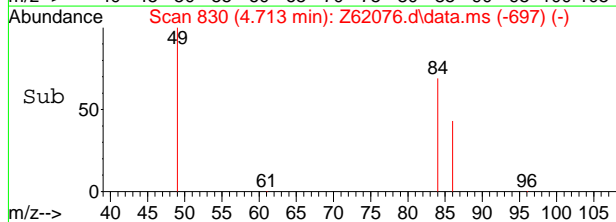
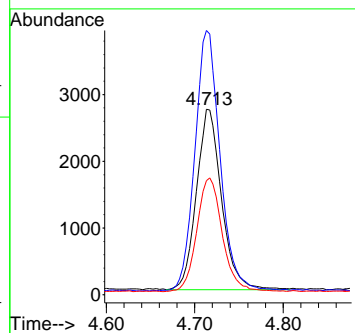
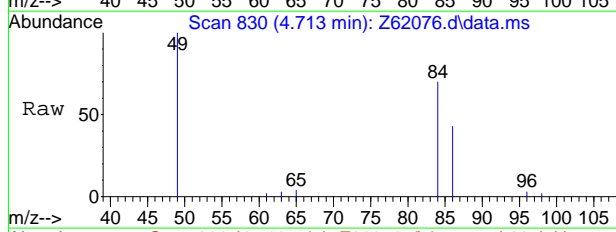


7.2.1  
7



#5  
 Methylene Chloride  
 Concen: 0.24 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62076.d  
 Acq: 4 Sep 2020 9:37 am

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.1	116.6	156.6
86	61.3	43.9	83.9



7.2.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62075.d  
 Acq On : 4 Sep 2020 9:17 am  
 Operator : shanicao  
 Sample : BS  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 01:08:17 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2672989	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2058240	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	897164	5.18	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.60%	
19) Toluene-d8	8.961	98	2545872	4.97	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1221527	5.21	ppb		100
3) Chloromethane	2.733	50	1182271	4.95	ppb		99
4) 1,1-Dichloroethene	4.083	96	718514	4.42	ppb		97
5) Methylene Chloride	4.713	84	971240	4.22	ppb		97
6) trans-1,2-Dichloroethene	4.886	96	901138	4.48	ppb		98
7) 1,1-Dichloroethane	5.542	63	1666670	4.34	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	970016	4.22	ppb		94
9) Chloroform	6.371	83	1807214	4.23	ppb		100
10) Carbon Tetrachloride	6.543	117	1230469	4.31	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	1594318	4.40	ppb		99
12) Benzene	6.994	78	3462489	4.39	ppb		100
14) 1,2-Dichloroethane	7.198	62	1309090	4.62	ppb		99
15) Trichloroethene	7.564	95	1034184	4.19	ppb		99
16) 1,2-Dichloropropane	8.105	63	902107	4.51	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	1001964	4.04	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	810545	3.24	ppb		100
21) Tetrachloroethene	9.399	166	1055308	4.43	ppb		100

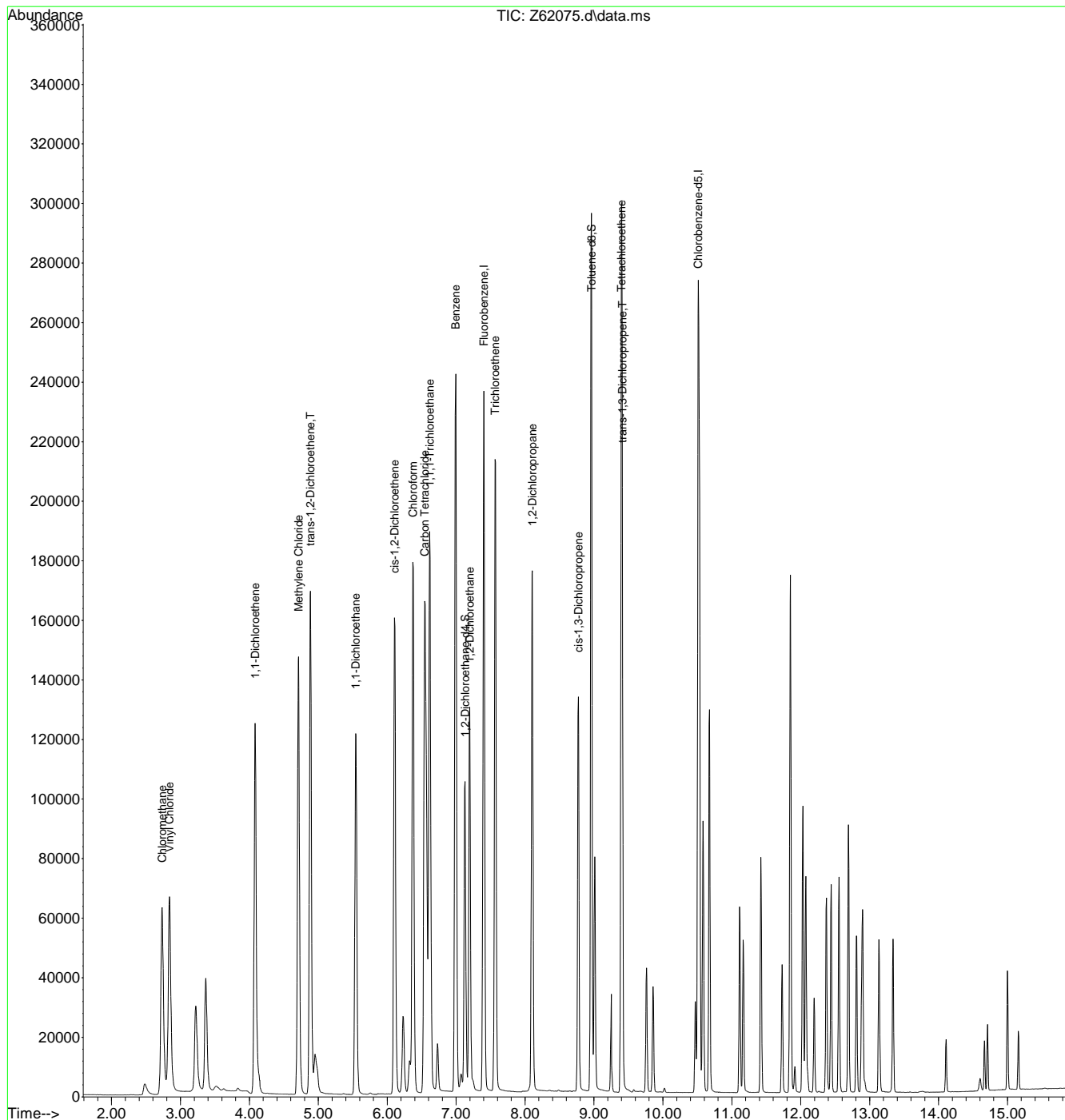
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62075.d  
 Acq On : 4 Sep 2020 9:17 am  
 Operator : shanicao  
 Sample : BS  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 01:08:17 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



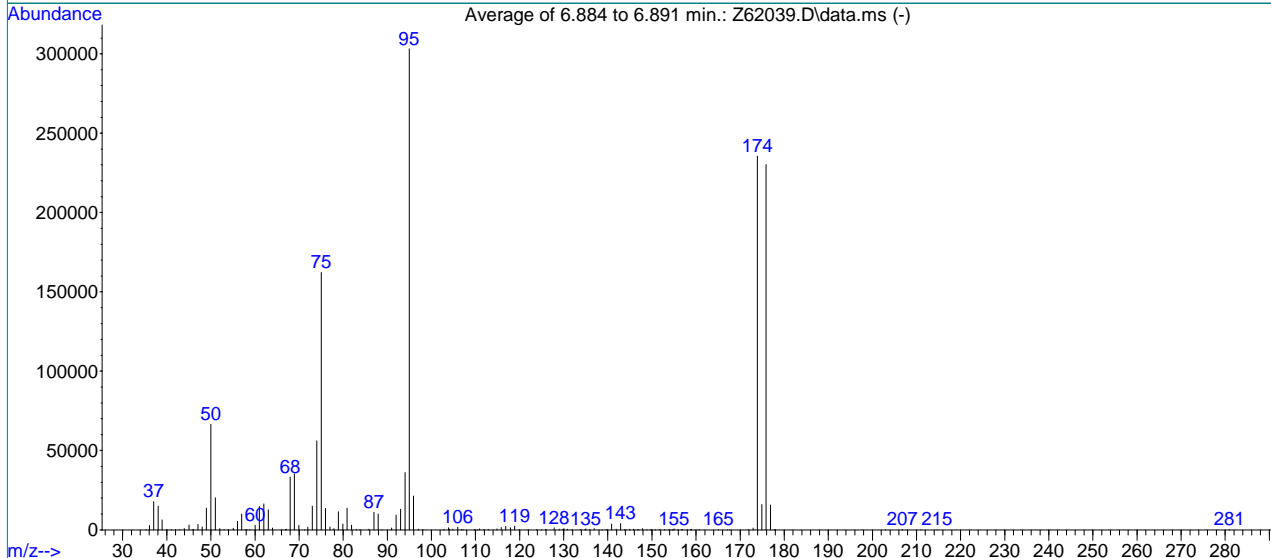
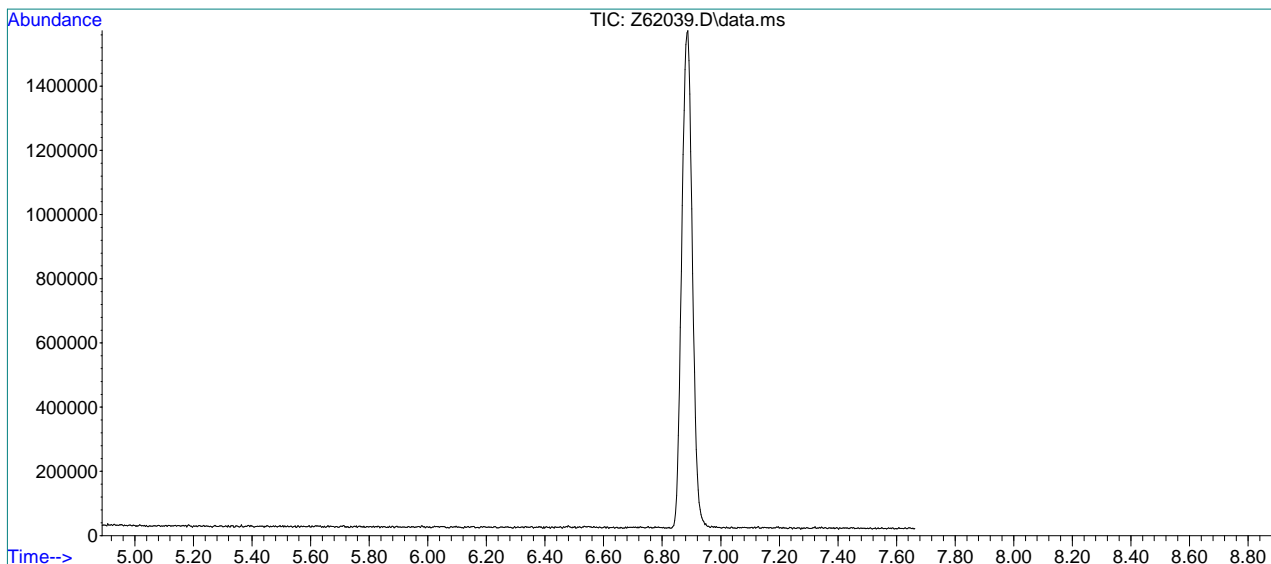
7.3.1  
7

BFB

Data File : C:\msdchem\1\data\090320\Z62039.D  
 Acq On : 3 Sep 2020 9:29 am  
 Sample : BFB  
 Misc : MS46458,VZ2408,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: shanicao  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2114, 2115, 2116; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	66488	PASS
75	95	30	60	53.5	162304	PASS
95	95	100	100	100.0	303153	PASS
96	95	5	9	7.0	21238	PASS
173	174	0.00	2	0.5	1222	PASS
174	95	50	100	77.7	235477	PASS
175	174	5	9	6.8	16056	PASS
176	174	95	101	97.8	230208	PASS
177	176	5	9	6.8	15659	PASS

7.4.1  
7

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.30	52	45.80	167	56.00	5387	66.90	190
36.05	2773	46.05	183	57.00	9992	67.10	489
37.00	17718	47.05	3550	57.90	268	67.95	33363
38.05	14875	48.00	1840	58.20	136	68.95	35178
38.95	6224	49.00	13650	58.85	124	69.95	2763
40.00	334	50.00	66488	60.00	2916	71.20	99
41.00	107	51.00	20248	61.00	14791	71.95	1717
42.00	125	52.05	861	62.00	16361	73.00	14848
42.95	161	52.95	207	63.00	12571	74.00	56120
43.95	877	53.90	349	63.95	1178	75.00	162304
45.00	3127	55.05	1007	66.05	98	76.00	13465

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.00	1815	88.80	61	103.85	1339	114.85	649
77.90	720	90.95	1090	104.10	528	115.80	1564
78.90	11413	92.00	9313	104.85	445	116.85	2289
79.90	3660	93.00	12994	105.95	1740	117.90	1393
80.85	13619	94.00	36128	106.85	292	118.85	2352
81.90	2951	94.95	303153	107.20	159	119.90	68
82.95	278	95.95	21238	109.80	314	121.90	152
83.80	70	97.00	532	110.50	69	123.80	180
85.85	442	98.10	70	110.95	588	125.00	76
86.95	11103	102.70	96	111.95	227	125.90	236
87.95	10026	103.00	134	112.90	296	127.85	1308

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.95	377	139.75	271	148.85	182	155.90	165
129.80	432	140.85	3605	149.75	321	156.70	160
130.05	765	141.90	478	150.00	157	156.95	249
130.85	489	142.90	3996	150.80	112	158.00	152
131.90	186	143.80	187	151.80	268	158.80	237
133.85	274	144.10	61	152.90	320	159.00	202
134.80	216	145.00	433	153.85	141	160.75	310
135.00	602	145.90	383	154.10	123	165.10	50
135.85	140	146.70	72	154.60	122	167.10	115
136.90	757	147.00	206	154.80	203	167.70	52
138.70	65	147.85	763	155.05	591	171.90	71

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

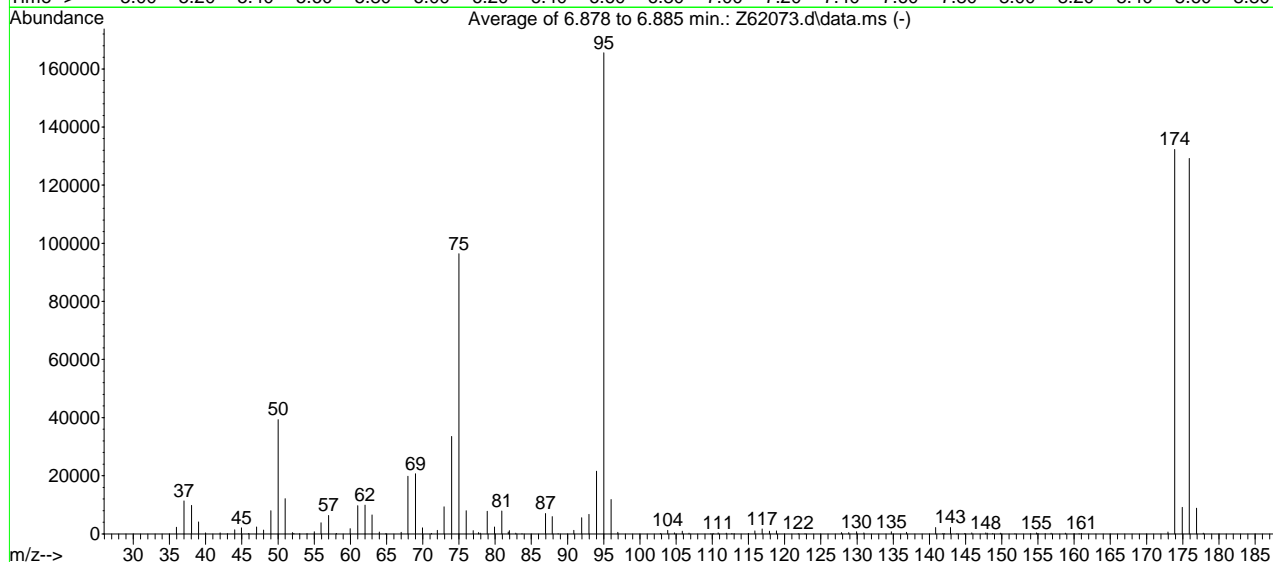
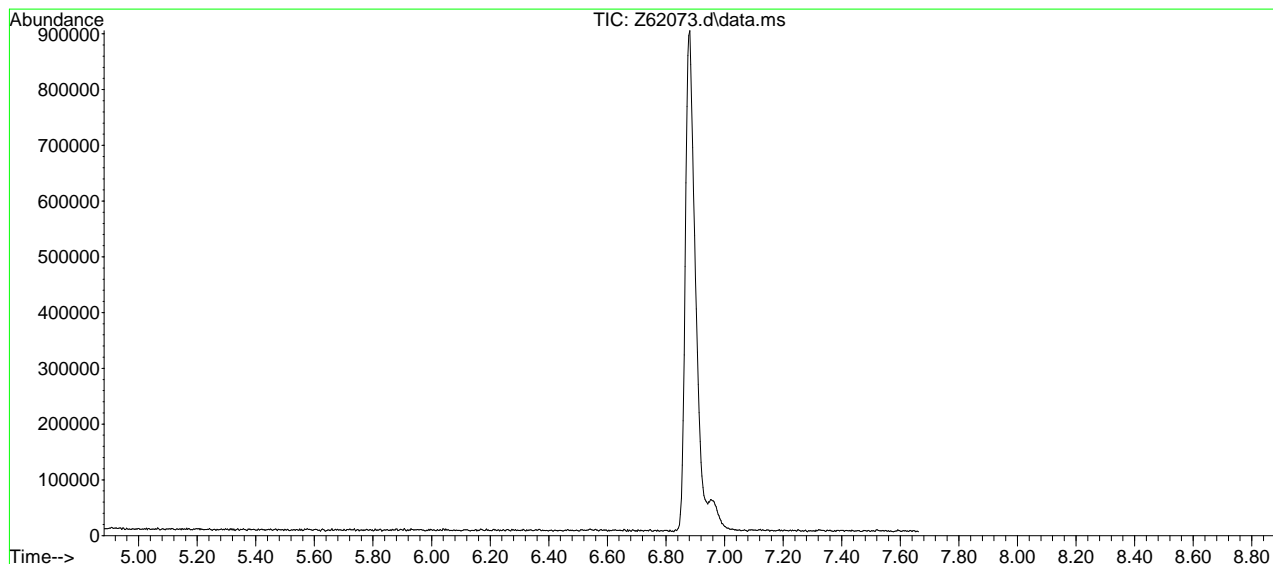
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.95	1222	214.70	76				
173.90	235477	281.00	82				
174.90	16056						
175.90	230208						
176.90	15659						
177.80	57						
178.00	304						
202.95	136						
206.85	258						
207.90	70						
211.00	61						

BFB

Data File : C:\msdchem\1\data\je...-2020\VZ2409\Z62073.d Vial: 100  
 Acq On : 4 Sep 2020 8:05 am Operator: shanicao  
 Sample : BFB Inst : MSVOA15  
 Misc : MS47134,VZ2409,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2112, 2113, 2114; Background Corrected with Scan 2097

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	39290	PASS
75	95	30	60	58.2	96384	PASS
95	95	100	100	100.0	165525	PASS
96	95	5	9	7.1	11804	PASS
173	174	0.00	2	0.5	624	PASS
174	95	50	100	79.9	132253	PASS
175	174	5	9	6.9	9164	PASS
176	174	95	101	97.7	129197	PASS
177	176	5	9	6.8	8818	PASS

7.4.2  
7

Average of 6.878 to 6.885 min.: Z62073.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	2233	48.00	1274	58.05	186	71.20	163
37.00	11343	49.00	8005	59.95	1748	72.00	1185
38.05	9847	50.00	39290	61.00	9653	72.95	9335
39.00	4082	51.00	12159	62.00	9935	74.00	33565
40.00	336	52.00	407	63.00	6535	75.00	96384
42.00	303	52.20	157	64.00	619	76.00	7977
43.00	22	53.00	80	64.90	55	76.95	1111
44.00	1368	54.00	58	67.00	528	77.70	423
44.95	2087	55.00	724	67.95	19862	77.95	291
45.95	182	55.95	3808	69.00	20677	78.90	7725
47.05	2329	57.00	6318	69.95	2092	79.90	2334

Average of 6.878 to 6.885 min.: Z62073.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	7832	94.00	21539	110.80	362	127.85	453
81.80	588	95.00	165525	111.95	210	128.85	403
81.95	1074	96.00	11804	112.70	173	129.95	756
82.85	245	96.95	519	113.00	57	130.95	360
83.70	53	102.85	159	115.00	177	134.75	743
86.95	6963	103.85	1173	115.90	999	136.85	521
87.90	5956	104.75	302	116.90	1674	140.85	2191
88.70	97	105.85	891	117.90	941	141.85	193
90.85	1187	106.80	249	118.85	998	142.10	97
91.95	5512	109.80	74	121.90	93	142.90	2214
92.95	6742	110.20	80	122.80	58	143.80	76

Average of 6.878 to 6.885 min.: Z62073.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.90	132	156.80	294				
145.85	304	158.80	210				
147.80	298	160.00	53				
148.00	226	160.70	65				
148.75	185	161.00	145				
149.80	221	172.95	624				
151.80	60	173.90	132253				
154.00	52	174.95	9164				
154.80	386	175.90	129197				
155.00	145	176.90	8818				
156.00	93	177.85	239				



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62040.D  
 Acq On : 3 Sep 2020 9:52 am  
 Operator : shanicao  
 Sample : IC2408-1  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 03 10:46:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3804478	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2917946	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	1189054	4.66	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	93.20%		
19) Toluene-d8	8.958	98	3642217	5.53	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	110.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	60425	0.16	ppb		81
3) Chloromethane	2.730	50	66839	0.17	ppb		98
4) 1,1-Dichloroethene	4.083	96	33018	0.19	ppb		98
5) Methylene Chloride	4.713	84	235103	0.84	ppb	#	89
6) trans-1,2-Dichloroethene	4.883	96	41344	0.16	ppb		98
7) 1,1-Dichloroethane	5.543	63	70207	0.14	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	40436	0.13	ppb		93
9) Chloroform	6.371	83	77366	0.13	ppb		96
10) Carbon Tetrachloride	6.543	117	57498	0.17	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	72306	0.16	ppb		92
12) Benzene	6.987	78	143997	0.15	ppb		96
14) 1,2-Dichloroethane	7.191	62	37491	0.10	ppb		99
15) Trichloroethene	7.564	95	45115	0.16	ppb		97
16) 1,2-Dichloropropane	8.101	63	31354	0.11	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	33085	0.10	ppb		95
20) trans-1,3-Dichloropropene	9.407	75	23314	0.08	ppb		99
21) Tetrachloroethene	9.399	166	50663	0.17	ppb		98

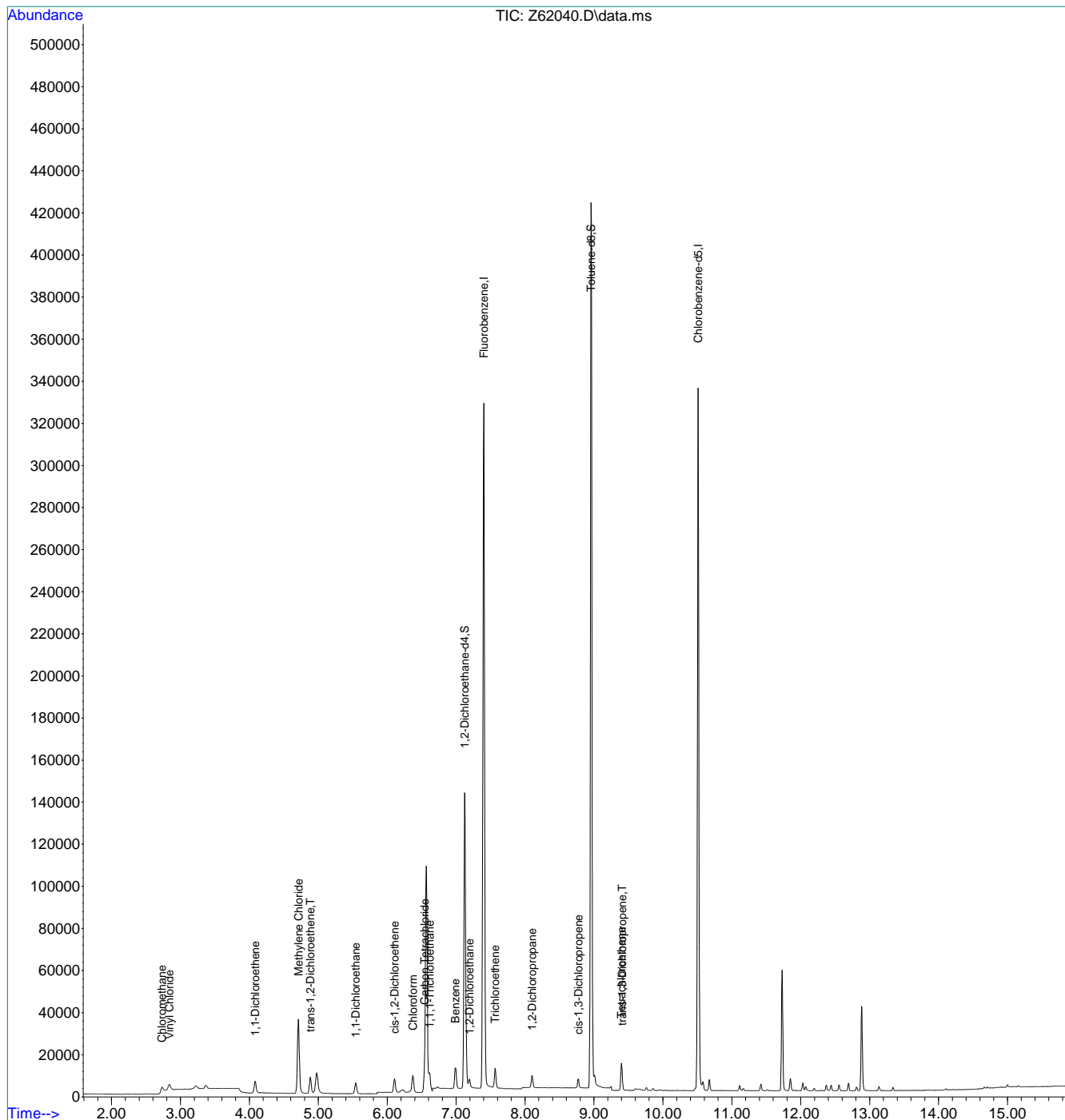
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.5.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62040.D  
 Acq On : 3 Sep 2020 9:52 am  
 Operator : shanicao  
 Sample : IC2408-1  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 03 10:46:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62041.D  
 Acq On : 3 Sep 2020 10:11 am  
 Operator : shanicao  
 Sample : IC2408-2  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 03 10:46:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

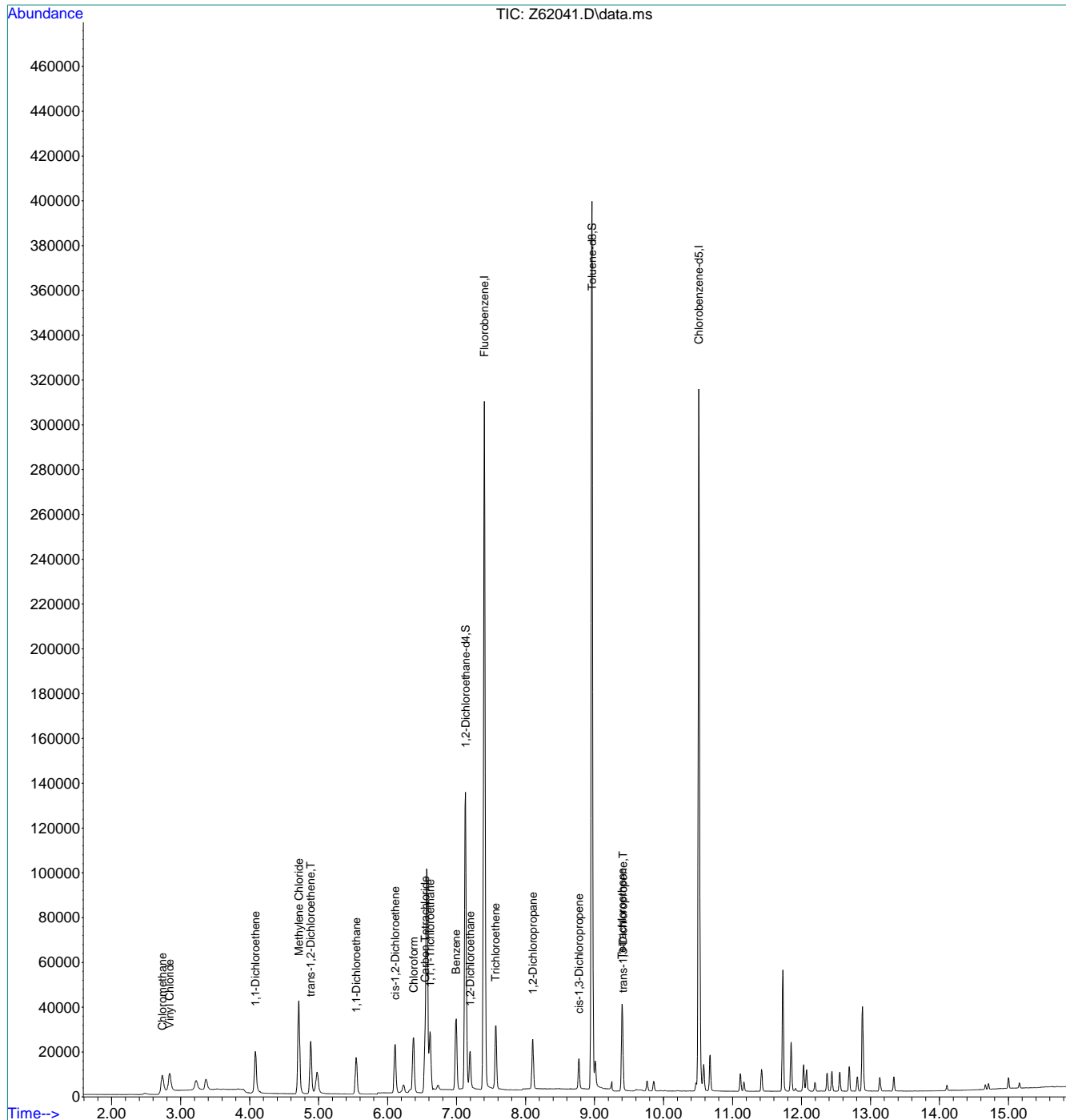
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3529389	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2691939	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1143820	4.83	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.60%	
19) Toluene-d8	8.961	98	3386795	5.57	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	163586	0.47	ppb		96
3) Chloromethane	2.733	50	169046	0.48	ppb		99
4) 1,1-Dichloroethene	4.083	96	107728	0.67	ppb		98
5) Methylene Chloride	4.713	84	277305	1.06	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	126935	0.52	ppb		100
7) 1,1-Dichloroethane	5.546	63	222785	0.48	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	136596	0.48	ppb		94
9) Chloroform	6.377	83	246283	0.45	ppb		97
10) Carbon Tetrachloride	6.543	117	169258	0.54	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	222786	0.52	ppb		98
12) Benzene	6.994	78	462224	0.50	ppb		99
14) 1,2-Dichloroethane	7.198	62	166346	0.47	ppb		98
15) Trichloroethene	7.564	95	140144	0.52	ppb		97
16) 1,2-Dichloropropane	8.105	63	118533	0.45	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	103090	0.32	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	77291	0.30	ppb		99
21) Tetrachloroethene	9.399	166	151253	0.56	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62041.D  
 Acq On : 3 Sep 2020 10:11 am  
 Operator : shanicao  
 Sample : IC2408-2  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 03 10:46:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.2  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62042.D  
 Acq On : 3 Sep 2020 10:59 am  
 Operator : shanicao  
 Sample : IC2408-3  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:30:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

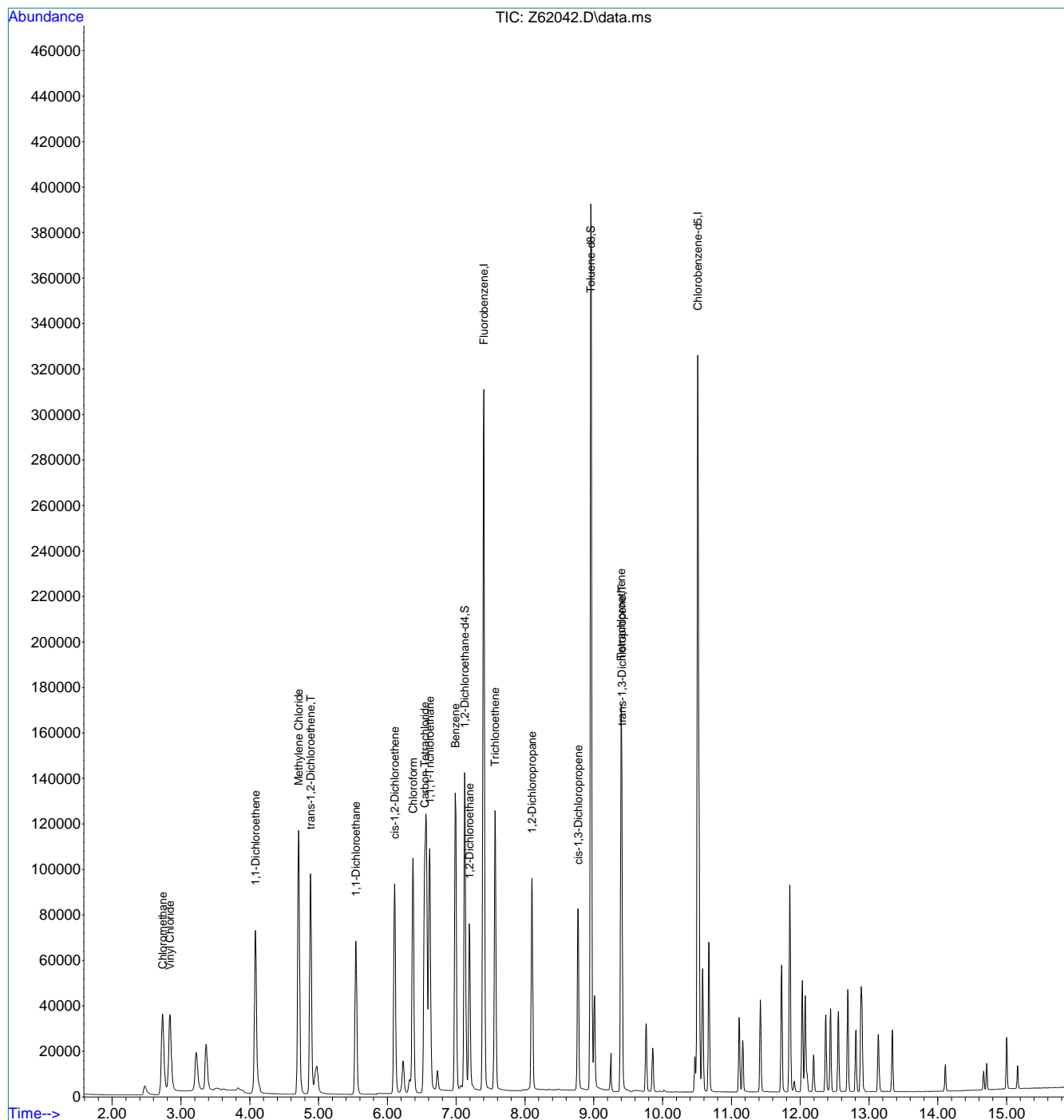
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3565081	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2721469	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	1150679	4.81	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	96.20%		
19) Toluene-d8	8.957	98	3395429	5.52	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	110.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	653900	1.88	ppb		96
3) Chloromethane	2.733	50	710717	1.99	ppb		99
4) 1,1-Dichloroethene	4.083	96	412798	2.56	ppb		98
5) Methylene Chloride	4.709	84	763200	2.89	ppb		94
6) trans-1,2-Dichloroethene	4.882	96	513878	2.07	ppb		98
7) 1,1-Dichloroethane	5.542	63	909896	1.95	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	548481	1.92	ppb		96
9) Chloroform	6.371	83	1017447	1.86	ppb		98
10) Carbon Tetrachloride	6.543	117	726775	2.29	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	903445	2.10	ppb		99
12) Benzene	6.987	78	1873808	2.01	ppb		97
14) 1,2-Dichloroethane	7.191	62	719288	2.00	ppb		100
15) Trichloroethene	7.564	95	585391	2.15	ppb		99
16) 1,2-Dichloropropane	8.101	63	482887	1.80	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	629327	1.93	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	501903	1.92	ppb		99
21) Tetrachloroethene	9.399	166	594039	2.16	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62042.D  
 Acq On : 3 Sep 2020 10:59 am  
 Operator : shanicao  
 Sample : IC2408-3  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:30:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62043.D  
 Acq On : 3 Sep 2020 11:18 am  
 Operator : shanicao  
 Sample : IC2408-4  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 03 11:36:06 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

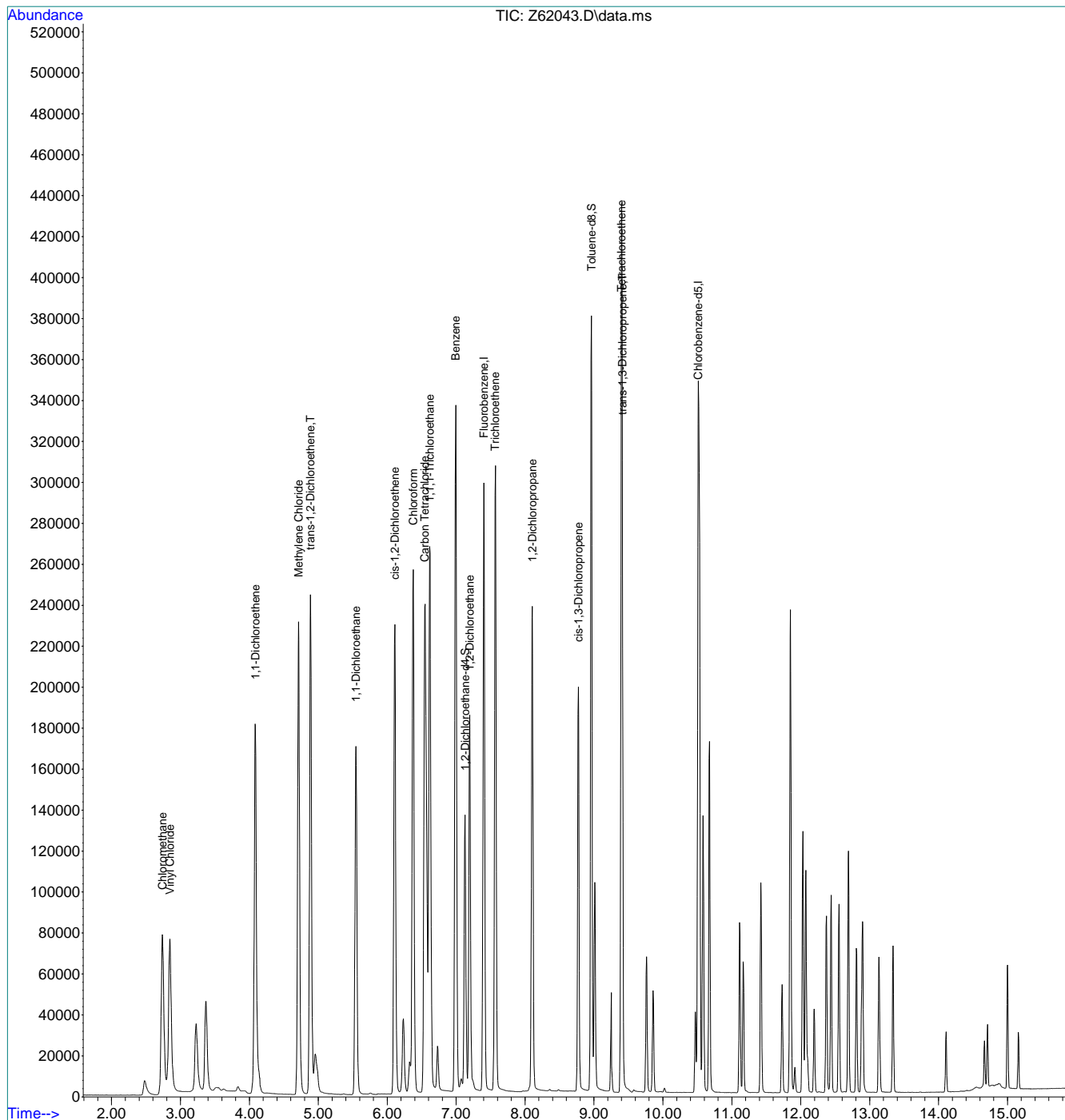
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3393850	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2594246	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1113929	4.89	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	97.80%	
19) Toluene-d8	8.961	98	3233788	5.52	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	1454957	4.39	ppb		97
3) Chloromethane	2.737	50	1592779	4.73	ppb		100
4) 1,1-Dichloroethene	4.087	96	1060060	6.90	ppb		98
5) Methylene Chloride	4.713	84	1526559	6.05	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	1301321	5.50	ppb		99
7) 1,1-Dichloroethane	5.546	63	2300012	5.12	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	1384187	5.08	ppb		94
9) Chloroform	6.377	83	2556080	4.90	ppb		99
10) Carbon Tetrachloride	6.543	117	1811545	6.00	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	2322600	5.66	ppb		100
12) Benzene	6.994	78	4756353	5.28	ppb		100
14) 1,2-Dichloroethane	7.198	62	1836620	5.31	ppb		100
15) Trichloroethene	7.564	95	1488604	5.75	ppb		97
16) 1,2-Dichloropropane	8.105	63	1251224	4.90	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	1512864	4.87	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	1229739	4.93	ppb		100
21) Tetrachloroethene	9.399	166	1518603	5.80	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62043.D  
 Acq On : 3 Sep 2020 11:18 am  
 Operator : shanicao  
 Sample : IC2408-4  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 03 11:36:06 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.4  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62044.D  
 Acq On : 3 Sep 2020 11:40 am  
 Operator : shanicao  
 Sample : ICC2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 12:07:56 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

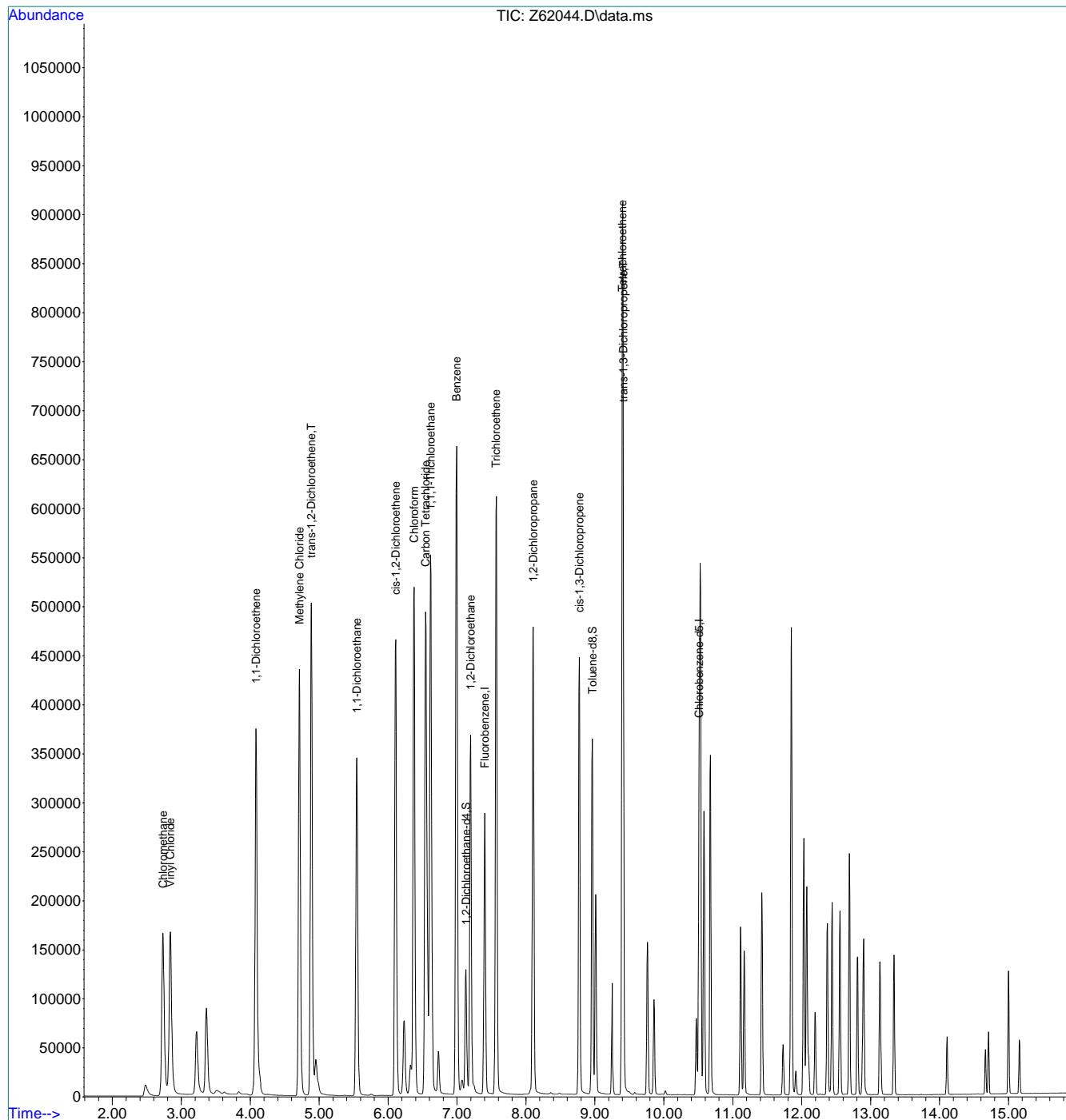
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3260477	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2497954	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1053734	4.82	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.40%	
19) Toluene-d8	8.961	98	3086779	5.47	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	3003337	9.44	ppb		98
3) Chloromethane	2.733	50	3004853	9.45	ppb		99
4) 1,1-Dichloroethene	4.083	96	2110416	14.31	ppb		97
5) Methylene Chloride	4.713	84	2800264	11.44	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	2623746	11.55	ppb		100
7) 1,1-Dichloroethane	5.546	63	4627710	10.55	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	2786347	10.65	ppb		94
9) Chloroform	6.377	83	5159486	10.30	ppb		99
10) Carbon Tetrachloride	6.543	117	3767946	12.99	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	4718727	11.98	ppb		100
12) Benzene	6.994	78	9454398	10.65	ppb		100
14) 1,2-Dichloroethane	7.198	62	3615367	10.71	ppb		99
15) Trichloroethene	7.564	95	2955722	11.89	ppb		98
16) 1,2-Dichloropropane	8.105	63	2485857	10.14	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	3347102	11.22	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	2827150	11.76	ppb		100
21) Tetrachloroethene	9.399	166	3036745	12.05	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62044.D  
 Acq On : 3 Sep 2020 11:40 am  
 Operator : shanicao  
 Sample : ICC2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 12:07:56 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.5  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62045.D  
 Acq On : 3 Sep 2020 11:59 am  
 Operator : shanicao  
 Sample : IC2408-6  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 03 12:16:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

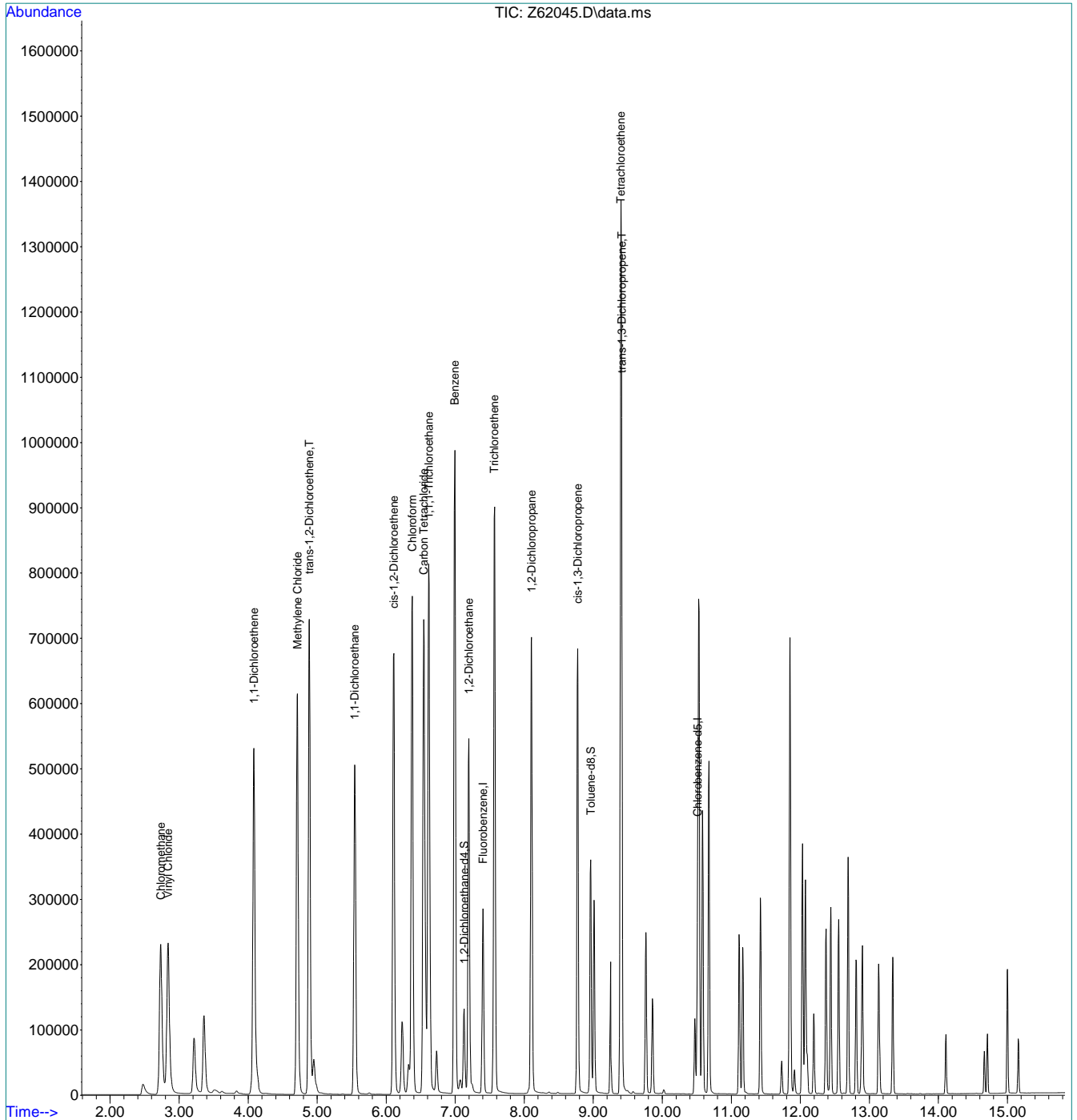
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3196001	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2443895	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1051841	4.90	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	98.00%	
19) Toluene-d8	8.961	98	3027479	5.48	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	4378556	14.04	ppb		98
3) Chloromethane	2.733	50	4551242	14.89	ppb		99
4) 1,1-Dichloroethene	4.083	96	3066264	21.21	ppb		99
5) Methylene Chloride	4.713	84	4012715	16.58	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	3838318	17.24	ppb		99
7) 1,1-Dichloroethane	5.543	63	6756600	15.47	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	4062378	15.85	ppb		94
9) Chloroform	6.377	83	7531102	15.34	ppb		98
10) Carbon Tetrachloride	6.543	117	5562204	19.57	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	6908579	17.89	ppb		100
12) Benzene	6.994	78	13884250	15.61	ppb		100
14) 1,2-Dichloroethane	7.198	62	5390318	16.04	ppb		99
15) Trichloroethene	7.564	95	4368807	17.93	ppb		98
16) 1,2-Dichloropropane	8.105	63	3668654	15.27	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	5087870	17.40	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	4379634	18.63	ppb		100
21) Tetrachloroethene	9.399	166	4500176	18.25	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62045.D  
 Acq On : 3 Sep 2020 11:59 am  
 Operator : shanicao  
 Sample : IC2408-6  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 03 12:16:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:35:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2938110	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2256895m	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	963232	4.88	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	97.60%		
19) Toluene-d8	8.961	98	2784483	5.46	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	109.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	5627397	19.63	ppb		98
3) Chloromethane	2.737	50	5928894	21.65	ppb		100
4) 1,1-Dichloroethene	4.083	96	4008221	30.16	ppb		97
5) Methylene Chloride	4.713	84	5136689	22.86	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	5027216	24.57	ppb		100
7) 1,1-Dichloroethane	5.546	63	8782985	21.49	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	5293616	22.46	ppb		94
9) Chloroform	6.377	83	9822563	21.76	ppb		98
10) Carbon Tetrachloride	6.543	117	7287855	27.89	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	8989931	25.32	ppb		99
12) Benzene	6.994	78	17863042	21.32	ppb		99
14) 1,2-Dichloroethane	7.198	62	6887900	21.91	ppb		99
15) Trichloroethene	7.571	95	5698644	25.45	ppb		91
16) 1,2-Dichloropropane	8.105	63	4715015	21.35	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	6610083	24.59	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	5737207m	26.42	ppb		
21) Tetrachloroethene	9.399	166	5790603	25.42	ppb		99

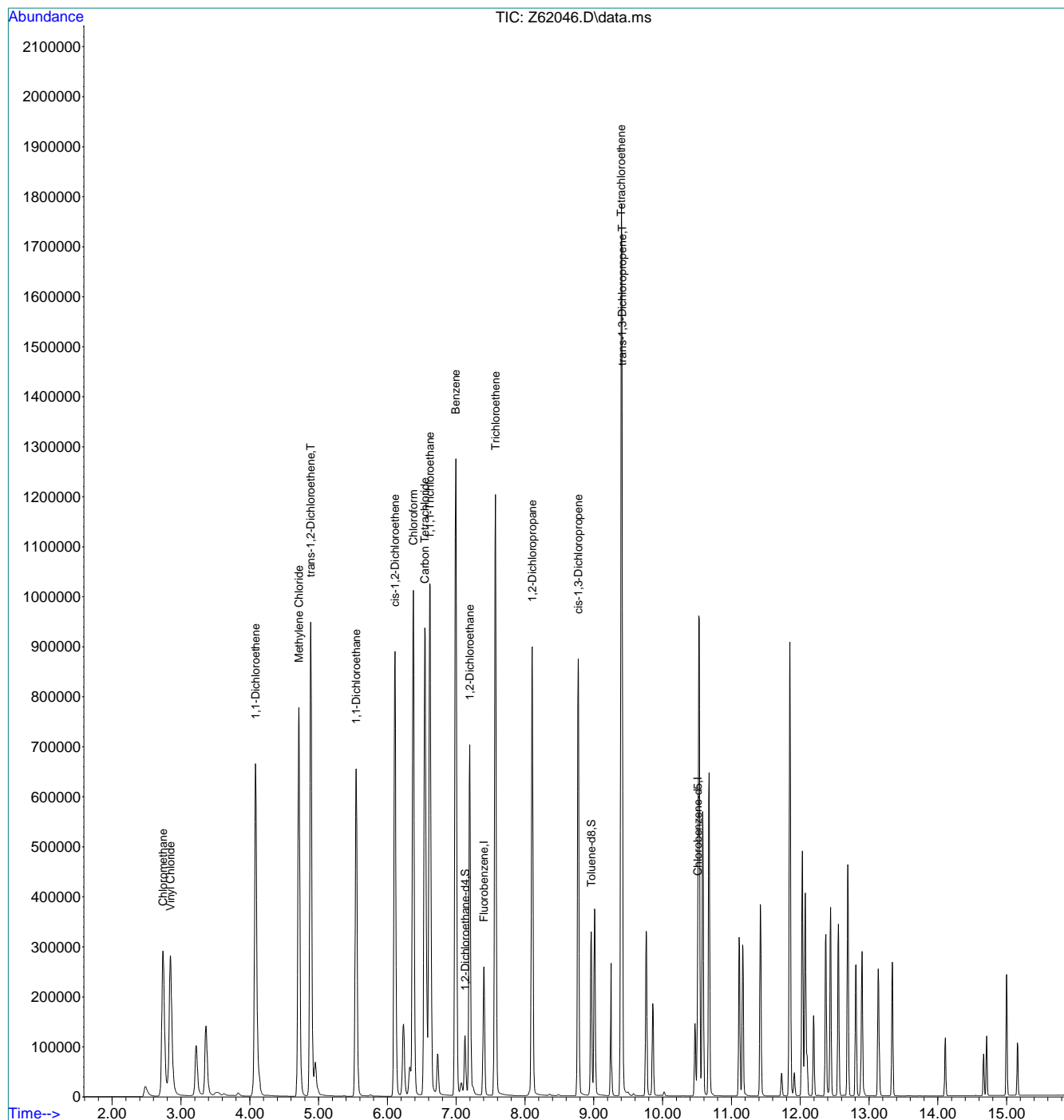
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.57  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:35:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.7  
7

# Manual Integration Approval Summary

**Sample Number:** VZ2408-IC2408      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62046.D      **Analyst approved:** 09/03/20 13:54 Shanica O'Connor  
**Injection Time:** 09/03/20 12:18      **Supervisor approved:** 09/03/20 15:13 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
trans-1,3-Dichloropropene	10061-02-6		9.41	Missed peak
Chlorobenzene-D5	3114-55-4		10.51	Missed peak

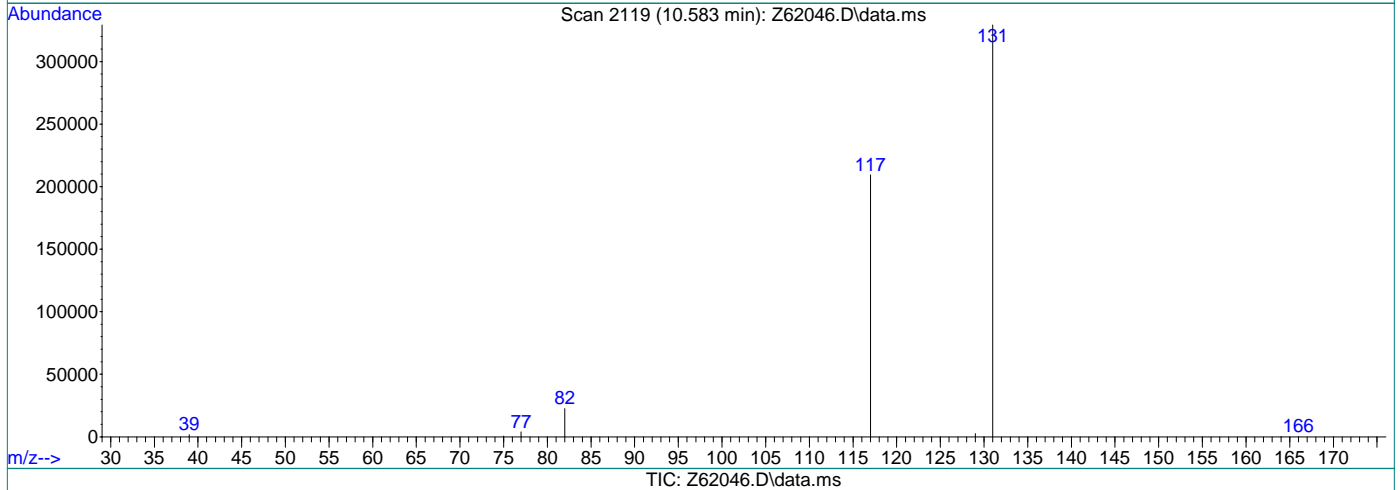
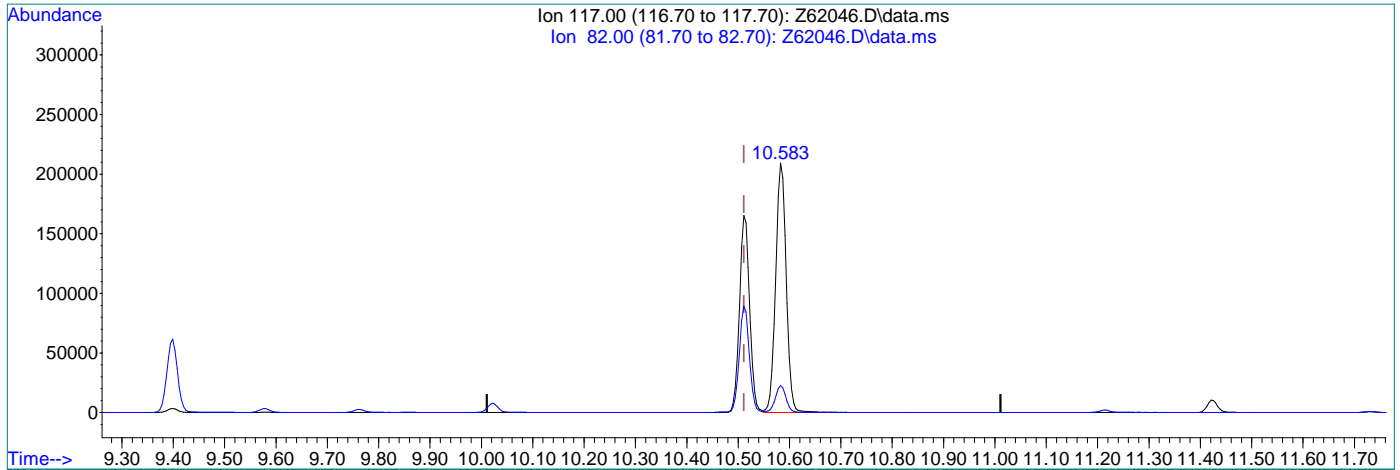
7.5.7.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.583min (+0.072) 5.00ppb  
 response 2971404

Ion	Exp%	Act%
117.00	100	100
82.00	52.30	10.84#
0.00	0.00	0.00
0.00	0.00	0.00

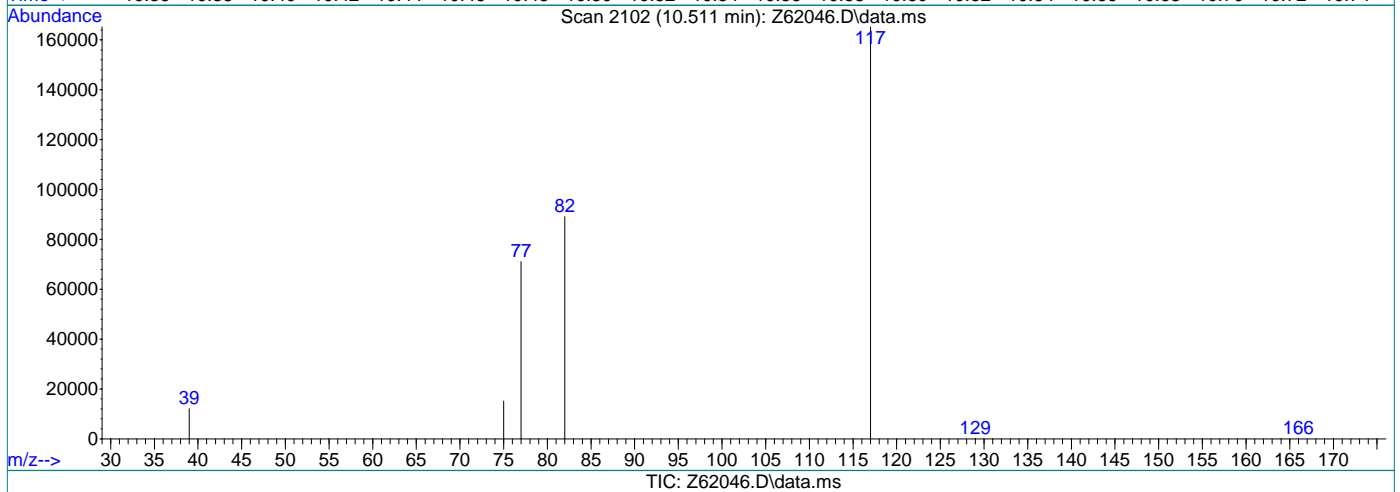
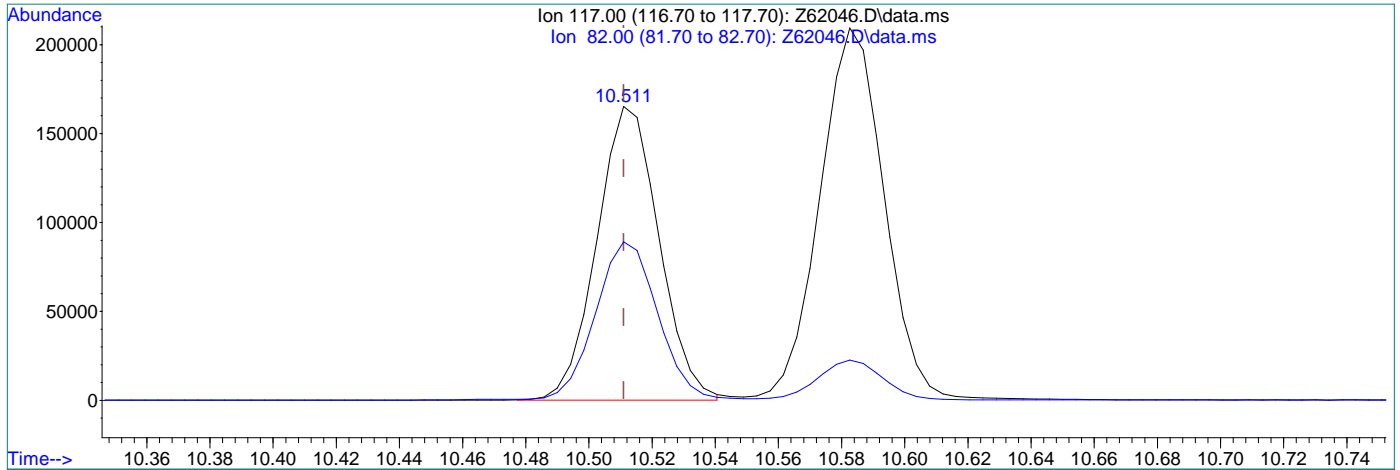
7.5.7.2  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.511min (+0.000) 5.00ppb m  
 response 2256895

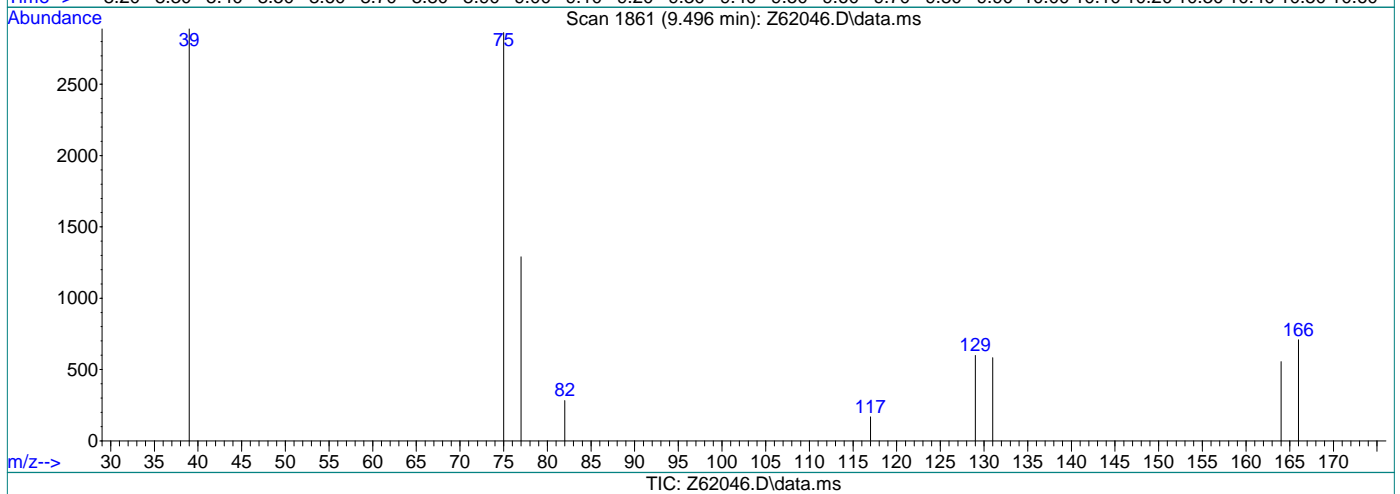
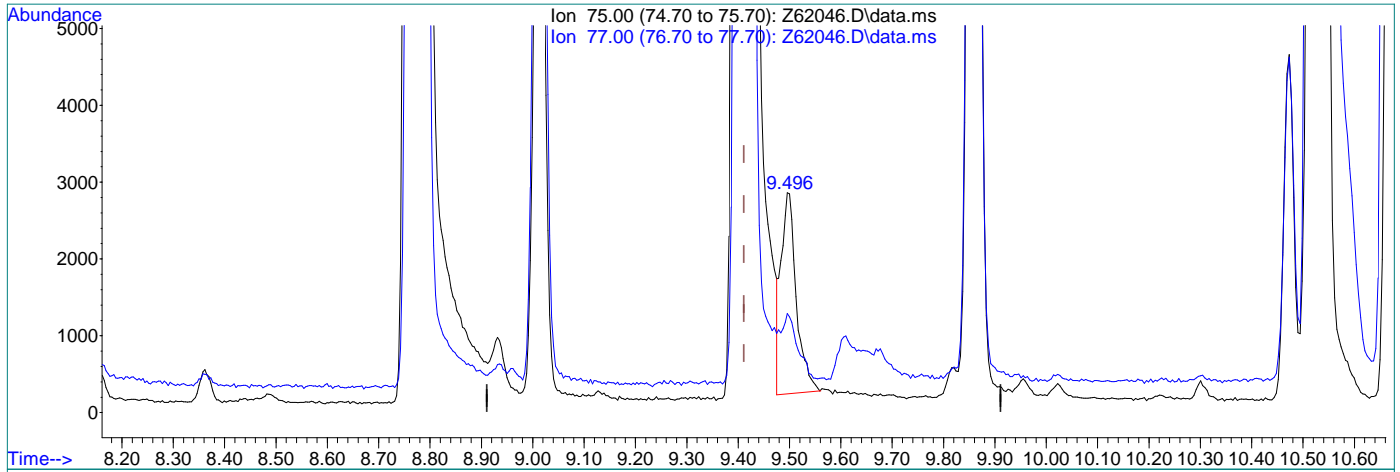
Ion	Exp%	Act%
117.00	100	100
82.00	52.30	14.27#
0.00	0.00	0.00
0.00	0.00	0.00

7.5.7.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.496min (+0.085) 0.25ppb

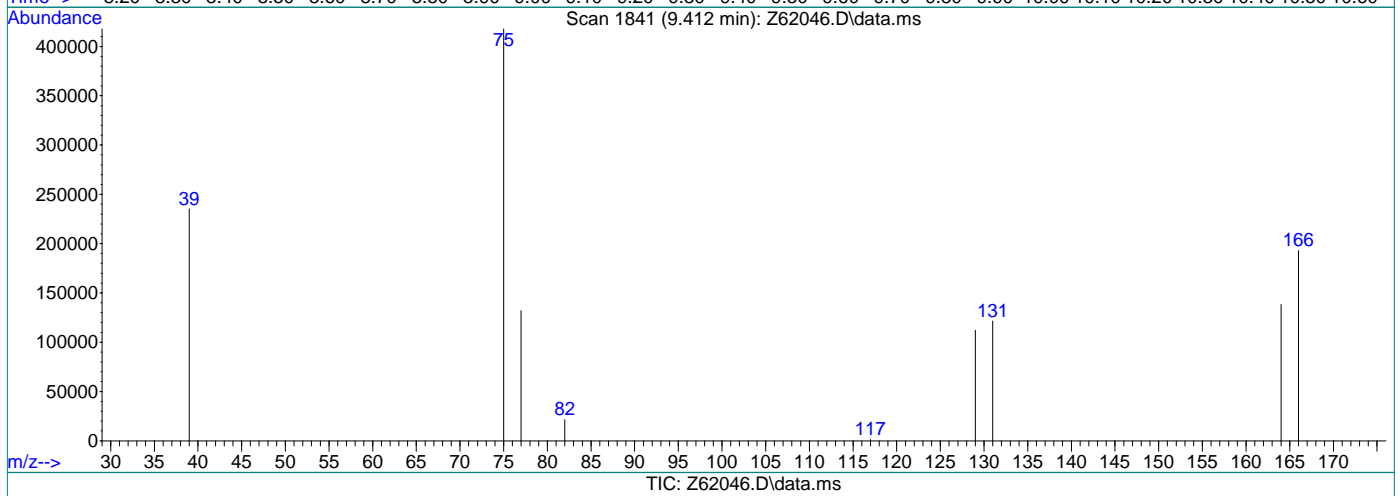
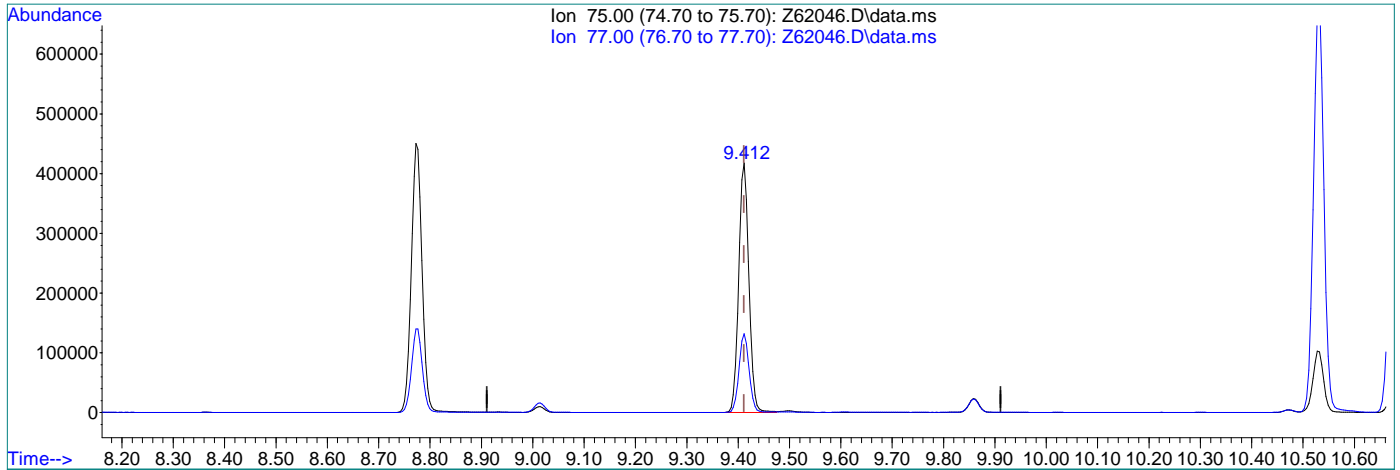
response 54281

Ion	Exp%	Act%
75.00	100	100
77.00	31.30	32.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.412min (+0.001) 26.42ppb m

response 5737207

Ion	Exp%	Act%
75.00	100	100
77.00	31.30	31.59
0.00	0.00	0.00
0.00	0.00	0.00

7.5.7.5  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2408\  
 Data File : Z62048.d  
 Acq On : 3 Sep 2020 12:57 pm  
 Operator : shanicao  
 Sample : cc2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 01:01:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2703421	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2067570	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	904830	5.17	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	103.40%		
19) Toluene-d8	8.961	98	2565152	4.99	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	2360196	9.69	ppb		100
3) Chloromethane	2.737	50	2554199	10.15	ppb		99
4) 1,1-Dichloroethene	4.083	96	1601477	9.39	ppb		99
5) Methylene Chloride	4.713	84	2264575	9.71	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	2053096	9.67	ppb		100
7) 1,1-Dichloroethane	5.546	63	3757114	9.67	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	2254117	9.69	ppb		99
9) Chloroform	6.377	83	4170126	9.65	ppb		99
10) Carbon Tetrachloride	6.543	117	2909066	9.58	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	3691887	9.68	ppb		100
12) Benzene	6.994	78	7934663	9.94	ppb		99
14) 1,2-Dichloroethane	7.198	62	3100443	10.81	ppb		100
15) Trichloroethene	7.564	95	2526004	10.12	ppb		99
16) 1,2-Dichloropropane	8.105	63	2106428	10.41	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	2664551	9.85	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	2239218	8.90	ppb		100
21) Tetrachloroethene	9.399	166	2435376	9.82	ppb		100
-----							

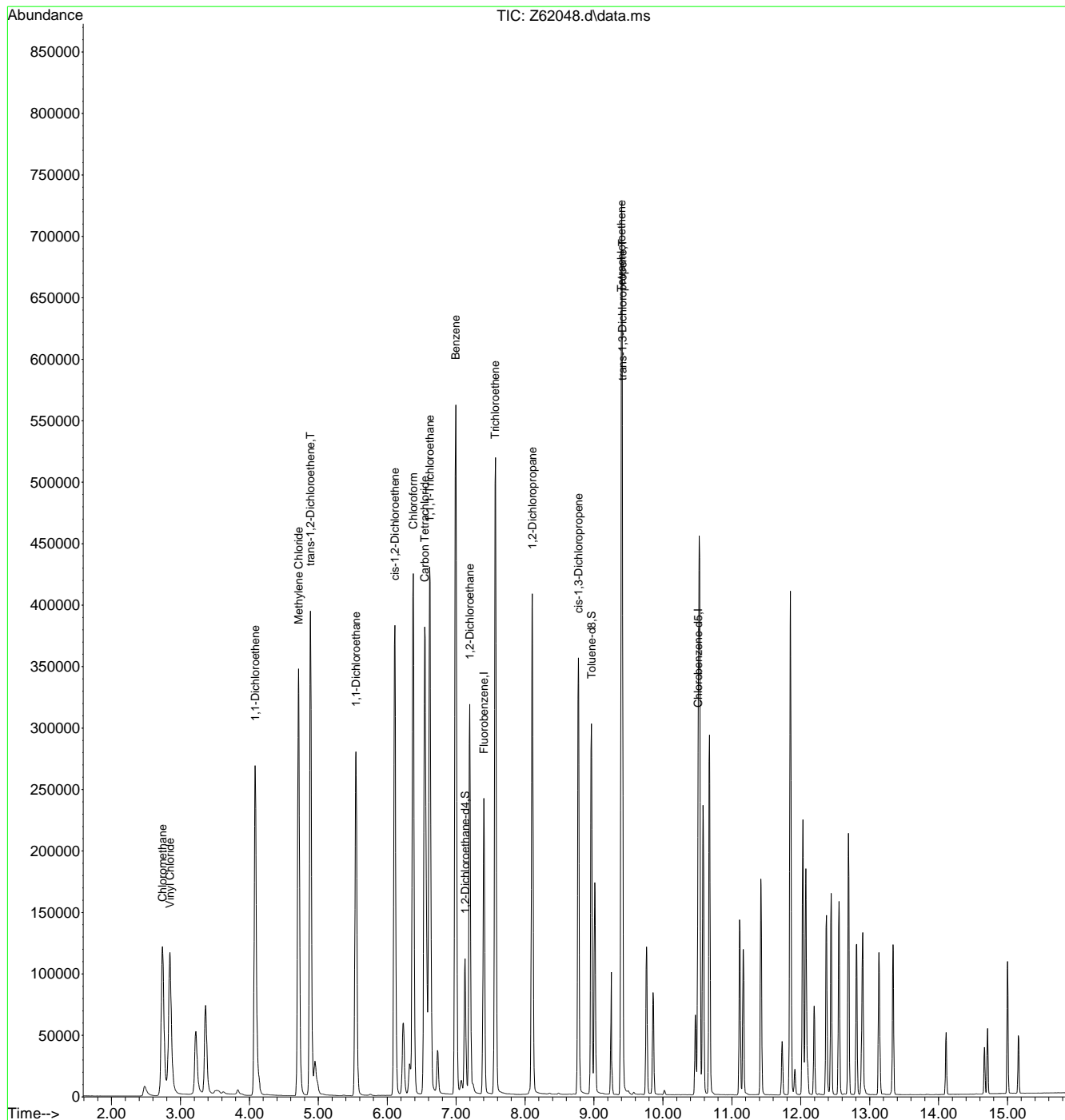
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.58  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2408\  
 Data File : Z62048.d  
 Acq On : 3 Sep 2020 12:57 pm  
 Operator : shanicao  
 Sample : cc2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 01:01:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.5.8  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62074.d  
 Acq On : 4 Sep 2020 8:57 am  
 Operator : shanicao  
 Sample : CC2408-5  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 01:08:15 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.394	96	2815075	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2127080	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	956752	5.25	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	105.00%		
19) Toluene-d8	8.957	98	2636308	4.98	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.60%		
Target Compounds							Qvalue
2) Vinyl Chloride	2.835	62	2609737	10.26	ppb	100	
3) Chloromethane	2.729	50	2790837	10.61	ppb	100	
4) 1,1-Dichloroethene	4.079	96	1725523	9.70	ppb	99	
5) Methylene Chloride	4.705	84	2424022	9.99	ppb	96	
6) trans-1,2-Dichloroethene	4.879	96	2192175	9.90	ppb	96	
7) 1,1-Dichloroethane	5.539	63	3974168	9.82	ppb	# 100	
8) cis-1,2-Dichloroethene	6.104	96	2352379	9.71	ppb	98	
9) Chloroform	6.371	83	4390850	9.76	ppb	100	
10) Carbon Tetrachloride	6.537	117	2973735	9.42	ppb	100	
11) 1,1,1-Trichloroethane	6.608	97	3828124	9.64	ppb	99	
12) Benzene	6.987	78	8089584	9.73	ppb	98	
14) 1,2-Dichloroethane	7.191	62	3319599	11.12	ppb	99	
15) Trichloroethene	7.564	95	2488599	9.57	ppb	93	
16) 1,2-Dichloropropane	8.101	63	2151044	10.21	ppb	98	
17) cis-1,3-Dichloropropene	8.769	75	2862257	10.13	ppb	100	
20) trans-1,3-Dichloropropene	9.407	75	2478162	9.57	ppb	100	
21) Tetrachloroethene	9.394	166	2483509	9.74	ppb	98	
-----							

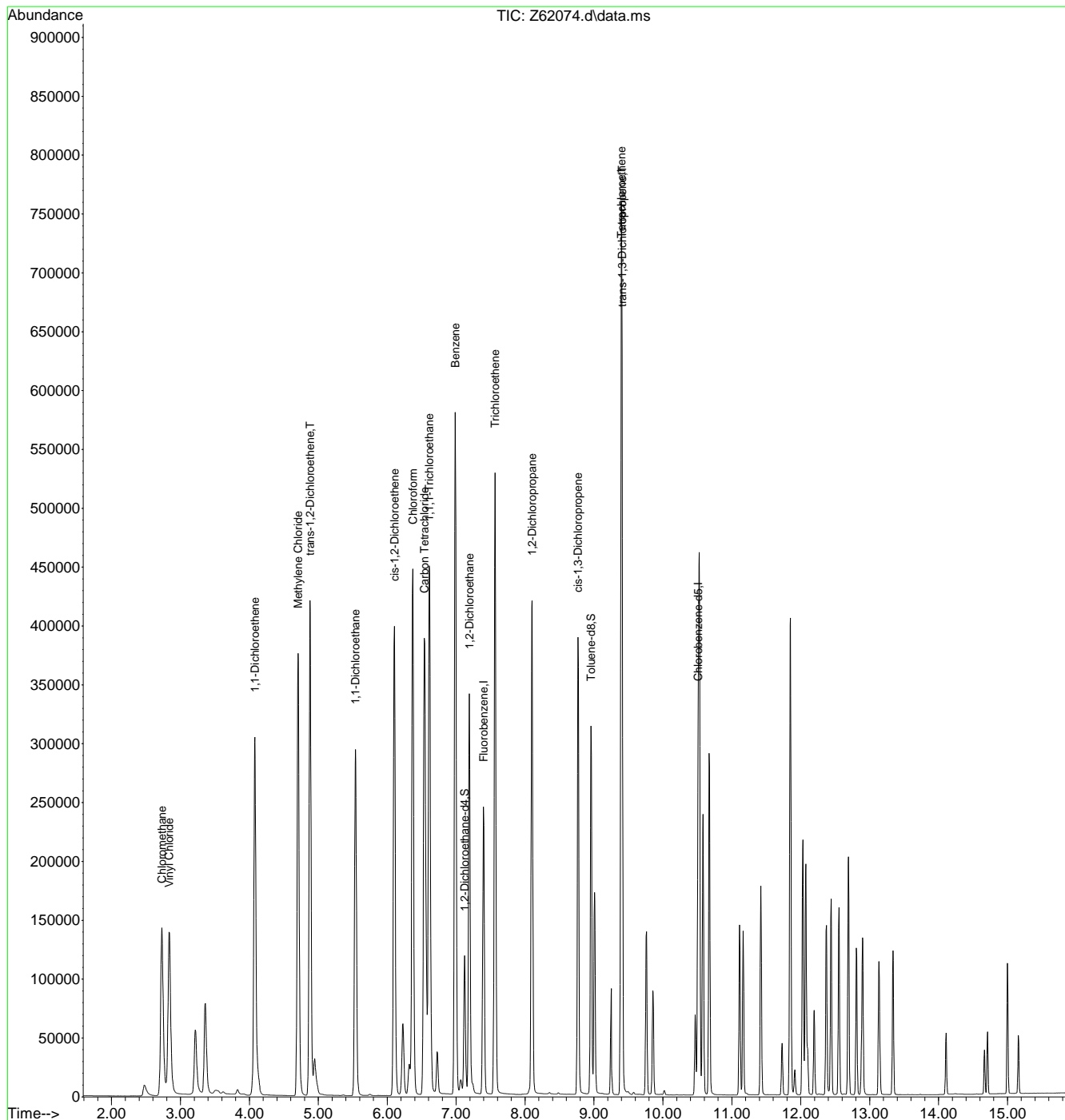
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.59  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62074.d  
 Acq On : 4 Sep 2020 8:57 am  
 Operator : shanicao  
 Sample : CC2408-5  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 01:08:15 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.5.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090420\  
 Data File : Z62100.D  
 Acq On : 4 Sep 2020 7:51 pm  
 Operator : shanicao  
 Sample : ECC2408-5  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 08 12:33:43 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2077882	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1582551	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	797692	5.92	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	118.40%		
19) Toluene-d8	8.961	98	1903866	4.83	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	96.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	2247681	11.86	ppb		100
3) Chloromethane	2.737	50	2251165	11.52	ppb		99
4) 1,1-Dichloroethene	4.083	96	1327110	10.08	ppb		94
5) Methylene Chloride	4.713	84	1806224	10.08	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	1646147	10.06	ppb		96
7) 1,1-Dichloroethane	5.542	63	3119022	10.44	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	1713387	9.58	ppb		90
9) Chloroform	6.371	83	3400356	10.24	ppb		100
10) Carbon Tetrachloride	6.543	117	2290003	9.79	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	2972349	10.10	ppb		100
12) Benzene	6.994	78	6122154	9.98	ppb		99
14) 1,2-Dichloroethane	7.191	62	2629082	11.93	ppb		100
15) Trichloroethene	7.564	95	1891838	9.86	ppb		99
16) 1,2-Dichloropropane	8.101	63	1633582	10.50	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	1931558	9.35	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	1717548	8.92	ppb		100
21) Tetrachloroethene	9.399	166	1798016	9.49	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

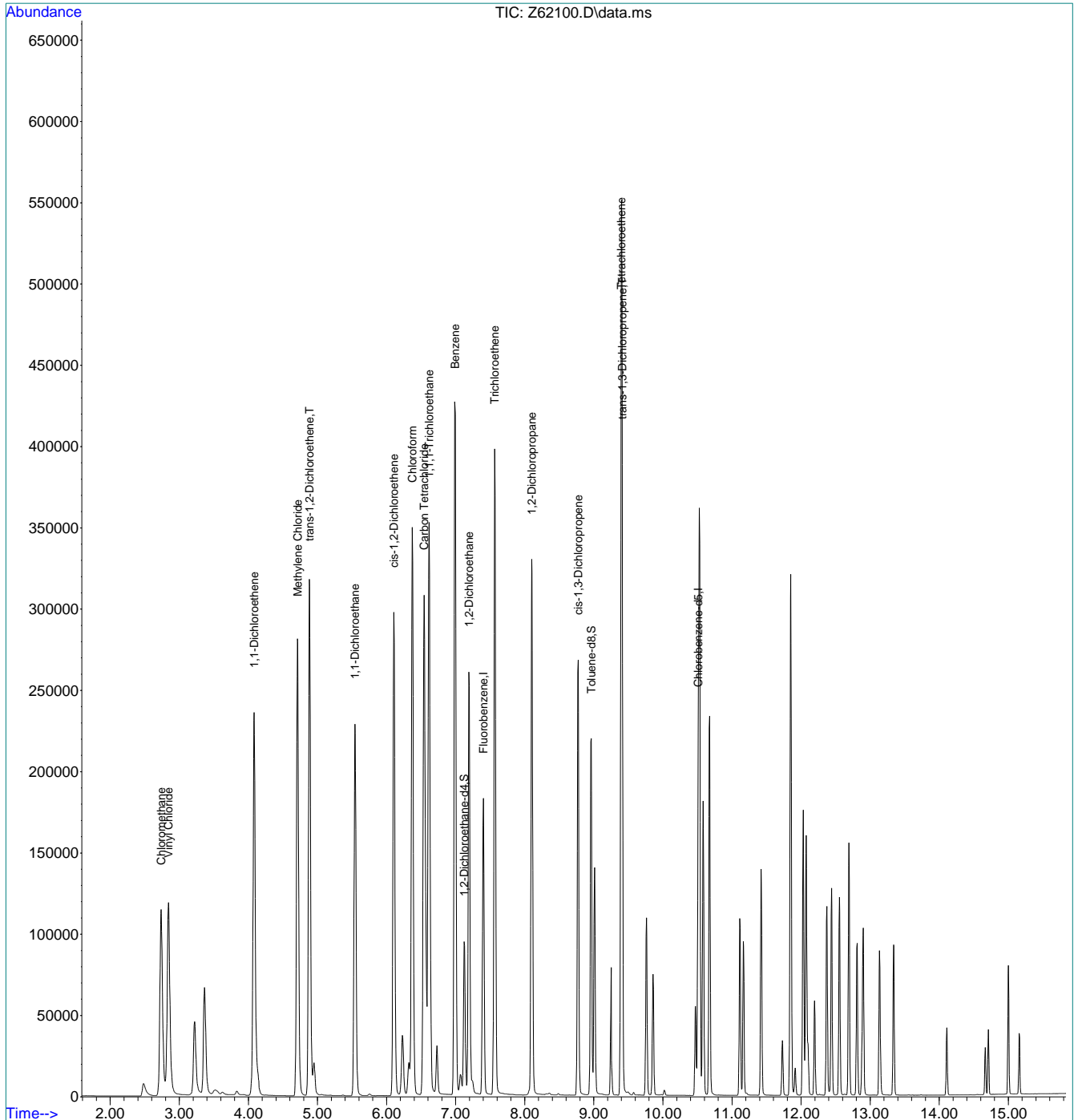
7.5.10  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090420\  
 Data File : Z62100.D  
 Acq On : 4 Sep 2020 7:51 pm  
 Operator : shanicao  
 Sample : ECC2408-5  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 08 12:33:43 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/03/20		METHOD FILE(s): SimCl		BFB: V25942A		PH LOT: 1 to 12 pH lot #. 200814				
COLUMN TYPE: RTX-VMS		METHOD FILE(s): simcl090320.m		ICAL/CC: VS0934, VS0792		0 to 3 pH lot#: 220416				
DETECTOR: 5975C MSD		CALIB. DATE: 09/03/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117				
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0907, VS0793		Processed BY: SO/JF				
PURGE PRESSURE: 9.7psi		BFB Response: 38738678		AFA: VS0418A		SAMPLE ID VERIFIED BY:				
PURGE VOLUME: 5 mL		RUN ID: VZ2408		DATE VERIFIED: 09/03/20		SO				
ANALYST: Shanika O.						COMMENTS				
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR
Z62037	BLK	-	-	w	1	acq_simcl0214		-	-	✓
Z62038	BLK	-	-	w	2	acq_simcl0214		-	-	✓
Z62039	BFB	-	-	w	100	bfb		-	-	✓ Passed Autofind
Z62040	IC2408-1	-	-	w	1	acq_simcl0214		-	-	1µL→100mL ✓
Z62041	IC2408-2	-	-	w	2	acq_simcl0214		-	-	5µL→100mL ✓
Z62042	IC2408-3	-	-	w	3	acq_simcl0214		-	-	10µL→50mL ✓
Z62043	IC2408-4	-	-	w	4	acq_simcl0214		-	-	25µL→50mL ✓
Z62044	IC2408-5	-	-	w	5	acq_simcl0214		-	-	50µL→50mL ✓
Z62045	IC2408-6	-	-	w	6	acq_simcl0214		-	-	75µL→50mL ✓
Z62046	IC2408-7	-	-	w	7	acq_simcl0214	#18,20(MP)	-	-	100µL→50mL ✓
Z62047	BLK	-	-	w	8	acq_simcl0214		-	-	✓
Z62048	ICV2408-5	-	-	w	9	acq_simcl0214		-	-	50µL→50mL ✓
Z62049	BS	-	-	w	10	acq_simcl0214		-	-	✓
Z62050	MB	-	-	w	11	acq_simcl0214		-	-	ND✓
Z62051	FA78405-2MS	1X	2	w	12	acq_simcl0214		1	NO	20µL→40mL ✓
Z62052	FA78405-2MSD	1X	2	w	13	acq_simcl0214		1	NO	20µL→40mL ✓
Z62053	FA78153-5	1X	3	w	14	acq_simcl0214		1	NO	✓
Z62054	FA78405-1	1X	1	w	15	acq_simcl0214		1	NO	ND✓
Z62055	FA78405-2	1X	1	w	16	acq_simcl0214		1	NO	✓
Z62056	FA78405-3	1X	1	w	17	acq_simcl0214		1	NO	ND✓
Z62057	FA78406-1	1X	1	w	18	acq_simcl0214		1	NO	✓
Z62058	FA78398-1	1X	2	w	19	acq_simcl0214		1	NO	ND✓
Z62059	FA78398-2	1X	1	w	20	acq_simcl0214		1	NO	✓
Z62060	FA78398-3	1X	1	w	21	acq_simcl0214		1	NO	✓
Z62061	FA78398-4	1X	1	w	22	acq_simcl0214		1	NO	ND✓
Z62062	FA78398-5	1X	1	w	23	acq_simcl0214		1	NO	✓
Z62063	FA78398-6	1X	1	w	24	acq_simcl0214		1	NO	✓
Z62064	FA78398-7	1X	1	w	25	acq_simcl0214		1	NO	✓
Z62065	FA78398-8	1X	1	w	26	acq_simcl0214		1	NO	✓
Z62066	FA78398-9	1X	1	w	27	acq_simcl0214		1	NO	✓
Z62067	FA78398-10	1X	1	w	28	acq_simcl0214		1	NO	✓
Z62068	ECC2408-5	-	-	w	29	acq_simcl0214		-	-	50µL→50mL ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005. Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rationale SOP\_QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration.

Analyst's Signature: *Shanika O.*

DATE: 09/04/20		METHOD(S):* SimCl		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814					
COLUMN TYPE: RTX-VMS		METHOD FILE(S): simcl090320.m		ICAL/CC: VS0934, VS0792		0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD		CALIB. DATE: 09/03/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0907, VS0793		Processed BY: SO/JF					
PURGE PRESSURE: 9.7psi		BFB Response: 21392364		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL		RUN ID: VZ2409				SO					
ANALYST: Shanika O.						DATE VERIFIED: 09/08/20					
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62069	BLK	-	-	W	1	acq_simcl0214		-	-	-	✓
Z62070	BLK	-	-	W	2	acq_simcl0214		-	-	-	✓
Z62071	BFB	-	-	W	100	bfb		-	-	-	☒ Passed Autofind
Z62072	BFB	-	-	W	100	bfb		-	-	-	☒ Passed Autofind
Z62073	BFB	-	-	W	100	bfb		-	-	-	✓ Passed Autofind
Z62074	CC2408-5	-	-	W	1	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62075	BS	-	-	W	2	acq_simcl0214		-	-	-	20µL→40mL ✓
Z62076	MB	-	-	W	3	acq_simcl0214		-	-	-	ND ✓
Z62077	FA78398-2	1X	3	W	4	acq_simcl0214		-	-	1X	BS low for 1,3-DCPT
Z62078	FA78398-1	1X	1	W	5	acq_simcl0214		-	-	1X	BS low for 1,3-DCPT
Z62079	FA78398-3	1X	2	W	6	acq_simcl0214		-	-	1X	BS low for 1,3-DCPT
Z62080	FA78398-2MS	10X	3	W	7	acq_simcl0214		-	-		20µL→40mL ✓
Z62081	FA78398-2MSD	10X	3	W	8	acq_simcl0214		-	-		20µL→40mL ✓
Z62082	BS	-	-	W	9	acq_simcl0214		-	-	-	20µL→40mL ☒
Z62083	FA78405-1	1X	2	W	10	acq_simcl0214		-	-	-	ND ✓
Z62084	FA78405-2	1X	3	W	11	acq_simcl0214		-	-	-	✓
Z62085	FA78405-3	1X	2	W	12	acq_simcl0214		-	-	-	ND ✓
Z62086	FA78406-1	1X	2	W	13	acq_simcl0214		-	-	-	ND ✓
Z62087	FA78442-1	1X	1	W	14	acq_simcl0214		-	-	-	✓
Z62088	FA78442-2	1X	1	W	15	acq_simcl0214		-	-	-	✓
Z62089	FA78442-3	1X	1	W	16	acq_simcl0214		-	-	-	ND ✓
Z62090	FA78442-3MS	10X	1	W	17	acq_simcl0215		-	-	-	20µL→40mL ✓
Z62091	FA78442-3MSD	10X	1	W	18	acq_simcl0216		-	-	-	20µL→40mL ✓
Z62092	FA78442-4	1X	1	W	19	acq_simcl0215		-	-	-	✓
Z62093	FA78442-5	1X	1	W	20	acq_simcl0216		-	-	-	✓
Z62094	FA78442-6	1X	1	W	21	acq_simcl0217		-	-	-	✓
Z62095	FA78442-7	1X	1	W	22	acq_simcl0218		-	-	-	✓
Z62096	FA78442-8	1X	1	W	23	acq_simcl0219	Power outage; sequence restarted.	-	-	1X	Purged Air
Z62097	FA78442-9	1X	1	W	24	acq_simcl0220		-	-	1X	Purged Air
Z62098	FA78442-10	1X	1	W	25	acq_simcl0221		-	-	1X	Purged Air
Z62099	BLK	-	-	W	26	acq_simcl0222		-	-	-	
Z62100	ECC2408-5	-	-	W	27			-	-	-	50µL→50mL ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration.

VZ2409M 040918

Page 1 of 1

Analyst's Signature: *Shanika O.*

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

SGS Job Number: FA78406

Sampling Date: 08/31/20



Report to:

Ahtna Global, LLC  
9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
dlieberman@ahtna.net; mfisher@ahtna.net;  
hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: **65**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA78406

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

Sample Number	Collected		Matrix		Client Sample ID	
	Date	Time By	Received	Code Type		
FA78406-1	08/31/20	14:40	THLH	09/02/20 AQ	Ground Water	2036W0BW088F

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78406

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/16/2020 8:14:45 PM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 08/31/2020 and were received at SGS North America Inc - Orlando on 09/02/2020 properly preserved, at 1 Deg. C and intact. These Samples received an SGS Orlando job number of FA78406. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ

**Batch ID:** VZ2409

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

---

Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA78406  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 08/31/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

FA78406-1      2036W0BW088F

No hits reported in this sample.



Sample Results

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Report of Analysis

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SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW088F	
<b>Lab Sample ID:</b> FA78406-1	<b>Date Sampled:</b> 08/31/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/02/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62086.D	1	09/04/20 12:53	SO	n/a	n/a	VZ2409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.1  
4

Misc. Forms

Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

CAD52024  
Ahtna

CHAIN OF CUSTODY

WATER / SOIL

FA78406

(0F)

Chain of Custody #: 0108

Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:										Analysis Requested			Lab Sample Receipt					
Project Location: Former Fort Ord, CA			Sampler/s: T. Hoang / L. Henderson							VOCs 8260 - SIM Metals 6010 C Chloride 9056A			Laboratory Sample Delivery					
Project Name: FFO GWMP			Report To: Derek Lieberman										Group #:					
Project Number: 21065.000.01.0000			E-Mail: dlieberman@ahnta.net										Custody Seal:					
Sampling Event/Site: 302020			Laboratory: SGS										Temp (°C): 1.0					
Lab Number	Sample Collection			Matrix			Number of Preserved Bottles										Notes	
	Sample Number/Description	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other			
1	<del>20316WB181008F</del>	<del>8/5/20</del>	1440	X			3	3								X	29	
	20316WB181008F	8/5/20	1440	X			3	3								X		

INITIAL ASSESSMENT: DO  
 LABEL VERIFICATION: DO

Turnaround Time:  Standard  3-5 Day Rush  48 Hour Rush  24 Hour Rush  
 Comments:   
 Shipping Method:   
 Tracking ID:   
 OUCTP-A

Chain of Custody Tracking:			
Relinquished By Sampler:	Date/Time:	Received By:	Date/Time:
<i>[Signature]</i>	8/31/20 1620	<i>[Signature]</i>	8/31/20 1622
Relinquished By:	Date/Time:	Received By:	Date/Time:
<i>[Signature]</i>	9/1/20 1035	<i>[Signature]</i>	9/1/20 1035
Relinquished By:	Date/Time:	Received By Laboratory:	Date/Time:
Lee Bantz	9/1/20 1500	FOOEX	9/1/20 1500

FA78406: Chain of Custody

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## SGS Sample Receipt Summary

Job Number: FA78406

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP A

Date / Time Received: 9/2/2020 9:45:00 AM

Delivery Method: FedEx

Airbill #s: 771419616198

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.2);

Cooler Temps (Corrected) °C: Cooler 1: (1.0);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Sample Information**

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 230315 pH 10-12 219813A Other: (Specify) \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: BRYANG

Date: 9/2/2020 9:45:00 AM

Reviewer: PH

Date: 9/3/2020

**FA78406: Chain of Custody**

**Page 2 of 2**

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78406  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 08/31/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VZ2409	SW846 8260B	BY SIM					
VZ2409-BS	56-23-5	Carbon Tetrachloride	BSP	REC	86	%	72-136
VZ2409-BS	67-66-3	Chloroform	BSP	REC	84	%	79-124
VZ2409-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	88	%	71-131
VZ2409-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	87	%	79-121
VZ2409-BS	75-09-2	Methylene Chloride	BSP	REC	84	%	74-124
VZ2409-BS	127-18-4	Tetrachloroethylene	BSP	REC	88	%	74-129
VZ2409-BS	79-01-6	Trichloroethylene	BSP	REC	84	%	79-123
VZ2409-BS	75-01-4	Vinyl Chloride	BSP	REC	104	%	58-137
VZ2409-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	104	%	81-118
VZ2409-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	89-112
VZ2409-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	108	%	81-118
VZ2409-MB	2037-26-5	Toluene-D8	MB	SURR	101	%	89-112
FA78406-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	116	%	81-118
FA78406-1	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112

\* Sample used for QC is not from job FA78406

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5

## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2409-MB	Z62076.D	1	09/04/20	SO	n/a	n/a	VZ2409

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78406-1

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	108%	74-125%
2037-26-5	Toluene-D8	101%	88-111%



**Blank Spike Summary**

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2409-BS	Z62075.D	1	09/04/20	SO	n/a	n/a	VZ2409

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78406-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	4.3	86	76-136
67-66-3	Chloroform	5	4.2	84	80-124
75-35-4	1,1-Dichloroethylene	5	4.4	88	78-137
540-59-0	1,2-Dichloroethene (total)	10	8.7	87	76-127
75-09-2	Methylene Chloride	5	4.2	84	69-135
127-18-4	Tetrachloroethylene	5	4.4	88	76-135
79-01-6	Trichloroethylene	5	4.2	84	81-126
75-01-4	Vinyl Chloride	5	5.2	104	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	104%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2408-BFB	<b>Injection Date:</b> 09/03/20
<b>Lab File ID:</b> Z62039.D	<b>Injection Time:</b> 09:29
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	66488	21.9	Pass
75	30.0 - 60.0% of mass 95	162304	53.5	Pass
95	Base peak, 100% relative abundance	303153	100.0	Pass
96	5.0 - 9.0% of mass 95	21238	7.01	Pass
173	Less than 2.0% of mass 174	1222	0.40 (0.52) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	235477	77.7	Pass
175	5.0 - 9.0% of mass 174	16056	5.30 (6.82) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	230208	75.9 (97.8) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	15659	5.17 (6.80) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2408-IC2408	Z62040.D	09/03/20	09:52	00:23	Initial cal 1
VZ2408-IC2408	Z62041.D	09/03/20	10:11	00:42	Initial cal 2
VZ2408-IC2408	Z62042.D	09/03/20	10:59	01:30	Initial cal 3
VZ2408-IC2408	Z62043.D	09/03/20	11:18	01:49	Initial cal 4
VZ2408-ICC2408	Z62044.D	09/03/20	11:40	02:11	Initial cal 5
VZ2408-IC2408	Z62045.D	09/03/20	11:59	02:30	Initial cal 6
VZ2408-IC2408	Z62046.D	09/03/20	12:18	02:49	Initial cal 7
VZ2408-ICV2408	Z62048.D	09/03/20	12:57	03:28	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2409-BFB	<b>Injection Date:</b> 09/04/20
<b>Lab File ID:</b> Z62073.D	<b>Injection Time:</b> 08:05
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	39290	23.7	Pass
75	30.0 - 60.0% of mass 95	96384	58.2	Pass
95	Base peak, 100% relative abundance	165525	100.0	Pass
96	5.0 - 9.0% of mass 95	11804	7.13	Pass
173	Less than 2.0% of mass 174	624	0.38 (0.47) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	132253	79.9	Pass
175	5.0 - 9.0% of mass 174	9164	5.54 (6.93) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	129197	78.1 (97.7) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	8818	5.33 (6.83) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2409-CC2408	Z62074.D	09/04/20	08:57	00:52	Continuing cal 5
VZ2409-BS	Z62075.D	09/04/20	09:17	01:12	Blank Spike
VZ2409-MB	Z62076.D	09/04/20	09:37	01:32	Method Blank
FA78398-2	Z62077.D	09/04/20	09:57	01:52	(used for QC only; not part of job FA78406)
ZZZZZZ	Z62078.D	09/04/20	10:17	02:12	(unrelated sample)
ZZZZZZ	Z62079.D	09/04/20	10:36	02:31	(unrelated sample)
ZZZZZZ	Z62083.D	09/04/20	11:55	03:50	(unrelated sample)
ZZZZZZ	Z62084.D	09/04/20	12:14	04:09	(unrelated sample)
ZZZZZZ	Z62085.D	09/04/20	12:34	04:29	(unrelated sample)
FA78406-1	Z62086.D	09/04/20	12:53	04:48	2036W0BW088F
ZZZZZZ	Z62087.D	09/04/20	13:12	05:07	(unrelated sample)
ZZZZZZ	Z62088.D	09/04/20	13:32	05:27	(unrelated sample)
FA78442-3	Z62089.D	09/04/20	13:51	05:46	(used for QC only; not part of job FA78406)
FA78442-3MS	Z62090.D	09/04/20	14:11	06:06	Matrix Spike
FA78442-3MSD	Z62091.D	09/04/20	14:30	06:25	Matrix Spike Duplicate
ZZZZZZ	Z62092.D	09/04/20	14:51	06:46	(unrelated sample)
ZZZZZZ	Z62093.D	09/04/20	15:10	07:05	(unrelated sample)
ZZZZZZ	Z62094.D	09/04/20	15:30	07:25	(unrelated sample)
ZZZZZZ	Z62095.D	09/04/20	15:49	07:44	(unrelated sample)
VZ2409-ECC2408	Z62100.D	09/04/20	19:51	11:46	Ending cal 5

# Internal Standard Area Summary

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2409-CC2408	<b>Injection Date:</b> 09/04/20
<b>Lab File ID:</b> Z62074.D	<b>Injection Time:</b> 08:57
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	3260477	7.40	2497954	10.51
Check Std <sup>b</sup>	2815075	7.39	2127080	10.51
Upper Limit <sup>c</sup>	5630150	7.56	4254160	10.68
Lower Limit <sup>d</sup>	1407538	7.22	1063540	10.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ2409-BS	2672989	7.40	2058240	10.51
VZ2409-MB	2556488	7.40	1926956	10.51
FA78398-2	2370806	7.40	1792632	10.51
ZZZZZZ	2351900	7.40	1763939	10.51
ZZZZZZ	2198438	7.40	1658808	10.51
ZZZZZZ	2038462	7.40	1511976	10.52
ZZZZZZ	1994625	7.40	1489243	10.51
ZZZZZZ	2009231	7.40	1508709	10.51
FA78406-1	2164070	7.40	1612157	10.51
ZZZZZZ	1826748	7.40	1363212	10.51
ZZZZZZ	1838941	7.40	1380575	10.52
FA78442-3	1837994	7.40	1379031	10.51
FA78442-3MS	1927205	7.40	1476074	10.51
FA78442-3MSD	1739870	7.40	1320439	10.51
ZZZZZZ	1825157	7.40	1358812	10.51
ZZZZZZ	1800530	7.40	1346624	10.51
ZZZZZZ	1764784	7.40	1319390	10.51
ZZZZZZ	1724664	7.40	1284998	10.52
VZ2409-ECC24082077882	1724664	7.40	1582551	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2408-ICC2408 Z62044.D 09/03/20 11:40
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Surrogate Recovery Summary

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA78406-1	Z62086.D	116	100
VZ2409-BS	Z62075.D	104	99
VZ2409-MB	Z62076.D	108	101

Surrogate Compounds	Recovery Limits
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S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

# Initial Calibration Summary

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICC2408  
**Lab FileID:** Z62044.D

## Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

### Calibration Files

1 =Z62040.D 2 =Z62041.D 3 =Z62042.D 4 =Z62043.D  
 5 =Z62044.D 6 =Z62045.D 7 =Z62046.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.794	0.463	0.459	0.429	0.461	0.457	0.479	0.506	25.30
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.42534 *A + 0.01287 *A^2								
3) Chloromethane	0.878	0.479	0.498	0.469	0.461	0.475	0.504	0.538	28.07
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.42874 *A + 0.01805 *A^2								
4) 1,1-Dichloroethen	0.434	0.305	0.289	0.312	0.324	0.320	0.341	0.332	14.33
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
	Response Ratio = 0.00000 + 0.29464 *A + 0.01101 *A^2								
5) Methylene Chlorid	0.786	0.535	0.450	0.429	0.419	0.437	0.509	0.509	27.83
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986								
	Response Ratio = 0.00000 + 0.43058 *A + 0.00030 *A^2								
6)T trans-1,2-Dichlor	0.543	0.360	0.360	0.383	0.402	0.400	0.428	0.411	15.37
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.36221 *A + 0.01572 *A^2								
7) 1,1-Dichloroethan	0.923	0.631	0.638	0.678	0.710	0.705	0.747	0.719	13.74
8) cis-1,2-Dichloroe	0.531	0.387	0.385	0.408	0.427	0.424	0.450	0.430	11.68
9) Chloroform	1.017	0.698	0.713	0.753	0.791	0.785	0.836	0.799	13.39
10) Carbon Tetrachlor	0.756	0.480	0.510	0.534	0.578	0.580	0.620	0.580	15.70
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
	Response Ratio = 0.00000 + 0.51032 *A + 0.02676 *A^2								
11) 1,1,1-Trichloroet	0.950	0.631	0.634	0.684	0.724	0.721	0.765	0.730	14.91
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
	Response Ratio = 0.00000 + 0.65351 *A + 0.02692 *A^2								
12) Benzene	1.892	1.310	1.314	1.401	1.450	1.448	1.520	1.476	13.44
13)S 1,2-Dichloroethan	0.313	0.324	0.323	0.328	0.323	0.329	0.328	0.324	1.75
14) 1,2-Dichloroethan	0.493	0.471	0.504	0.541	0.554	0.562	0.586	0.530	7.85
15) Trichloroethene	0.593	0.397	0.411	0.439	0.453	0.456	0.485	0.462	14.03
16) 1,2-Dichloropropa	0.412	0.336	0.339	0.369	0.381	0.383	0.401	0.374	7.75
17) cis-1,3-Dichlorop	0.435	0.292	0.441	0.446	0.513	0.531	0.562	0.460	19.38
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.43921 *A + 0.03094 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.248	1.258	1.248	1.247	1.236	1.239	1.234	1.244	0.69
20)T trans-1,3-Dichlor	0.399	0.287	0.461	0.474	0.566	0.597	0.636	0.489	24.91
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9956								

6.6.1  
6



# Initial Calibration Summary

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICC2408  
**Lab FileID:** Z62044.D

---

$$\text{Response Ratio} = 0.00000 + 0.60851 *A$$

21) Tetrachloroethene 0.868 0.562 0.546 0.585 0.608 0.614 0.641 0.632 17.25  
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999  
Response Ratio = 0.00000 + 0.56157 \*A + 0.01953 \*A^2

-----  
(#) = Out of Range

SIMCL090320.M

Fri Sep 04 14:05:20 2020

6.6.1

6

## Initial Calibration Verification

Job Number: FA78406  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2408-ICV2408  
 Lab FileID: Z62048.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\Je...-2020\VZ2408\Z62048.d Vial: 9  
 Acq On : 3 Sep 2020 12:57 pm Operator: shanicao  
 Sample : cc2408-5 Inst : MSVOA15  
 Misc : MS46458,VZ2408,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Thu Sep 03 14:30:55 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	83	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	9.694	3.1	79	0.00	2.85
3	Chloromethane	10.000	10.151	-1.5	85	0.00	2.74
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.332	0.296	10.8	76	0.00	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	9.714	2.9	81	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	9.671	3.3	78	0.00	4.89
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.695	3.3	81	0.00	5.55
8	cis-1,2-Dichloroethene	0.430	0.417	3.0	81	0.00	6.11
9	Chloroform	0.799	0.771	3.5	81	0.00	6.38
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	9.580	4.2	77	0.00	6.54
11	1,1,1-Trichloroethane	10.000	9.677	3.2	78	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.468	0.5	84	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.335	-3.4	86	0.00	7.13
14	1,2-Dichloroethane	0.530	0.573	-8.1	86	0.00	7.20
15	Trichloroethene	0.462	0.467	-1.1	85	0.00	7.56
16	1,2-Dichloropropane	0.374	0.390	-4.3	85	0.00	8.11
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.853	1.5	80	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00	10.51
19 S	Toluene-d8	1.244	1.241	0.2	83	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	9.828	1.7	79	0.00	9.41
21	Tetrachloroethene	10.000	9.817	1.8	80	0.00	9.40



# Initial Calibration Verification

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICV2408  
**Lab FileID:** Z62048.D

(#) = Out of Range  
Z62044.D SIMCL090320.M

SPCC's out = 0 CCC's out = 0  
Fri Sep 04 00:37:04 2020

# Continuing Calibration Summary

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2409-CC2408  
**Lab FileID:** Z62074.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VZ2409\Z62074.d Vial: 1  
 Acq On : 4 Sep 2020 8:57 am Operator: shanicao  
 Sample : CC2408-5 Inst : MSVOA15  
 Misc : MS47134,VZ2409,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	86	0.00	7.39
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.261	-2.6	87	0.00	2.83
3	Chloromethane	10.000	10.613	-6.1	93	0.00	2.73
4	1,1-Dichloroethene	10.000	9.699	3.0	82	0.00	4.08
5	Methylene Chloride	10.000	9.985	0.2	87	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	9.899	1.0	84	0.00	4.88
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.706	1.8	86	0.00	5.54
8	cis-1,2-Dichloroethene	0.430	0.418	2.8	84	0.00	6.10
9	Chloroform	0.799	0.780	2.4	85	0.00	6.37
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	9.419	5.8	79	0.00	6.54
11	1,1,1-Trichloroethane	10.000	9.639	3.6	81	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.437	2.6	86	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.340	-4.9	91	0.00	7.12
14	1,2-Dichloroethane	0.530	0.590	-11.3	92	0.00	7.19
15	Trichloroethene	0.462	0.442	4.3	84	0.00	7.56
16	1,2-Dichloropropane	0.374	0.382	-2.1	87	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	10.129	-1.3	86	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00	10.51
19 S	Toluene-d8	1.244	1.239	0.4	85	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	9.573	4.3	88	0.00	9.41
21	Tetrachloroethene	10.000	9.736	2.6	82	0.00	9.39

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62044.D    SIMCL090320.M              Tue Sep 08 01:12:30 2020

# Continuing Calibration Summary

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2409-ECC2408  
**Lab FileID:** Z62100.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\090420\Z62100.D Vial: 17  
 Acq On : 4 Sep 2020 7:51 pm Operator: shanicao  
 Sample : ECC2408-5 Inst : MSVOA15  
 Misc : MS47134,VZ2409,,,,,  
 MS Integration Params: RTEINT.P Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I Fluorobenzene	1.000	1.000	0.0	64	0.00	7.40
----- Amount Calc. %Drift -----						
2 Vinyl Chloride	10.000	11.864	-18.6	75	0.00	2.84
3 Chloromethane	10.000	11.518	-15.2	75	0.00	2.74
4 1,1-Dichloroethene	10.000	10.079	-0.8	63	0.00	4.08
5 Methylene Chloride	10.000	10.080	-0.8	65	0.00	4.71
6 T trans-1,2-Dichloroethene	10.000	10.058	-0.6	63	0.00	4.89
----- AvgRF CCRF %Dev -----						
7 1,1-Dichloroethane	0.719	0.751	-4.5	67	0.00	5.54
8 cis-1,2-Dichloroethene	0.430	0.412	4.2	61	0.00	6.10
9 Chloroform	0.799	0.818	-2.4	66	0.00	6.37
----- Amount Calc. %Drift -----						
10 Carbon Tetrachloride	10.000	9.792	2.1	61	0.00	6.54
11 1,1,1-Trichloroethane	10.000	10.103	-1.0	63	0.00	6.61
----- AvgRF CCRF %Dev -----						
12 Benzene	1.476	1.473	0.2	65	0.00	6.99
13 S 1,2-Dichloroethane-d4	0.324	0.384	-18.5	76	0.00	7.12
14 1,2-Dichloroethane	0.530	0.633	-19.4	73	0.00	7.19
15 Trichloroethene	0.462	0.455	1.5	64	0.00	7.56
16 1,2-Dichloropropane	0.374	0.393	-5.1	66	0.00	8.10
----- Amount Calc. %Drift -----						
17 cis-1,3-Dichloropropene	10.000	9.350	6.5	58	0.00	8.77
----- AvgRF CCRF %Dev -----						
18 I Chlorobenzene-d5	1.000	1.000	0.0	63	0.00	10.51
19 S Toluene-d8	1.244	1.203	3.3	62	0.00	8.96
----- Amount Calc. %Drift -----						
20 T trans-1,3-Dichloropropene	10.000	8.918	10.8	61	0.00	9.41
21 Tetrachloroethene	10.000	9.489	5.1	59	0.00	9.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 Z62044.D SIMCL090320.M Tue Sep 08 12:34:34 2020

**Run Sequence Report**

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2408	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
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<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VZ2408-BFB	Z62039.D	09/03/20 09:29	n/a	BFB Tune
VZ2408-IC2408	Z62040.D	09/03/20 09:52	n/a	Initial cal 1
VZ2408-IC2408	Z62041.D	09/03/20 10:11	n/a	Initial cal 2
VZ2408-IC2408	Z62042.D	09/03/20 10:59	n/a	Initial cal 3
VZ2408-IC2408	Z62043.D	09/03/20 11:18	n/a	Initial cal 4
VZ2408-ICC2408	Z62044.D	09/03/20 11:40	n/a	Initial cal 5
VZ2408-IC2408	Z62045.D	09/03/20 11:59	n/a	Initial cal 6
VZ2408-IC2408	Z62046.D	09/03/20 12:18	n/a	Initial cal 7
VZ2408-ICV2408	Z62048.D	09/03/20 12:57	n/a	Initial cal verification 5

**Run Sequence Report**

**Job Number:** FA78406  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2409	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2409-BFB	Z62073.D	09/04/20 08:05	n/a	BFB Tune
VZ2409-CC2408	Z62074.D	09/04/20 08:57	n/a	Continuing cal 5
VZ2409-BS	Z62075.D	09/04/20 09:17	n/a	Blank Spike
VZ2409-MB	Z62076.D	09/04/20 09:37	n/a	Method Blank
FA78398-2	Z62077.D	09/04/20 09:57	n/a	(used for QC only; not part of job FA78406)
ZZZZZZ	Z62078.D	09/04/20 10:17	n/a	(unrelated sample)
ZZZZZZ	Z62079.D	09/04/20 10:36	n/a	(unrelated sample)
ZZZZZZ	Z62083.D	09/04/20 11:55	n/a	(unrelated sample)
ZZZZZZ	Z62084.D	09/04/20 12:14	n/a	(unrelated sample)
ZZZZZZ	Z62085.D	09/04/20 12:34	n/a	(unrelated sample)
FA78406-1	Z62086.D	09/04/20 12:53	n/a	2036W0BW088F
ZZZZZZ	Z62087.D	09/04/20 13:12	n/a	(unrelated sample)
ZZZZZZ	Z62088.D	09/04/20 13:32	n/a	(unrelated sample)
FA78442-3	Z62089.D	09/04/20 13:51	n/a	(used for QC only; not part of job FA78406)
FA78442-3MS	Z62090.D	09/04/20 14:11	n/a	Matrix Spike
FA78442-3MSD	Z62091.D	09/04/20 14:30	n/a	Matrix Spike Duplicate
ZZZZZZ	Z62092.D	09/04/20 14:51	n/a	(unrelated sample)
ZZZZZZ	Z62093.D	09/04/20 15:10	n/a	(unrelated sample)
ZZZZZZ	Z62094.D	09/04/20 15:30	n/a	(unrelated sample)
ZZZZZZ	Z62095.D	09/04/20 15:49	n/a	(unrelated sample)
VZ2409-ECC2408	Z62100.D	09/04/20 19:51	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
Data File : Z62086.d  
Acq On : 4 Sep 2020 12:53 pm  
Operator : shanicao  
Sample : FA78406-1  
Misc : MS47134,VZ2409,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 08 01:15:44 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2164070	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1612157	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	810091	5.78	ppb	0.00
Spiked Amount	5.000	Range 79 - 125	Recovery	=	115.60%	
19) Toluene-d8	8.961	98	2011610	5.01	ppb	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	100.20%	

Target Compounds Qvalue  
-----

(#) = qualifier out of range (m) = manual integration (+) = signals summed

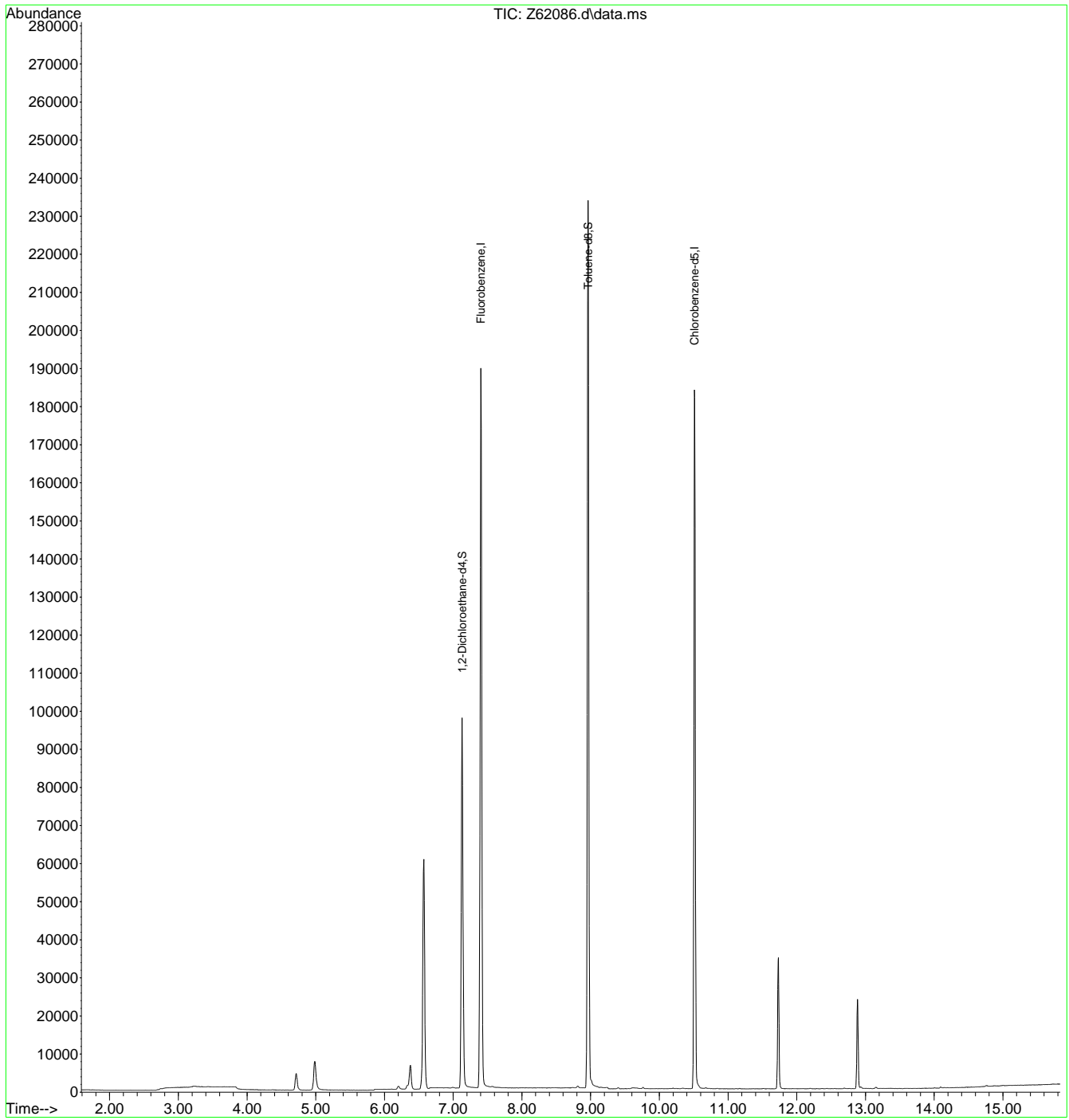
7.1.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
Data File : Z62086.d  
Acq On : 4 Sep 2020 12:53 pm  
Operator : shanicao  
Sample : FA78406-1  
Misc : MS47134,VZ2409,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 08 01:15:44 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62076.d  
 Acq On : 4 Sep 2020 9:37 am  
 Operator : shanicao  
 Sample : MB  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 01:08:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2556488	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1926956	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	892184	5.39	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	107.80%
19) Toluene-d8	8.961	98	2425025	5.06	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
Target Compounds						
5) Methylene Chloride	4.713	84	53538	0.24	ppb	Qvalue 95
-----						

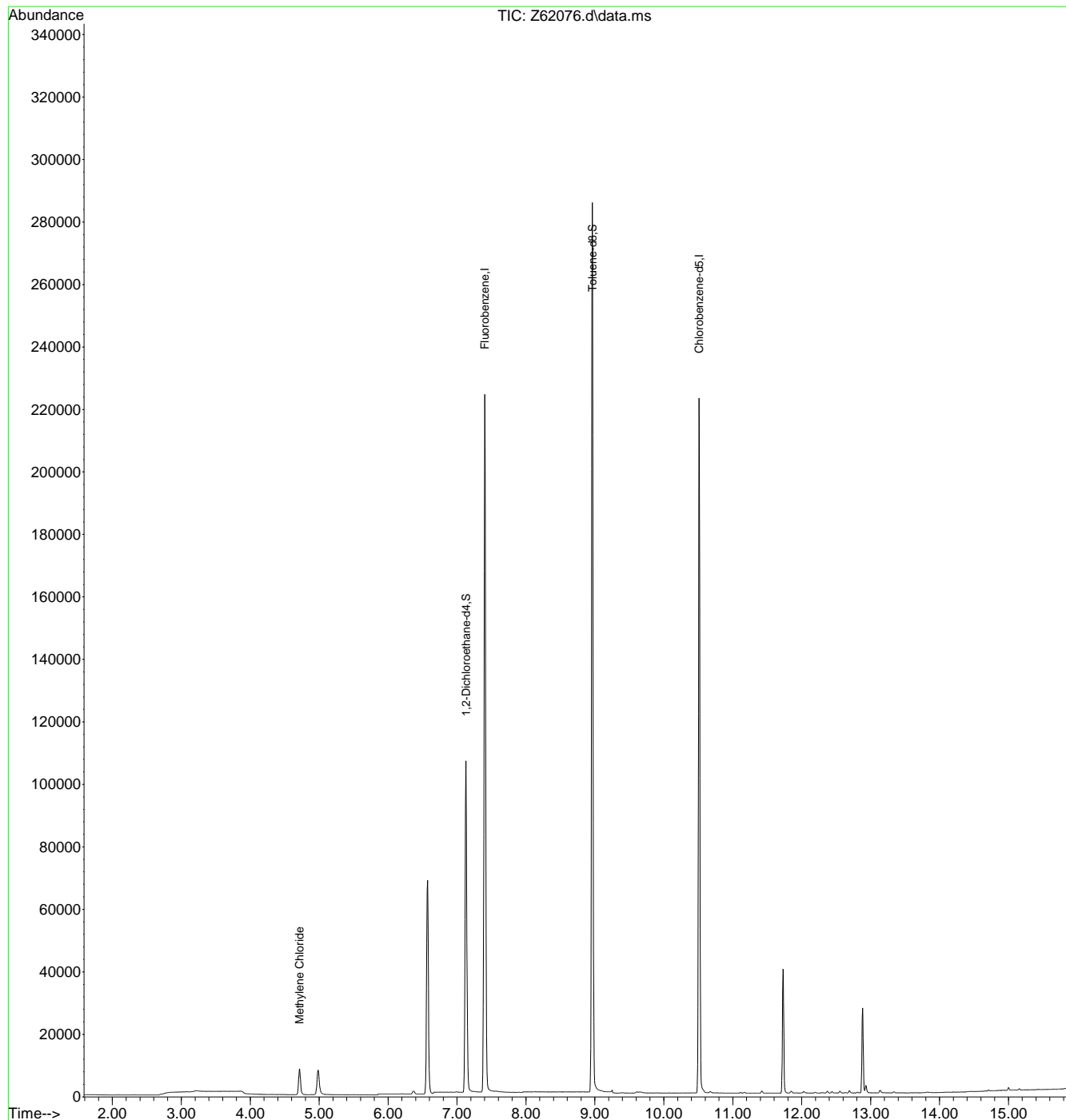
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.2.1  
7

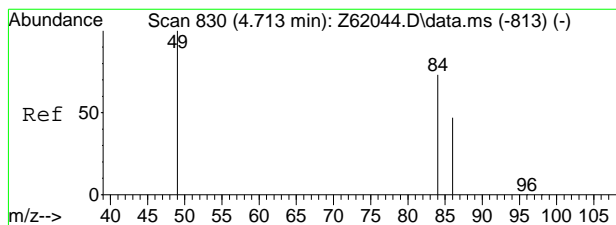
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
Data File : Z62076.d  
Acq On : 4 Sep 2020 9:37 am  
Operator : shanicao  
Sample : MB  
Misc : MS47134,VZ2409,,,,,  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 01:08:19 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



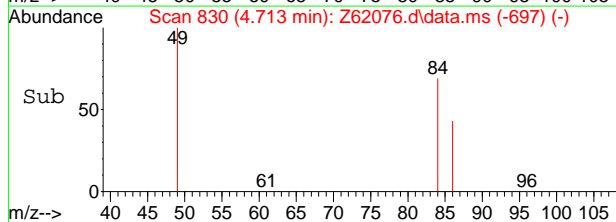
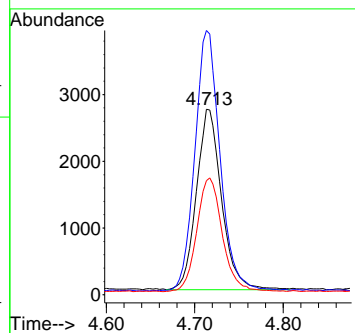
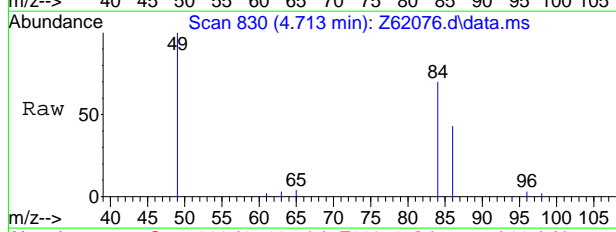
7.2.1  
7



#5  
 Methylene Chloride  
 Concen: 0.24 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62076.d  
 Acq: 4 Sep 2020 9:37 am

Tgt Ion: 84 Resp: 53538

Ion	Ratio	Lower	Upper
84	100		
49	144.1	116.6	156.6
86	61.3	43.9	83.9



7.2.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62075.d  
 Acq On : 4 Sep 2020 9:17 am  
 Operator : shanicao  
 Sample : BS  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 01:08:17 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2672989	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2058240	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	897164	5.18	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	103.60%		
19) Toluene-d8	8.961	98	2545872	4.97	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1221527	5.21	ppb		100
3) Chloromethane	2.733	50	1182271	4.95	ppb		99
4) 1,1-Dichloroethene	4.083	96	718514	4.42	ppb		97
5) Methylene Chloride	4.713	84	971240	4.22	ppb		97
6) trans-1,2-Dichloroethene	4.886	96	901138	4.48	ppb		98
7) 1,1-Dichloroethane	5.542	63	1666670	4.34	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	970016	4.22	ppb		94
9) Chloroform	6.371	83	1807214	4.23	ppb		100
10) Carbon Tetrachloride	6.543	117	1230469	4.31	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	1594318	4.40	ppb		99
12) Benzene	6.994	78	3462489	4.39	ppb		100
14) 1,2-Dichloroethane	7.198	62	1309090	4.62	ppb		99
15) Trichloroethene	7.564	95	1034184	4.19	ppb		99
16) 1,2-Dichloropropane	8.105	63	902107	4.51	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	1001964	4.04	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	810545	3.24	ppb		100
21) Tetrachloroethene	9.399	166	1055308	4.43	ppb		100
-----							

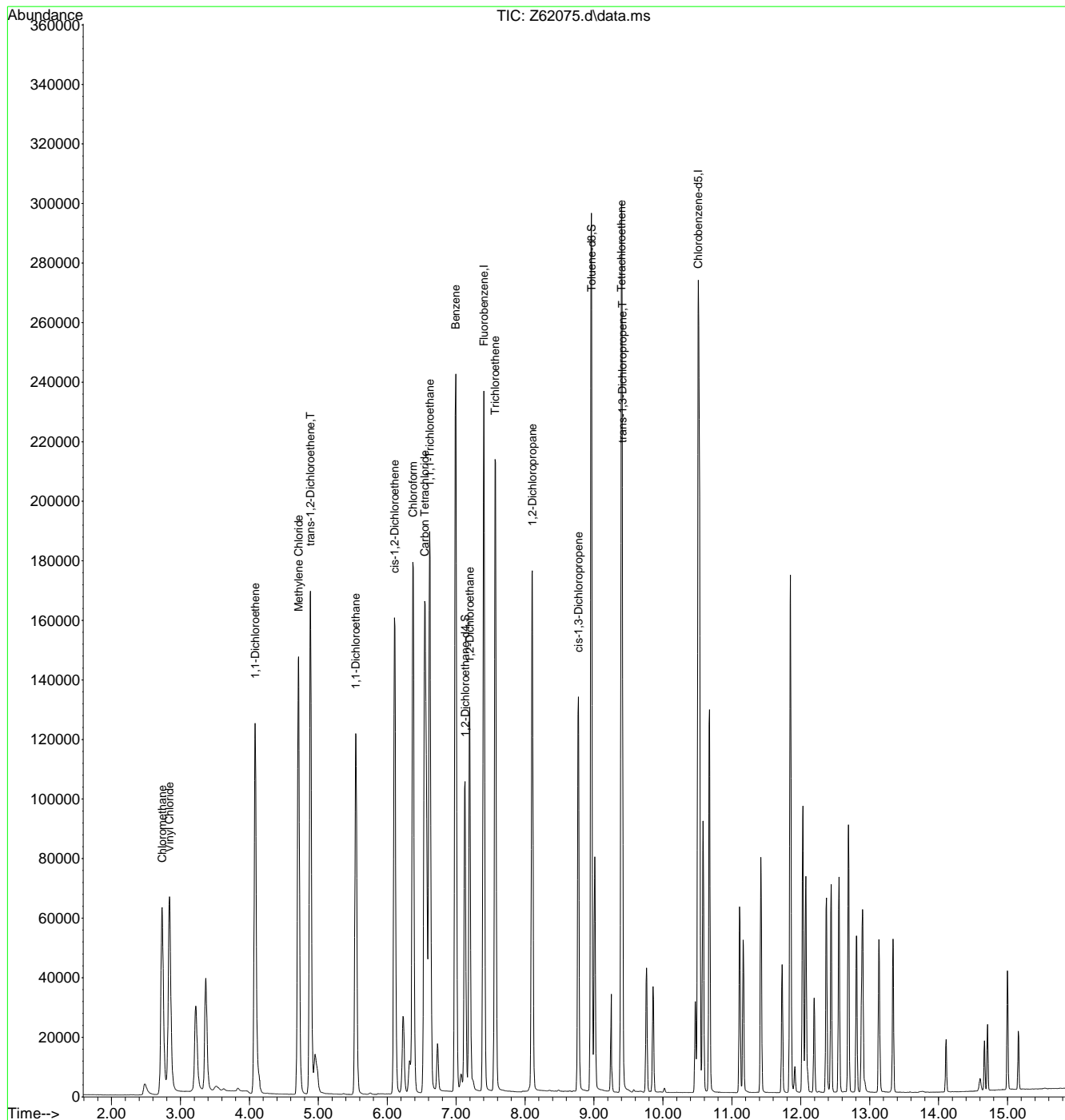
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62075.d  
 Acq On : 4 Sep 2020 9:17 am  
 Operator : shanicao  
 Sample : BS  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 01:08:17 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



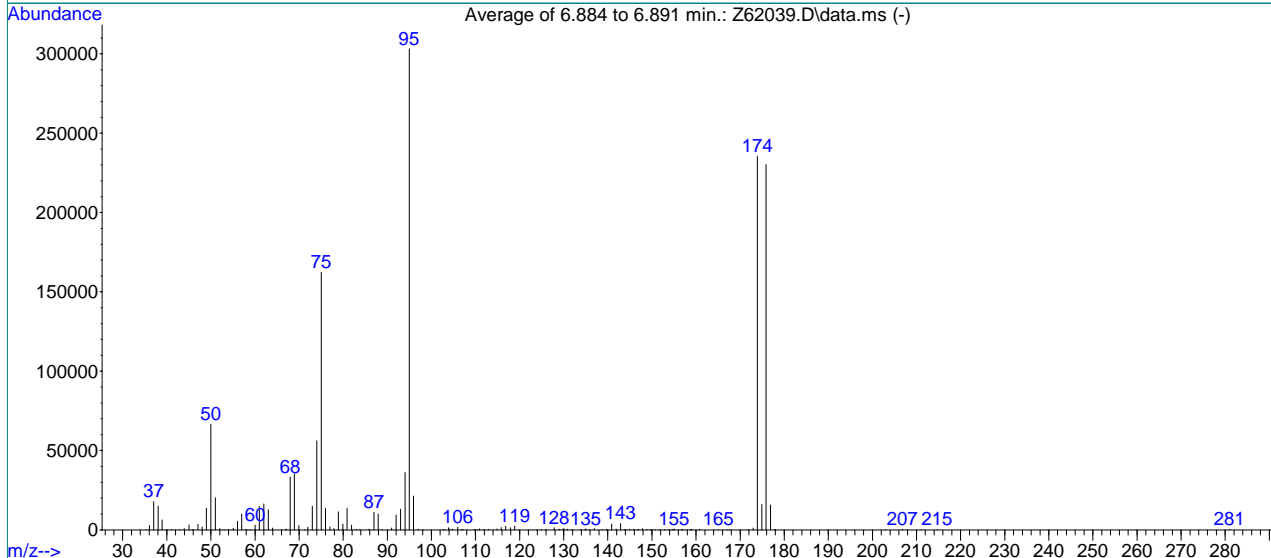
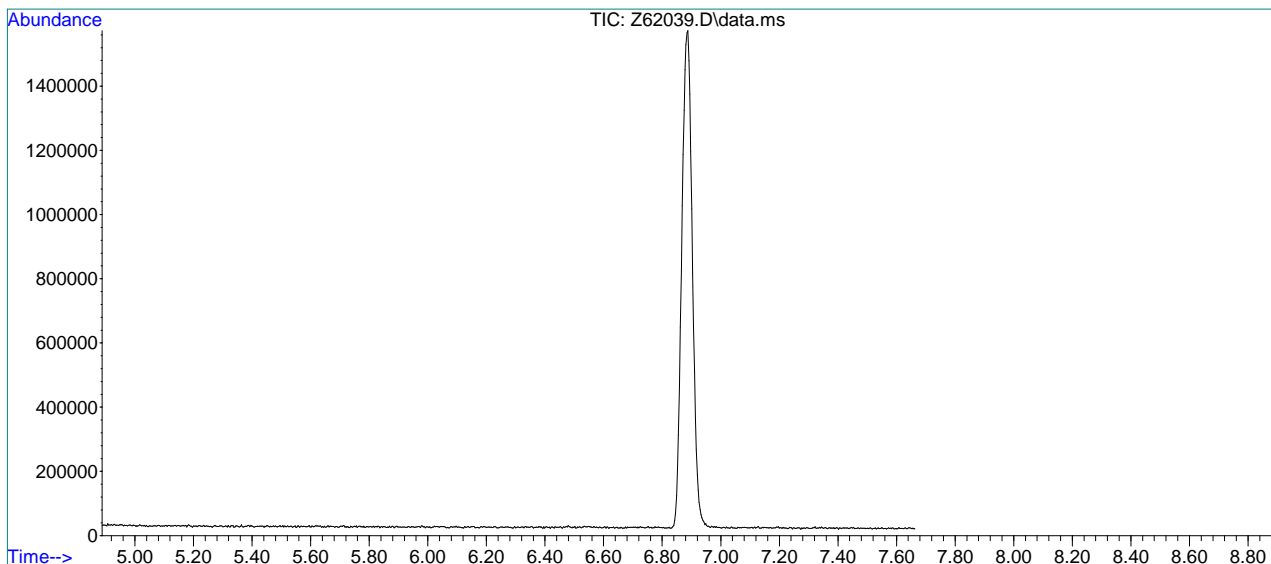
7.3.1  
7

BFB

Data File : C:\msdchem\1\data\090320\Z62039.D  
 Acq On : 3 Sep 2020 9:29 am  
 Sample : BFB  
 Misc : MS46458,VZ2408,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: shanicao  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2114, 2115, 2116; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	66488	PASS
75	95	30	60	53.5	162304	PASS
95	95	100	100	100.0	303153	PASS
96	95	5	9	7.0	21238	PASS
173	174	0.00	2	0.5	1222	PASS
174	95	50	100	77.7	235477	PASS
175	174	5	9	6.8	16056	PASS
176	174	95	101	97.8	230208	PASS
177	176	5	9	6.8	15659	PASS

7.4.1  
7

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.30	52	45.80	167	56.00	5387	66.90	190
36.05	2773	46.05	183	57.00	9992	67.10	489
37.00	17718	47.05	3550	57.90	268	67.95	33363
38.05	14875	48.00	1840	58.20	136	68.95	35178
38.95	6224	49.00	13650	58.85	124	69.95	2763
40.00	334	50.00	66488	60.00	2916	71.20	99
41.00	107	51.00	20248	61.00	14791	71.95	1717
42.00	125	52.05	861	62.00	16361	73.00	14848
42.95	161	52.95	207	63.00	12571	74.00	56120
43.95	877	53.90	349	63.95	1178	75.00	162304
45.00	3127	55.05	1007	66.05	98	76.00	13465

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.00	1815	88.80	61	103.85	1339	114.85	649
77.90	720	90.95	1090	104.10	528	115.80	1564
78.90	11413	92.00	9313	104.85	445	116.85	2289
79.90	3660	93.00	12994	105.95	1740	117.90	1393
80.85	13619	94.00	36128	106.85	292	118.85	2352
81.90	2951	94.95	303153	107.20	159	119.90	68
82.95	278	95.95	21238	109.80	314	121.90	152
83.80	70	97.00	532	110.50	69	123.80	180
85.85	442	98.10	70	110.95	588	125.00	76
86.95	11103	102.70	96	111.95	227	125.90	236
87.95	10026	103.00	134	112.90	296	127.85	1308

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.95	377	139.75	271	148.85	182	155.90	165
129.80	432	140.85	3605	149.75	321	156.70	160
130.05	765	141.90	478	150.00	157	156.95	249
130.85	489	142.90	3996	150.80	112	158.00	152
131.90	186	143.80	187	151.80	268	158.80	237
133.85	274	144.10	61	152.90	320	159.00	202
134.80	216	145.00	433	153.85	141	160.75	310
135.00	602	145.90	383	154.10	123	165.10	50
135.85	140	146.70	72	154.60	122	167.10	115
136.90	757	147.00	206	154.80	203	167.70	52
138.70	65	147.85	763	155.05	591	171.90	71

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

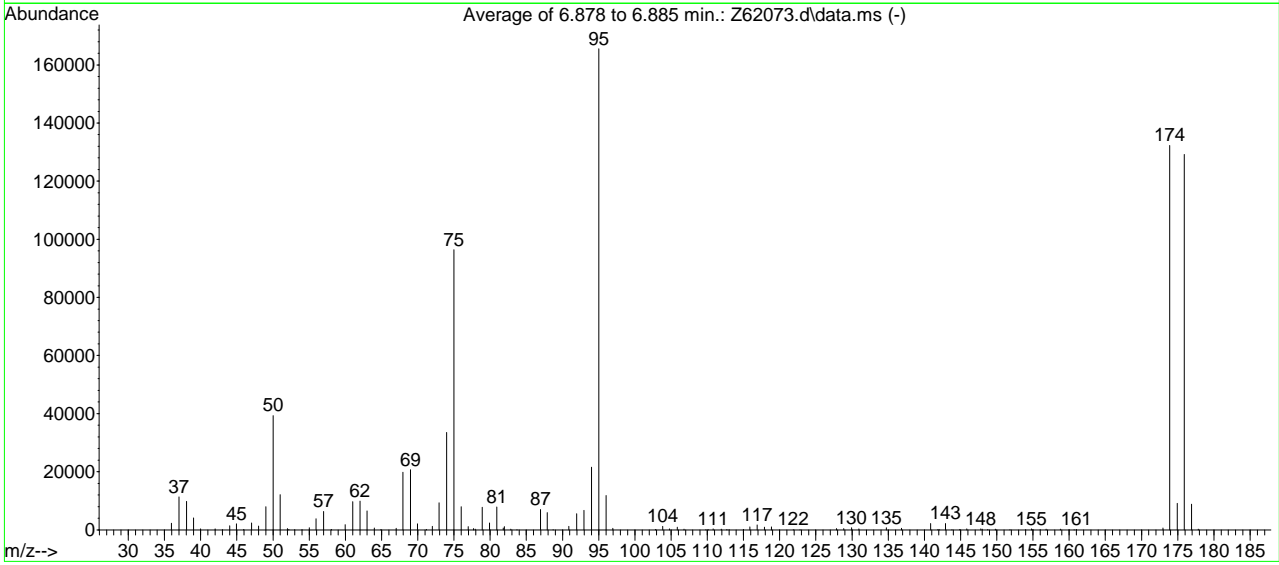
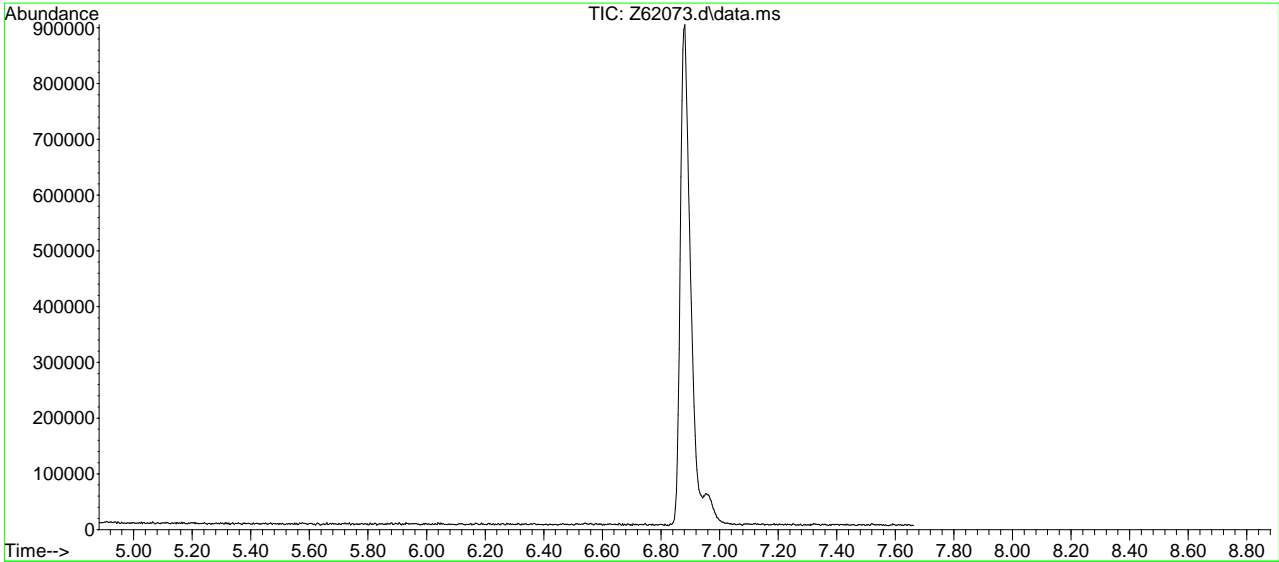
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.95	1222	214.70	76				
173.90	235477	281.00	82				
174.90	16056						
175.90	230208						
176.90	15659						
177.80	57						
178.00	304						
202.95	136						
206.85	258						
207.90	70						
211.00	61						

BFB

Data File : C:\msdchem\1\data\je...-2020\VZ2409\Z62073.d Vial: 100  
 Acq On : 4 Sep 2020 8:05 am Operator: shanicao  
 Sample : BFB Inst : MSVOA15  
 Misc : MS47134,VZ2409,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2112, 2113, 2114; Background Corrected with Scan 2097

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	39290	PASS
75	95	30	60	58.2	96384	PASS
95	95	100	100	100.0	165525	PASS
96	95	5	9	7.1	11804	PASS
173	174	0.00	2	0.5	624	PASS
174	95	50	100	79.9	132253	PASS
175	174	5	9	6.9	9164	PASS
176	174	95	101	97.7	129197	PASS
177	176	5	9	6.8	8818	PASS



Average of 6.878 to 6.885 min.: Z62073.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	2233	48.00	1274	58.05	186	71.20	163
37.00	11343	49.00	8005	59.95	1748	72.00	1185
38.05	9847	50.00	39290	61.00	9653	72.95	9335
39.00	4082	51.00	12159	62.00	9935	74.00	33565
40.00	336	52.00	407	63.00	6535	75.00	96384
42.00	303	52.20	157	64.00	619	76.00	7977
43.00	22	53.00	80	64.90	55	76.95	1111
44.00	1368	54.00	58	67.00	528	77.70	423
44.95	2087	55.00	724	67.95	19862	77.95	291
45.95	182	55.95	3808	69.00	20677	78.90	7725
47.05	2329	57.00	6318	69.95	2092	79.90	2334

Average of 6.878 to 6.885 min.: Z62073.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	7832	94.00	21539	110.80	362	127.85	453
81.80	588	95.00	165525	111.95	210	128.85	403
81.95	1074	96.00	11804	112.70	173	129.95	756
82.85	245	96.95	519	113.00	57	130.95	360
83.70	53	102.85	159	115.00	177	134.75	743
86.95	6963	103.85	1173	115.90	999	136.85	521
87.90	5956	104.75	302	116.90	1674	140.85	2191
88.70	97	105.85	891	117.90	941	141.85	193
90.85	1187	106.80	249	118.85	998	142.10	97
91.95	5512	109.80	74	121.90	93	142.90	2214
92.95	6742	110.20	80	122.80	58	143.80	76

Average of 6.878 to 6.885 min.: Z62073.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.90	132	156.80	294				
145.85	304	158.80	210				
147.80	298	160.00	53				
148.00	226	160.70	65				
148.75	185	161.00	145				
149.80	221	172.95	624				
151.80	60	173.90	132253				
154.00	52	174.95	9164				
154.80	386	175.90	129197				
155.00	145	176.90	8818				
156.00	93	177.85	239				

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62040.D  
 Acq On : 3 Sep 2020 9:52 am  
 Operator : shanicao  
 Sample : IC2408-1  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 03 10:46:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3804478	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2917946	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	1189054	4.66	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	93.20%		
19) Toluene-d8	8.958	98	3642217	5.53	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	110.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	60425	0.16	ppb		81
3) Chloromethane	2.730	50	66839	0.17	ppb		98
4) 1,1-Dichloroethene	4.083	96	33018	0.19	ppb		98
5) Methylene Chloride	4.713	84	235103	0.84	ppb	#	89
6) trans-1,2-Dichloroethene	4.883	96	41344	0.16	ppb		98
7) 1,1-Dichloroethane	5.543	63	70207	0.14	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	40436	0.13	ppb		93
9) Chloroform	6.371	83	77366	0.13	ppb		96
10) Carbon Tetrachloride	6.543	117	57498	0.17	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	72306	0.16	ppb		92
12) Benzene	6.987	78	143997	0.15	ppb		96
14) 1,2-Dichloroethane	7.191	62	37491	0.10	ppb		99
15) Trichloroethene	7.564	95	45115	0.16	ppb		97
16) 1,2-Dichloropropane	8.101	63	31354	0.11	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	33085	0.10	ppb		95
20) trans-1,3-Dichloropropene	9.407	75	23314	0.08	ppb		99
21) Tetrachloroethene	9.399	166	50663	0.17	ppb		98

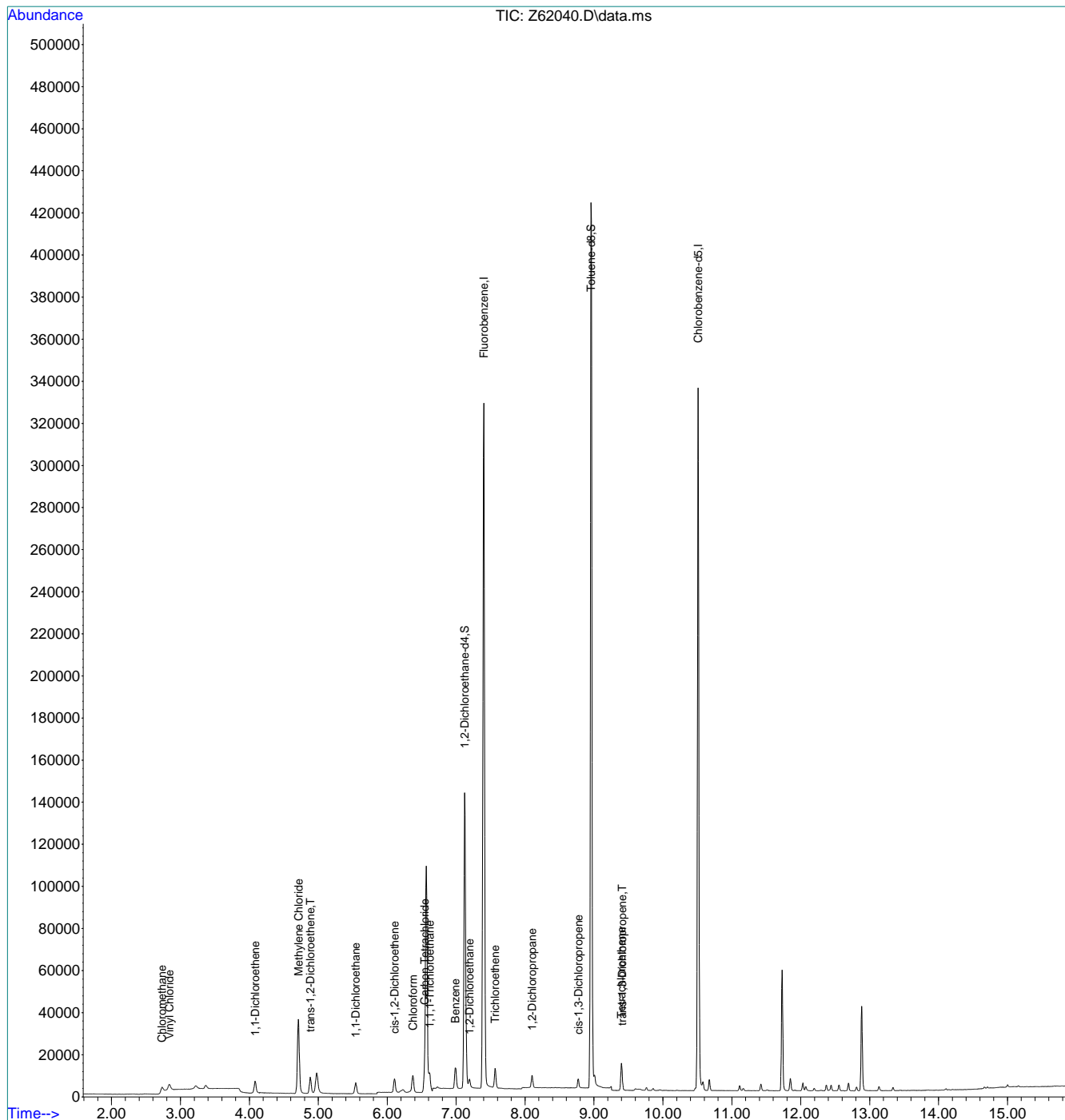
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.5.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62040.D  
 Acq On : 3 Sep 2020 9:52 am  
 Operator : shanicao  
 Sample : IC2408-1  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 03 10:46:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62041.D  
 Acq On : 3 Sep 2020 10:11 am  
 Operator : shanicao  
 Sample : IC2408-2  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 03 10:46:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

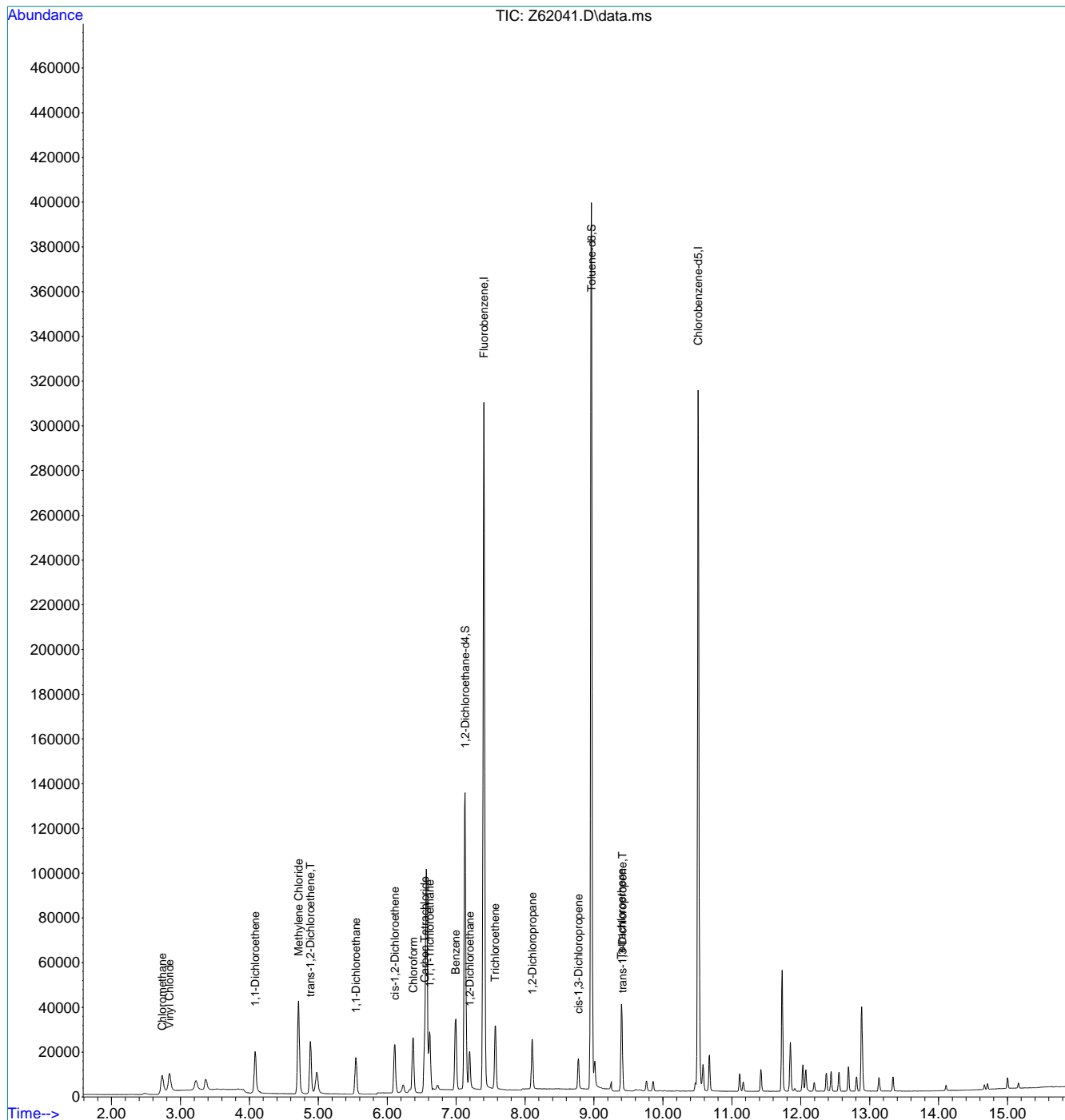
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3529389	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2691939	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1143820	4.83	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.60%	
19) Toluene-d8	8.961	98	3386795	5.57	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	163586	0.47	ppb		96
3) Chloromethane	2.733	50	169046	0.48	ppb		99
4) 1,1-Dichloroethene	4.083	96	107728	0.67	ppb		98
5) Methylene Chloride	4.713	84	277305	1.06	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	126935	0.52	ppb		100
7) 1,1-Dichloroethane	5.546	63	222785	0.48	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	136596	0.48	ppb		94
9) Chloroform	6.377	83	246283	0.45	ppb		97
10) Carbon Tetrachloride	6.543	117	169258	0.54	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	222786	0.52	ppb		98
12) Benzene	6.994	78	462224	0.50	ppb		99
14) 1,2-Dichloroethane	7.198	62	166346	0.47	ppb		98
15) Trichloroethene	7.564	95	140144	0.52	ppb		97
16) 1,2-Dichloropropane	8.105	63	118533	0.45	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	103090	0.32	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	77291	0.30	ppb		99
21) Tetrachloroethene	9.399	166	151253	0.56	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62041.D  
 Acq On : 3 Sep 2020 10:11 am  
 Operator : shanicao  
 Sample : IC2408-2  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 03 10:46:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.2  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62042.D  
 Acq On : 3 Sep 2020 10:59 am  
 Operator : shanicao  
 Sample : IC2408-3  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:30:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

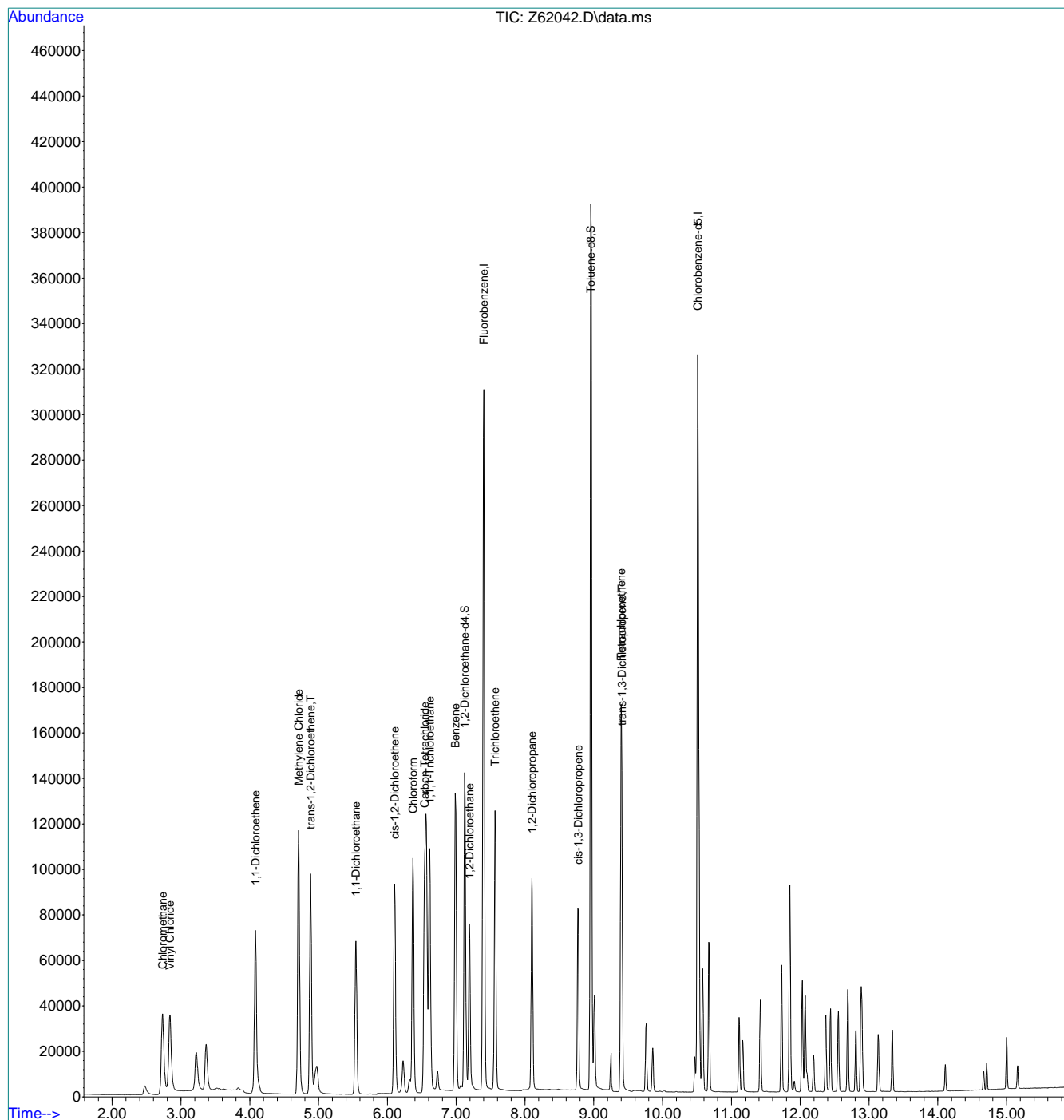
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3565081	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2721469	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	1150679	4.81	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	96.20%		
19) Toluene-d8	8.957	98	3395429	5.52	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	110.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	653900	1.88	ppb		96
3) Chloromethane	2.733	50	710717	1.99	ppb		99
4) 1,1-Dichloroethene	4.083	96	412798	2.56	ppb		98
5) Methylene Chloride	4.709	84	763200	2.89	ppb		94
6) trans-1,2-Dichloroethene	4.882	96	513878	2.07	ppb		98
7) 1,1-Dichloroethane	5.542	63	909896	1.95	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	548481	1.92	ppb		96
9) Chloroform	6.371	83	1017447	1.86	ppb		98
10) Carbon Tetrachloride	6.543	117	726775	2.29	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	903445	2.10	ppb		99
12) Benzene	6.987	78	1873808	2.01	ppb		97
14) 1,2-Dichloroethane	7.191	62	719288	2.00	ppb		100
15) Trichloroethene	7.564	95	585391	2.15	ppb		99
16) 1,2-Dichloropropane	8.101	63	482887	1.80	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	629327	1.93	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	501903	1.92	ppb		99
21) Tetrachloroethene	9.399	166	594039	2.16	ppb		98
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62042.D  
 Acq On : 3 Sep 2020 10:59 am  
 Operator : shanicao  
 Sample : IC2408-3  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:30:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62043.D  
 Acq On : 3 Sep 2020 11:18 am  
 Operator : shanicao  
 Sample : IC2408-4  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 03 11:36:06 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3393850	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2594246	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1113929	4.89	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	97.80%	
19) Toluene-d8	8.961	98	3233788	5.52	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	1454957	4.39	ppb		97
3) Chloromethane	2.737	50	1592779	4.73	ppb		100
4) 1,1-Dichloroethene	4.087	96	1060060	6.90	ppb		98
5) Methylene Chloride	4.713	84	1526559	6.05	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	1301321	5.50	ppb		99
7) 1,1-Dichloroethane	5.546	63	2300012	5.12	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	1384187	5.08	ppb		94
9) Chloroform	6.377	83	2556080	4.90	ppb		99
10) Carbon Tetrachloride	6.543	117	1811545	6.00	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	2322600	5.66	ppb		100
12) Benzene	6.994	78	4756353	5.28	ppb		100
14) 1,2-Dichloroethane	7.198	62	1836620	5.31	ppb		100
15) Trichloroethene	7.564	95	1488604	5.75	ppb		97
16) 1,2-Dichloropropane	8.105	63	1251224	4.90	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	1512864	4.87	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	1229739	4.93	ppb		100
21) Tetrachloroethene	9.399	166	1518603	5.80	ppb		99

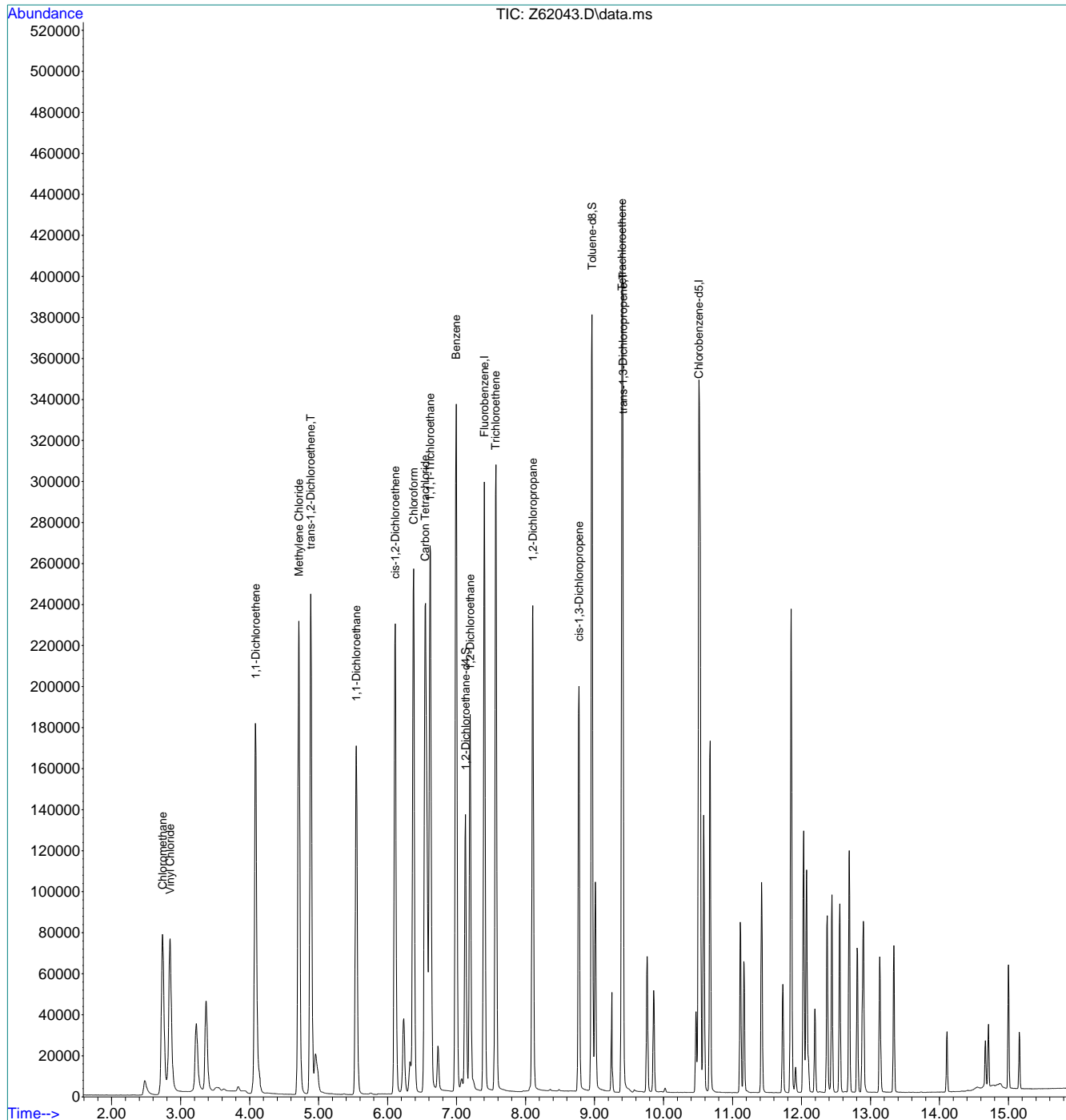
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62043.D  
 Acq On : 3 Sep 2020 11:18 am  
 Operator : shanicao  
 Sample : IC2408-4  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 03 11:36:06 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.4  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62044.D  
 Acq On : 3 Sep 2020 11:40 am  
 Operator : shanicao  
 Sample : ICC2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 12:07:56 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

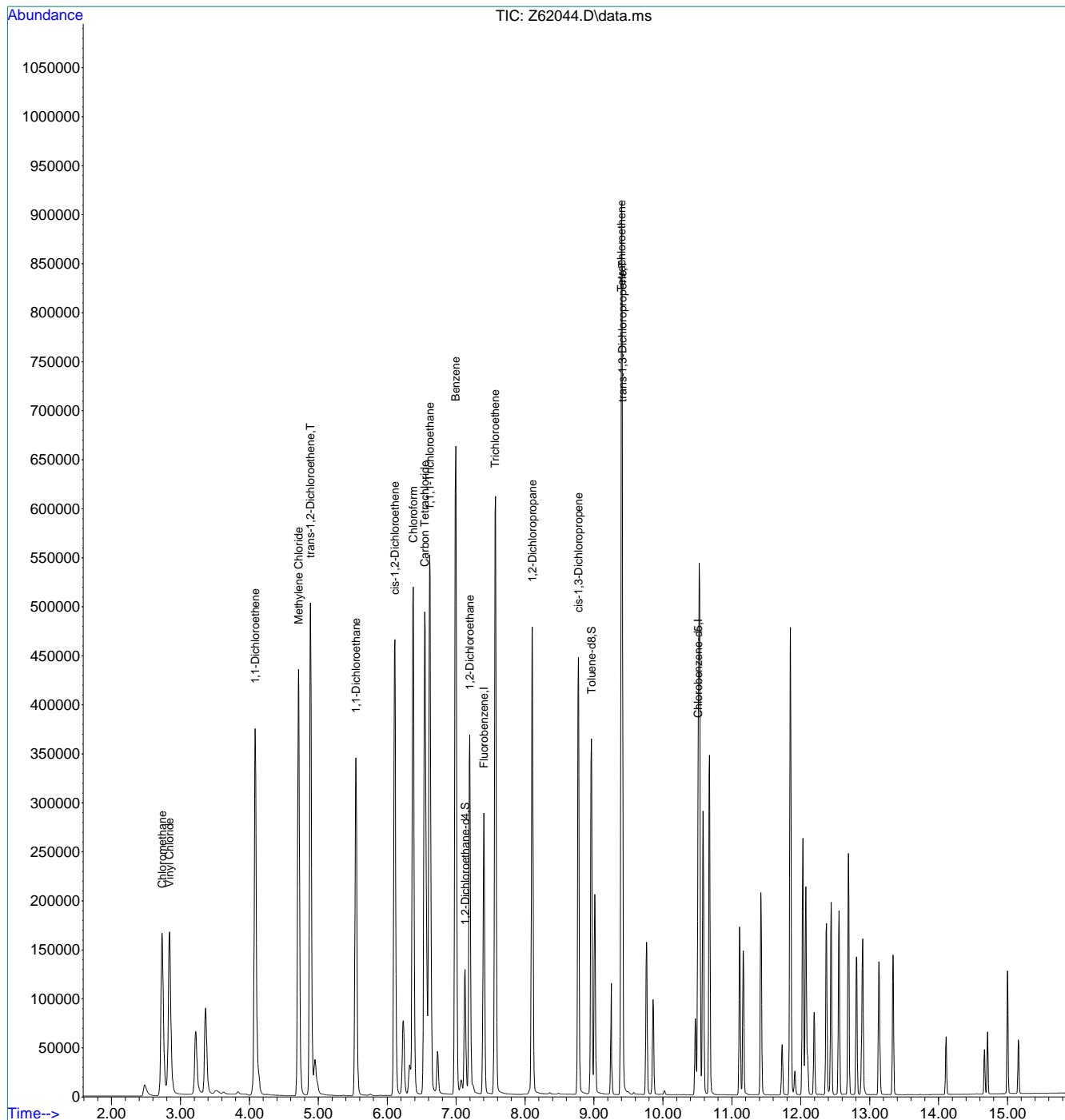
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3260477	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2497954	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1053734	4.82	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	96.40%		
19) Toluene-d8	8.961	98	3086779	5.47	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	109.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	3003337	9.44	ppb		98
3) Chloromethane	2.733	50	3004853	9.45	ppb		99
4) 1,1-Dichloroethene	4.083	96	2110416	14.31	ppb		97
5) Methylene Chloride	4.713	84	2800264	11.44	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	2623746	11.55	ppb		100
7) 1,1-Dichloroethane	5.546	63	4627710	10.55	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	2786347	10.65	ppb		94
9) Chloroform	6.377	83	5159486	10.30	ppb		99
10) Carbon Tetrachloride	6.543	117	3767946	12.99	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	4718727	11.98	ppb		100
12) Benzene	6.994	78	9454398	10.65	ppb		100
14) 1,2-Dichloroethane	7.198	62	3615367	10.71	ppb		99
15) Trichloroethene	7.564	95	2955722	11.89	ppb		98
16) 1,2-Dichloropropane	8.105	63	2485857	10.14	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	3347102	11.22	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	2827150	11.76	ppb		100
21) Tetrachloroethene	9.399	166	3036745	12.05	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62044.D  
 Acq On : 3 Sep 2020 11:40 am  
 Operator : shanicao  
 Sample : ICC2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 12:07:56 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62045.D  
 Acq On : 3 Sep 2020 11:59 am  
 Operator : shanicao  
 Sample : IC2408-6  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 03 12:16:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

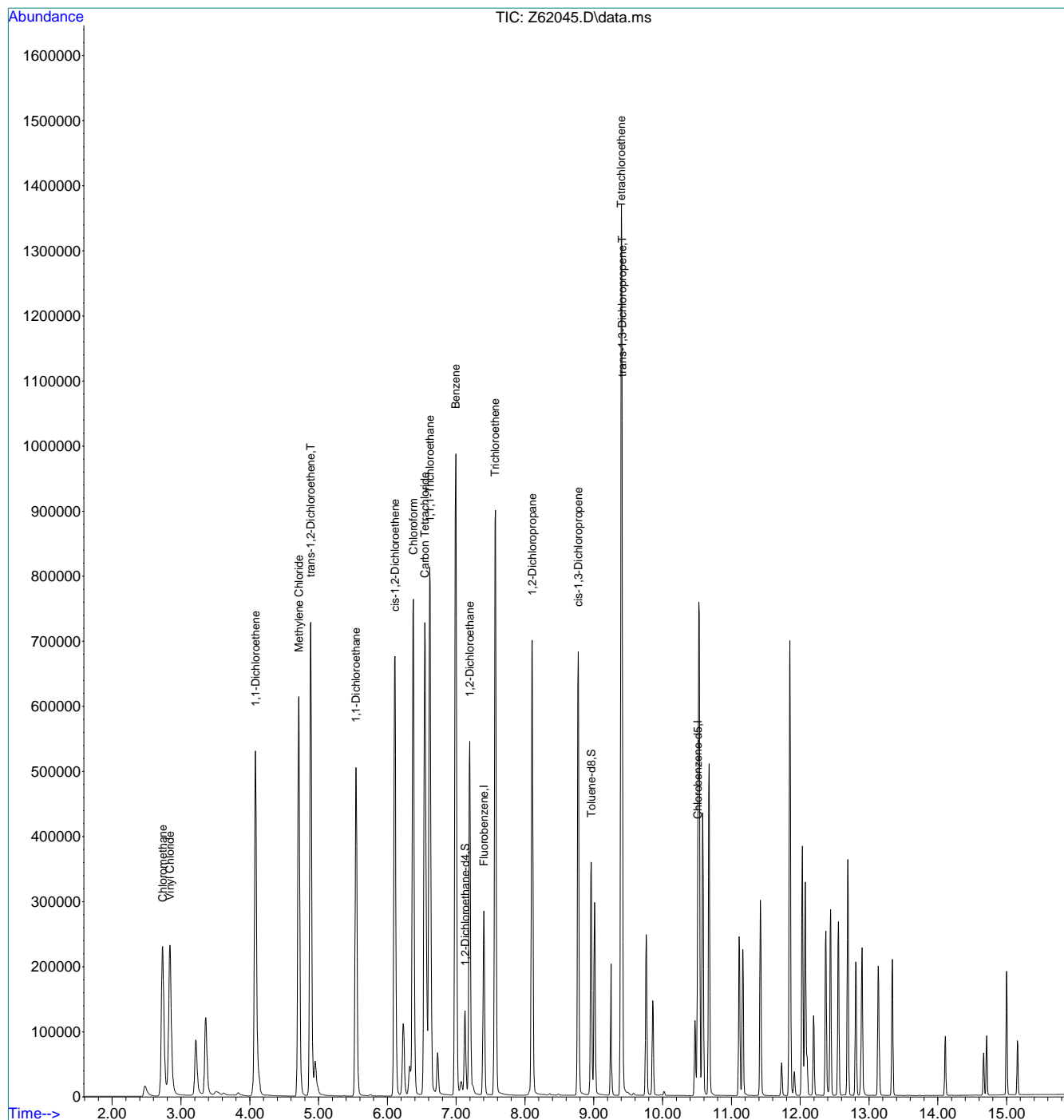
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3196001	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2443895	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1051841	4.90	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	98.00%	
19) Toluene-d8	8.961	98	3027479	5.48	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	4378556	14.04	ppb		98
3) Chloromethane	2.733	50	4551242	14.89	ppb		99
4) 1,1-Dichloroethene	4.083	96	3066264	21.21	ppb		99
5) Methylene Chloride	4.713	84	4012715	16.58	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	3838318	17.24	ppb		99
7) 1,1-Dichloroethane	5.543	63	6756600	15.47	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	4062378	15.85	ppb		94
9) Chloroform	6.377	83	7531102	15.34	ppb		98
10) Carbon Tetrachloride	6.543	117	5562204	19.57	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	6908579	17.89	ppb		100
12) Benzene	6.994	78	13884250	15.61	ppb		100
14) 1,2-Dichloroethane	7.198	62	5390318	16.04	ppb		99
15) Trichloroethene	7.564	95	4368807	17.93	ppb		98
16) 1,2-Dichloropropane	8.105	63	3668654	15.27	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	5087870	17.40	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	4379634	18.63	ppb		100
21) Tetrachloroethene	9.399	166	4500176	18.25	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
Data File : Z62045.D  
Acq On : 3 Sep 2020 11:59 am  
Operator : shanicao  
Sample : IC2408-6  
Misc : MS46458,VZ2408,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 03 12:16:55 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Mon Jun 08 12:29:45 2020  
Response via : Initial Calibration



7.5.6  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:35:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

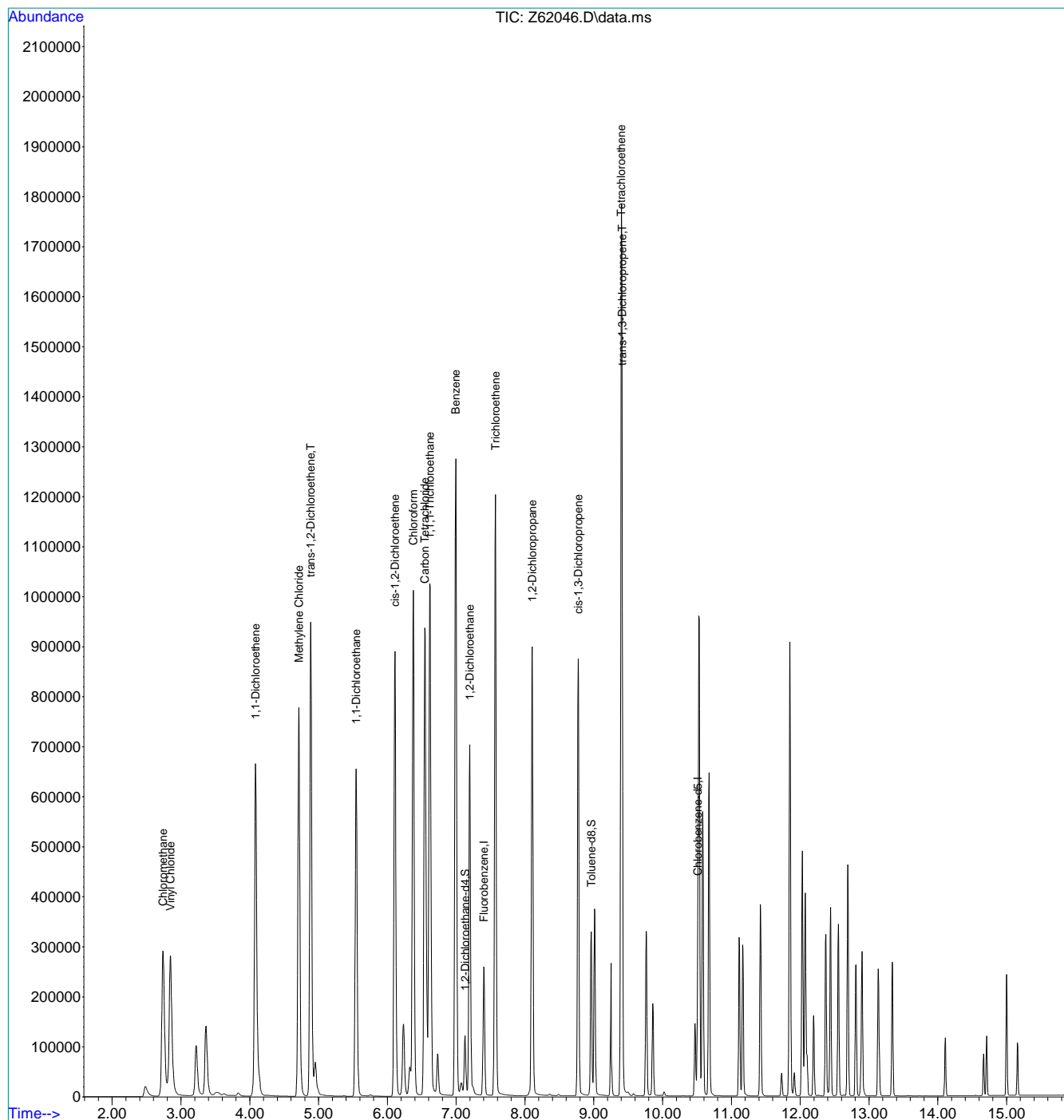
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2938110	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2256895m	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	963232	4.88	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	97.60%	
19) Toluene-d8	8.961	98	2784483	5.46	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	5627397	19.63	ppb		98
3) Chloromethane	2.737	50	5928894	21.65	ppb		100
4) 1,1-Dichloroethene	4.083	96	4008221	30.16	ppb		97
5) Methylene Chloride	4.713	84	5136689	22.86	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	5027216	24.57	ppb		100
7) 1,1-Dichloroethane	5.546	63	8782985	21.49	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	5293616	22.46	ppb		94
9) Chloroform	6.377	83	9822563	21.76	ppb		98
10) Carbon Tetrachloride	6.543	117	7287855	27.89	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	8989931	25.32	ppb		99
12) Benzene	6.994	78	17863042	21.32	ppb		99
14) 1,2-Dichloroethane	7.198	62	6887900	21.91	ppb		99
15) Trichloroethene	7.571	95	5698644	25.45	ppb		91
16) 1,2-Dichloropropane	8.105	63	4715015	21.35	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	6610083	24.59	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	5737207m	26.42	ppb		
21) Tetrachloroethene	9.399	166	5790603	25.42	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:35:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.5.7  
7

# Manual Integration Approval Summary

**Sample Number:** VZ2408-IC2408      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62046.D      **Analyst approved:** 09/03/20 13:54 Shanica O'Connor  
**Injection Time:** 09/03/20 12:18      **Supervisor approved:** 09/03/20 15:13 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
trans-1,3-Dichloropropene	10061-02-6		9.41	Missed peak
Chlorobenzene-D5	3114-55-4		10.51	Missed peak

7.5.7.1

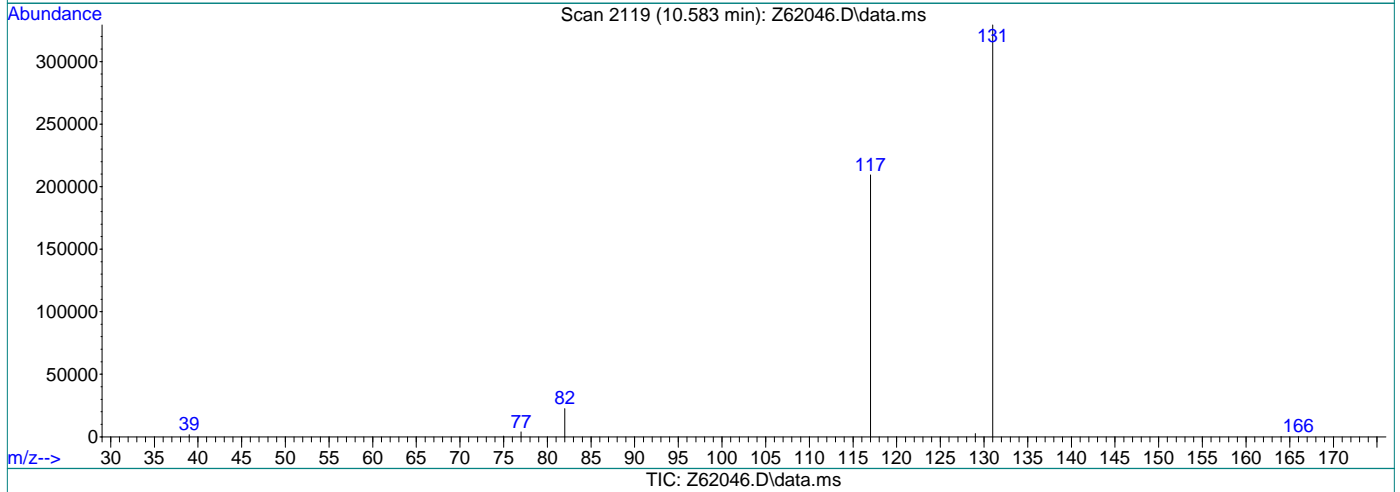
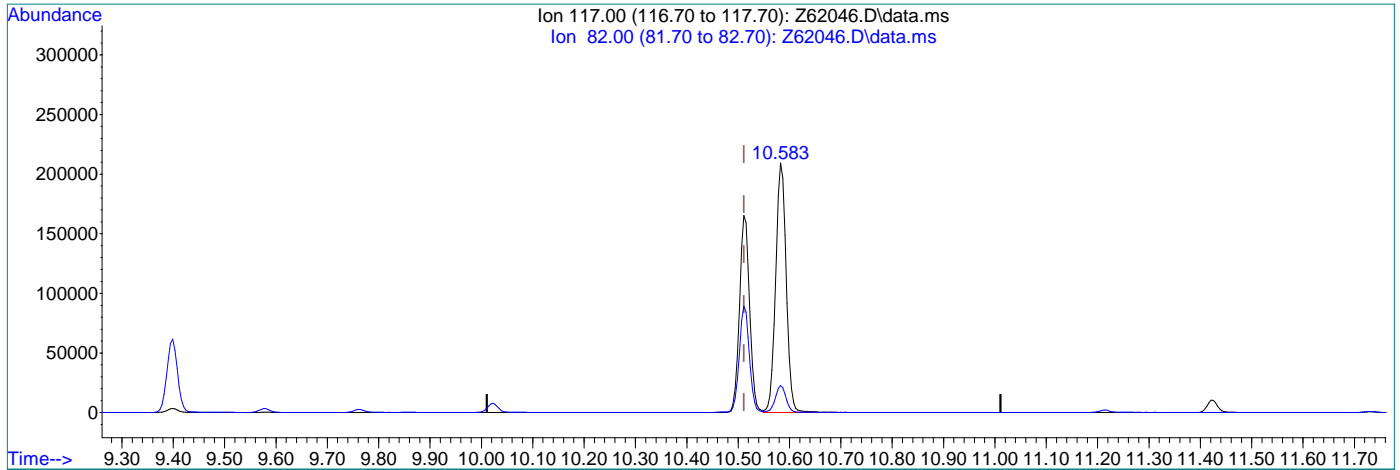
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.583min (+0.072) 5.00ppb  
 response 2971404

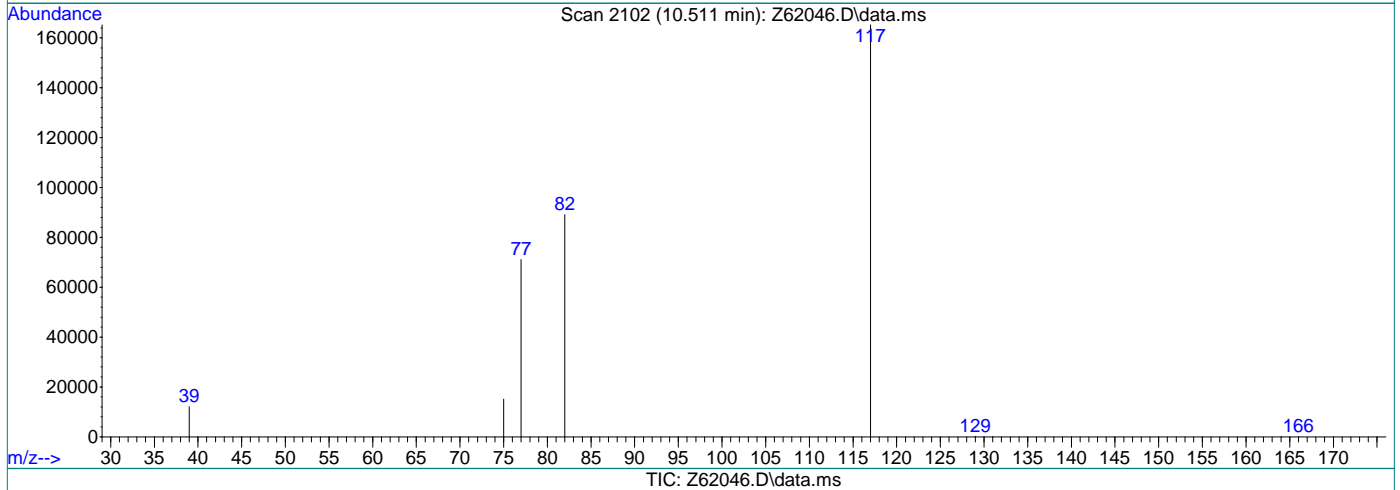
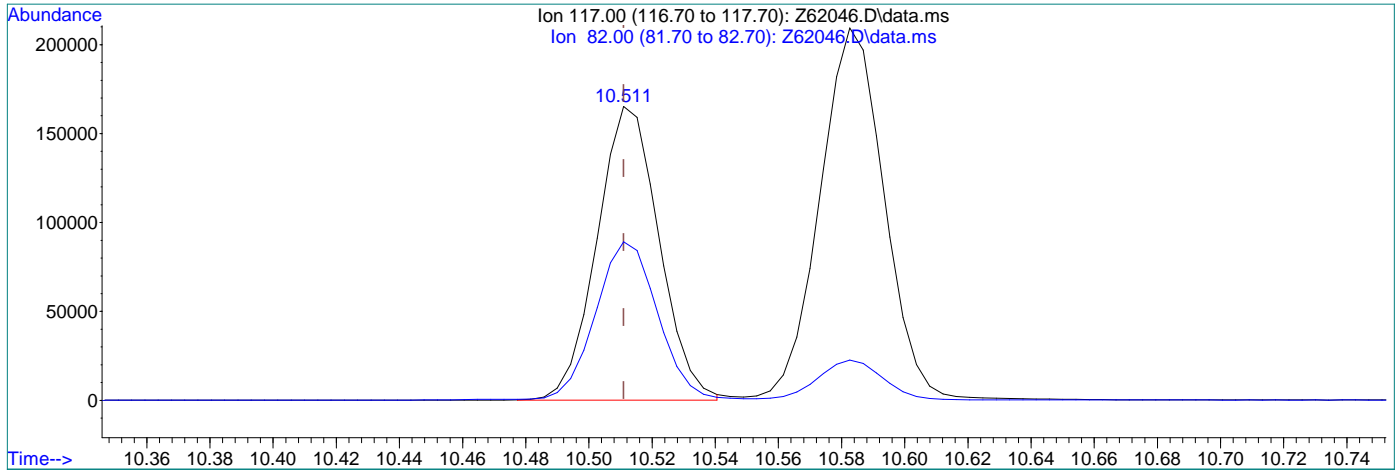
Ion	Exp%	Act%
117.00	100	100
82.00	52.30	10.84#
0.00	0.00	0.00
0.00	0.00	0.00

7.5.7.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.511min (+0.000) 5.00ppb m  
 response 2256895

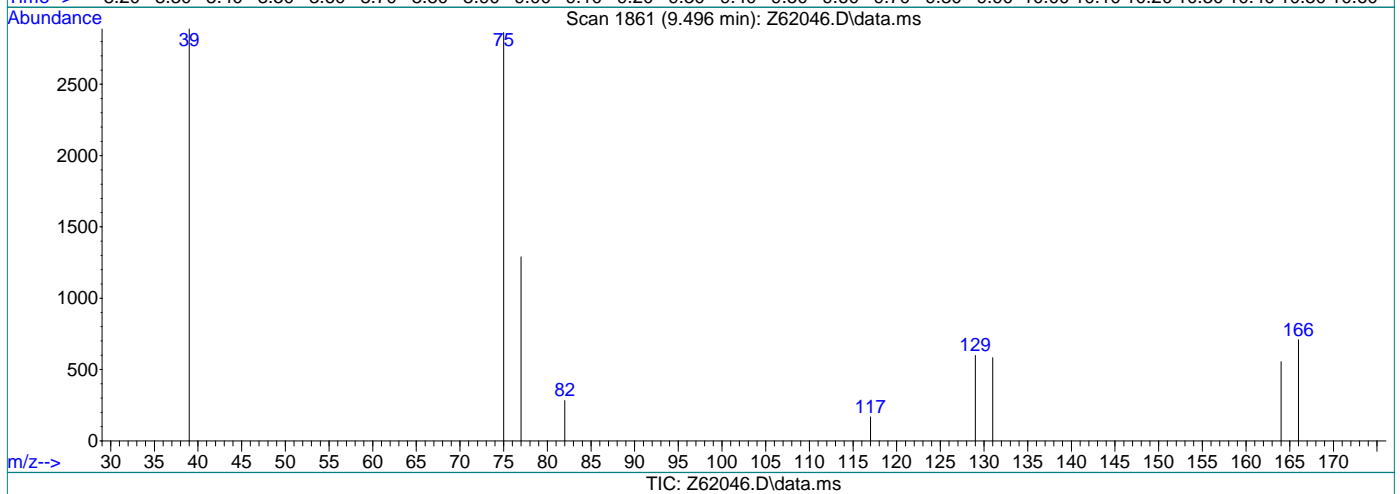
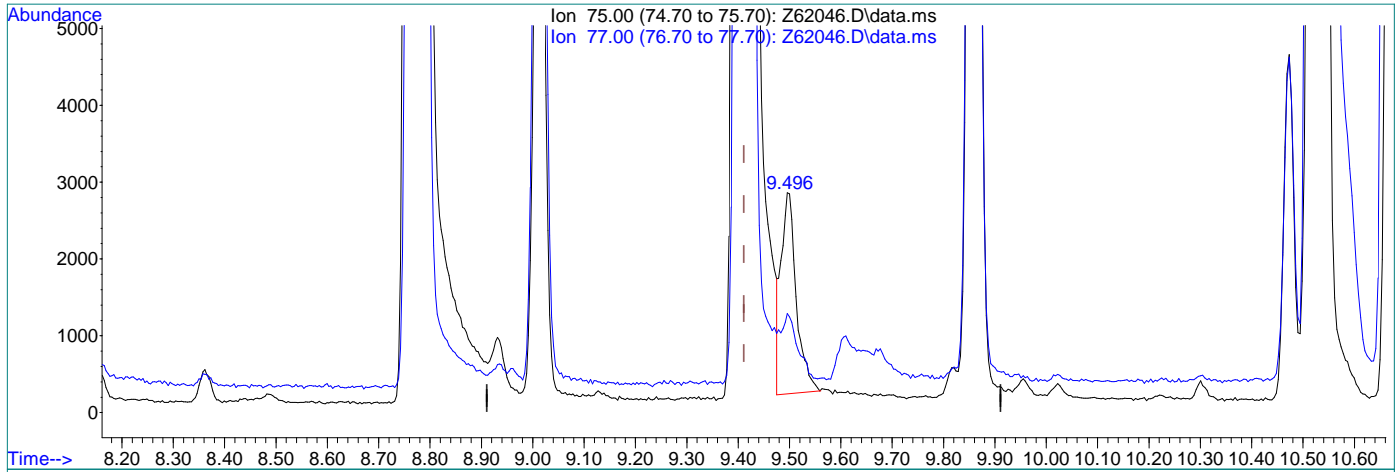
Ion	Exp%	Act%
117.00	100	100
82.00	52.30	14.27#
0.00	0.00	0.00
0.00	0.00	0.00

7.5.7.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.496min (+0.085) 0.25ppb

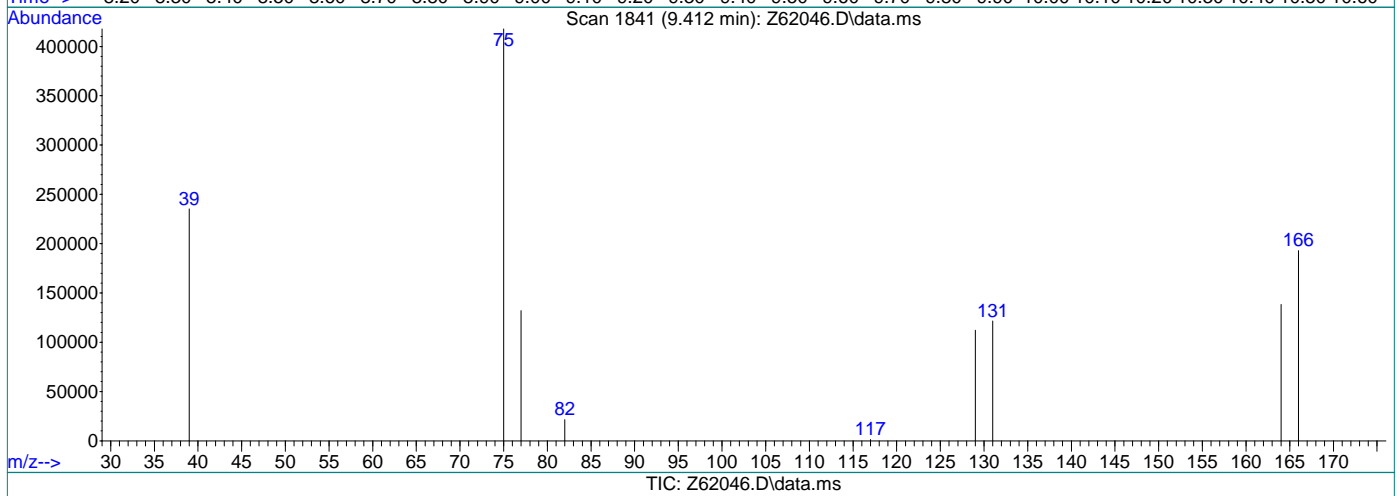
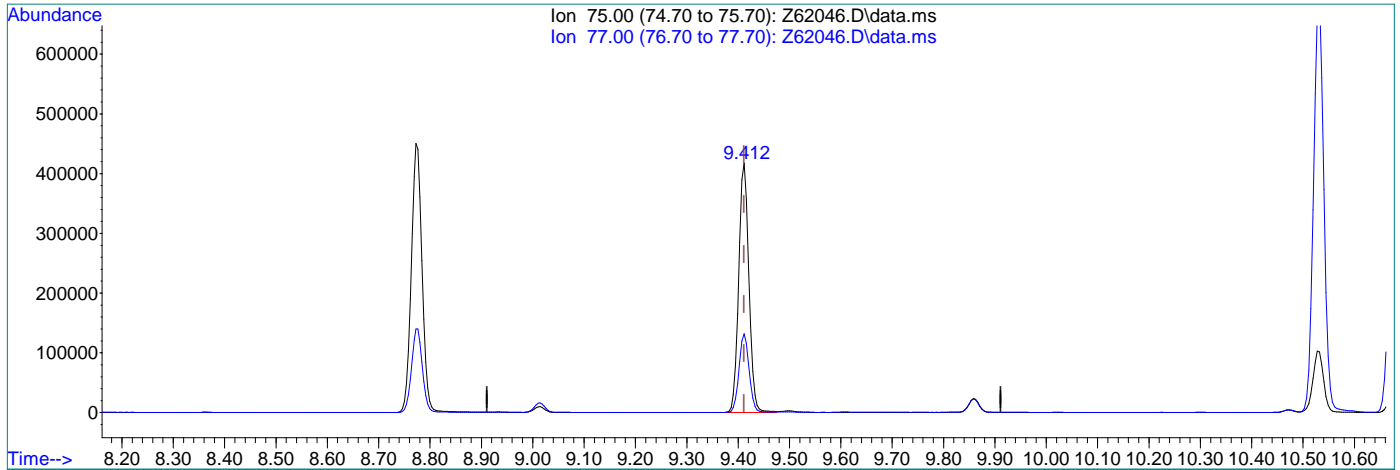
response 54281

Ion	Exp%	Act%
75.00	100	100
77.00	31.30	32.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.412min (+0.001) 26.42ppb m

response 5737207

Ion	Exp%	Act%
75.00	100	100
77.00	31.30	31.59
0.00	0.00	0.00
0.00	0.00	0.00

7.5.7.5  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2408\  
 Data File : Z62048.d  
 Acq On : 3 Sep 2020 12:57 pm  
 Operator : shanicao  
 Sample : cc2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 01:01:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2703421	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2067570	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	904830	5.17	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.40%	
19) Toluene-d8	8.961	98	2565152	4.99	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	2360196	9.69	ppb		100
3) Chloromethane	2.737	50	2554199	10.15	ppb		99
4) 1,1-Dichloroethene	4.083	96	1601477	9.39	ppb		99
5) Methylene Chloride	4.713	84	2264575	9.71	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	2053096	9.67	ppb		100
7) 1,1-Dichloroethane	5.546	63	3757114	9.67	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	2254117	9.69	ppb		99
9) Chloroform	6.377	83	4170126	9.65	ppb		99
10) Carbon Tetrachloride	6.543	117	2909066	9.58	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	3691887	9.68	ppb		100
12) Benzene	6.994	78	7934663	9.94	ppb		99
14) 1,2-Dichloroethane	7.198	62	3100443	10.81	ppb		100
15) Trichloroethene	7.564	95	2526004	10.12	ppb		99
16) 1,2-Dichloropropane	8.105	63	2106428	10.41	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	2664551	9.85	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	2239218	8.90	ppb		100
21) Tetrachloroethene	9.399	166	2435376	9.82	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

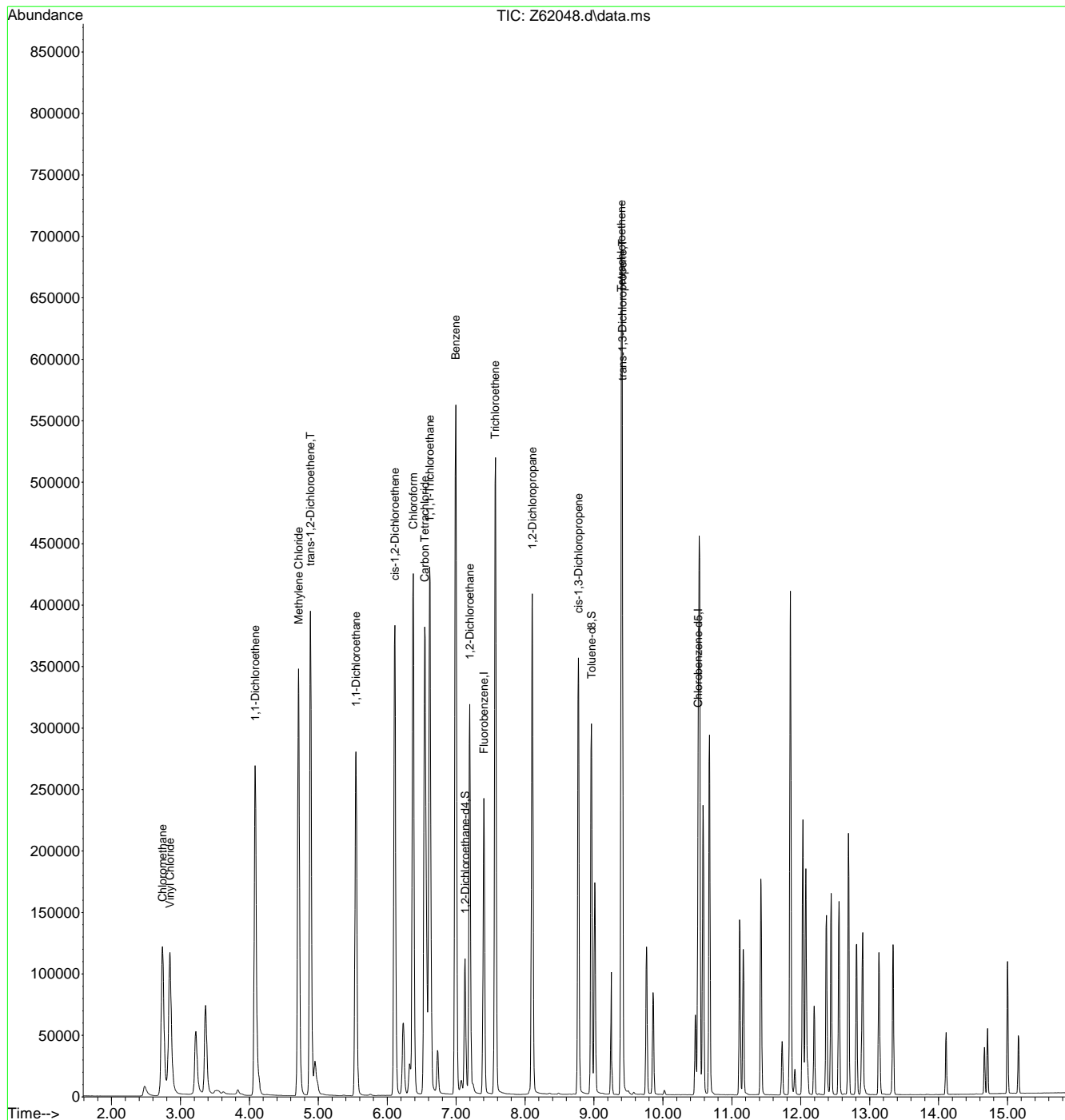
7.58  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2408\  
 Data File : Z62048.d  
 Acq On : 3 Sep 2020 12:57 pm  
 Operator : shanicao  
 Sample : cc2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 01:01:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.5.8  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62074.d  
 Acq On : 4 Sep 2020 8:57 am  
 Operator : shanicao  
 Sample : CC2408-5  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 01:08:15 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.394	96	2815075	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2127080	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	956752	5.25	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	105.00%		
19) Toluene-d8	8.957	98	2636308	4.98	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	2609737	10.26	ppb		100
3) Chloromethane	2.729	50	2790837	10.61	ppb		100
4) 1,1-Dichloroethene	4.079	96	1725523	9.70	ppb		99
5) Methylene Chloride	4.705	84	2424022	9.99	ppb		96
6) trans-1,2-Dichloroethene	4.879	96	2192175	9.90	ppb		96
7) 1,1-Dichloroethane	5.539	63	3974168	9.82	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	2352379	9.71	ppb		98
9) Chloroform	6.371	83	4390850	9.76	ppb		100
10) Carbon Tetrachloride	6.537	117	2973735	9.42	ppb		100
11) 1,1,1-Trichloroethane	6.608	97	3828124	9.64	ppb		99
12) Benzene	6.987	78	8089584	9.73	ppb		98
14) 1,2-Dichloroethane	7.191	62	3319599	11.12	ppb		99
15) Trichloroethene	7.564	95	2488599	9.57	ppb		93
16) 1,2-Dichloropropane	8.101	63	2151044	10.21	ppb		98
17) cis-1,3-Dichloropropene	8.769	75	2862257	10.13	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	2478162	9.57	ppb		100
21) Tetrachloroethene	9.394	166	2483509	9.74	ppb		98
-----							

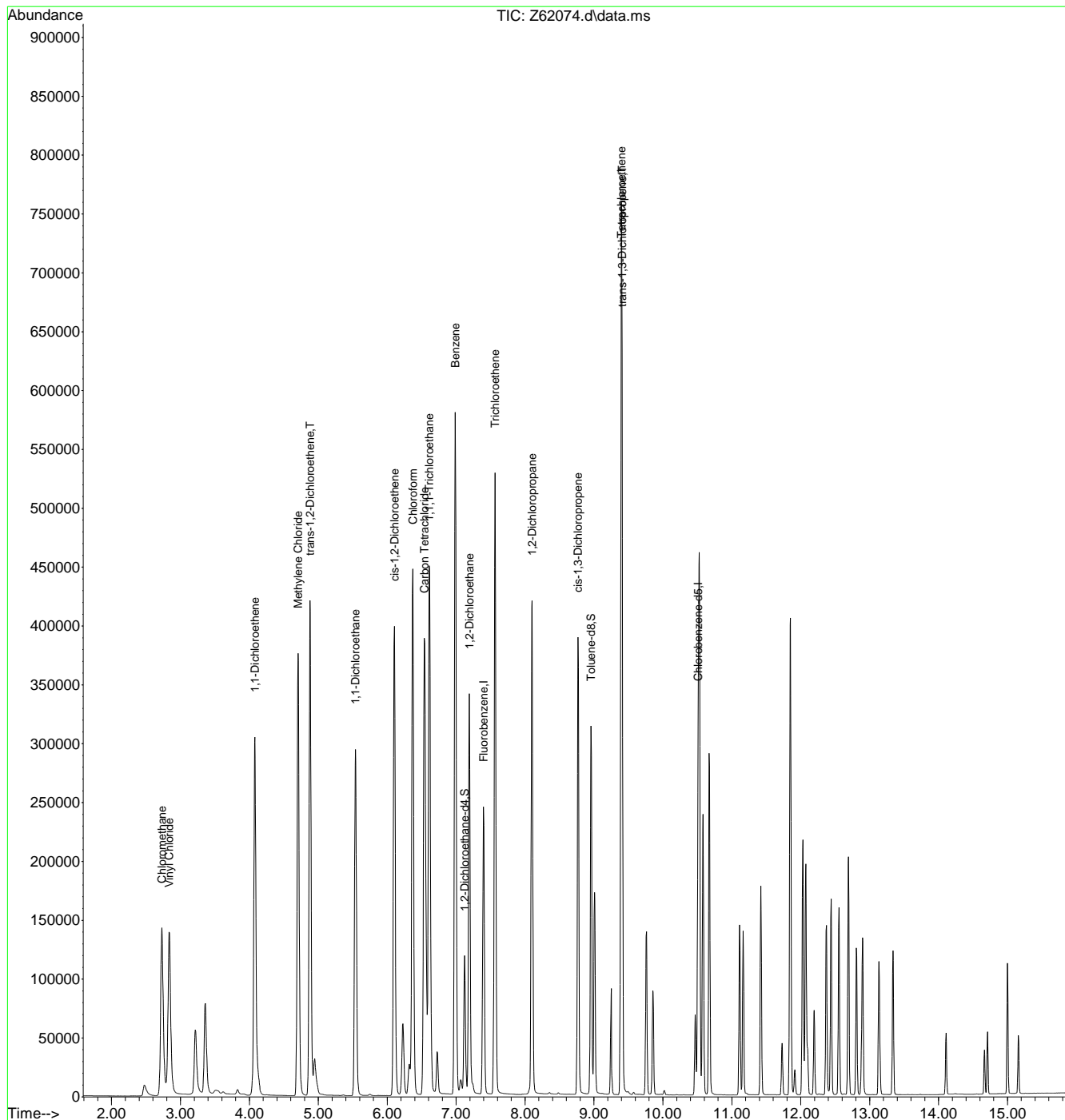
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.59  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2409\  
 Data File : Z62074.d  
 Acq On : 4 Sep 2020 8:57 am  
 Operator : shanicao  
 Sample : CC2408-5  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 01:08:15 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.5.9  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090420\  
 Data File : Z62100.D  
 Acq On : 4 Sep 2020 7:51 pm  
 Operator : shanicao  
 Sample : ECC2408-5  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 08 12:33:43 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2077882	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1582551	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	797692	5.92	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	118.40%	
19) Toluene-d8	8.961	98	1903866	4.83	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	2247681	11.86	ppb		100
3) Chloromethane	2.737	50	2251165	11.52	ppb		99
4) 1,1-Dichloroethene	4.083	96	1327110	10.08	ppb		94
5) Methylene Chloride	4.713	84	1806224	10.08	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	1646147	10.06	ppb		96
7) 1,1-Dichloroethane	5.542	63	3119022	10.44	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	1713387	9.58	ppb		90
9) Chloroform	6.371	83	3400356	10.24	ppb		100
10) Carbon Tetrachloride	6.543	117	2290003	9.79	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	2972349	10.10	ppb		100
12) Benzene	6.994	78	6122154	9.98	ppb		99
14) 1,2-Dichloroethane	7.191	62	2629082	11.93	ppb		100
15) Trichloroethene	7.564	95	1891838	9.86	ppb		99
16) 1,2-Dichloropropane	8.101	63	1633582	10.50	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	1931558	9.35	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	1717548	8.92	ppb		100
21) Tetrachloroethene	9.399	166	1798016	9.49	ppb		100

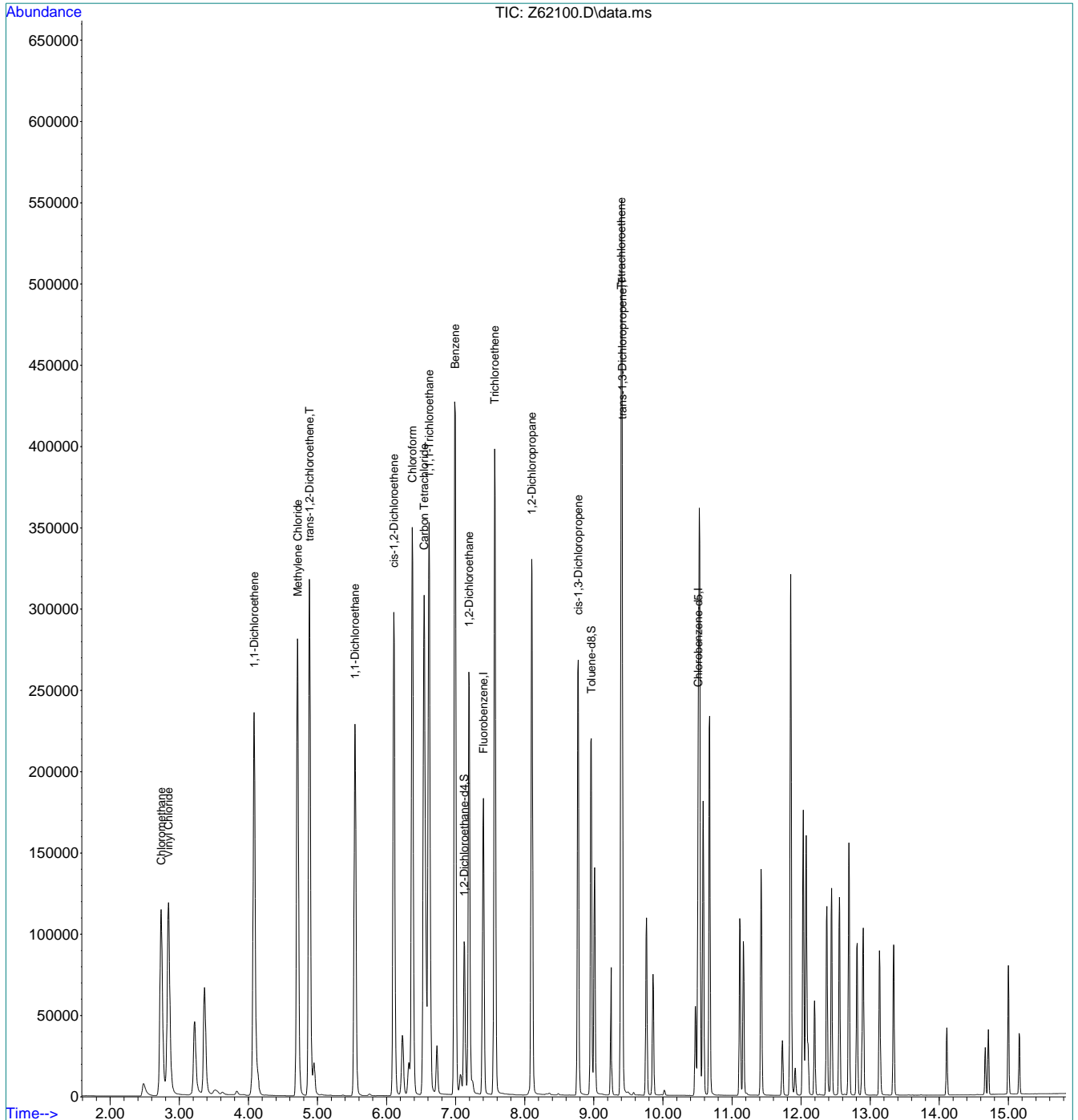
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.5.10  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090420\  
 Data File : Z62100.D  
 Acq On : 4 Sep 2020 7:51 pm  
 Operator : shanicao  
 Sample : ECC2408-5  
 Misc : MS47134,VZ2409,,,,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 08 12:33:43 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/03/20		METHOD FILE(s): SimCl		BFB: V25942A		PH LOT: 1 to 12 pH lot #. 200814					
COLUMN TYPE: RTX-VMS		METHOD FILE(s): simcl090320.m		ICAL/CC: VS0934, VS0792		0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD		CALIB. DATE: 09/03/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0907, VS0793		Processed BY: SO/JF					
PURGE PRESSURE: 9.7psi		BFB Response: 38738678		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL		RUN ID: VZ2408				SO					
ANALYST: Shanika O.						DATE VERIFIED: 09/03/20					
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62037	BLK	-	-	w	1	acq_simcl0214		-	-	-	✓
Z62038	BLK	-	-	w	2	acq_simcl0214		-	-	-	✓
Z62039	BFB	-	-	w	100	bfb		-	-	-	✓ Passed Autofind
Z62040	IC2408-1	-	-	w	1	acq_simcl0214		-	-	-	1µL→100mL ✓
Z62041	IC2408-2	-	-	w	2	acq_simcl0214		-	-	-	5µL→100mL ✓
Z62042	IC2408-3	-	-	w	3	acq_simcl0214		-	-	-	10µL→50mL ✓
Z62043	IC2408-4	-	-	w	4	acq_simcl0214		-	-	-	25µL→50mL ✓
Z62044	IC2408-5	-	-	w	5	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62045	IC2408-6	-	-	w	6	acq_simcl0214		-	-	-	75µL→50mL ✓
Z62046	IC2408-7	-	-	w	7	acq_simcl0214	#18,20(MP)	-	-	-	100µL→50mL ✓
Z62047	BLK	-	-	w	8	acq_simcl0214		-	-	-	✓
Z62048	ICV2408-5	-	-	w	9	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62049	BS	-	-	w	10	acq_simcl0214		-	-	-	✓
Z62050	MB	-	-	w	11	acq_simcl0214		-	-	-	ND✓
Z62051	FA78405-2MS	1X	2	w	12	acq_simcl0214		1	NO	-	20µL→40mL ✓
Z62052	FA78405-2MSD	1X	2	w	13	acq_simcl0214		1	NO	-	20µL→40mL ✓
Z62053	FA78153-5	1X	3	w	14	acq_simcl0214		1	NO	-	✓
Z62054	FA78405-1	1X	1	w	15	acq_simcl0214		1	NO	-	ND✓
Z62055	FA78405-2	1X	1	w	16	acq_simcl0214		1	NO	-	✓
Z62056	FA78405-3	1X	1	w	17	acq_simcl0214		1	NO	-	ND✓
Z62057	FA78406-1	1X	1	w	18	acq_simcl0214		1	NO	-	✓
Z62058	FA78398-1	1X	2	w	19	acq_simcl0214		1	NO	-	ND✓
Z62059	FA78398-2	1X	1	w	20	acq_simcl0214		1	NO	-	✓
Z62060	FA78398-3	1X	1	w	21	acq_simcl0214		1	NO	-	✓
Z62061	FA78398-4	1X	1	w	22	acq_simcl0214		1	NO	-	ND✓
Z62062	FA78398-5	1X	1	w	23	acq_simcl0214		1	NO	-	✓
Z62063	FA78398-6	1X	1	w	24	acq_simcl0214		1	NO	-	✓
Z62064	FA78398-7	1X	1	w	25	acq_simcl0214		1	NO	-	✓
Z62065	FA78398-8	1X	1	w	26	acq_simcl0214		1	NO	-	✓
Z62066	FA78398-9	1X	1	w	27	acq_simcl0214		1	NO	-	✓
Z62067	FA78398-10	1X	1	w	28	acq_simcl0214		1	NO	-	✓
Z62068	ECC2408-5	-	-	w	29	acq_simcl0214		-	-	-	50µL→50mL ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005. Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration.

Analyst's Signature: *Shanika O.*

DATE: 09/04/20		METHOD(S):* SimCl		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814					
COLUMN TYPE: RTX-VMS		METHOD FILE(S): simcl090320.m		ICAL/CC: VS0934, VS0792		0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD		CALIB. DATE: 09/03/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0907, VS0793		Processed BY: SO/JF					
PURGE PRESSURE: 9.7psi		BFB Response: 21392364		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL		RUN ID: VZ2409				SO					
ANALYST: Shanika O.						DATE VERIFIED: 09/08/20					
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62069	BLK	-	-	W	1	acq_simcl0214		-	-	-	✓
Z62070	BLK	-	-	W	2	acq_simcl0214		-	-	-	✓
Z62071	BFB	-	-	W	100	bfb		-	-	-	☒ Passed Autofind
Z62072	BFB	-	-	W	100	bfb		-	-	-	☒ Passed Autofind
Z62073	BFB	-	-	W	100	bfb		-	-	-	✓ Passed Autofind
Z62074	CC2408-5	-	-	W	1	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62075	BS	-	-	W	2	acq_simcl0214		-	-	-	20µL→40mL ✓
Z62076	MB	-	-	W	3	acq_simcl0214		-	-	-	ND ✓
Z62077	FA78398-2	1X	3	W	4	acq_simcl0214		-	-	1X	BS low for 1,3-DCPT
Z62078	FA78398-1	1X	1	W	5	acq_simcl0214		-	-	1X	BS low for 1,3-DCPT
Z62079	FA78398-3	1X	2	W	6	acq_simcl0214		-	-	1X	BS low for 1,3-DCPT
Z62080	FA78398-2MS	10X	3	W	7	acq_simcl0214		-	-		20µL→40mL ✓
Z62081	FA78398-2MSD	10X	3	W	8	acq_simcl0214		-	-		20µL→40mL ✓
Z62082	BS	-	-	W	9	acq_simcl0214		-	-	-	20µL→40mL ☒
Z62083	FA78405-1	1X	2	W	10	acq_simcl0214		-	-	-	ND ✓
Z62084	FA78405-2	1X	3	W	11	acq_simcl0214		-	-		✓
Z62085	FA78405-3	1X	2	W	12	acq_simcl0214		-	-		ND ✓
Z62086	FA78406-1	1X	2	W	13	acq_simcl0214		-	-		ND ✓
Z62087	FA78442-1	1X	1	W	14	acq_simcl0214		-	-		✓
Z62088	FA78442-2	1X	1	W	15	acq_simcl0214		-	-		✓
Z62089	FA78442-3	1X	1	W	16	acq_simcl0214		-	-		ND ✓
Z62090	FA78442-3MS	10X	1	W	17	acq_simcl0215		-	-		20µL→40mL ✓
Z62091	FA78442-3MSD	10X	1	W	18	acq_simcl0216		-	-		20µL→40mL ✓
Z62092	FA78442-4	1X	1	W	19	acq_simcl0215		-	-		✓
Z62093	FA78442-5	1X	1	W	20	acq_simcl0216		-	-		✓
Z62094	FA78442-6	1X	1	W	21	acq_simcl0217		-	-		✓
Z62095	FA78442-7	1X	1	W	22	acq_simcl0218		-	-		✓
Z62096	FA78442-8	1X	1	W	23	acq_simcl0219	Power outage; sequence restarted.	-	-	1X	Purged Air
Z62097	FA78442-9	1X	1	W	24	acq_simcl0220		-	-	1X	Purged Air
Z62098	FA78442-10	1X	1	W	25	acq_simcl0221		-	-	1X	Purged Air
Z62099	BLK	-	-	W	26	acq_simcl0222		-	-	-	
Z62100	ECC2408-5	-	-	W	27			-	-	-	50µL→50mL ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration.

VZ2409M 040918

Page 1 of 1

Analyst's Signature: *Shanika O.*



The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWMP - OUCTP Upper 180)

SGS Job Number: FA78443

Sampling Date: 09/01/20



Report to:

Ahtna Global, LLC  
9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
dlieberman@ahtna.net; mfisher@ahtna.net;  
hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: **76**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA78443

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP Upper 180)

Sample Number	Collected		Matrix			Client Sample ID	
	Date	Time By	Received	Code	Type		
FA78443-1	09/01/20	13:40	THLH	09/03/20	AQ	Ground Water	2036W0BW094F
FA78443-2	09/01/20	13:55	THLH	09/03/20	AQ	Ground Water	2036W0BW096C

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78443

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/16/2020 2:25:49

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/01/2020 and were received at SGS North America Inc - Orlando on 09/03/2020 properly preserved, at 2.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA78443. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ

**Batch ID:** VZ2410

All samples were analyzed within the recommended method holding time.

Sample(s) FA78445-21MS, FA78445-21MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA78443-2 have surrogates outside control limits.

FA78443-1 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78443-2 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits; however, sample is ND.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)



## Summary of Hits

**Job Number:** FA78443  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/01/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

**FA78443-1**      **2036W0BW094F**

Carbon Tetrachloride	4.0	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78443-2**      **2036W0BW096C**

No hits reported in this sample.

Sample Results

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Report of Analysis

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SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW094F	
<b>Lab Sample ID:</b> FA78443-1	<b>Date Sampled:</b> 09/01/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/03/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62128.D	1	09/05/20 19:15	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	4.0	0.50	0.25	0.10	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
17060-07-0	1,2-Dichloroethane-D4	125% <sup>a</sup>		74-125%			
2037-26-5	Toluene-D8	99%		88-111%			

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.1  
4

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW096C	
<b>Lab Sample ID:</b> FA78443-2	<b>Date Sampled:</b> 09/01/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/03/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62129.D	1	09/05/20 19:39	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
17060-07-0	1,2-Dichloroethane-D4	126% <sup>a</sup>		74-125%			
2037-26-5	Toluene-D8	97%		88-111%			

(a) Outside DOD QSM control limits; however, sample is ND.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.2  
4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

CADS 2029  
Ahtna

CHAIN OF CUSTODY

WATER / SOIL

FA78443

1 of 1

Chain of Custody #: 0130

Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:										Analysis Requested			Lab Sample Receipt			
Project Location: Former Fort Ord, CA			Sampler/s: J. Huang / L. Henderson							VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery			
Project Name: FFO GWMP			Report To: Derek Lieberman										Group #:			
Project Number: 21065.000.01.0000			E-Mail: dlieberman@ahna.net										Custody Seal:			
Sampling Event/Site: 362020			Laboratory: SGS										Temp (°C):			
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles						Notes				
	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH		NaHSO <sub>4</sub>	None	Other	
1	2036WBW094F	9/1/20	1340	X		3	3								X	
	<del>2036WBW094F</del>															
2	2036WBW094C	9/1/20	1355	X		3	3								X	

Turnaround Time: Standard  3-5 Day Rush \_\_\_\_\_ 48 Hour Rush \_\_\_\_\_ 24 Hour Rush \_\_\_\_\_

Shipment: Method: \_\_\_\_\_ Tracking ID: \_\_\_\_\_

Comments: OUCTP-Upp 180

INITIALS/STAMP: MK BB  
RECEIVED

Chain of Custody Tracking:

Relinquished By Sampler:	Date/Time: 09/01/20 - 1540	Received By:	Date/Time: 9/1/20 1640
Relinquished By:	Date/Time: 9/1/20 1045	Received By:	Date/Time: 9/1/20 1045
Relinquished By: Lee Bata	Date/Time: 9/1/20 1500	Received By Laboratory: FEDEX	Date/Time: 9/1/20 1500

9/3/20 945 2.8

FA78443: Chain of Custody

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## SGS Sample Receipt Summary

Job Number: FA78443

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP Upper 180

Date / Time Received: 9/3/2020 9:45:00 AM

Delivery Method: FedEx

Airbill #s: 771431903999

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Sample Information**

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 230315 pH 10-12 219813A Other: (Specify) \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: PETERH

Date: 9/3/2020 9:45:00 AM

Reviewer: PH

Date: 9/6/2020

FA78443: Chain of Custody

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78443  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/01/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VZ2410	SW846 8260B BY SIM						
VZ2410-BS	56-23-5	Carbon Tetrachloride	BSP	REC	76	%	72-136
VZ2410-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	112	%	81-118
VZ2410-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	89-112
FA78445-21MS*	56-23-5	Carbon Tetrachloride	MS	REC	87	%	72-136
FA78445-21MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	124 <sup>a</sup>	%	81-118
FA78445-21MS*	2037-26-5	Toluene-D8	MS	SURR	94	%	89-112
FA78445-21MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	84	%	72-136
FA78445-21MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	4	%	20
FA78445-21MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	123 <sup>a</sup>	%	81-118
FA78445-21MSD*	2037-26-5	Toluene-D8	MSD	SURR	95	%	89-112
VZ2410-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	115	%	81-118
VZ2410-MB	2037-26-5	Toluene-D8	MB	SURR	102	%	89-112
FA78443-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	125 <sup>a</sup>	%	81-118
FA78443-1	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78443-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	126 <sup>b</sup>	%	81-118
FA78443-2	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112

- (a) Outside DOD QSM control limits.
- (b) Outside DOD QSM control limits; however, sample is ND.

\* Sample used for QC is not from job FA78443

5.2  
5



## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

## Method Blank Summary

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2410-MB	Z62110.D	1	09/05/20	SP	n/a	n/a	VZ2410

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78443-1, FA78443-2

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	115%	74-125%
2037-26-5	Toluene-D8	102%	88-111%

# Blank Spike Summary

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2410-BS	Z62109.D	1	09/05/20	SP	n/a	n/a	VZ2410

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78443-1, FA78443-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	3.8	76	76-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	112%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78445-21MS	Z62130.D	10	09/05/20	SP	n/a	n/a	VZ2410
FA78445-21MSD	Z62131.D	10	09/05/20	SP	n/a	n/a	VZ2410
FA78445-21	Z62112.D	1	09/05/20	SP	n/a	n/a	VZ2410

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78443-1, FA78443-2

CAS No.	Compound	FA78445-21 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	50	43.6	87	50	41.9	84	4	76-136/23

CAS No.	Surrogate Recoveries	MS	MSD	FA78445-21	Limits
17060-07-0	1,2-Dichloroethane-D4	124% <sup>a</sup>	123% <sup>a</sup>	116%	74-125%
2037-26-5	Toluene-D8	94%	95%	101%	88-111%

(a) Outside DOD QSM control limits.

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2408-BFB	<b>Injection Date:</b> 09/03/20
<b>Lab File ID:</b> Z62039.D	<b>Injection Time:</b> 09:29
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	66488	21.9	Pass
75	30.0 - 60.0% of mass 95	162304	53.5	Pass
95	Base peak, 100% relative abundance	303153	100.0	Pass
96	5.0 - 9.0% of mass 95	21238	7.01	Pass
173	Less than 2.0% of mass 174	1222	0.40 (0.52) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	235477	77.7	Pass
175	5.0 - 9.0% of mass 174	16056	5.30 (6.82) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	230208	75.9 (97.8) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	15659	5.17 (6.80) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2408-IC2408	Z62040.D	09/03/20	09:52	00:23	Initial cal 1
VZ2408-IC2408	Z62041.D	09/03/20	10:11	00:42	Initial cal 2
VZ2408-IC2408	Z62042.D	09/03/20	10:59	01:30	Initial cal 3
VZ2408-IC2408	Z62043.D	09/03/20	11:18	01:49	Initial cal 4
VZ2408-ICC2408	Z62044.D	09/03/20	11:40	02:11	Initial cal 5
VZ2408-IC2408	Z62045.D	09/03/20	11:59	02:30	Initial cal 6
VZ2408-IC2408	Z62046.D	09/03/20	12:18	02:49	Initial cal 7
VZ2408-ICV2408	Z62048.D	09/03/20	12:57	03:28	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2410-BFB	<b>Injection Date:</b> 09/05/20
<b>Lab File ID:</b> Z62107.D	<b>Injection Time:</b> 10:58
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	36405	25.6	Pass
75	30.0 - 60.0% of mass 95	80739	56.7	Pass
95	Base peak, 100% relative abundance	142272	100.0	Pass
96	5.0 - 9.0% of mass 95	11246	7.90	Pass
173	Less than 2.0% of mass 174	660	0.46 (0.58) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	113523	79.8	Pass
175	5.0 - 9.0% of mass 174	7581	5.33 (6.68) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	109995	77.3 (96.9) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	7245	5.09 (6.59) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2410-CC2408	Z62108.D	09/05/20	11:24	00:26	Continuing cal 5
VZ2410-BS	Z62109.D	09/05/20	11:47	00:49	Blank Spike
VZ2410-MB	Z62110.D	09/05/20	12:11	01:13	Method Blank
FA78445-21	Z62112.D	09/05/20	12:58	02:00	(used for QC only; not part of job FA78443)
ZZZZZZ	Z62113.D	09/05/20	13:22	02:24	(unrelated sample)
ZZZZZZ	Z62114.D	09/05/20	13:46	02:48	(unrelated sample)
ZZZZZZ	Z62115.D	09/05/20	14:09	03:11	(unrelated sample)
ZZZZZZ	Z62116.D	09/05/20	14:33	03:35	(unrelated sample)
ZZZZZZ	Z62117.D	09/05/20	14:56	03:58	(unrelated sample)
ZZZZZZ	Z62118.D	09/05/20	15:19	04:21	(unrelated sample)
ZZZZZZ	Z62119.D	09/05/20	15:42	04:44	(unrelated sample)
ZZZZZZ	Z62120.D	09/05/20	16:06	05:08	(unrelated sample)
ZZZZZZ	Z62121.D	09/05/20	16:30	05:32	(unrelated sample)
ZZZZZZ	Z62122.D	09/05/20	16:54	05:56	(unrelated sample)
ZZZZZZ	Z62123.D	09/05/20	17:17	06:19	(unrelated sample)
ZZZZZZ	Z62124.D	09/05/20	17:41	06:43	(unrelated sample)
ZZZZZZ	Z62125.D	09/05/20	18:05	07:07	(unrelated sample)
ZZZZZZ	Z62126.D	09/05/20	18:28	07:30	(unrelated sample)
ZZZZZZ	Z62127.D	09/05/20	18:52	07:54	(unrelated sample)
FA78443-1	Z62128.D	09/05/20	19:15	08:17	2036W0BW094F
FA78443-2	Z62129.D	09/05/20	19:39	08:41	2036W0BW096C
FA78445-21MS	Z62130.D	09/05/20	20:03	09:05	Matrix Spike
FA78445-21MSD	Z62131.D	09/05/20	20:26	09:28	Matrix Spike Duplicate
VZ2410-ECC2408	Z62132.D	09/05/20	20:50	09:52	Ending cal 5

# Internal Standard Area Summary

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2410-CC2408	<b>Injection Date:</b> 09/05/20
<b>Lab File ID:</b> Z62108.D	<b>Injection Time:</b> 11:24
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	3260477	7.40	2497954	10.51
Check Std <sup>b</sup>	2429349	7.40	1846856	10.51
Upper Limit <sup>c</sup>	4858698	7.57	3693712	10.68
Lower Limit <sup>d</sup>	1214675	7.23	923428	10.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ2410-BS	2400264	7.40	1812082	10.51
VZ2410-MB	2061859	7.40	1514302	10.51
FA78445-21	1759736	7.40	1292095	10.51
ZZZZZZ	1747776	7.40	1291830	10.51
ZZZZZZ	1658158	7.40	1216545	10.51
ZZZZZZ	1701240	7.40	1253079	10.51
ZZZZZZ	1598021	7.40	1178047	10.51
ZZZZZZ	1552453	7.40	1149038	10.51
ZZZZZZ	1581623	7.40	1170462	10.51
ZZZZZZ	1601310	7.40	1178090	10.51
ZZZZZZ	1512464	7.40	1110282	10.51
ZZZZZZ	1566259	7.40	1152433	10.51
ZZZZZZ	1556755	7.40	1151341	10.51
ZZZZZZ	1547563	7.40	1141858	10.51
ZZZZZZ	1461015	7.40	1085750	10.51
ZZZZZZ	1488958	7.40	1102700	10.51
ZZZZZZ	1494642	7.40	1123773	10.51
ZZZZZZ	1618038	7.40	1197347	10.51
FA78443-1	1581721	7.40	1166335	10.51
FA78443-2	1589528	7.40	1193002	10.51
FA78445-21MS	1635582	7.40	1263864	10.51
FA78445-21MSD	1716700	7.40	1322904	10.51
VZ2410-ECC2408	1790216	7.40	1389196	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2408-ICC2408 Z62044.D 09/03/20 11:40
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

6.5.1  
6

# Surrogate Recovery Summary

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA78443-1	Z62128.D	125 <sup>a</sup>	99
FA78443-2	Z62129.D	126* <sup>b</sup>	97
FA78445-21MS	Z62130.D	124 <sup>a</sup>	94
FA78445-21MSD	Z62131.D	123 <sup>a</sup>	95
VZ2410-BS	Z62109.D	112	99
VZ2410-MB	Z62110.D	115	102

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

- (a) Outside DOD QSM control limits.
- (b) Outside DOD QSM control limits; however, sample is ND.



# Initial Calibration Summary

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICC2408  
**Lab FileID:** Z62044.D

Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Calibration Files

1 =Z62040.D 2 =Z62041.D 3 =Z62042.D 4 =Z62043.D  
 5 =Z62044.D 6 =Z62045.D 7 =Z62046.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.794	0.463	0.459	0.429	0.461	0.457	0.479	0.506	25.30
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.42534 *A + 0.01287 *A^2								
3) Chloromethane	0.878	0.479	0.498	0.469	0.461	0.475	0.504	0.538	28.07
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.42874 *A + 0.01805 *A^2								
4) 1,1-Dichloroethen	0.434	0.305	0.289	0.312	0.324	0.320	0.341	0.332	14.33
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
	Response Ratio = 0.00000 + 0.29464 *A + 0.01101 *A^2								
5) Methylene Chlorid	0.786	0.535	0.450	0.429	0.419	0.437	0.509	0.509	27.83
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986								
	Response Ratio = 0.00000 + 0.43058 *A + 0.00030 *A^2								
6)T trans-1,2-Dichlor	0.543	0.360	0.360	0.383	0.402	0.400	0.428	0.411	15.37
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.36221 *A + 0.01572 *A^2								
7) 1,1-Dichloroethan	0.923	0.631	0.638	0.678	0.710	0.705	0.747	0.719	13.74
8) cis-1,2-Dichloroe	0.531	0.387	0.385	0.408	0.427	0.424	0.450	0.430	11.68
9) Chloroform	1.017	0.698	0.713	0.753	0.791	0.785	0.836	0.799	13.39
10) Carbon Tetrachlor	0.756	0.480	0.510	0.534	0.578	0.580	0.620	0.580	15.70
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
	Response Ratio = 0.00000 + 0.51032 *A + 0.02676 *A^2								
11) 1,1,1-Trichloroet	0.950	0.631	0.634	0.684	0.724	0.721	0.765	0.730	14.91
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
	Response Ratio = 0.00000 + 0.65351 *A + 0.02692 *A^2								
12) Benzene	1.892	1.310	1.314	1.401	1.450	1.448	1.520	1.476	13.44
13)S 1,2-Dichloroethan	0.313	0.324	0.323	0.328	0.323	0.329	0.328	0.324	1.75
14) 1,2-Dichloroethan	0.493	0.471	0.504	0.541	0.554	0.562	0.586	0.530	7.85
15) Trichloroethene	0.593	0.397	0.411	0.439	0.453	0.456	0.485	0.462	14.03
16) 1,2-Dichloropropa	0.412	0.336	0.339	0.369	0.381	0.383	0.401	0.374	7.75
17) cis-1,3-Dichlorop	0.435	0.292	0.441	0.446	0.513	0.531	0.562	0.460	19.38
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.43921 *A + 0.03094 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.248	1.258	1.248	1.247	1.236	1.239	1.234	1.244	0.69
20)T trans-1,3-Dichlor	0.399	0.287	0.461	0.474	0.566	0.597	0.636	0.489	24.91
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9956								

6.7.1  
6

# Initial Calibration Summary

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICC2408  
**Lab FileID:** Z62044.D

---

$$\text{Response Ratio} = 0.00000 + 0.60851 *A$$

21) Tetrachloroethene 0.868 0.562 0.546 0.585 0.608 0.614 0.641 0.632 17.25  
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999  
Response Ratio = 0.00000 + 0.56157 \*A + 0.01953 \*A^2

-----  
(#) = Out of Range

SIMCL090320.M

Fri Sep 04 14:05:20 2020

6.7.1

6

## Initial Calibration Verification

Job Number: FA78443  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2408-ICV2408  
 Lab FileID: Z62048.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\Je...-2020\VZ2408\Z62048.d Vial: 9  
 Acq On : 3 Sep 2020 12:57 pm Operator: shanicao  
 Sample : cc2408-5 Inst : MSVOA15  
 Misc : MS46458,VZ2408,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Thu Sep 03 14:30:55 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	83	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	9.694	3.1	79	0.00	2.85
3	Chloromethane	10.000	10.151	-1.5	85	0.00	2.74
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.332	0.296	10.8	76	0.00	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	9.714	2.9	81	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	9.671	3.3	78	0.00	4.89
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.695	3.3	81	0.00	5.55
8	cis-1,2-Dichloroethene	0.430	0.417	3.0	81	0.00	6.11
9	Chloroform	0.799	0.771	3.5	81	0.00	6.38
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	9.580	4.2	77	0.00	6.54
11	1,1,1-Trichloroethane	10.000	9.677	3.2	78	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.468	0.5	84	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.335	-3.4	86	0.00	7.13
14	1,2-Dichloroethane	0.530	0.573	-8.1	86	0.00	7.20
15	Trichloroethene	0.462	0.467	-1.1	85	0.00	7.56
16	1,2-Dichloropropane	0.374	0.390	-4.3	85	0.00	8.11
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.853	1.5	80	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00	10.51
19 S	Toluene-d8	1.244	1.241	0.2	83	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	9.828	1.7	79	0.00	9.41
21	Tetrachloroethene	10.000	9.817	1.8	80	0.00	9.40

# Initial Calibration Verification

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICV2408  
**Lab FileID:** Z62048.D

(#) = Out of Range  
Z62044.D SIMCL090320.M

SPCC's out = 0 CCC's out = 0  
Fri Sep 04 00:37:04 2020

# Continuing Calibration Summary

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2410-CC2408  
**Lab FileID:** Z62108.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\ vz2410\Z62108.d Vial: 1  
 Acq On : 5 Sep 2020 11:24 am Operator: stutip  
 Sample : cc2408-5 Inst : MSVOA15  
 Misc : MS47134,VZ2410,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	75	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	11.284	-12.8	83	0.00	2.84
3	Chloromethane	10.000	11.937	-19.4	91	0.00	2.73
4	1,1-Dichloroethene	10.000	10.213	-2.1	75	0.00	4.08
5	Methylene Chloride	10.000	10.844	-8.4	81	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	10.558	-5.6	77	0.00	4.89
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.778	-8.2	82	0.00	5.54
8	cis-1,2-Dichloroethene	0.430	0.449	-4.4	78	0.00	6.10
9	Chloroform	0.799	0.859	-7.5	81	0.00	6.37
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	9.542	4.6	69	0.00	6.54
11	1,1,1-Trichloroethane	10.000	10.135	-1.3	74	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.562	-5.8	80	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.356	-9.9	82	0.00	7.12
14	1,2-Dichloroethane	0.530	0.661	-24.7#	89	0.00	7.19
15	Trichloroethene	0.462	0.473	-2.4	78	0.00	7.56
16	1,2-Dichloropropane	0.374	0.421	-12.6	82	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	10.380	-3.8	76	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	74	0.00	10.51
19 S	Toluene-d8	1.244	1.231	1.0	74	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	10.041	-0.4	80	0.00	9.41
21	Tetrachloroethene	10.000	10.043	-0.4	73	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62044.D    SIMCL090320.M              Tue Sep 08 20:25:06 2020

# Continuing Calibration Summary

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2410-ECC2408  
**Lab FileID:** Z62132.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\ vz2410\Z62132.D Vial: 25  
 Acq On : 5 Sep 2020 8:50 pm Operator: stutip  
 Sample : ecc2408-5 Inst : MSVOA15  
 Misc : MS47137,VZ2410,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	55	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	11.729	-17.3	64	0.00	2.84
3	Chloromethane	10.000	10.739	-7.4	60	0.00	2.73
4	1,1-Dichloroethene	10.000	9.629	3.7	52	0.00	4.08
5	Methylene Chloride	10.000	9.410	5.9	52	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	9.346	6.5	50	0.00	4.89
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.708	1.5	55	0.00	5.55
8	cis-1,2-Dichloroethene	0.430	0.381	11.4	49#	0.00	6.11
9	Chloroform	0.799	0.772	3.4	54	0.00	6.38
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	8.787	12.1	47	0.00	6.54
11	1,1,1-Trichloroethane	10.000	9.375	6.3	50	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.377	6.7	52	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.387	-19.4	66	0.00	7.13
14	1,2-Dichloroethane	0.530	0.588	-10.9	58	0.00	7.20
15	Trichloroethene	0.462	0.420	9.1	51	0.00	7.56
16	1,2-Dichloropropane	0.374	0.371	0.8	53	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	7.577	24.2	39	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	56	0.00	10.51
19 S	Toluene-d8	1.244	1.174	5.6	53	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	6.818	31.8	41	0.00	9.41
21	Tetrachloroethene	10.000	8.661	13.4	47	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62044.D    SIMCL090320.M            Tue Sep 08 20:32:00 2020

**Run Sequence Report**

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2408	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
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<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VZ2408-BFB	Z62039.D	09/03/20 09:29	n/a	BFB Tune
VZ2408-IC2408	Z62040.D	09/03/20 09:52	n/a	Initial cal 1
VZ2408-IC2408	Z62041.D	09/03/20 10:11	n/a	Initial cal 2
VZ2408-IC2408	Z62042.D	09/03/20 10:59	n/a	Initial cal 3
VZ2408-IC2408	Z62043.D	09/03/20 11:18	n/a	Initial cal 4
VZ2408-ICC2408	Z62044.D	09/03/20 11:40	n/a	Initial cal 5
VZ2408-IC2408	Z62045.D	09/03/20 11:59	n/a	Initial cal 6
VZ2408-IC2408	Z62046.D	09/03/20 12:18	n/a	Initial cal 7
VZ2408-ICV2408	Z62048.D	09/03/20 12:57	n/a	Initial cal verification 5

## Run Sequence Report

**Job Number:** FA78443  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2410      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2410-BFB	Z62107.D	09/05/20 10:58	n/a	BFB Tune
VZ2410-CC2408	Z62108.D	09/05/20 11:24	n/a	Continuing cal 5
VZ2410-BS	Z62109.D	09/05/20 11:47	n/a	Blank Spike
VZ2410-MB	Z62110.D	09/05/20 12:11	n/a	Method Blank
FA78445-21	Z62112.D	09/05/20 12:58	n/a	(used for QC only; not part of job FA78443)
ZZZZZZ	Z62113.D	09/05/20 13:22	n/a	(unrelated sample)
ZZZZZZ	Z62114.D	09/05/20 13:46	n/a	(unrelated sample)
ZZZZZZ	Z62115.D	09/05/20 14:09	n/a	(unrelated sample)
ZZZZZZ	Z62116.D	09/05/20 14:33	n/a	(unrelated sample)
ZZZZZZ	Z62117.D	09/05/20 14:56	n/a	(unrelated sample)
ZZZZZZ	Z62118.D	09/05/20 15:19	n/a	(unrelated sample)
ZZZZZZ	Z62119.D	09/05/20 15:42	n/a	(unrelated sample)
ZZZZZZ	Z62120.D	09/05/20 16:06	n/a	(unrelated sample)
ZZZZZZ	Z62121.D	09/05/20 16:30	n/a	(unrelated sample)
ZZZZZZ	Z62122.D	09/05/20 16:54	n/a	(unrelated sample)
ZZZZZZ	Z62123.D	09/05/20 17:17	n/a	(unrelated sample)
ZZZZZZ	Z62124.D	09/05/20 17:41	n/a	(unrelated sample)
ZZZZZZ	Z62125.D	09/05/20 18:05	n/a	(unrelated sample)
ZZZZZZ	Z62126.D	09/05/20 18:28	n/a	(unrelated sample)
ZZZZZZ	Z62127.D	09/05/20 18:52	n/a	(unrelated sample)
FA78443-1	Z62128.D	09/05/20 19:15	n/a	2036W0BW094F
FA78443-2	Z62129.D	09/05/20 19:39	n/a	2036W0BW096C
FA78445-21MS	Z62130.D	09/05/20 20:03	n/a	Matrix Spike
FA78445-21MSD	Z62131.D	09/05/20 20:26	n/a	Matrix Spike Duplicate
VZ2410-ECC2408	Z62132.D	09/05/20 20:50	n/a	Ending cal 5



MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62128.D  
Acq On : 5 Sep 2020 7:15 pm  
Operator : stutip  
Sample : fa78443-1  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 08 20:23:15 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1581721	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1166335	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	642115	6.27	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	125.40%#
19) Toluene-d8	8.961	98	1429406	4.93	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
Target Compounds						
5) Methylene Chloride	4.717	84	11159	0.08	ppb	90
9) Chloroform	6.377	83	55824	0.22	ppb	97
10) Carbon Tetrachloride	6.543	117	675146	4.01	ppb	100
-----						

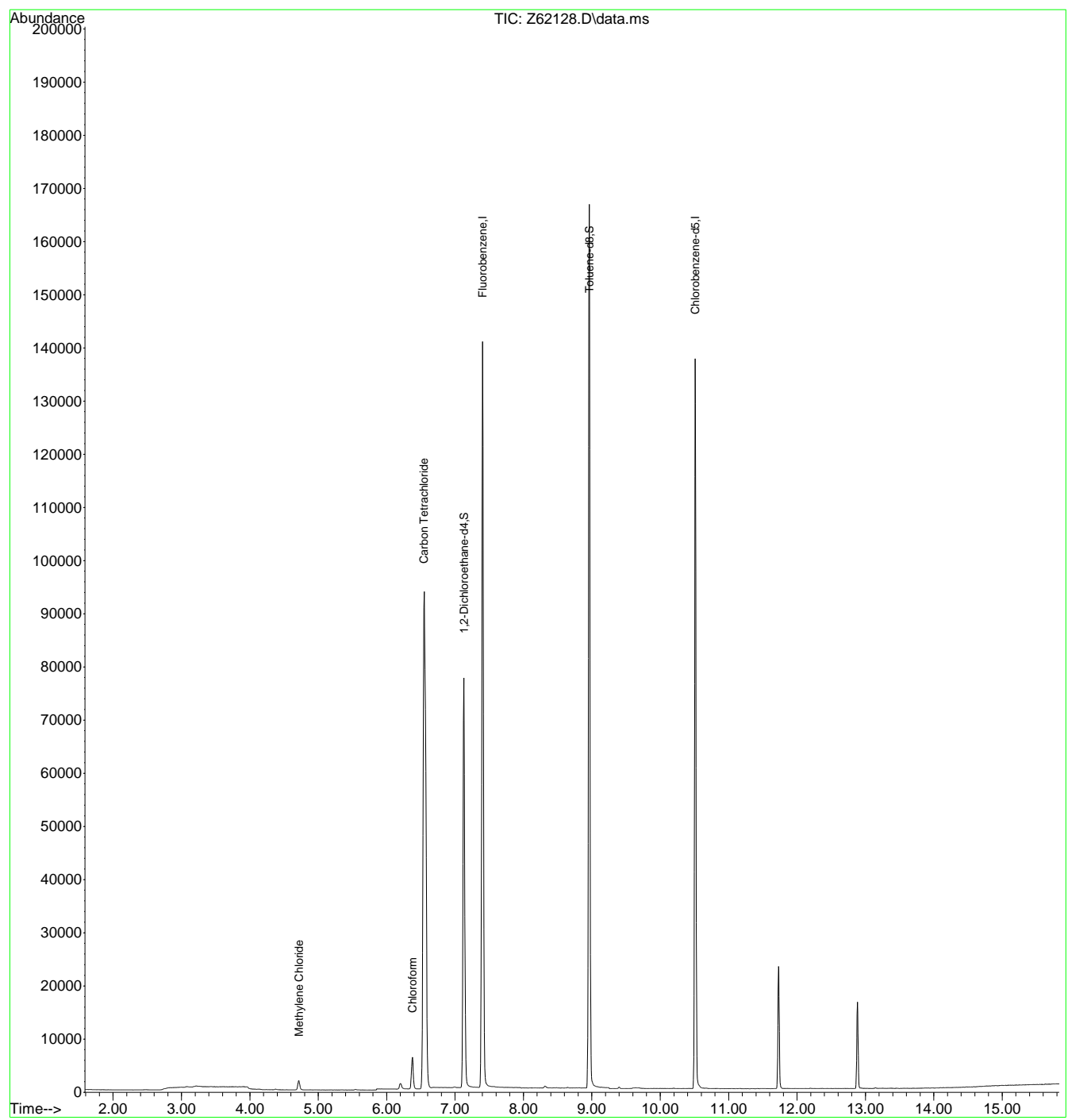
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1  
7

Quantitation Report (QT Reviewed)

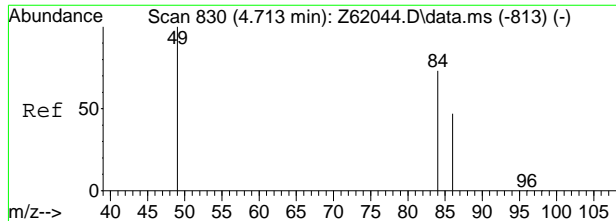
Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62128.D  
Acq On : 5 Sep 2020 7:15 pm  
Operator : stutip  
Sample : fa78443-1  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 08 20:23:15 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.1  
7

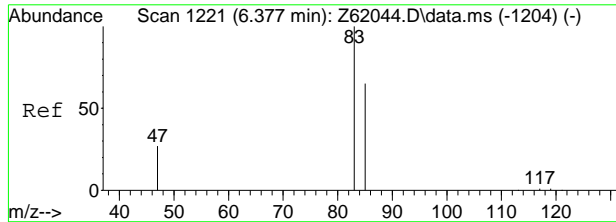
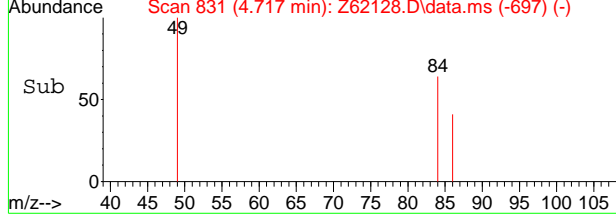
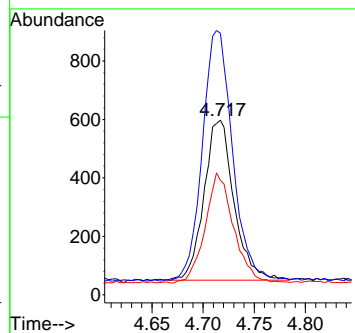
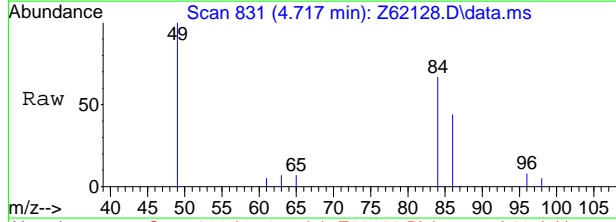




#5  
 Methylene Chloride  
 Concen: 0.08 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62128.D  
 Acq: 5 Sep 2020 7:15 pm

Tgt Ion: 84 Resp: 11159

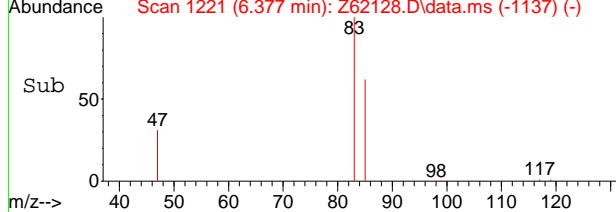
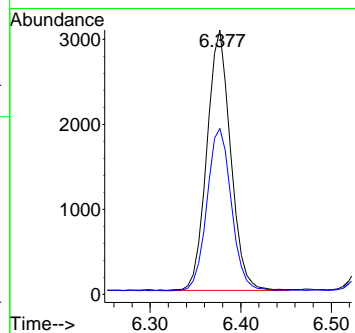
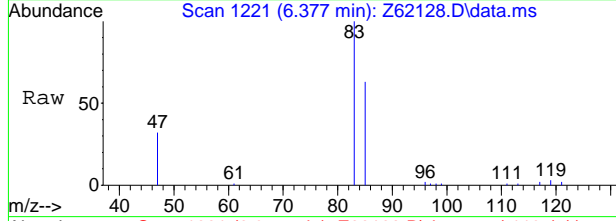
Ion	Ratio	Lower	Upper
84	100		
49	154.0	116.6	156.6
86	63.7	43.9	83.9



#9  
 Chloroform  
 Concen: 0.22 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62128.D  
 Acq: 5 Sep 2020 7:15 pm

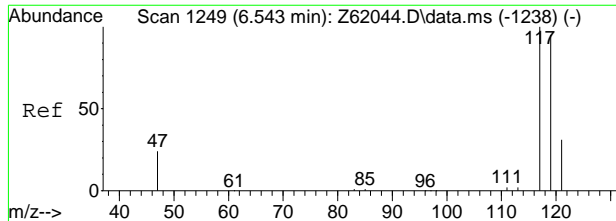
Tgt Ion: 83 Resp: 55824

Ion	Ratio	Lower	Upper
83	100		
85	64.1	46.4	86.4



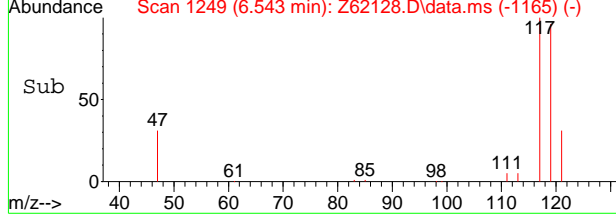
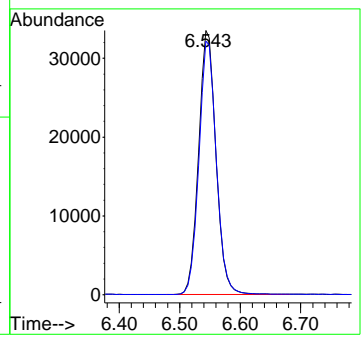
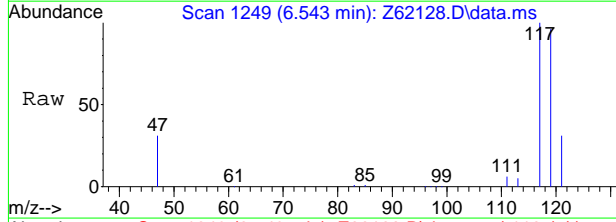
7.11





#10  
Carbon Tetrachloride  
Concen: 4.01 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62128.D  
Acq: 5 Sep 2020 7:15 pm

Tgt Ion	Resp	Lower	Upper
117	675146		
117	100		
119	95.5	75.6	115.6



7.1.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62129.D  
Acq On : 5 Sep 2020 7:39 pm  
Operator : stutip  
Sample : fa78443-2  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 08 20:23:17 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1589528	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1193002	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	650561	6.32	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	126.40%#
19) Toluene-d8	8.961	98	1439604	4.85	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
Target Compounds						
3) Chloromethane	2.733	50	7331	0.05	ppb	84
5) Methylene Chloride	4.713	84	11984	0.09	ppb	88
-----						

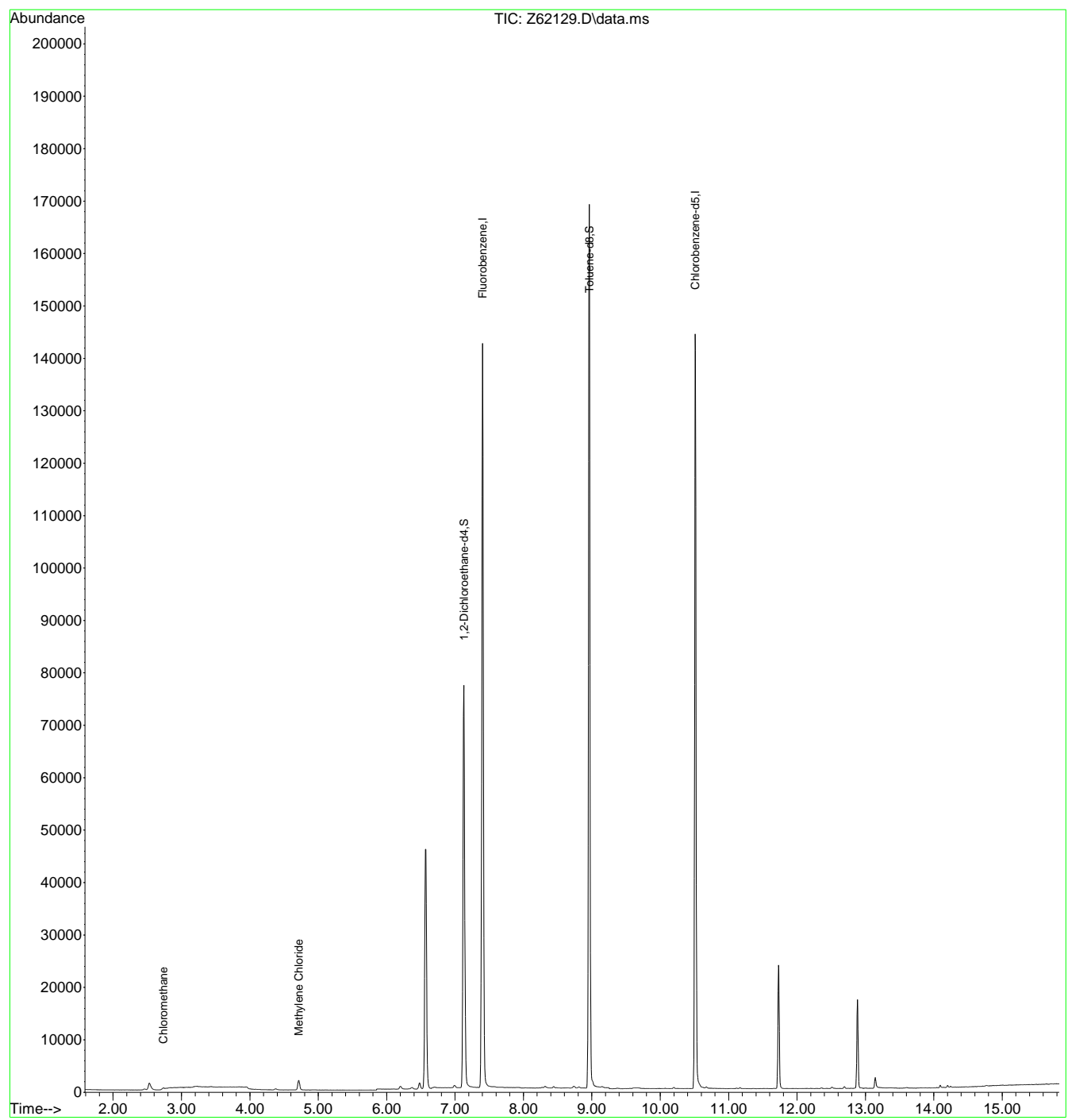
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.12  
7

Quantitation Report (QT Reviewed)

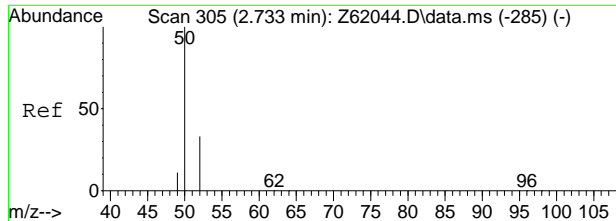
Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62129.D  
Acq On : 5 Sep 2020 7:39 pm  
Operator : stutip  
Sample : fa78443-2  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 08 20:23:17 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



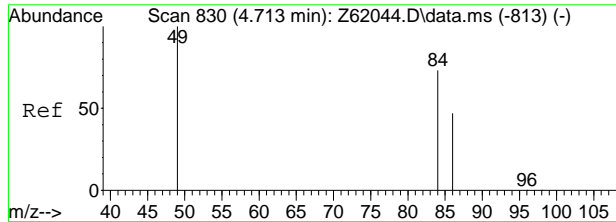
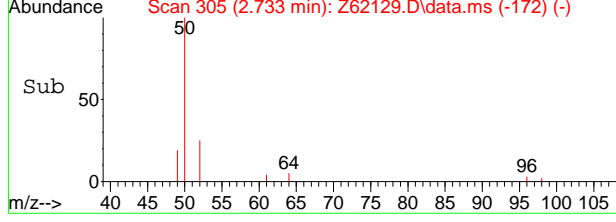
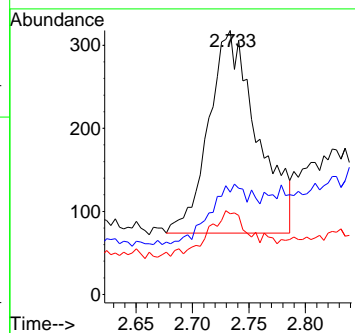
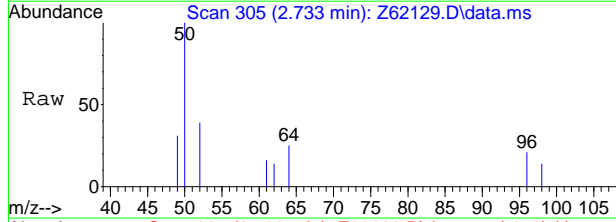
7.1.2  
7





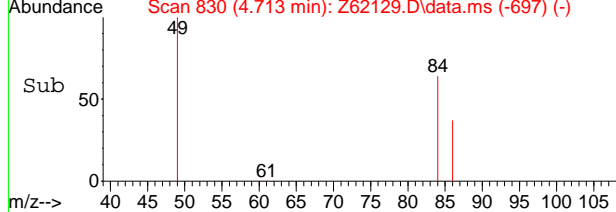
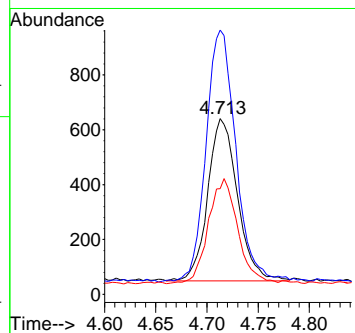
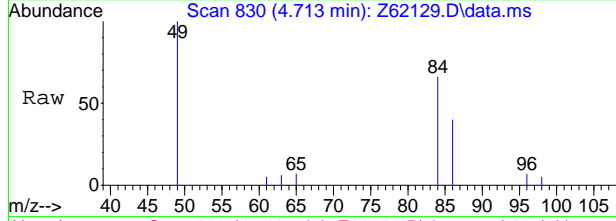
#3  
 Chloromethane  
 Concen: 0.05 ppb  
 RT: 2.733 min Scan# 305  
 Delta R.T. 0.000 min  
 Lab File: Z62129.D  
 Acq: 5 Sep 2020 7:39 pm

Tgt Ion	Ratio	Lower	Upper
50	100		
52	24.6	12.6	52.6
49	18.9	0.0	30.7



#5  
 Methylene Chloride  
 Concen: 0.09 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62129.D  
 Acq: 5 Sep 2020 7:39 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	154.2	116.6	156.6
86	58.4	43.9	83.9



7.12  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\VZ2410\  
 Data File : Z62110.d  
 Acq On : 5 Sep 2020 12:11 pm  
 Operator : stutip  
 Sample : mb  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 20:22:38 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2061859	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1514302	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	765575	5.73	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	114.60%
19) Toluene-d8	8.961	98	1921638	5.10	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
5) Methylene Chloride	4.713	84	25491	0.14	ppb	Qvalue 91
-----						

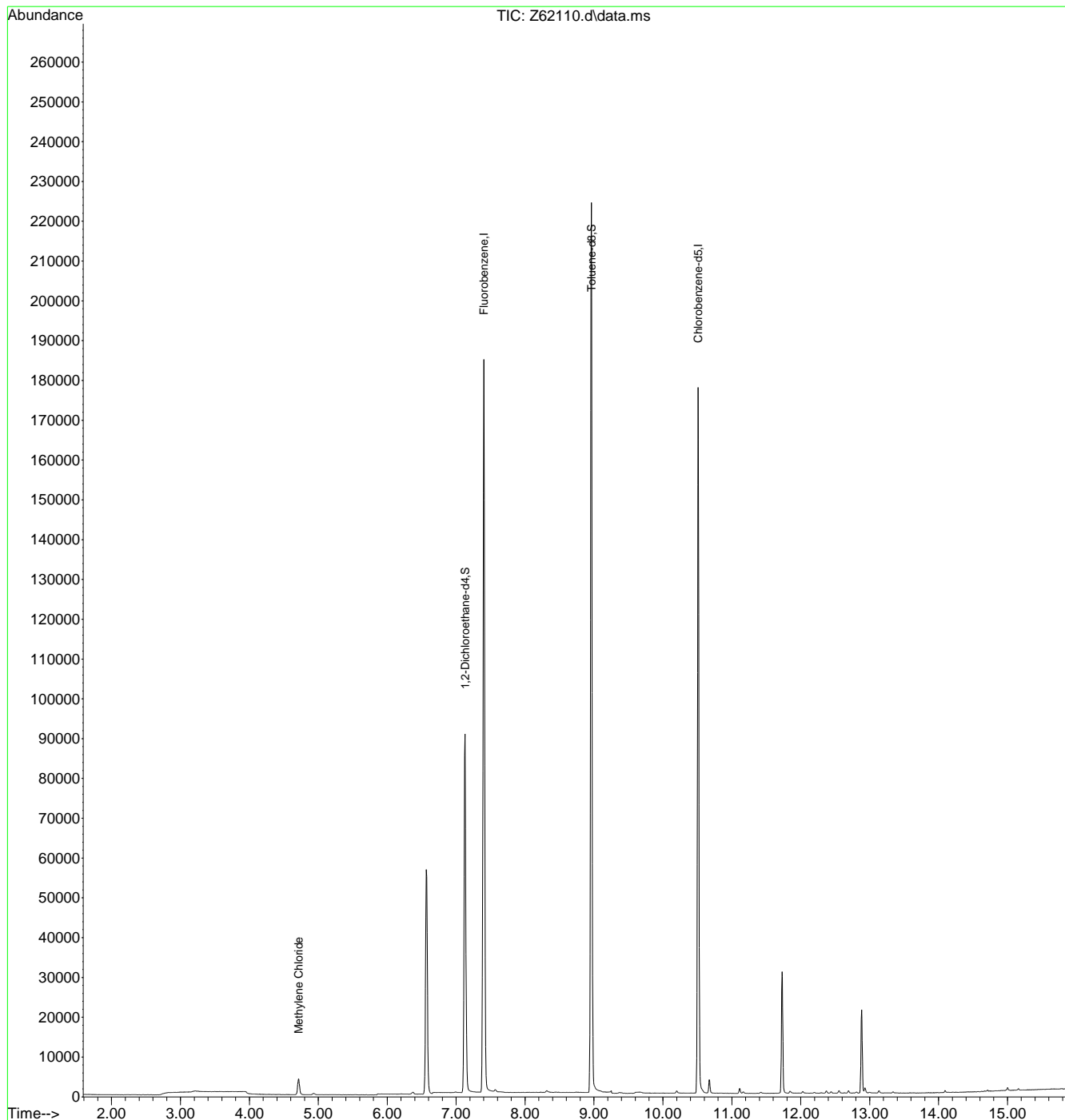
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.2.1  
7

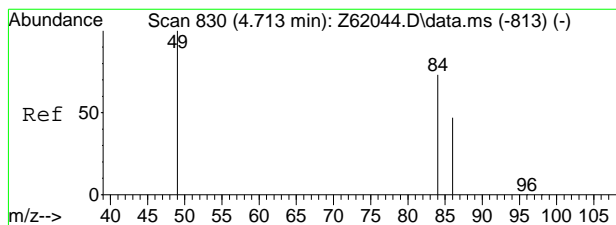
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
 Data File : Z62110.d  
 Acq On : 5 Sep 2020 12:11 pm  
 Operator : stutip  
 Sample : mb  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 20:22:38 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



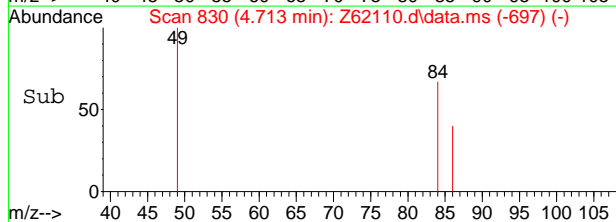
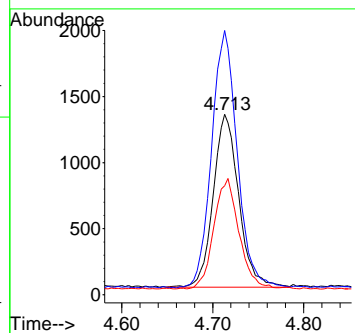
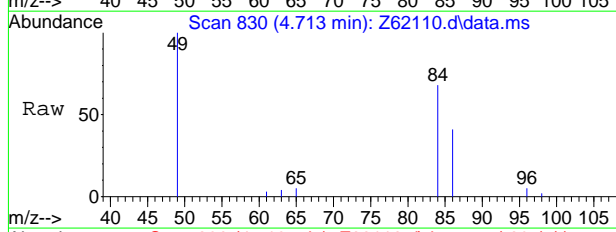
7.2.1  
7



#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62110.d  
 Acq: 5 Sep 2020 12:11 pm

Tgt Ion: 84 Resp: 25491

Ion	Ratio	Lower	Upper
84	100		
49	148.6	116.6	156.6
86	59.4	43.9	83.9



7.2.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\VZ2410\  
 Data File : Z62109.d  
 Acq On : 5 Sep 2020 11:47 am  
 Operator : stutip  
 Sample : bs  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 20:22:36 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2400264	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1812082	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	874610	5.62	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	112.40%		
19) Toluene-d8	8.961	98	2242940	4.97	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1087250	5.16	ppb		100
3) Chloromethane	2.733	50	1079641	5.03	ppb		99
4) 1,1-Dichloroethene	4.087	96	601537	4.13	ppb		96
5) Methylene Chloride	4.713	84	828863	4.01	ppb		95
6) trans-1,2-Dichloroethene	4.886	96	744019	4.13	ppb		96
7) 1,1-Dichloroethane	5.543	63	1414369	4.10	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	794252	3.84	ppb		91
9) Chloroform	6.371	83	1525807	3.98	ppb		100
10) Carbon Tetrachloride	6.543	117	966872	3.80	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	1317905	4.06	ppb		99
12) Benzene	6.994	78	2905063	4.10	ppb		98
14) 1,2-Dichloroethane	7.198	62	1179894	4.63	ppb		99
15) Trichloroethene	7.564	95	900931	4.06	ppb		99
16) 1,2-Dichloropropane	8.105	63	764091	4.25	ppb		95
17) cis-1,3-Dichloropropene	8.773	75	688447	3.13	ppb		99
20) trans-1,3-Dichloropropene	9.412	75	569206	2.58	ppb		99
21) Tetrachloroethene	9.399	166	868688	4.15	ppb		100

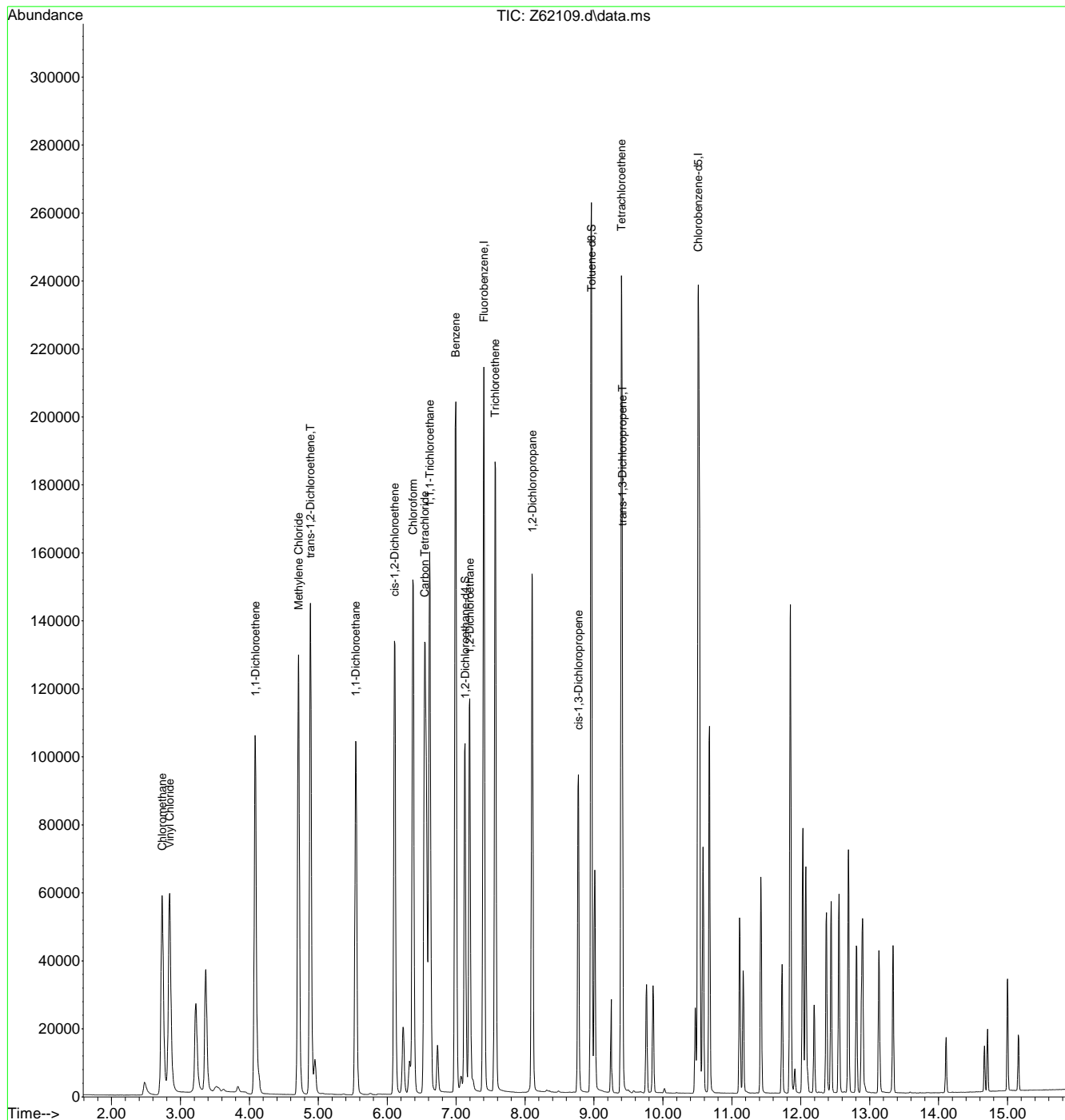
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62109.d  
Acq On : 5 Sep 2020 11:47 am  
Operator : stutip  
Sample : bs  
Misc : MS47134,VZ2410,,,,,  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 20:22:36 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
 Data File : Z62130.D  
 Acq On : 5 Sep 2020 8:03 pm  
 Operator : stutip  
 Sample : fa78445-21ms,10  
 Misc : MS47137,VZ2410,,,,,10  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 08 20:23:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1635582	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1263864	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	657143	6.20	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	124.00%	
19) Toluene-d8	8.961	98	1483999	4.72	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%	
Target Compounds							
2) Vinyl Chloride	2.843	62	879472	6.10	ppb		Qvalue 100
3) Chloromethane	2.737	50	857024	5.83	ppb		99
4) 1,1-Dichloroethene	4.087	96	492931	4.93	ppb		92
5) Methylene Chloride	4.713	84	703836	4.99	ppb		90
6) trans-1,2-Dichloroethene	4.886	96	604422	4.89	ppb		92
7) 1,1-Dichloroethane	5.546	63	1202017	5.11	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	630573	4.48	ppb		94
9) Chloroform	6.377	83	1296160	4.96	ppb		99
10) Carbon Tetrachloride	6.543	117	761974	4.36	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	1076649	4.84	ppb		99
12) Benzene	6.994	78	2351922	4.87	ppb		96
14) 1,2-Dichloroethane	7.198	62	987499	5.69	ppb		99
15) Trichloroethene	7.564	95	745752	4.94	ppb		98
16) 1,2-Dichloropropane	8.105	63	632114	5.16	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	480901	3.20	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	396025	2.57	ppb		99
21) Tetrachloroethene	9.399	166	682384	4.66	ppb		99

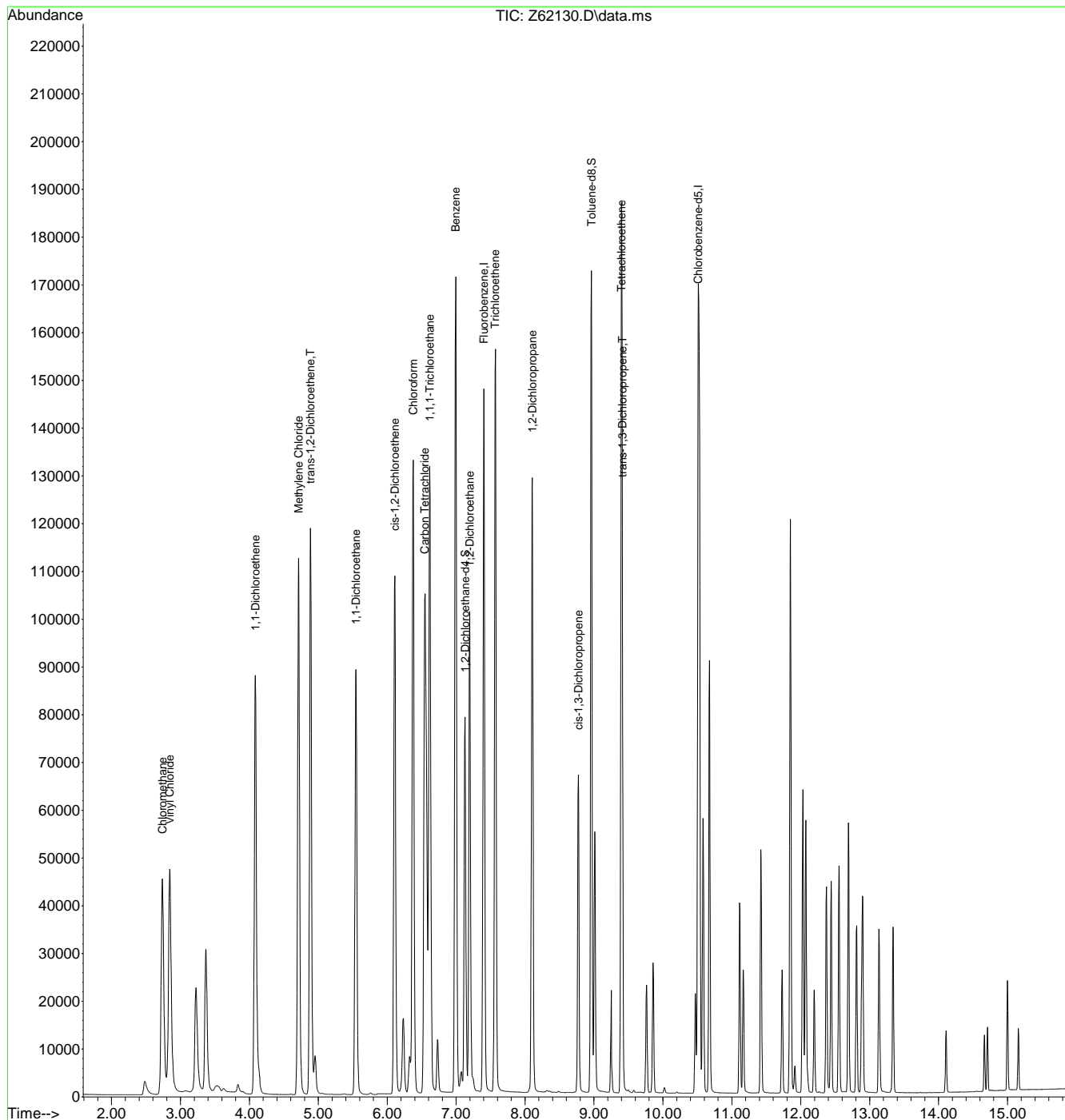
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
 Data File : Z62130.D  
 Acq On : 5 Sep 2020 8:03 pm  
 Operator : stutip  
 Sample : fa78445-21ms,10  
 Misc : MS47137,VZ2410,,,,,10  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 08 20:23:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.4.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
 Data File : Z62131.D  
 Acq On : 5 Sep 2020 8:26 pm  
 Operator : stutip  
 Sample : fa78445-21msd,10  
 Misc : MS47137,VZ2410,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 08 20:23:21 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1716700	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1322904	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	684003	6.15	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	123.00%	
19) Toluene-d8	8.961	98	1564728	4.75	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	892283	5.90	ppb		99
3) Chloromethane	2.737	50	862345	5.59	ppb		99
4) 1,1-Dichloroethene	4.087	96	499047	4.76	ppb		94
5) Methylene Chloride	4.713	84	708267	4.79	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	604989	4.67	ppb		93
7) 1,1-Dichloroethane	5.546	63	1199163	4.86	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	632247	4.28	ppb		93
9) Chloroform	6.377	83	1287183	4.69	ppb		99
10) Carbon Tetrachloride	6.543	117	765940	4.19	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	1080370	4.64	ppb		100
12) Benzene	6.994	78	2357765	4.65	ppb		97
14) 1,2-Dichloroethane	7.198	62	986348	5.42	ppb		99
15) Trichloroethene	7.564	95	734164	4.63	ppb		99
16) 1,2-Dichloropropane	8.105	63	634092	4.93	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	496036	3.15	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	413834	2.57	ppb		100
21) Tetrachloroethene	9.399	166	688686	4.49	ppb		100
-----							

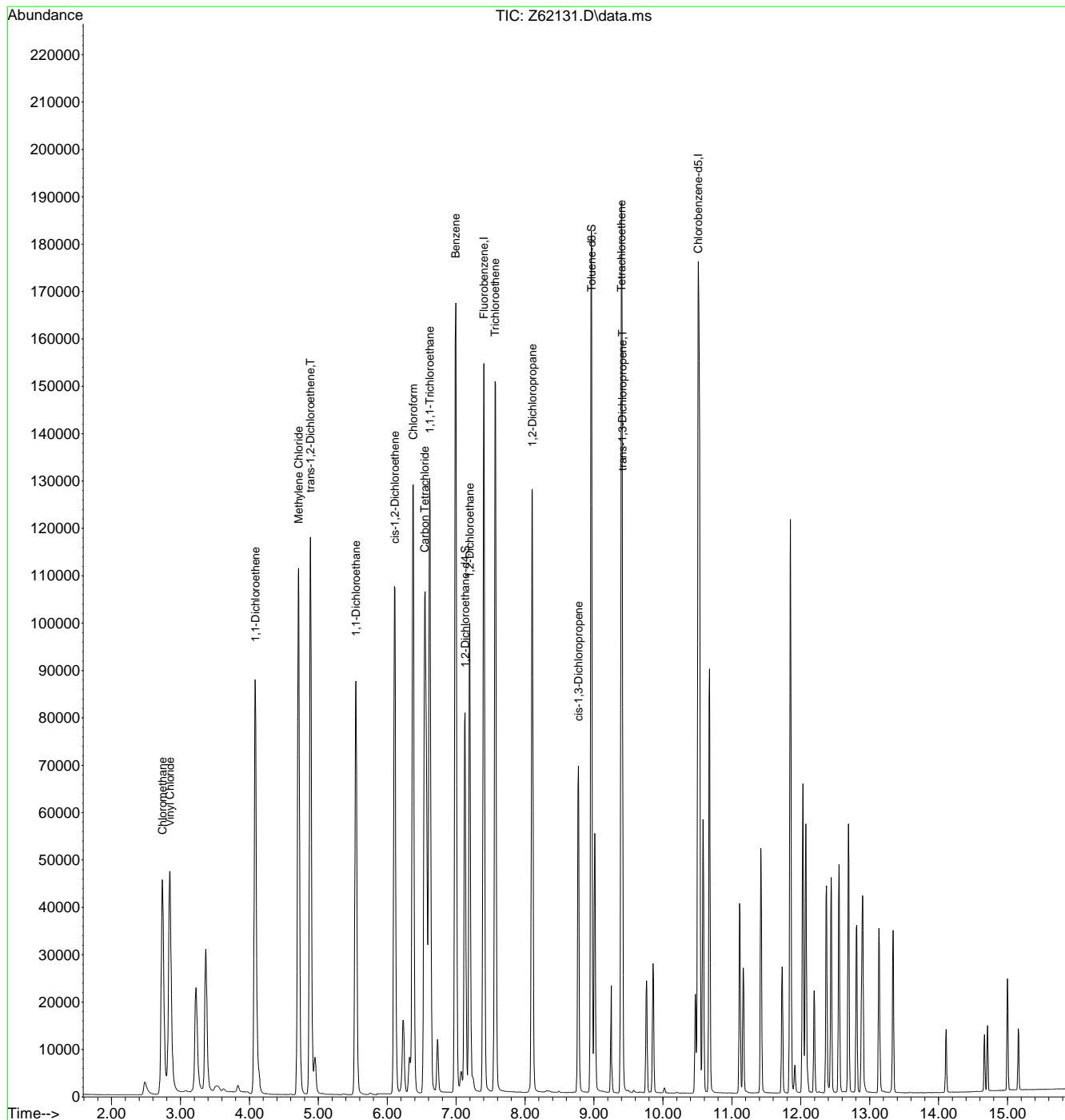
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62131.D  
Acq On : 5 Sep 2020 8:26 pm  
Operator : stutip  
Sample : fa78445-21msd,10  
Misc : MS47137,VZ2410,,,,,10  
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 08 20:23:21 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



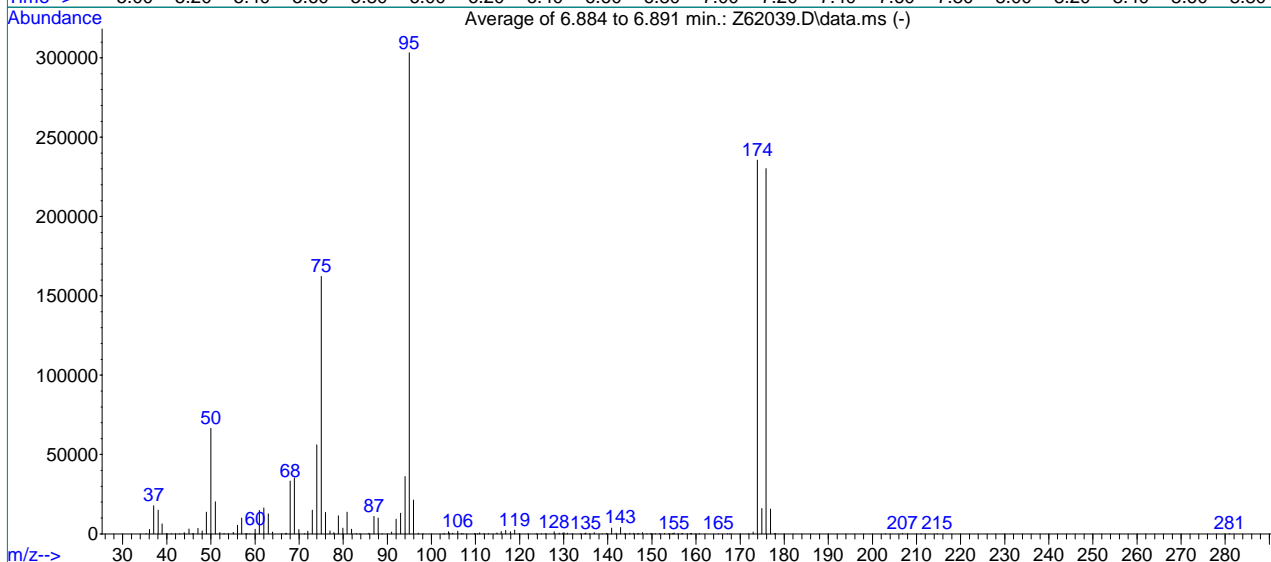
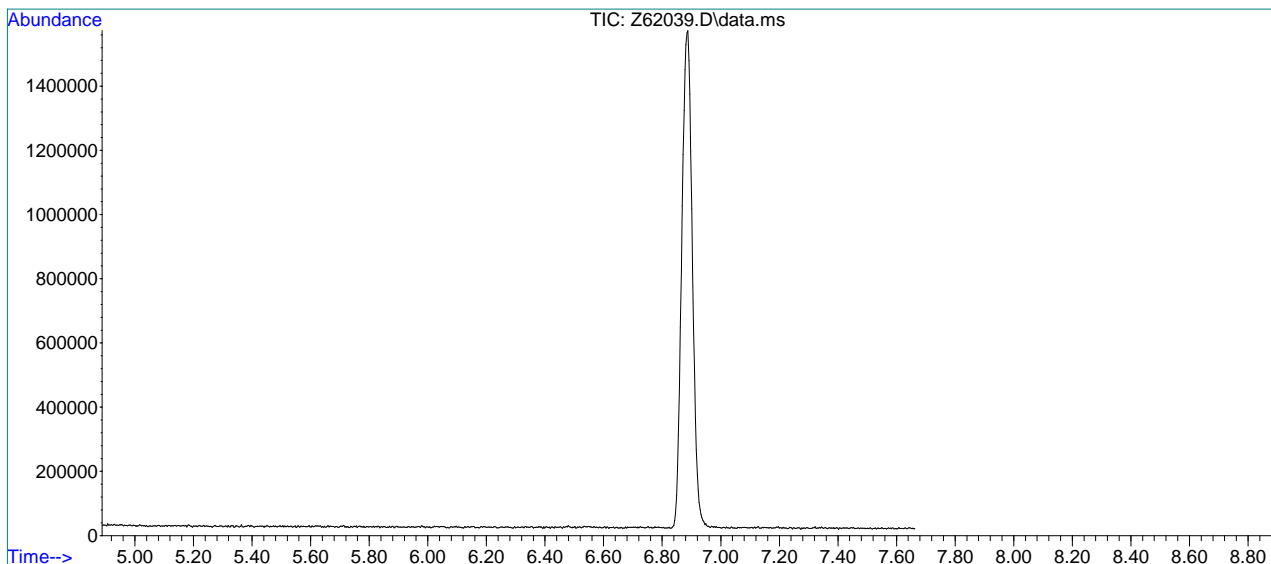
7.4.2  
7

BFB

Data File : C:\msdchem\1\data\090320\Z62039.D  
 Acq On : 3 Sep 2020 9:29 am  
 Sample : BFB  
 Misc : MS46458,VZ2408,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: shanicao  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2114, 2115, 2116; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	66488	PASS
75	95	30	60	53.5	162304	PASS
95	95	100	100	100.0	303153	PASS
96	95	5	9	7.0	21238	PASS
173	174	0.00	2	0.5	1222	PASS
174	95	50	100	77.7	235477	PASS
175	174	5	9	6.8	16056	PASS
176	174	95	101	97.8	230208	PASS
177	176	5	9	6.8	15659	PASS

7.5.1  
7

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.30	52	45.80	167	56.00	5387	66.90	190
36.05	2773	46.05	183	57.00	9992	67.10	489
37.00	17718	47.05	3550	57.90	268	67.95	33363
38.05	14875	48.00	1840	58.20	136	68.95	35178
38.95	6224	49.00	13650	58.85	124	69.95	2763
40.00	334	50.00	66488	60.00	2916	71.20	99
41.00	107	51.00	20248	61.00	14791	71.95	1717
42.00	125	52.05	861	62.00	16361	73.00	14848
42.95	161	52.95	207	63.00	12571	74.00	56120
43.95	877	53.90	349	63.95	1178	75.00	162304
45.00	3127	55.05	1007	66.05	98	76.00	13465

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.00	1815	88.80	61	103.85	1339	114.85	649
77.90	720	90.95	1090	104.10	528	115.80	1564
78.90	11413	92.00	9313	104.85	445	116.85	2289
79.90	3660	93.00	12994	105.95	1740	117.90	1393
80.85	13619	94.00	36128	106.85	292	118.85	2352
81.90	2951	94.95	303153	107.20	159	119.90	68
82.95	278	95.95	21238	109.80	314	121.90	152
83.80	70	97.00	532	110.50	69	123.80	180
85.85	442	98.10	70	110.95	588	125.00	76
86.95	11103	102.70	96	111.95	227	125.90	236
87.95	10026	103.00	134	112.90	296	127.85	1308

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.95	377	139.75	271	148.85	182	155.90	165
129.80	432	140.85	3605	149.75	321	156.70	160
130.05	765	141.90	478	150.00	157	156.95	249
130.85	489	142.90	3996	150.80	112	158.00	152
131.90	186	143.80	187	151.80	268	158.80	237
133.85	274	144.10	61	152.90	320	159.00	202
134.80	216	145.00	433	153.85	141	160.75	310
135.00	602	145.90	383	154.10	123	165.10	50
135.85	140	146.70	72	154.60	122	167.10	115
136.90	757	147.00	206	154.80	203	167.70	52
138.70	65	147.85	763	155.05	591	171.90	71

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

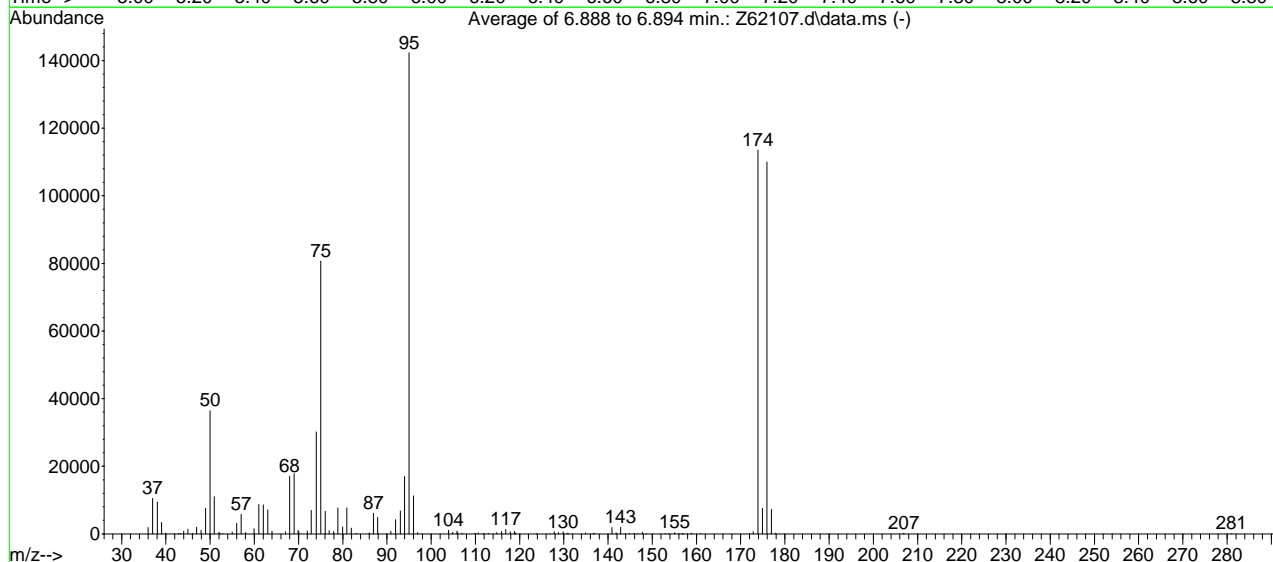
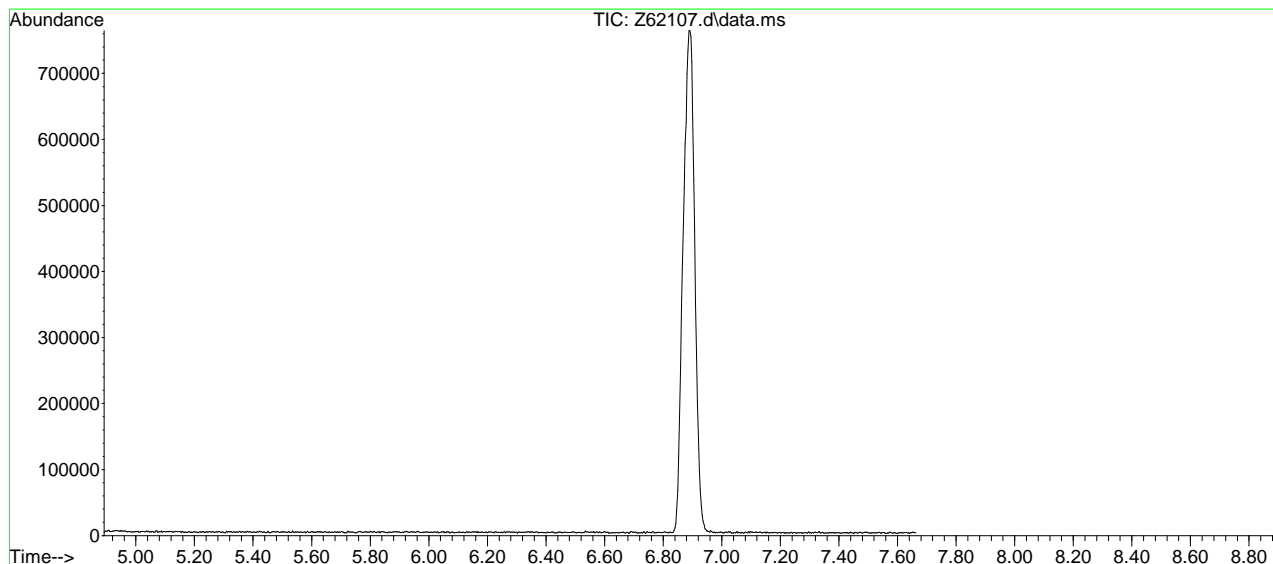
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.95	1222	214.70	76				
173.90	235477	281.00	82				
174.90	16056						
175.90	230208						
176.90	15659						
177.80	57						
178.00	304						
202.95	136						
206.85	258						
207.90	70						
211.00	61						

BFB

Data File : C:\msdchem\1\data\ed...-2020\ vz2410\Z62107.d Vial: 4  
 Acq On : 5 Sep 2020 10:58 am Operator: stutip  
 Sample : bfb Inst : MSVOA15  
 Misc : MS47134,VZ2410,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2115, 2116, 2117; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.6	36405	PASS
75	95	30	60	56.7	80739	PASS
95	95	100	100	100.0	142272	PASS
96	95	5	9	7.9	11246	PASS
173	174	0.00	2	0.6	660	PASS
174	95	50	100	79.8	113523	PASS
175	174	5	9	6.7	7581	PASS
176	174	95	101	96.9	109995	PASS
177	176	5	9	6.6	7245	PASS

7.5.2  
7

Average of 6.888 to 6.894 min.: Z62107.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1854	46.95	1993	58.05	384	71.95	881
37.00	10511	47.95	1008	59.95	1497	72.90	6900
38.05	9414	49.00	7596	61.00	8663	74.00	30149
39.00	3384	50.00	36405	62.00	8584	75.00	80739
39.95	214	50.95	10965	63.05	7088	76.05	6711
41.85	29	52.00	426	64.00	792	76.95	996
42.80	130	52.20	177	67.05	627	77.95	740
43.20	110	52.90	64	68.00	17005	78.90	7645
44.00	797	55.00	571	69.00	17792	79.95	2028
44.95	1388	56.00	3098	69.90	1002	80.90	7680
46.05	131	57.00	5787	70.10	589	81.95	1722

Average of 6.888 to 6.894 min.: Z62107.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.05	135	103.90	1054	115.90	750	131.00	140
86.00	260	104.85	467	116.85	1293	134.90	282
86.95	6097	105.80	779	117.85	665	136.70	77
87.90	4880	106.00	368	118.80	749	136.85	244
90.90	780	107.00	180	119.00	315	140.85	1848
91.95	4225	109.95	196	123.80	63	141.85	285
93.00	6788	110.65	303	126.90	54	142.85	1928
93.95	16957	111.80	63	127.80	607	143.90	56
95.00	142272	112.00	71	128.75	387	144.85	156
96.00	11246	112.90	172	129.85	631	145.90	237
96.95	368	114.85	340	130.75	180	146.70	67

Average of 6.888 to 6.894 min.: Z62107.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.80	473	172.00	112				
148.70	58	172.85	660				
152.95	163	173.90	113523				
153.70	52	174.90	7581				
155.05	350	175.90	109995				
156.00	159	176.95	7245				
156.75	163	177.90	191				
157.00	98	206.80	78				
158.00	78	206.95	161				
158.80	177	281.00	53				
161.00	81						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62040.D  
 Acq On : 3 Sep 2020 9:52 am  
 Operator : shanicao  
 Sample : IC2408-1  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 03 10:46:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3804478	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2917946	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	1189054	4.66	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	93.20%	
19) Toluene-d8	8.958	98	3642217	5.53	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	60425	0.16	ppb		81
3) Chloromethane	2.730	50	66839	0.17	ppb		98
4) 1,1-Dichloroethene	4.083	96	33018	0.19	ppb		98
5) Methylene Chloride	4.713	84	235103	0.84	ppb	#	89
6) trans-1,2-Dichloroethene	4.883	96	41344	0.16	ppb		98
7) 1,1-Dichloroethane	5.543	63	70207	0.14	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	40436	0.13	ppb		93
9) Chloroform	6.371	83	77366	0.13	ppb		96
10) Carbon Tetrachloride	6.543	117	57498	0.17	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	72306	0.16	ppb		92
12) Benzene	6.987	78	143997	0.15	ppb		96
14) 1,2-Dichloroethane	7.191	62	37491	0.10	ppb		99
15) Trichloroethene	7.564	95	45115	0.16	ppb		97
16) 1,2-Dichloropropane	8.101	63	31354	0.11	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	33085	0.10	ppb		95
20) trans-1,3-Dichloropropene	9.407	75	23314	0.08	ppb		99
21) Tetrachloroethene	9.399	166	50663	0.17	ppb		98

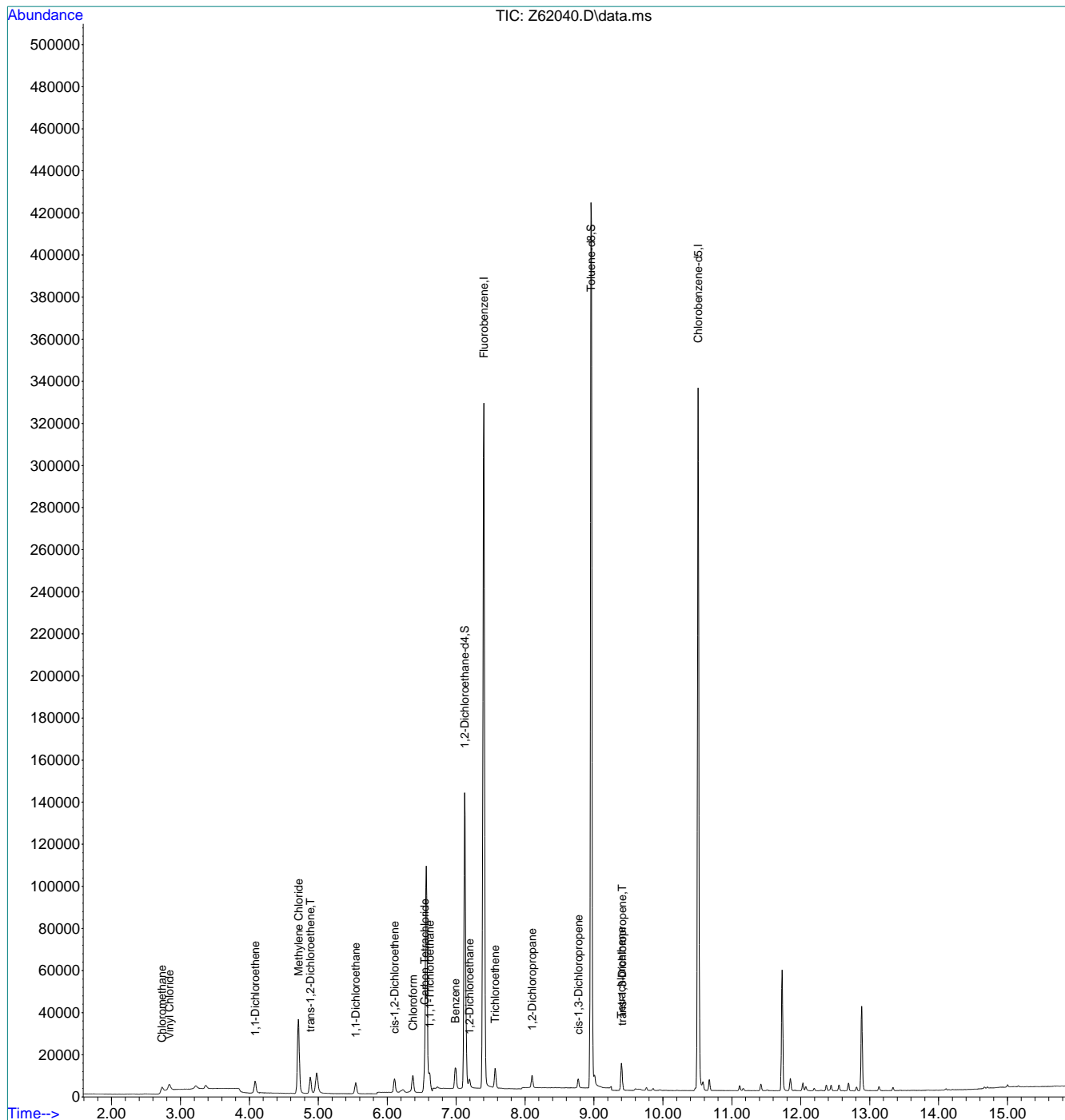
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62040.D  
 Acq On : 3 Sep 2020 9:52 am  
 Operator : shanicao  
 Sample : IC2408-1  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 03 10:46:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



1.9.7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62041.D  
 Acq On : 3 Sep 2020 10:11 am  
 Operator : shanicao  
 Sample : IC2408-2  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 03 10:46:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3529389	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2691939	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1143820	4.83	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.60%	
19) Toluene-d8	8.961	98	3386795	5.57	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	163586	0.47	ppb		96
3) Chloromethane	2.733	50	169046	0.48	ppb		99
4) 1,1-Dichloroethene	4.083	96	107728	0.67	ppb		98
5) Methylene Chloride	4.713	84	277305	1.06	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	126935	0.52	ppb		100
7) 1,1-Dichloroethane	5.546	63	222785	0.48	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	136596	0.48	ppb		94
9) Chloroform	6.377	83	246283	0.45	ppb		97
10) Carbon Tetrachloride	6.543	117	169258	0.54	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	222786	0.52	ppb		98
12) Benzene	6.994	78	462224	0.50	ppb		99
14) 1,2-Dichloroethane	7.198	62	166346	0.47	ppb		98
15) Trichloroethene	7.564	95	140144	0.52	ppb		97
16) 1,2-Dichloropropane	8.105	63	118533	0.45	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	103090	0.32	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	77291	0.30	ppb		99
21) Tetrachloroethene	9.399	166	151253	0.56	ppb		98

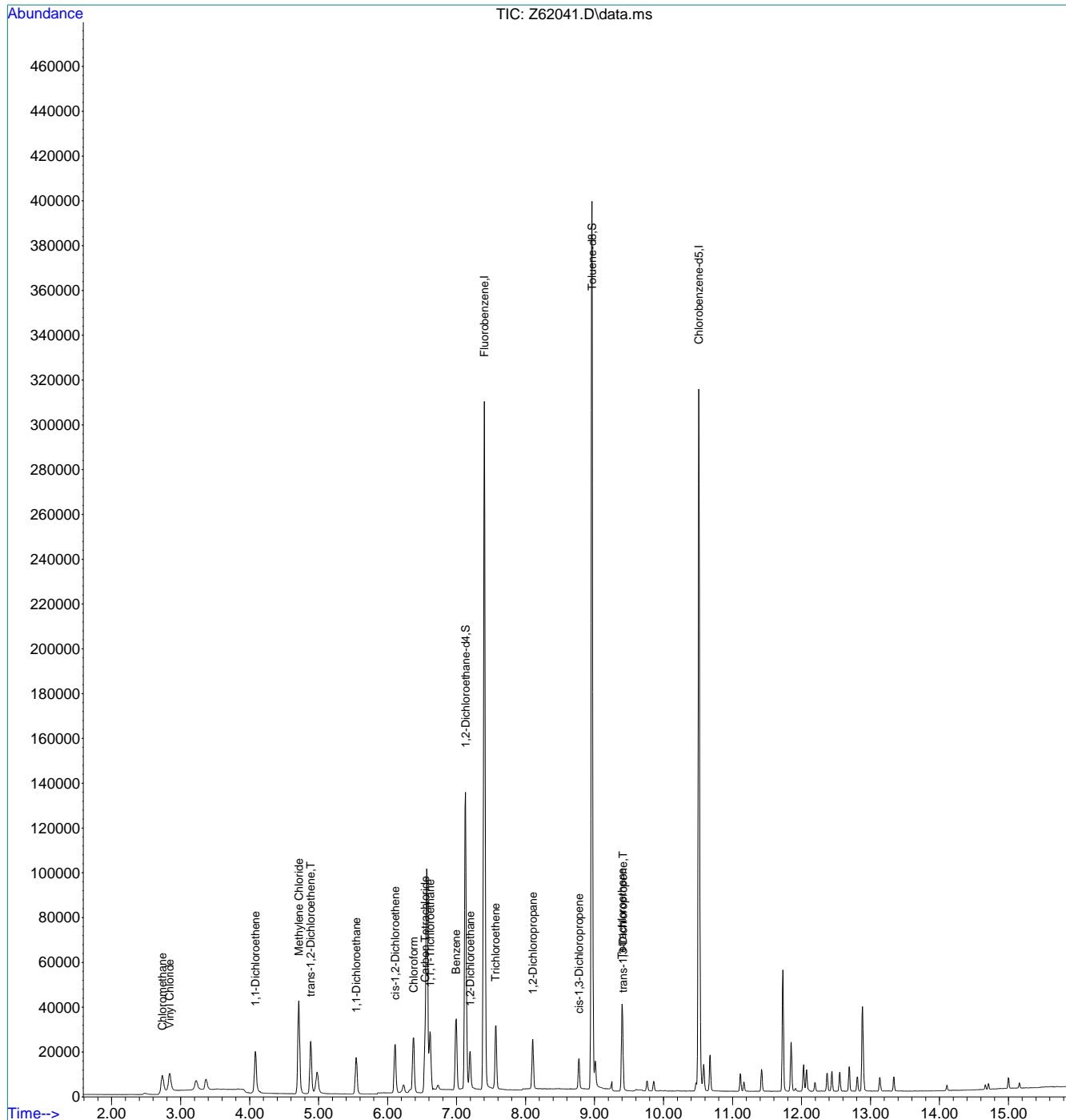
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62041.D  
 Acq On : 3 Sep 2020 10:11 am  
 Operator : shanicao  
 Sample : IC2408-2  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 03 10:46:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6.2  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62042.D  
 Acq On : 3 Sep 2020 10:59 am  
 Operator : shanicao  
 Sample : IC2408-3  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:30:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

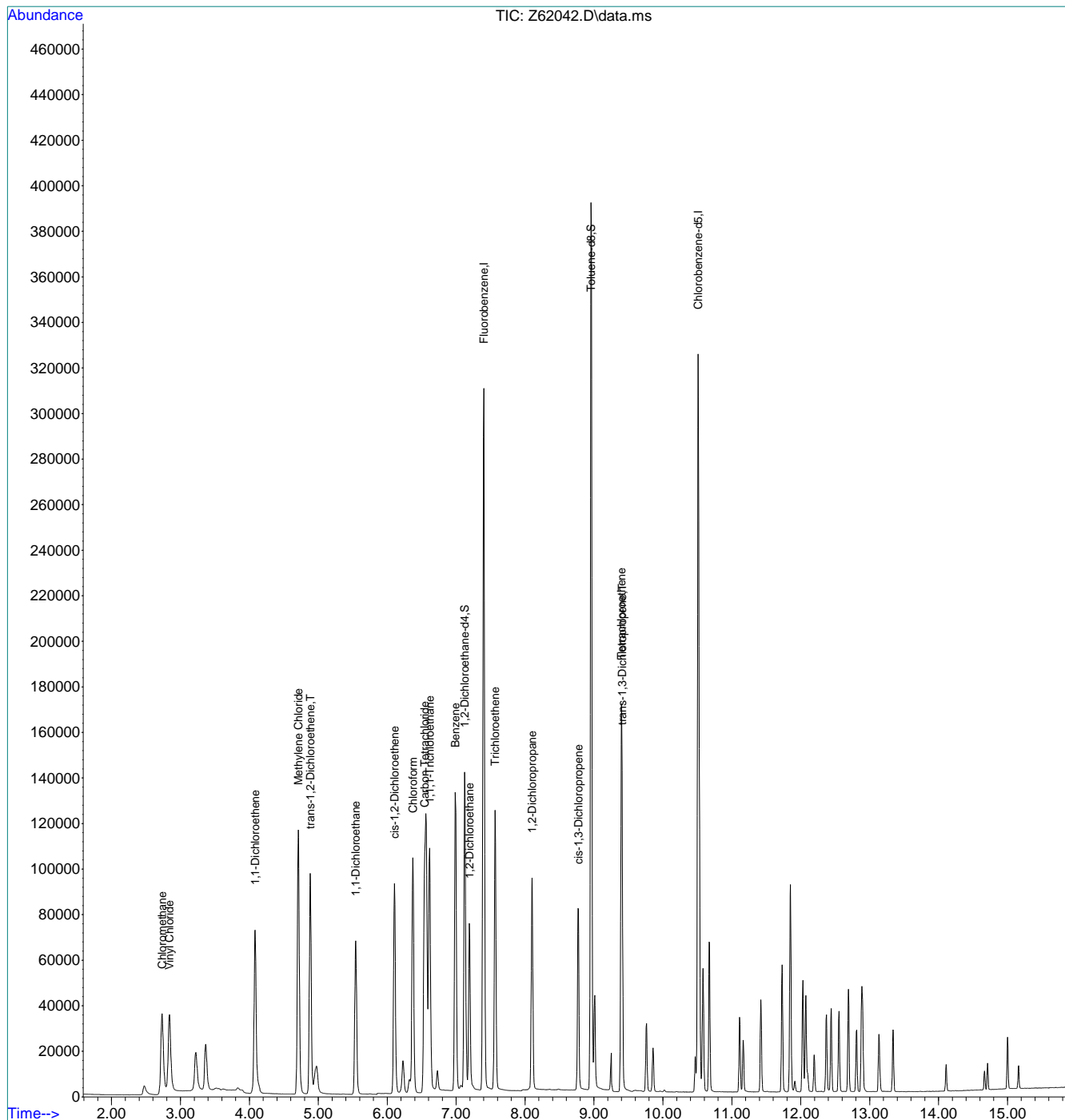
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3565081	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2721469	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	1150679	4.81	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.20%	
19) Toluene-d8	8.957	98	3395429	5.52	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	653900	1.88	ppb		96
3) Chloromethane	2.733	50	710717	1.99	ppb		99
4) 1,1-Dichloroethene	4.083	96	412798	2.56	ppb		98
5) Methylene Chloride	4.709	84	763200	2.89	ppb		94
6) trans-1,2-Dichloroethene	4.882	96	513878	2.07	ppb		98
7) 1,1-Dichloroethane	5.542	63	909896	1.95	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	548481	1.92	ppb		96
9) Chloroform	6.371	83	1017447	1.86	ppb		98
10) Carbon Tetrachloride	6.543	117	726775	2.29	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	903445	2.10	ppb		99
12) Benzene	6.987	78	1873808	2.01	ppb		97
14) 1,2-Dichloroethane	7.191	62	719288	2.00	ppb		100
15) Trichloroethene	7.564	95	585391	2.15	ppb		99
16) 1,2-Dichloropropane	8.101	63	482887	1.80	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	629327	1.93	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	501903	1.92	ppb		99
21) Tetrachloroethene	9.399	166	594039	2.16	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62042.D  
 Acq On : 3 Sep 2020 10:59 am  
 Operator : shanicao  
 Sample : IC2408-3  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:30:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62043.D  
 Acq On : 3 Sep 2020 11:18 am  
 Operator : shanicao  
 Sample : IC2408-4  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 03 11:36:06 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

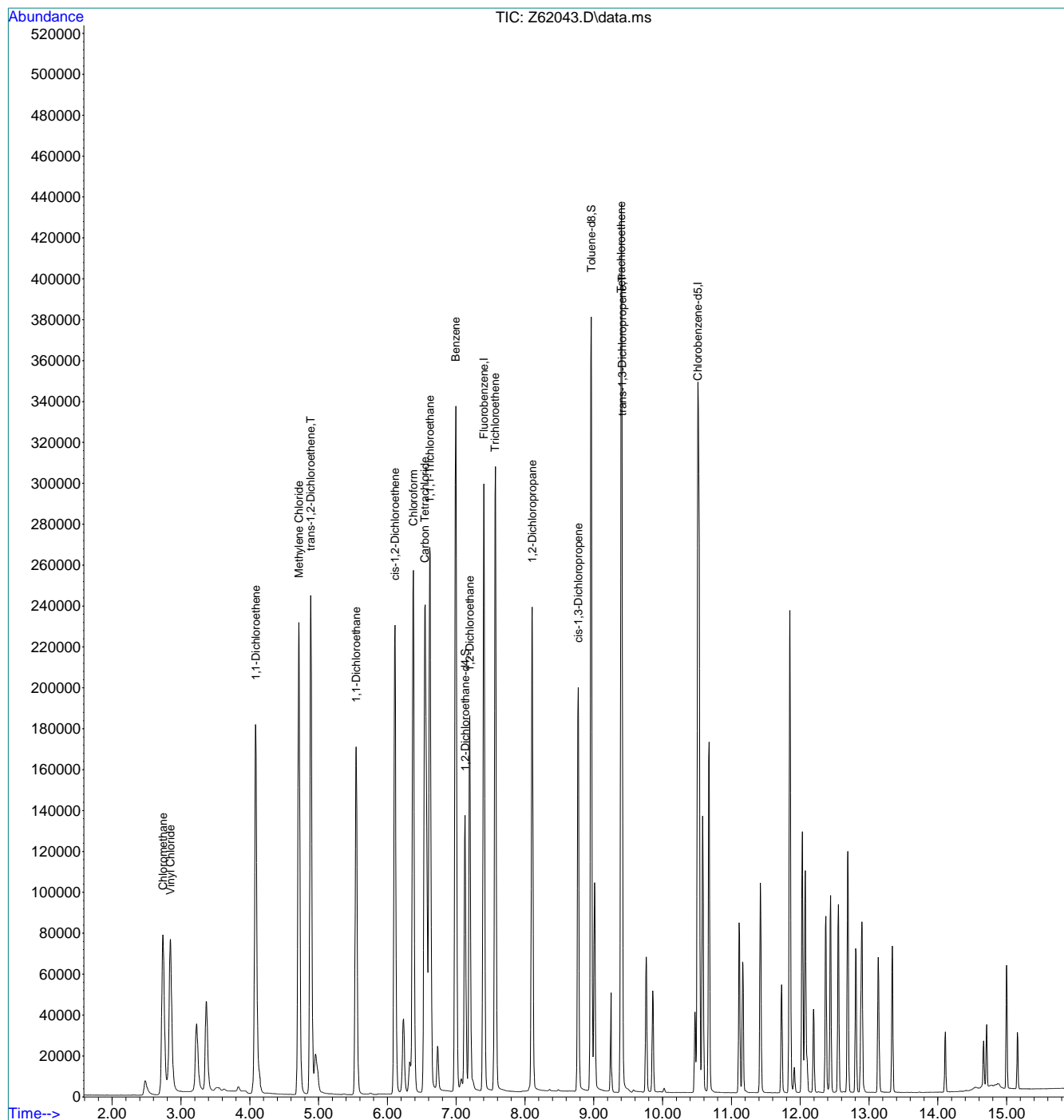
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3393850	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2594246	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1113929	4.89	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	97.80%	
19) Toluene-d8	8.961	98	3233788	5.52	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	1454957	4.39	ppb		97
3) Chloromethane	2.737	50	1592779	4.73	ppb		100
4) 1,1-Dichloroethene	4.087	96	1060060	6.90	ppb		98
5) Methylene Chloride	4.713	84	1526559	6.05	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	1301321	5.50	ppb		99
7) 1,1-Dichloroethane	5.546	63	2300012	5.12	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	1384187	5.08	ppb		94
9) Chloroform	6.377	83	2556080	4.90	ppb		99
10) Carbon Tetrachloride	6.543	117	1811545	6.00	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	2322600	5.66	ppb		100
12) Benzene	6.994	78	4756353	5.28	ppb		100
14) 1,2-Dichloroethane	7.198	62	1836620	5.31	ppb		100
15) Trichloroethene	7.564	95	1488604	5.75	ppb		97
16) 1,2-Dichloropropane	8.105	63	1251224	4.90	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	1512864	4.87	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	1229739	4.93	ppb		100
21) Tetrachloroethene	9.399	166	1518603	5.80	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62043.D  
 Acq On : 3 Sep 2020 11:18 am  
 Operator : shanicao  
 Sample : IC2408-4  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 03 11:36:06 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6.4  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62044.D  
 Acq On : 3 Sep 2020 11:40 am  
 Operator : shanicao  
 Sample : ICC2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 12:07:56 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

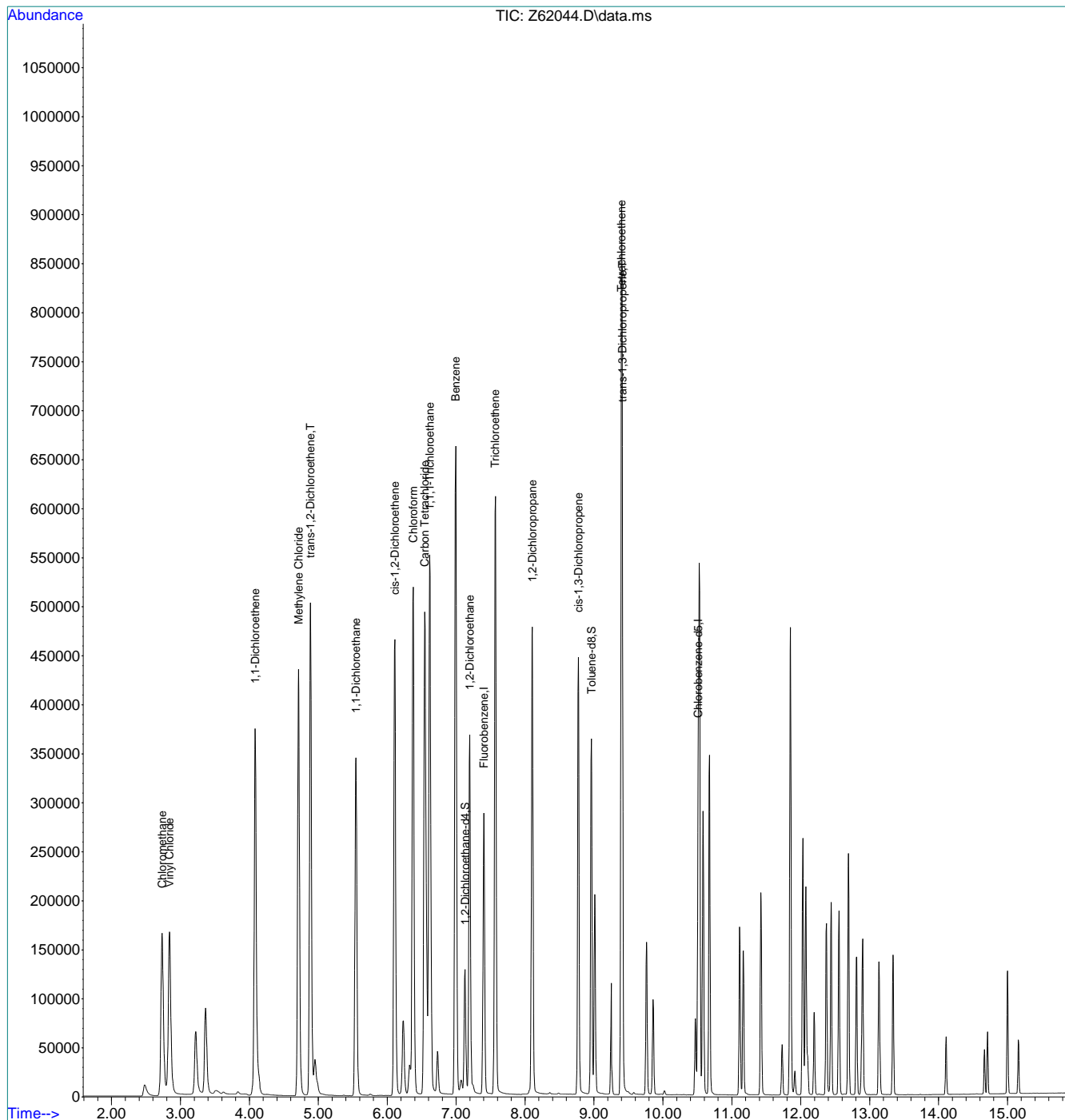
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3260477	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2497954	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1053734	4.82	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.40%	
19) Toluene-d8	8.961	98	3086779	5.47	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	3003337	9.44	ppb		98
3) Chloromethane	2.733	50	3004853	9.45	ppb		99
4) 1,1-Dichloroethene	4.083	96	2110416	14.31	ppb		97
5) Methylene Chloride	4.713	84	2800264	11.44	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	2623746	11.55	ppb		100
7) 1,1-Dichloroethane	5.546	63	4627710	10.55	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	2786347	10.65	ppb		94
9) Chloroform	6.377	83	5159486	10.30	ppb		99
10) Carbon Tetrachloride	6.543	117	3767946	12.99	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	4718727	11.98	ppb		100
12) Benzene	6.994	78	9454398	10.65	ppb		100
14) 1,2-Dichloroethane	7.198	62	3615367	10.71	ppb		99
15) Trichloroethene	7.564	95	2955722	11.89	ppb		98
16) 1,2-Dichloropropane	8.105	63	2485857	10.14	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	3347102	11.22	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	2827150	11.76	ppb		100
21) Tetrachloroethene	9.399	166	3036745	12.05	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
Data File : Z62044.D  
Acq On : 3 Sep 2020 11:40 am  
Operator : shanicao  
Sample : ICC2408-5  
Misc : MS46458,VZ2408,,,,,  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 12:07:56 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Mon Jun 08 12:29:45 2020  
Response via : Initial Calibration



7.6.5  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62045.D  
 Acq On : 3 Sep 2020 11:59 am  
 Operator : shanicao  
 Sample : IC2408-6  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 03 12:16:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3196001	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2443895	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1051841	4.90	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	98.00%	
19) Toluene-d8	8.961	98	3027479	5.48	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	4378556	14.04	ppb		98
3) Chloromethane	2.733	50	4551242	14.89	ppb		99
4) 1,1-Dichloroethene	4.083	96	3066264	21.21	ppb		99
5) Methylene Chloride	4.713	84	4012715	16.58	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	3838318	17.24	ppb		99
7) 1,1-Dichloroethane	5.543	63	6756600	15.47	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	4062378	15.85	ppb		94
9) Chloroform	6.377	83	7531102	15.34	ppb		98
10) Carbon Tetrachloride	6.543	117	5562204	19.57	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	6908579	17.89	ppb		100
12) Benzene	6.994	78	13884250	15.61	ppb		100
14) 1,2-Dichloroethane	7.198	62	5390318	16.04	ppb		99
15) Trichloroethene	7.564	95	4368807	17.93	ppb		98
16) 1,2-Dichloropropane	8.105	63	3668654	15.27	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	5087870	17.40	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	4379634	18.63	ppb		100
21) Tetrachloroethene	9.399	166	4500176	18.25	ppb		99

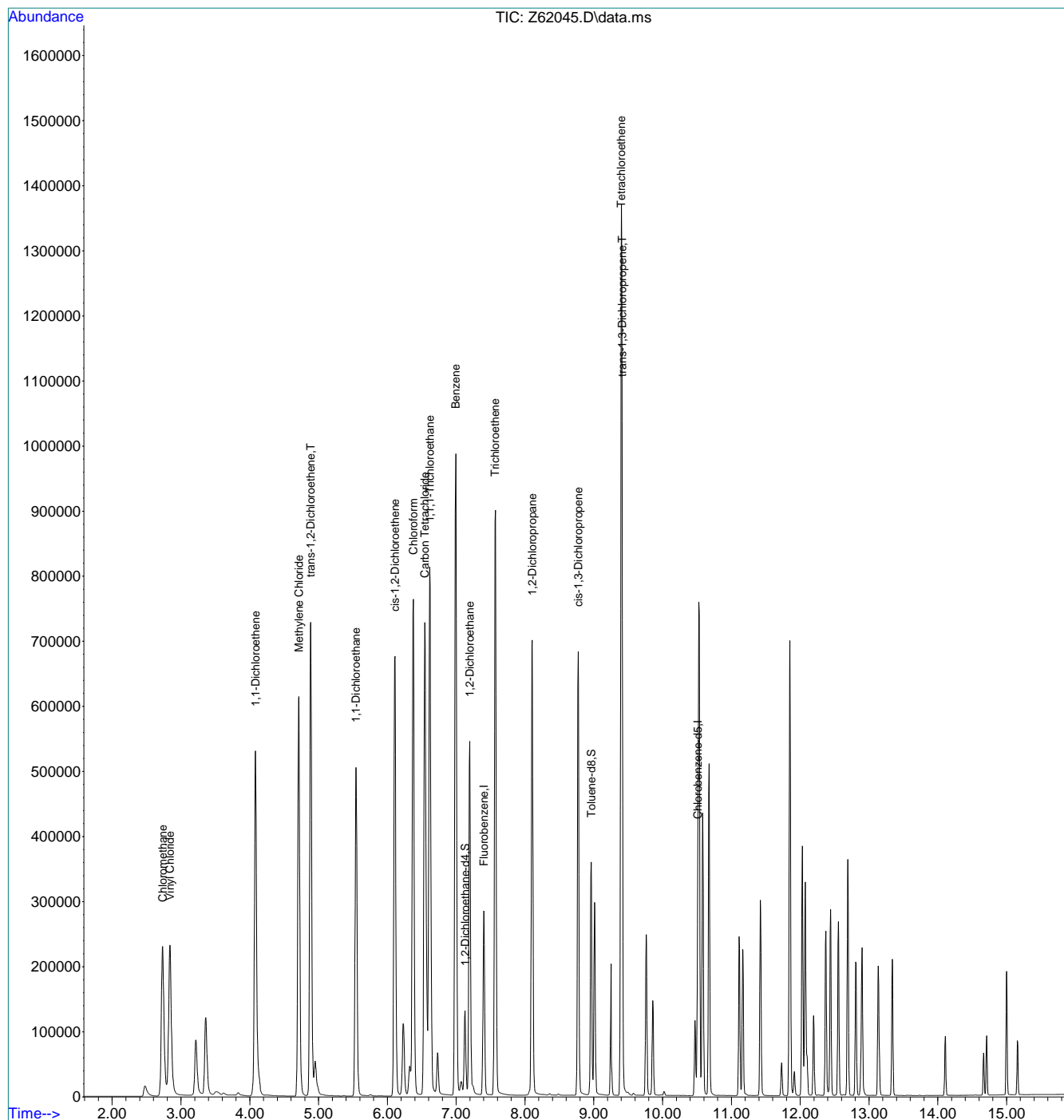
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62045.D  
 Acq On : 3 Sep 2020 11:59 am  
 Operator : shanicao  
 Sample : IC2408-6  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 03 12:16:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



9.9.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:35:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2938110	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2256895m	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	963232	4.88	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	97.60%		
19) Toluene-d8	8.961	98	2784483	5.46	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	109.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	5627397	19.63	ppb		98
3) Chloromethane	2.737	50	5928894	21.65	ppb		100
4) 1,1-Dichloroethene	4.083	96	4008221	30.16	ppb		97
5) Methylene Chloride	4.713	84	5136689	22.86	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	5027216	24.57	ppb		100
7) 1,1-Dichloroethane	5.546	63	8782985	21.49	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	5293616	22.46	ppb		94
9) Chloroform	6.377	83	9822563	21.76	ppb		98
10) Carbon Tetrachloride	6.543	117	7287855	27.89	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	8989931	25.32	ppb		99
12) Benzene	6.994	78	17863042	21.32	ppb		99
14) 1,2-Dichloroethane	7.198	62	6887900	21.91	ppb		99
15) Trichloroethene	7.571	95	5698644	25.45	ppb		91
16) 1,2-Dichloropropane	8.105	63	4715015	21.35	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	6610083	24.59	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	5737207m	26.42	ppb		
21) Tetrachloroethene	9.399	166	5790603	25.42	ppb		99

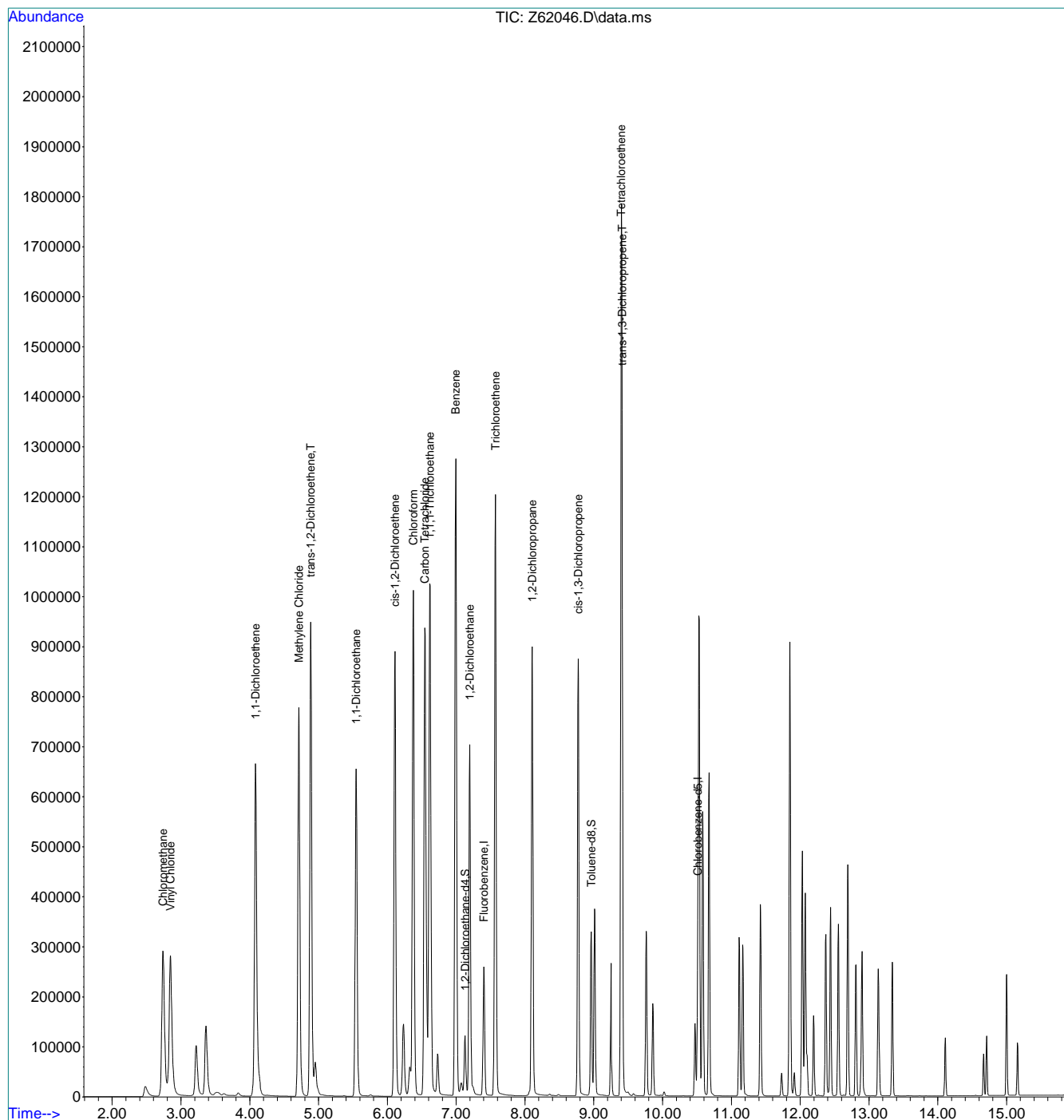
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.67  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:35:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6.7  
7

# Manual Integration Approval Summary

**Sample Number:** VZ2408-IC2408      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62046.D      **Analyst approved:** 09/03/20 13:54 Shanica O'Connor  
**Injection Time:** 09/03/20 12:18      **Supervisor approved:** 09/03/20 15:13 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
trans-1,3-Dichloropropene	10061-02-6		9.41	Missed peak
Chlorobenzene-D5	3114-55-4		10.51	Missed peak

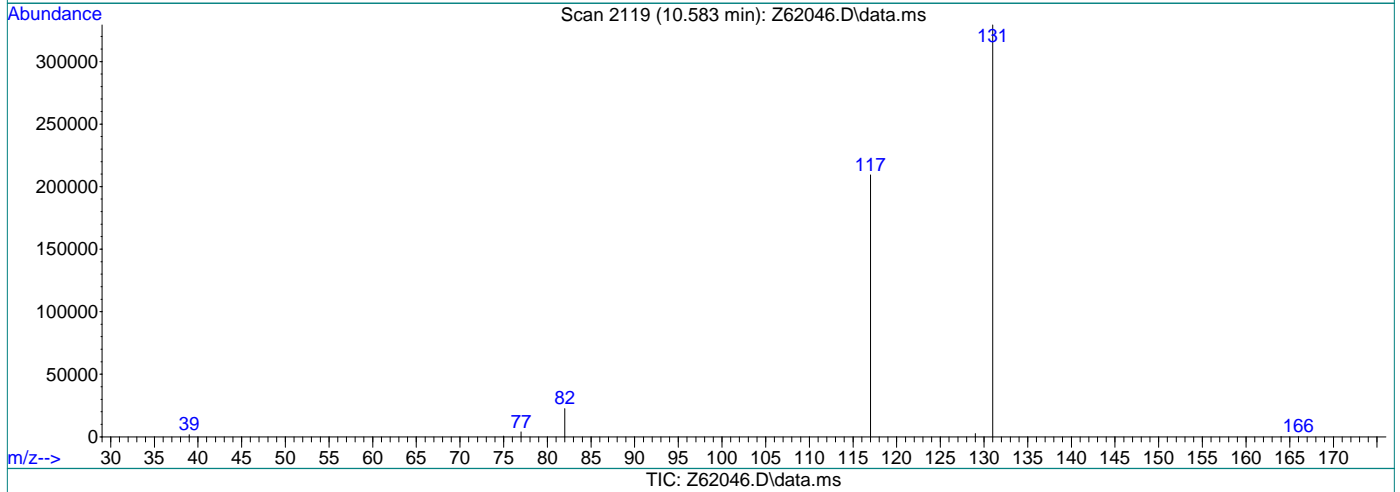
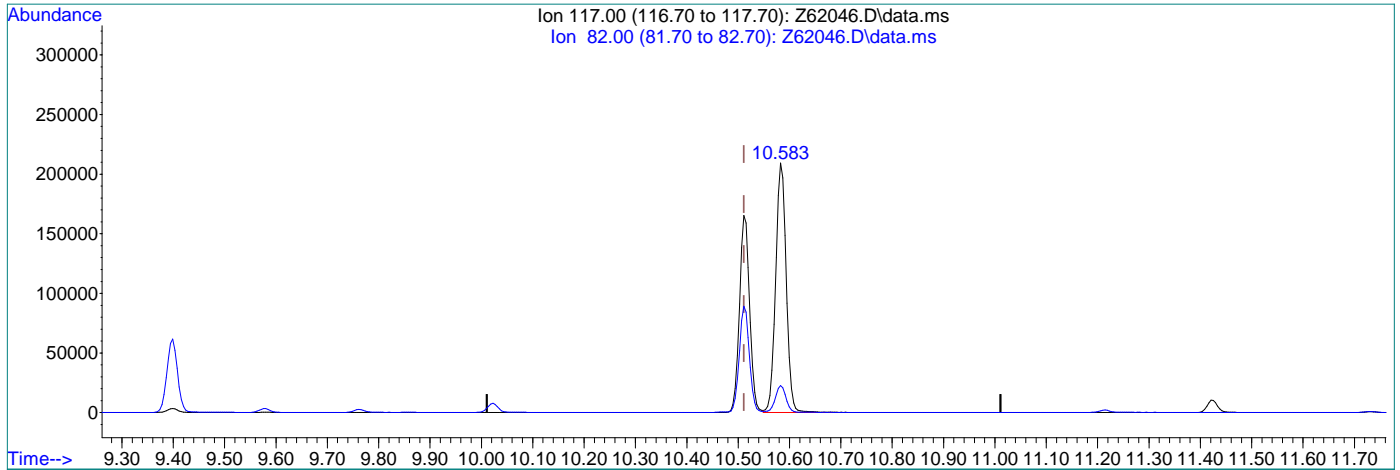
7.6.7.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)  
 10.583min (+0.072) 5.00ppb  
 response 2971404

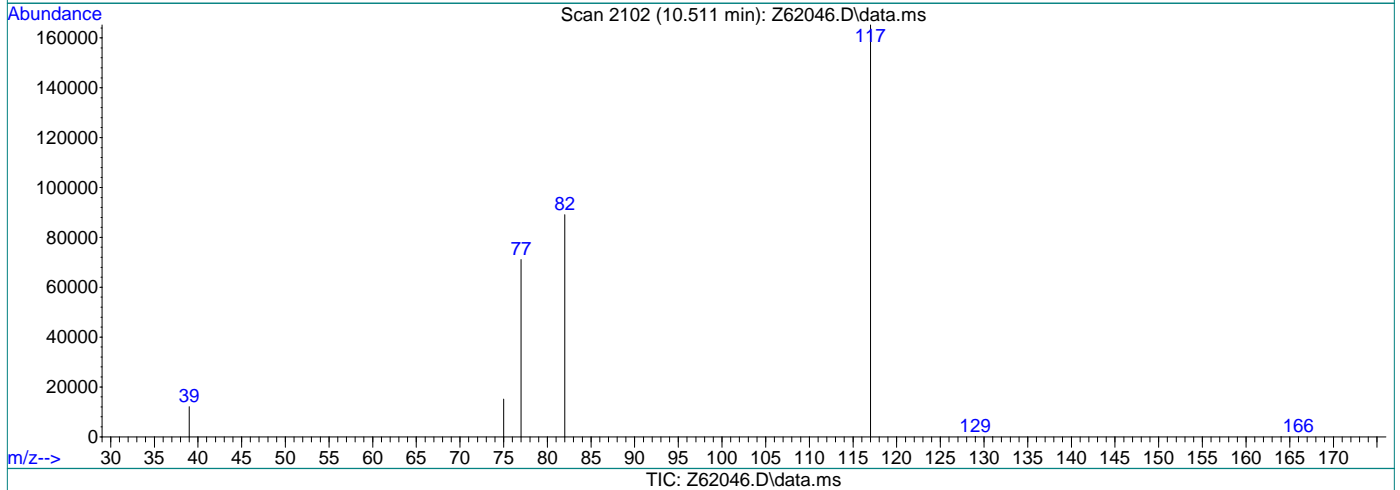
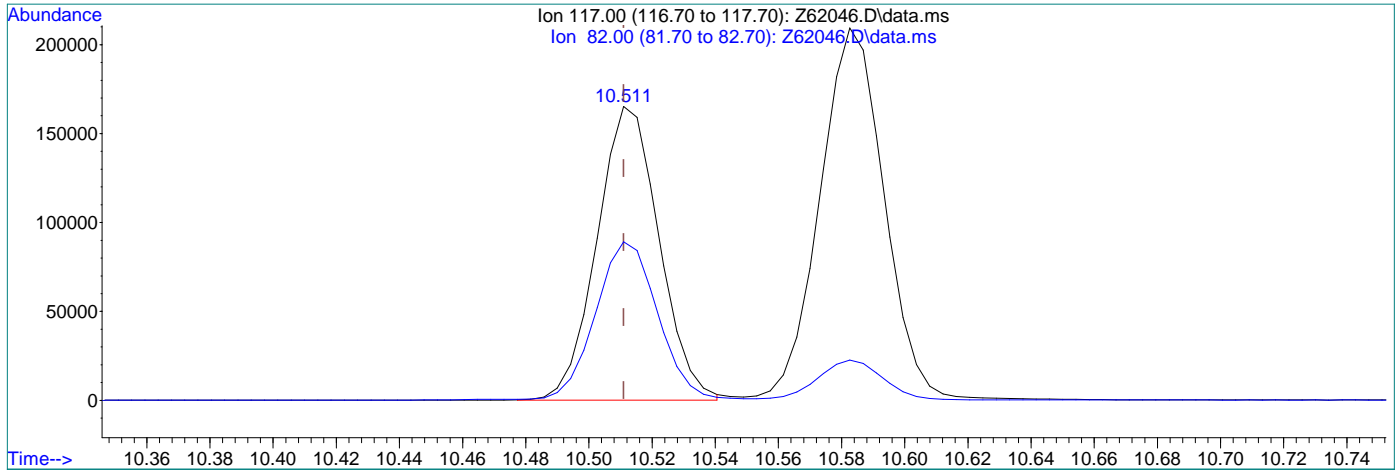
Ion	Exp%	Act%
117.00	100	100
82.00	52.30	10.84#
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



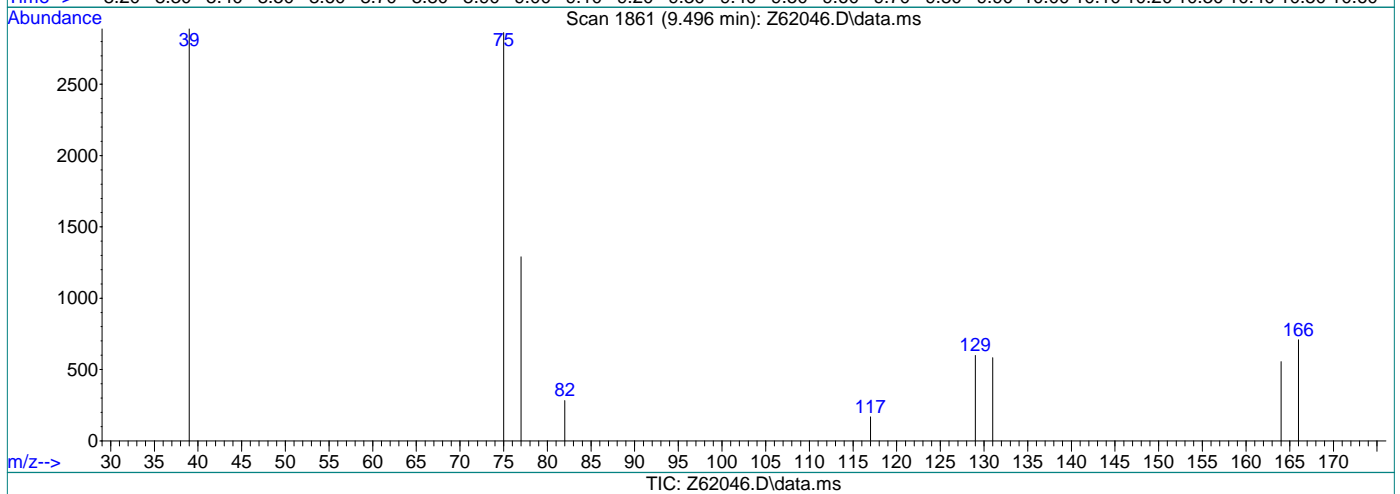
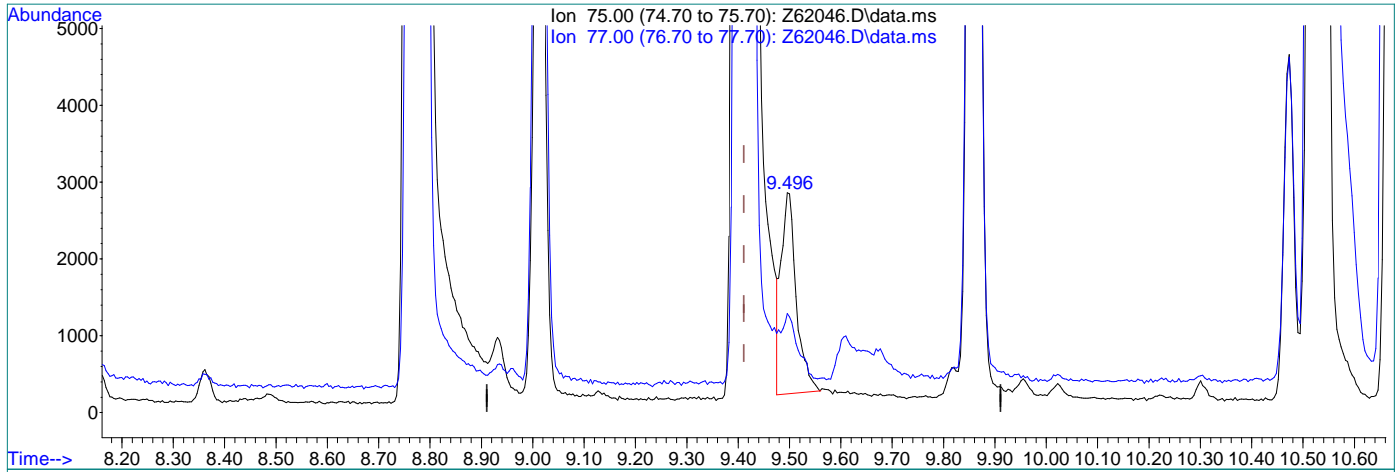
(18) Chlorobenzene-d5 (l)  
 10.511min (+0.000) 5.00ppb m  
 response 2256895

Ion	Exp%	Act%
117.00	100	100
82.00	52.30	14.27#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.496min (+0.085) 0.25ppb

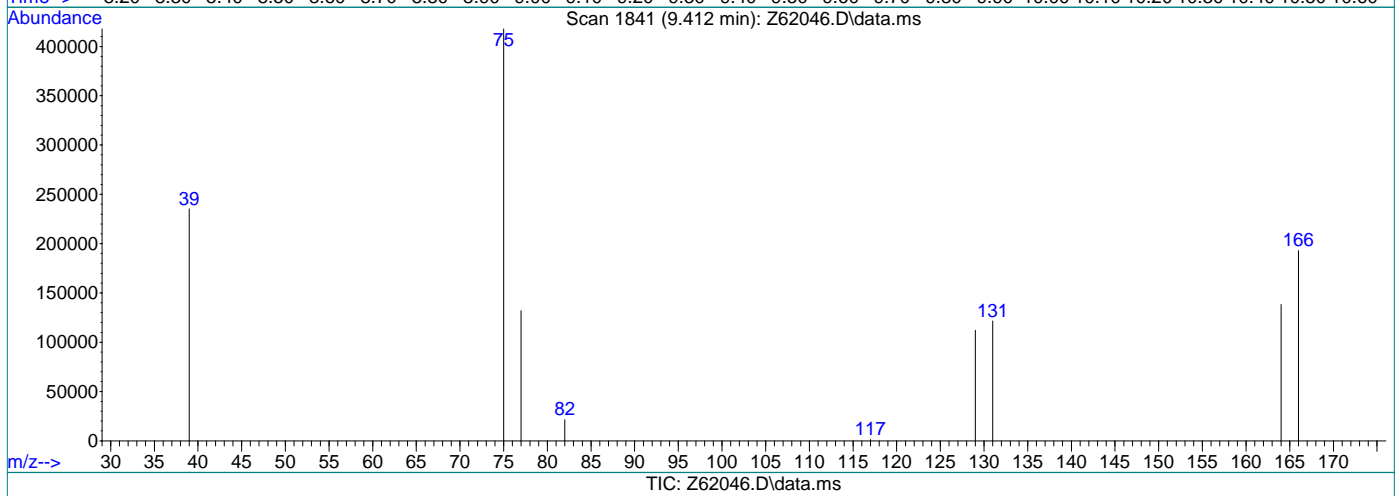
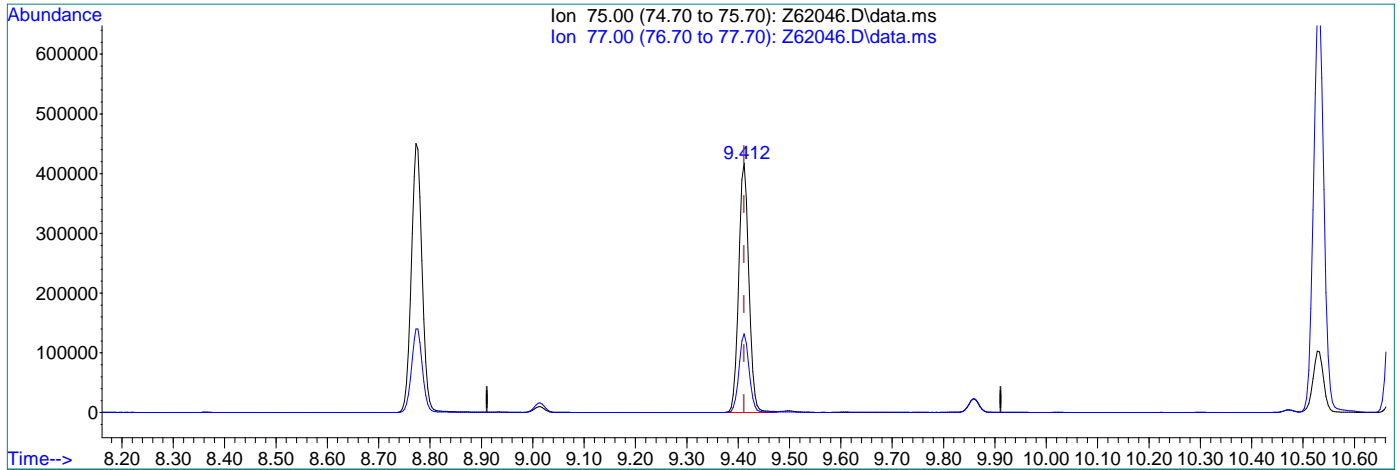
response 54281

Ion	Exp%	Act%
75.00	100	100
77.00	31.30	32.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.412min (+0.001) 26.42ppb m

response 5737207

Ion	Exp%	Act%
75.00	100	100
77.00	31.30	31.59
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.5  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2408\  
 Data File : Z62048.d  
 Acq On : 3 Sep 2020 12:57 pm  
 Operator : shanicao  
 Sample : cc2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 01:01:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2703421	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2067570	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	904830	5.17	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	103.40%	
19) Toluene-d8	8.961	98	2565152	4.99	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	2360196	9.69	ppb		100
3) Chloromethane	2.737	50	2554199	10.15	ppb		99
4) 1,1-Dichloroethene	4.083	96	1601477	9.39	ppb		99
5) Methylene Chloride	4.713	84	2264575	9.71	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	2053096	9.67	ppb		100
7) 1,1-Dichloroethane	5.546	63	3757114	9.67	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	2254117	9.69	ppb		99
9) Chloroform	6.377	83	4170126	9.65	ppb		99
10) Carbon Tetrachloride	6.543	117	2909066	9.58	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	3691887	9.68	ppb		100
12) Benzene	6.994	78	7934663	9.94	ppb		99
14) 1,2-Dichloroethane	7.198	62	3100443	10.81	ppb		100
15) Trichloroethene	7.564	95	2526004	10.12	ppb		99
16) 1,2-Dichloropropane	8.105	63	2106428	10.41	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	2664551	9.85	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	2239218	8.90	ppb		100
21) Tetrachloroethene	9.399	166	2435376	9.82	ppb		100
-----							

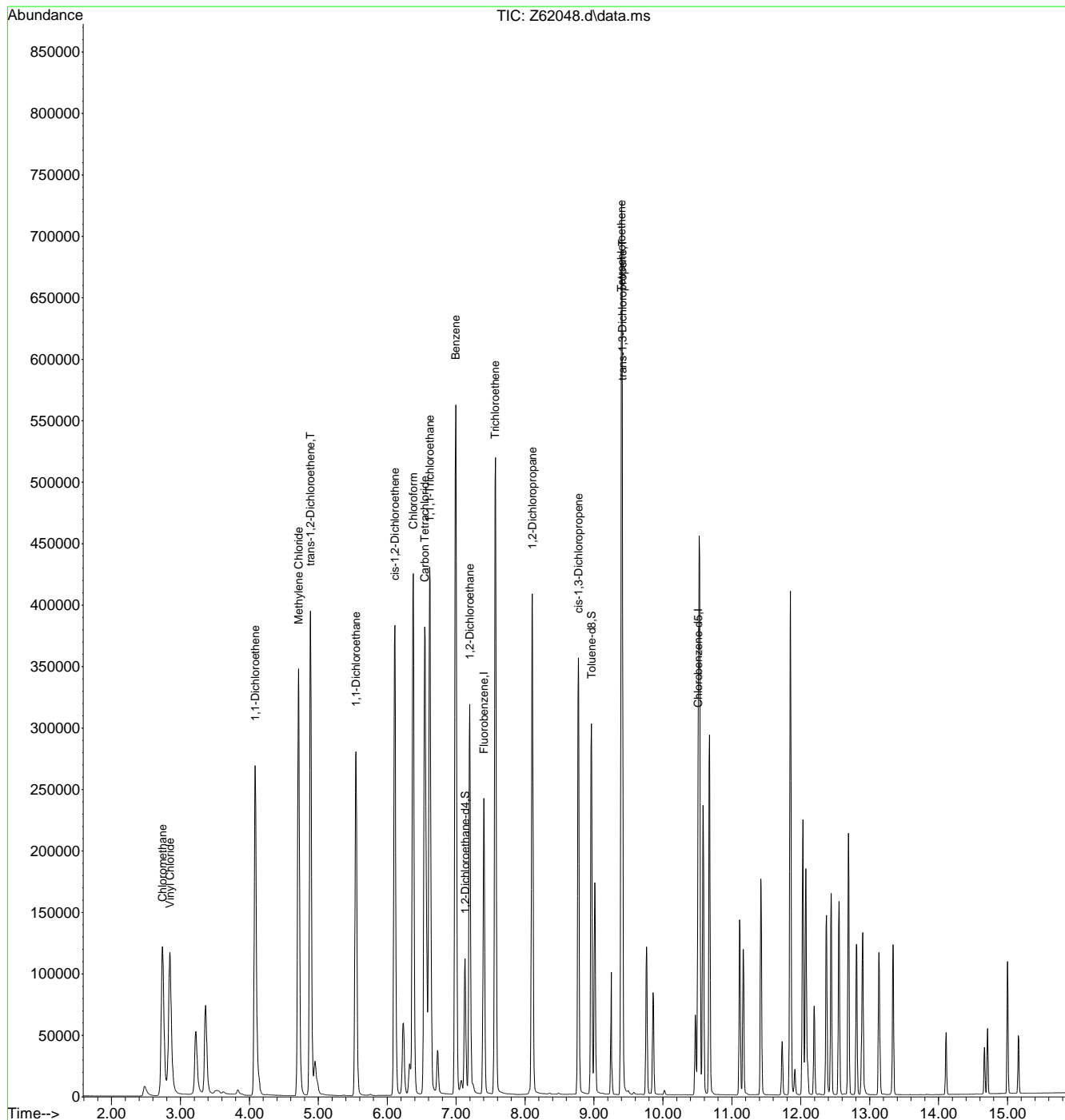
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.68  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2408\  
 Data File : Z62048.d  
 Acq On : 3 Sep 2020 12:57 pm  
 Operator : shanicao  
 Sample : cc2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 01:01:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



8'9'7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\VZ2410\  
 Data File : Z62108.d  
 Acq On : 5 Sep 2020 11:24 am  
 Operator : stutip  
 Sample : cc2408-5  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 20:22:33 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2429349	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1846856	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	865699	5.50	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	110.00%	
19) Toluene-d8	8.958	98	2272773	4.95	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	2491129	11.28	ppb		100
3) Chloromethane	2.733	50	2736504	11.94	ppb		99
4) 1,1-Dichloroethene	4.083	96	1573690	10.21	ppb		97
5) Methylene Chloride	4.713	84	2272119	10.84	ppb		97
6) trans-1,2-Dichloroethene	4.886	96	2028364	10.56	ppb		99
7) 1,1-Dichloroethane	5.543	63	3781828	10.83	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	2182356	10.44	ppb		93
9) Chloroform	6.371	83	4173697	10.75	ppb		100
10) Carbon Tetrachloride	6.543	117	2602851	9.54	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	3486888	10.14	ppb		100
12) Benzene	6.987	78	7589763	10.58	ppb		94
14) 1,2-Dichloroethane	7.191	62	3213557	12.47	ppb		100
15) Trichloroethene	7.564	95	2297967	10.24	ppb		98
16) 1,2-Dichloropropane	8.101	63	2047332	11.26	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	2538935	10.38	ppb		99
20) trans-1,3-Dichloropropene	9.407	75	2256848	10.04	ppb		99
21) Tetrachloroethene	9.399	166	2228828	10.04	ppb		99
-----							

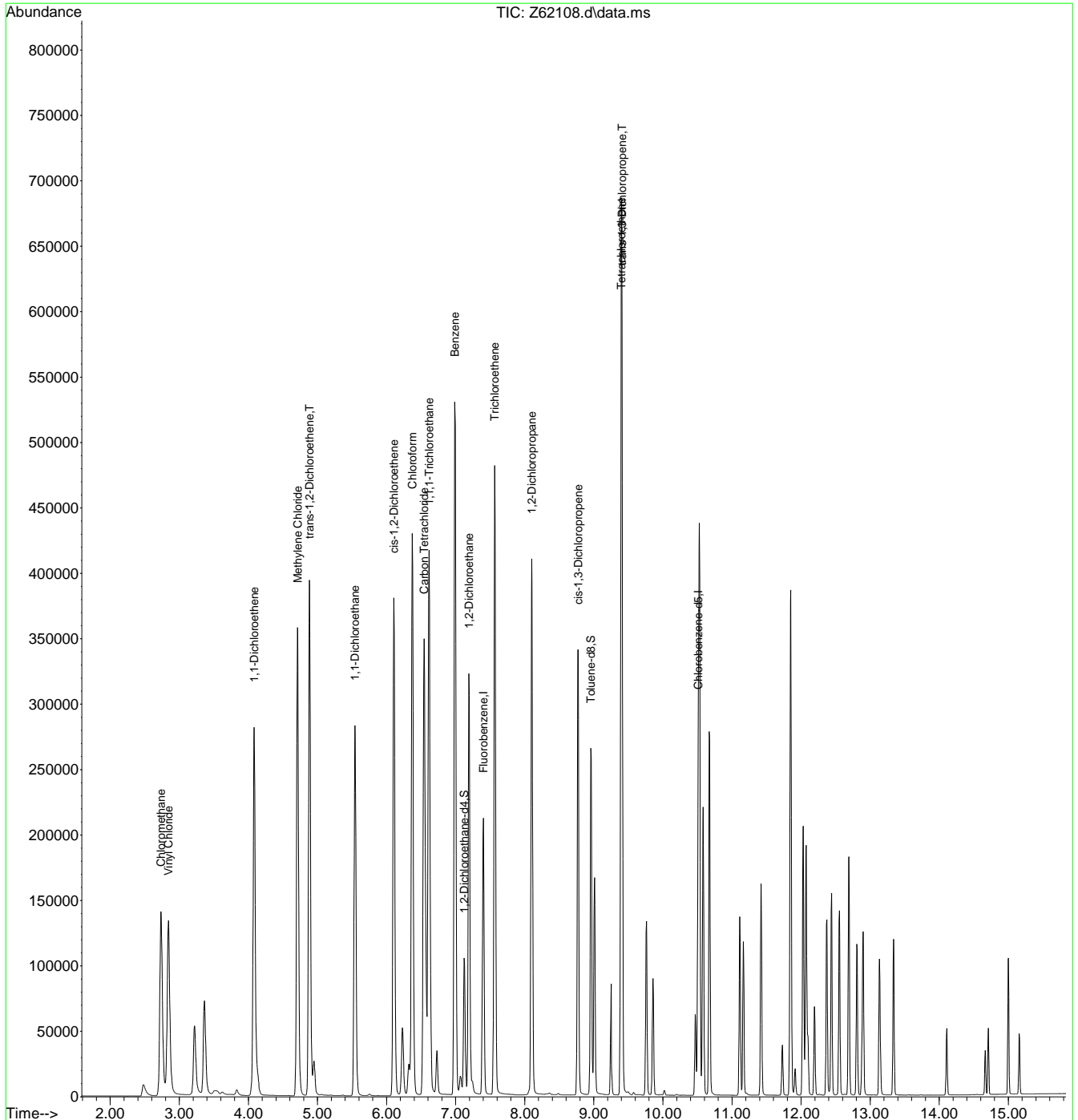
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
 Data File : Z62108.d  
 Acq On : 5 Sep 2020 11:24 am  
 Operator : stutip  
 Sample : cc2408-5  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 20:22:33 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
 Data File : Z62132.D  
 Acq On : 5 Sep 2020 8:50 pm  
 Operator : stutip  
 Sample : ecc2408-5  
 Misc : MS47137,VZ2410,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 08 20:23:23 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1790216	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1389196	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	692932	5.97	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	119.40%	
19) Toluene-d8	8.961	98	1630401	4.72	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1913056	11.73	ppb		99
3) Chloromethane	2.733	50	1797644	10.74	ppb		99
4) 1,1-Dichloroethene	4.083	96	1088880	9.63	ppb		91
5) Methylene Chloride	4.713	84	1452600	9.41	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	1310445	9.35	ppb		92
7) 1,1-Dichloroethane	5.546	63	2534851	9.85	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	1365372	8.86	ppb		94
9) Chloroform	6.377	83	2765665	9.67	ppb		100
10) Carbon Tetrachloride	6.543	117	1753408	8.79	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	2363063	9.37	ppb		100
12) Benzene	6.994	78	4928781	9.32	ppb		97
14) 1,2-Dichloroethane	7.198	62	2106996	11.10	ppb		99
15) Trichloroethene	7.564	95	1504061	9.10	ppb		98
16) 1,2-Dichloropropane	8.105	63	1329403	9.92	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	1318808	7.58	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	1152745	6.82	ppb		100
21) Tetrachloroethene	9.399	166	1432807	8.66	ppb		99

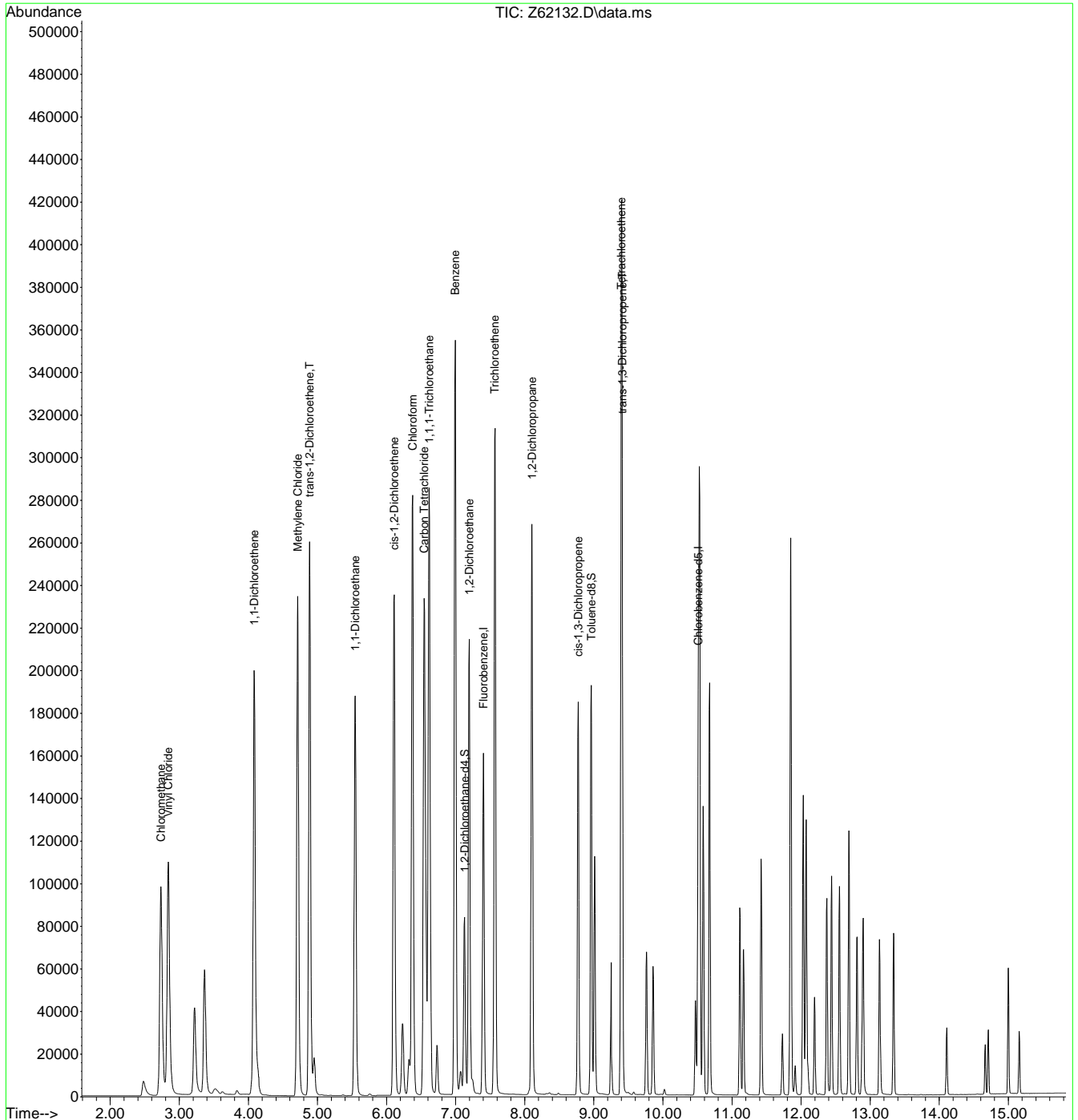
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
 Data File : Z62132.D  
 Acq On : 5 Sep 2020 8:50 pm  
 Operator : stutip  
 Sample : ecc2408-5  
 Misc : MS47137,VZ2410,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 08 20:23:23 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.6.10  
7

MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/03/20		METHOD FILE(s): SimCl		BFB: V25942A		PH LOT: 1 to 12 pH lot #. 200814					
COLUMN TYPE: RTX-VMS		METHOD FILE(s): simcl090320.m		ICAL/CC: VS0934, VS0792		0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD		CALIB. DATE: 09/03/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0907, VS0793		Processed BY: SO/JF					
PURGE PRESSURE: 9.7psi		BFB Response: 38738678		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL		RUN ID: VZ2408		DATE VERIFIED: 09/03/20		SO					
ANALYST: Shanika O.											
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62037	BLK	-	-	w	1	acq_simcl0214		-	-	-	✓
Z62038	BLK	-	-	w	2	acq_simcl0214		-	-	-	✓
Z62039	BFB	-	-	w	100	bfb		-	-	-	✓ Passed Autofind
Z62040	IC2408-1	-	-	w	1	acq_simcl0214		-	-	-	1µL→100mL ✓
Z62041	IC2408-2	-	-	w	2	acq_simcl0214		-	-	-	5µL→100mL ✓
Z62042	IC2408-3	-	-	w	3	acq_simcl0214		-	-	-	10µL→50mL ✓
Z62043	IC2408-4	-	-	w	4	acq_simcl0214		-	-	-	25µL→50mL ✓
Z62044	IC2408-5	-	-	w	5	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62045	IC2408-6	-	-	w	6	acq_simcl0214		-	-	-	75µL→50mL ✓
Z62046	IC2408-7	-	-	w	7	acq_simcl0214	#18,20(MP)	-	-	-	100µL→50mL ✓
Z62047	BLK	-	-	w	8	acq_simcl0214		-	-	-	✓
Z62048	ICV2408-5	-	-	w	9	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62049	BS	-	-	w	10	acq_simcl0214		-	-	-	✓
Z62050	MB	-	-	w	11	acq_simcl0214		-	-	-	ND✓
Z62051	FA78405-2MS	1X	2	w	12	acq_simcl0214		1	NO	-	20µL→40mL ✓
Z62052	FA78405-2MSD	1X	2	w	13	acq_simcl0214		1	NO	-	20µL→40mL ✓
Z62053	FA78153-5	1X	3	w	14	acq_simcl0214		1	NO	-	✓
Z62054	FA78405-1	1X	1	w	15	acq_simcl0214		1	NO	-	ND✓
Z62055	FA78405-2	1X	1	w	16	acq_simcl0214		1	NO	-	✓
Z62056	FA78405-3	1X	1	w	17	acq_simcl0214		1	NO	-	ND✓
Z62057	FA78406-1	1X	1	w	18	acq_simcl0214		1	NO	-	✓
Z62058	FA78398-1	1X	2	w	19	acq_simcl0214		1	NO	-	ND✓
Z62059	FA78398-2	1X	1	w	20	acq_simcl0214		1	NO	-	✓
Z62060	FA78398-3	1X	1	w	21	acq_simcl0214		1	NO	-	✓
Z62061	FA78398-4	1X	1	w	22	acq_simcl0214		1	NO	-	ND✓
Z62062	FA78398-5	1X	1	w	23	acq_simcl0214		1	NO	-	✓
Z62063	FA78398-6	1X	1	w	24	acq_simcl0214		1	NO	-	✓
Z62064	FA78398-7	1X	1	w	25	acq_simcl0214		1	NO	-	✓
Z62065	FA78398-8	1X	1	w	26	acq_simcl0214		1	NO	-	✓
Z62066	FA78398-9	1X	1	w	27	acq_simcl0214		1	NO	-	✓
Z62067	FA78398-10	1X	1	w	28	acq_simcl0214		1	NO	-	✓
Z62068	ECC2408-5	-	-	w	29	acq_simcl0214		-	-	-	50µL→50mL ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005. Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rationale SOP\_QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration.

Analyst's Signature: *Shanika O.*

DATE: 09/05/20		METHOD FILE(s): simcl090320.m		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814					
COLUMN TYPE: RTX-VMS		CALIB. DATE: 09/03/20		ICAL/CC: VS0934, VS0792		0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD		EM VOLTAGE: 1718V		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		BFB Response: 20985395		ICV/QC: VS0907, VS0793		Processed BY: EdessaS					
PURGE PRESSURE: 9.7psi		RUN ID: VZ2410		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL						stutip					
ANALYST: stutip						DATE VERIFIED: 09/08/20					
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62101	BLK	-	-	W	1	acq_simcl0214		-	?	-	✓
Z62102	BLK	-	-	W	2	acq_simcl0214		-	-	-	✓
Z62103	BFB	-	-	W	3	bfb		-	-	-	Passed Autofind
Z62104	cond. std	-	-	W	4	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62105	blk	-	-	W	5	acq_simcl0214		-	-	-	
Z62106	blk	-	-	W	6	acq_simcl0214		-	-	-	
Z62107	bfb	-	-	W	7	bfb		-	-	-	
Z62108	cc2408-5	-	-	W	1	acq_simcl0214		-	-	-	Passed Autofind
Z62109	bs	-	-	W	2	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62110	mb	-	-	W	3	acq_simcl0214		-	-	-	20µL→40mL
Z62111	mb	-	-	W	4	acq_simcl0214		-	-	-	xNot used
Z62112	FA78445-21	-	1	W	5	acq_simcl0214		1	n	-	ND✓
Z62113	FA78445-22	-	1	W	6	acq_simcl0214		1	n	-	✓
Z62114	FA78445-23	-	1	W	7	acq_simcl0214		1	n	-	✓
Z62115	FA78445-24	-	1	W	8	acq_simcl0214		1	n	-	✓
Z62116	FA78445-25	-	1	W	9	acq_simcl0214		1	n	-	✓
Z62117	FA78445-1	-	2	W	10	acq_simcl0214		1	n	-	✓
Z62118	FA78445-11	-	2	W	11	acq_simcl0214		1	n	-	✓
Z62119	FA78445-12	-	2	W	12	acq_simcl0214		1	n	-	ND✓
Z62120	FA78445-13	-	2	W	13	acq_simcl0214		1	n	-	✓
Z62121	FA78445-14	-	2	W	14	acq_simcl0214		1	n	-	ND✓
Z62122	FA78445-15	-	2	W	15	acq_simcl0215		1	n	-	✓
Z62123	FA78445-16	-	2	W	16	acq_simcl0216		1	n	-	✓
Z62124	FA78445-17	-	2	W	17	acq_simcl0215		1	n	1x	surr↑
Z62125	FA78445-18	-	3	W	18	acq_simcl0216		1	n	-	surr↑, ND✓
Z62126	FA78445-19	-	2	W	19	acq_simcl0217		1	n	-	surr↑, ND✓
Z62127	FA78445-20	-	2	W	20	acq_simcl0218		1	n	-	surr↑, ND✓
Z62128	fa78443-1	-	1	W	21	acq_simcl0219		1	n	-	ND✓
Z62129	fa78443-2	-	1	W	22	acq_simcl0220		1	n	-	surr↑, ND✓
Z62130	fa78445-21ms.10	-	1	W	23	acq_simcl0221	5ml-50ml	1	n	-	20µL→40mL
Z62131	fa78445-21msd.10	-	1	W	24	acq_simcl0222	5ml-50ml	1	n	-	20µL→40mL
Z62132	ecc2408-5	-	-	W	25	acq_simcl0222		-	-	-	50µL→50mL ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005. Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration.



The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

SGS Job Number: FA78445

Sampling Date: 09/01/20



Report to:

Ahtna Global, LLC  
9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
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hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: **268**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA78445

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA78445-1	09/01/20	08:38 RMCG	09/03/20	AQ	Ground Water	2036X0BW190F
FA78445-2	09/01/20	09:02 RMCG	09/03/20	AQ	Ground Water	2036X0BW191F
FA78445-3	09/01/20	09:20 RMCG	09/03/20	AQ	Ground Water	2036X0BW192F
FA78445-4	09/01/20	09:36 RMCG	09/03/20	AQ	Ground Water	2036X0BW193F
FA78445-5	09/01/20	09:55 RMCG	09/03/20	AQ	Ground Water	2036X0BW194F
FA78445-6	09/01/20	10:09 RMCG	09/03/20	AQ	Ground Water	2036X0BW195F
FA78445-7	09/01/20	10:25 RMCG	09/03/20	AQ	Ground Water	2036X0BW196F
FA78445-8	09/01/20	10:50 RMCG	09/03/20	AQ	Ground Water	2036X0BW197F
FA78445-9	09/01/20	11:18 RMCG	09/03/20	AQ	Ground Water	2036X0BW198F
FA78445-10	09/01/20	11:20 RMCG	09/03/20	AQ	Ground Water	2036X0BW199D
FA78445-11	09/01/20	11:59 RMCG	09/03/20	AQ	Ground Water	2036X0BW200F
FA78445-12	09/01/20	12:22 RMCG	09/03/20	AQ	Ground Water	2036X0BW201F
FA78445-13	09/01/20	12:38 RMCG	09/03/20	AQ	Ground Water	2036X0BW202F



## Sample Summary

(continued)

Ahtna Global, LLC

**Job No:** FA78445

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP A)

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA78445-14	09/01/20	14:01	RMCG09/03/20	AQ	Ground Water	2036X0BW203F
FA78445-15	09/01/20	14:35	RMCG09/03/20	AQ	Ground Water	2036X0BW204F
FA78445-16	09/01/20	14:15	RMCG09/03/20	AQ	Ground Water	2036X0BW205F
FA78445-17	09/01/20	15:15	RMCG09/03/20	AQ	Ground Water	2036X0BW206F
FA78445-18	09/01/20	15:41	RMCG09/03/20	AQ	Ground Water	2036X0BW207F
FA78445-19	09/01/20	15:51	RMCG09/03/20	AQ	Ground Water	2036X0BW208C
FA78445-20	09/01/20	08:00	RMCG09/03/20	AQ	Trip Blank Water	2036X0BW209A
FA78445-21	09/01/20	09:42	THLH 09/03/20	AQ	Trip Blank Water	2036W0BW090A
FA78445-22	09/01/20	09:45	THLH 09/03/20	AQ	Ground Water	2036W0BW091F
FA78445-23	09/01/20	10:40	THLH 09/03/20	AQ	Ground Water	2036W0BW092F
FA78445-24	09/01/20	10:42	THLH 09/03/20	AQ	Ground Water	2036W0BW093D
FA78445-25	09/01/20	13:50	THLH 09/03/20	AQ	Ground Water	2036W0BW095F

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78445

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/18/2020 12:17:18

23 Sample(s), 2 Trip Blank(s) and 0 Field Blank(s) were collected on 09/01/2020 and were received at SGS North America Inc - Orlando on 09/03/2020 properly preserved, at 2.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA78445. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ

**Batch ID:** VO2350

All samples were analyzed within the recommended method holding time.

Sample(s) FA78445-1MS, FA78445-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA78445-17 have surrogates outside control limits. Confirmation run for surrogate recoveries.

FA78445-1: Sample used for QC purposes only.

FA78445-8 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits high.

FA78445-9 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits high, sample was ND.

FA78445-10 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits high, sample was ND.

FA78445-17: Confirmation run for surrogate recoveries.

**Matrix:** AQ

**Batch ID:** VZ2410

All samples were analyzed within the recommended method holding time.

Sample(s) FA78445-21MS, FA78445-21MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA78445-17, FA78445-18, FA78445-19, FA78445-20 have surrogates outside control limits.

FA78445-1 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-11 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-12 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-13 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-14 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-15 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-16 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-17 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-18 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-19 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-20 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-22 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-23 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-24 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78445-25 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA78445  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/01/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
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**FA78445-1      2036X0BW190F**

Carbon Tetrachloride	1.2	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.14 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	0.35 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78445-2      2036X0BW191F**

Carbon Tetrachloride	0.69	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.46 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78445-3      2036X0BW192F**

No hits reported in this sample.

**FA78445-4      2036X0BW193F**

Carbon Tetrachloride	0.33 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.79	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78445-5      2036X0BW194F**

Carbon Tetrachloride	0.64	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78445-6      2036X0BW195F**

Carbon Tetrachloride	1.9	0.50	0.25	ug/l	SW846 8260B BY SIM
Chloroform	0.22 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78445-7      2036X0BW196F**

Carbon Tetrachloride	0.22 J	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78445-8      2036X0BW197F**

Carbon Tetrachloride	0.62	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78445-9      2036X0BW198F**

No hits reported in this sample.

**FA78445-10      2036X0BW199D**

No hits reported in this sample.

## Summary of Hits

**Job Number:** FA78445  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/01/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
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**FA78445-11 2036X0BW200F**

Chloroform 0.18 J 0.50 0.25 ug/l SW846 8260B BY SIM

**FA78445-12 2036X0BW201F**

No hits reported in this sample.

**FA78445-13 2036X0BW202F**

Carbon Tetrachloride 0.97 0.50 0.25 ug/l SW846 8260B BY SIM

Chloroform 0.34 J 0.50 0.25 ug/l SW846 8260B BY SIM

**FA78445-14 2036X0BW203F**

No hits reported in this sample.

**FA78445-15 2036X0BW204F**

Carbon Tetrachloride 0.15 J 0.50 0.25 ug/l SW846 8260B BY SIM

Chloroform 0.19 J 0.50 0.25 ug/l SW846 8260B BY SIM

**FA78445-16 2036X0BW205F**

Carbon Tetrachloride 0.12 J 0.50 0.25 ug/l SW846 8260B BY SIM

**FA78445-17 2036X0BW206F**

Carbon Tetrachloride 0.55 0.50 0.25 ug/l SW846 8260B BY SIM

**FA78445-18 2036X0BW207F**

No hits reported in this sample.

**FA78445-19 2036X0BW208C**

No hits reported in this sample.

**FA78445-20 2036X0BW209A**

No hits reported in this sample.

**FA78445-21 2036W0BW090A**

No hits reported in this sample.



## Summary of Hits

**Job Number:** FA78445  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/01/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
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**FA78445-22      2036W0BW091F**

1,2-Dichloroethene (total)	0.15 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	0.47 J	0.50	0.25	ug/l	SW846 8260B BY SIM

**FA78445-23      2036W0BW092F**

Trichloroethylene	0.12 J	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78445-24      2036W0BW093D**

Trichloroethylene	0.12 J	0.50	0.25	ug/l	SW846 8260B BY SIM
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**FA78445-25      2036W0BW095F**

Carbon Tetrachloride	0.13 J	0.50	0.25	ug/l	SW846 8260B BY SIM
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Sample Results

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Report of Analysis

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# Report of Analysis

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<b>Client Sample ID:</b>	2036X0BW190F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-1	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62117.D	1	09/05/20 14:56	SP	n/a	n/a	VZ2410
Run #2 <sup>a</sup>	O61077.D	1	09/03/20 21:27	SP	n/a	n/a	VO2350

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	1.2	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.14	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.35	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	121% <sup>b</sup>	105%	74-125%
2037-26-5	Toluene-D8	99%	100%	88-111%

(a) Sample used for QC purposes only.

(b) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

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<b>Client Sample ID:</b>	2036X0BW191F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-2	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61081.D	1	09/03/20 22:49	SP	n/a	n/a	VO2350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.69	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.46	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	112%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036X0BW192F	<b>Date Sampled:</b> 09/01/20
<b>Lab Sample ID:</b> FA78445-3	<b>Date Received:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61082.D	1	09/03/20 23:09	SP	n/a	n/a	VO2350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		74-125%
2037-26-5	Toluene-D8	94%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

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<b>Client Sample ID:</b>	2036X0BW193F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-4	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61083.D	1	09/03/20 23:30	SP	n/a	n/a	VO2350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.33	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.79	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		74-125%
2037-26-5	Toluene-D8	92%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

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<b>Client Sample ID:</b>	2036X0BW194F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-5	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61084.D	1	09/03/20 23:50	SP	n/a	n/a	VO2350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.64	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		74-125%
2037-26-5	Toluene-D8	94%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW195F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-6	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61085.D	1	09/04/20 00:10	SP	n/a	n/a	VO2350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	1.9	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.22	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	117%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



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<b>Client Sample ID:</b>	2036X0BW196F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-7	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61086.D	1	09/04/20 00:31	SP	n/a	n/a	VO2350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.22	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%		74-125%
2037-26-5	Toluene-D8	94%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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<b>Client Sample ID:</b>	2036X0BW197F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-8	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61087.D	1	09/04/20 00:51	SP	n/a	n/a	VO2350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.62	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	120% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	93%		88-111%

(a) Outside DOD QSM control limits high.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW198F	<b>Date Sampled:</b> 09/01/20
<b>Lab Sample ID:</b> FA78445-9	<b>Date Received:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61088.D	1	09/04/20 01:11	SP	n/a	n/a	VO2350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	122% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	94%		88-111%

(a) Outside DOD QSM control limits high, sample was ND.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW199D	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-10	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61089.D	1	09/04/20 01:32	SP	n/a	n/a	VO2350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	122% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	91%		88-111%

(a) Outside DOD QSM control limits high, sample was ND.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW200F	
<b>Lab Sample ID:</b> FA78445-11	<b>Date Sampled:</b> 09/01/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/03/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62118.D	1	09/05/20 15:19	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.18	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	122% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	99%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW201F	
<b>Lab Sample ID:</b> FA78445-12	<b>Date Sampled:</b> 09/01/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/03/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62119.D	1	09/05/20 15:42	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	123% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	98%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b> 2036X0BW202F	
<b>Lab Sample ID:</b> FA78445-13	<b>Date Sampled:</b> 09/01/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/03/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62120.D	1	09/05/20 16:06	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.97	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.34	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	124% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	99%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.13  
4

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<b>Client Sample ID:</b> 2036X0BW203F	
<b>Lab Sample ID:</b> FA78445-14	<b>Date Sampled:</b> 09/01/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/03/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62121.D	1	09/05/20 16:30	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	124% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	99%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.14  
4



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<b>Client Sample ID:</b>	2036X0BW204F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-15	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62122.D	1	09/05/20 16:54	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.15	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.19	0.50	0.25	0.10	ug/l	J
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	125% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	98%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW205F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-16	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62123.D	1	09/05/20 17:17	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.12	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	125% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	98%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

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<b>Client Sample ID:</b>	2036X0BW206F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-17	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62124.D	1	09/05/20 17:41	SP	n/a	n/a	VZ2410
Run #2 <sup>a</sup>	O61096.D	1	09/04/20 03:54	SP	n/a	n/a	VO2350

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.55	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	126% <sup>b</sup>	132% <sup>b</sup>	74-125%
2037-26-5	Toluene-D8	97%	97%	88-111%

(a) Confirmation run for surrogate recoveries.

(b) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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<b>Client Sample ID:</b>	2036X0BW207F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-18	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62125.D	1	09/05/20 18:05	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	126% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	96%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

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<b>Client Sample ID:</b> 2036X0BW208C	<b>Date Sampled:</b> 09/01/20
<b>Lab Sample ID:</b> FA78445-19	<b>Date Received:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62126.D	1	09/05/20 18:28	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	127% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	95%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036X0BW209A	<b>Date Sampled:</b> 09/01/20
<b>Lab Sample ID:</b> FA78445-20	<b>Date Received:</b> 09/03/20
<b>Matrix:</b> AQ - Trip Blank Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62127.D	1	09/05/20 18:52	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	127% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	99%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW090A	
<b>Lab Sample ID:</b> FA78445-21	<b>Date Sampled:</b> 09/01/20
<b>Matrix:</b> AQ - Trip Blank Water	<b>Date Received:</b> 09/03/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62112.D	1	09/05/20 12:58	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		74-125%
2037-26-5	Toluene-D8	101%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> 2036W0BW091F	<b>Date Sampled:</b> 09/01/20
<b>Lab Sample ID:</b> FA78445-22	<b>Date Received:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62113.D	1	09/05/20 13:22	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.15	0.50	0.25	0.10	ug/l	J
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.47	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	119% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	100%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW092F	<b>Date Sampled:</b> 09/01/20
<b>Lab Sample ID:</b> FA78445-23	<b>Date Received:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62114.D	1	09/05/20 13:46	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.12	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	119% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	100%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW093D	<b>Date Sampled:</b> 09/01/20
<b>Lab Sample ID:</b> FA78445-24	<b>Date Received:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62115.D	1	09/05/20 14:09	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.12	0.50	0.25	0.10	ug/l	J
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	120% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	100%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	2036W0BW095F	<b>Date Sampled:</b>	09/01/20
<b>Lab Sample ID:</b>	FA78445-25	<b>Date Received:</b>	09/03/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62116.D	1	09/05/20 14:33	SP	n/a	n/a	VZ2410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.13	0.50	0.25	0.10	ug/l	J
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.050 U	0.10	0.050	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	121% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	100%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

CADS2026  
Ahtna

CHAIN OF CUSTODY

FA78445  
WATER / SOIL

Chain of Custody #: 0118  
Carbon Copies: White - Laboratory Yellow - Ahtna

10#3

Project Information:										Analysis Requested					Lab Sample Receipt		
Project Location: Former Fort Ord, CA					Sampler/s: R. MIKOVILTA, C. GARLIT					VOCS 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery				
Project Name: FFO 3020 CWM					Report To: Derek Lieberman								Group #:				
Project Number: 21065.000.01.0000					E-Mail: dlieberman@ahntna.net								Custody Seal:				
Sampling Event/Site:					Laboratory: SGS								Temp (°C):				
Lab Number	Sample Number/Description	Sample Collection		Matrix			Number of Preserved Bottles							Notes			
		Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>		None	Other	
1	2036X0BW190F	9-1-20	0838	X			3	3								X	
2	2036X0BW191F	9-1-20	0902	X			3	3								X	
3	2036X0BW192F	9-1-20	0920	X			3	3								X	
4	2036X0BW193F	9-1-20	0936	X			3	3								X	
5	2036X0BW194F	9-1-20	0955	X			3	3								X	
6	2036X0BW195F	9-1-20	1009	X			3	3								X	
7	2036X0BW196F	9-1-20	1025	X			3	3								X	
8	2036X0BW197F	9-1-20	1050	X			3	3								X	
9	2036X0BW198F	9-1-20	1118	X			3	3								X	
10	2036X0BW199D	9-1-20	1120	X			2	2								X	
11	2036X0BW200F	9-1-20	1159	X			3	3								X	
12	2036X0BW201F	9-1-20	1222	X			3	3								X	
13	2036X0BW202F	9-1-20	1238	X			3	3								X	
14	2036X0BW203F	9-1-20	1401	X			3	3								X	
15	2036X0BW204F	9-1-20	1435	X			3	3								X	

Turnaround Time:  Standard  3-5 Day Rush  48 Hour Rush  24 Hour Rush

Comments: INITIAL ACCESSION MK

REMEDICATION AK

OUCTP-A

Chain of Custody Tracking:

Relinquished By Sampler: <i>R. Mikovilta</i>	Date/Time: 9-1-20 11650	Received By: <i>[Signature]</i>	Date/Time: 9/1/20 1652
Relinquished By: <i>[Signature]</i>	Date/Time: 9/2/20 1045	Received By: <i>Loe Bantz</i>	Date/Time: 9/2/20 0945
Relinquished By: <i>Loe Bantz</i>	Date/Time: 9/2/20 1500	Received By: <i>FLORE</i>	Date/Time: 9/2/20 1500
		<i>[Signature]</i>	2.8 9/3/20 945

FA78445: Chain of Custody

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5.1  
5



CADS2026  
Ahtna

CHAIN OF CUSTODY

FA78445  
WATER / SOIL

Chain of Custody #: 0120  
Carbon Copies: White - Laboratory Yellow - Ahtna

20F3

Project Information:										Analysis Requested			Lab Sample Receipt				
Project Location: <u>Former Fort Ord, CA</u>			Sampler/s: <u>R. Mikovitch, C. Garcia</u>							VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery				
Project Name: <u>FFU 362200 CWM</u>			Report To: <u>Derek Lieberman</u>										Group #: _____				
Project Number: <u>21065.000.01.0000</u>			E-Mail: <u>dlieberman@ahntna.net</u>										Custody Seal: _____				
Sampling Event/Site: _____			Laboratory: <u>SGS</u>										Temp (°C): _____				
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles						Notes					
	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH		NaHSO <sub>4</sub>	None	Other		
16	2036XBW205F	9-1-20	1451	X		3	3								X		
17	2036XBW206F	9-1-20	1515	X		3	3								X		
18	2036XBW207F	9-1-20	1541	X		3	3								X		
19	2036XBW208C	9-1-20	1551	X		3	3								X		Time = 1551
20	2036XBW209A	9-1-20	0800	X		2	2								X		

Turnaround Time:  Standard \_\_\_\_\_ : 3-5 Day Rush \_\_\_\_\_ : 48 Hour Rush \_\_\_\_\_ : 24 Hour Rush \_\_\_\_\_

Comments: \_\_\_\_\_

DUCTP-A

Chain of Custody Tracking:

Relinquished By: <u>[Signature]</u>	Date/Time: <u>9-1-2020 / 1650</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/1/20 1652</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/2/20 1045</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/2/20 1045</u>
Relinquished By: <u>[Signature]</u> Fedex	Date/Time: <u>9/2/20 1500</u>	Received By: <u>[Signature]</u> Fedex	Date/Time: <u>9/2/20 1500</u>
			Date/Time: <u>9/3/20 945</u>

FA78445: Chain of Custody

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5.1  
5



CAD52026  
Ahtna

CHAIN OF CUSTODY

FA98445  
WATER / SOIL

Chain of Custody #: 0129  
Carbon Copies: White - Laboratory Yellow - Ahtna

3 of 2

Project Information:										Analysis Requested										Lab Sample Receipt	
Project Location: <u>Former Fort Ord, CA</u>					Sampler/s: <u>T. Hoang / L. Henderson</u>					VOCs 8260 - SIM Metals 6010 C Chloride 9056A					Laboratory Sample Delivery						
Project Name: <u>FTO GWMP</u>					Report To: <u>Derek Lieberman</u>										Group #:						
Project Number: <u>21065.000.01.0000</u>					E-Mail: <u>dlieberman@ahntna.net</u>					Custody Seal:											
Sampling Event/Site: <u>3G2020</u>					Laboratory: <u>SGS</u>					Temp (°C):											
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles										Notes					
	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	H <sub>2</sub> O <sub>2</sub>	None	Other							
21	2036W08BW090A	09/01/20	0942	X		2	2								X						
22	2036W08BW091F		0945	X		3	3								X						
23	2036W08BW092F		1040	X		3	3								X						
24	2036W08BW093D		1042	X		3	3								X						
25	2036W08BW095F		1350	X		3	3								X						

Turnaround Time:  Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush  
 Shipment: Method: Tracking ID:

Comments:  
DUCTP-A

Chain of Custody Tracking:			
Relinquished By Sampler:	Date/Time: <u>09/01/20 - 1540</u>	Received By:	Date/Time: <u>9/1/20 1600</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/1/20 1045</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/2/20 1045</u>
Relinquished By: <u>Lee Bantz</u>	Date/Time: <u>9/2/20 1500</u>	Received By Laboratory: <u>Fedex</u>	Date/Time: <u>9/2/20 1500</u>
		<u>[Signature]</u>	Date/Time: <u>9/3/20 945</u>

5.1  
5

## SGS Sample Receipt Summary

Job Number: FA78445

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP A

Date / Time Received: 9/3/2020 9:45:00 AM

Delivery Method: FedEx

Airbill #s: 771431903999

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Sample Information**

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #: pH 0-3 230315  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 219813A

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: BRYANG

Date: 9/3/2020 9:45:00 AM

Reviewer: PH

Date: 9/6/2020

FA78445: Chain of Custody

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78445  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/01/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
--------------	------	---------	-------------	-------------	--------	-------	--------

VO2350 SW846 8260B BY SIM

VO2350-BS	56-23-5	Carbon Tetrachloride	BSP	REC	116	%	72-136
VO2350-BS	67-66-3	Chloroform	BSP	REC	108	%	79-124
VO2350-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	118	%	71-131
VO2350-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	107	%	79-121
VO2350-BS	75-09-2	Methylene Chloride	BSP	REC	86	%	74-124
VO2350-BS	127-18-4	Tetrachloroethylene	BSP	REC	114	%	74-129
VO2350-BS	79-01-6	Trichloroethylene	BSP	REC	110	%	79-123
VO2350-BS	75-01-4	Vinyl Chloride	BSP	REC	112	%	58-137
VO2350-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	81-118
VO2350-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	89-112
FA78445-1MS	56-23-5	Carbon Tetrachloride	MS	REC	106	%	72-136
FA78445-1MS	67-66-3	Chloroform	MS	REC	103	%	79-124
FA78445-1MS	75-35-4	1,1-Dichloroethylene	MS	REC	111	%	71-131
FA78445-1MS	540-59-0	1,2-Dichloroethene (total)	MS	REC	102	%	79-121
FA78445-1MS	75-09-2	Methylene Chloride	MS	REC	83	%	74-124
FA78445-1MS	127-18-4	Tetrachloroethylene	MS	REC	108	%	74-129
FA78445-1MS	79-01-6	Trichloroethylene	MS	REC	103	%	79-123
FA78445-1MS	75-01-4	Vinyl Chloride	MS	REC	114	%	58-137
FA78445-1MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	98	%	81-118
FA78445-1MS	2037-26-5	Toluene-D8	MS	SURR	96	%	89-112
FA78445-1MSD	56-23-5	Carbon Tetrachloride	MSD	REC	111	%	72-136
FA78445-1MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	4	%	20
FA78445-1MSD	67-66-3	Chloroform	MSD	REC	106	%	79-124
FA78445-1MSD	67-66-3	Chloroform	MSD	RPD	3	%	20
FA78445-1MSD	75-35-4	1,1-Dichloroethylene	MSD	REC	115	%	71-131
FA78445-1MSD	75-35-4	1,1-Dichloroethylene	MSD	RPD	3	%	20
FA78445-1MSD	540-59-0	1,2-Dichloroethene (total)	MSD	REC	106	%	79-121
FA78445-1MSD	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	4	%	20
FA78445-1MSD	75-09-2	Methylene Chloride	MSD	REC	86	%	74-124
FA78445-1MSD	75-09-2	Methylene Chloride	MSD	RPD	4	%	20
FA78445-1MSD	127-18-4	Tetrachloroethylene	MSD	REC	113	%	74-129
FA78445-1MSD	127-18-4	Tetrachloroethylene	MSD	RPD	5	%	20
FA78445-1MSD	79-01-6	Trichloroethylene	MSD	REC	108	%	79-123
FA78445-1MSD	79-01-6	Trichloroethylene	MSD	RPD	5	%	20
FA78445-1MSD	75-01-4	Vinyl Chloride	MSD	REC	112	%	58-137
FA78445-1MSD	75-01-4	Vinyl Chloride	MSD	RPD	2	%	20
FA78445-1MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	97	%	81-118
FA78445-1MSD	2037-26-5	Toluene-D8	MSD	SURR	99	%	89-112
VO2350-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	108	%	81-118
VO2350-MB	2037-26-5	Toluene-D8	MB	SURR	104	%	89-112
FA78445-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FA78445-1	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112

\* Sample used for QC is not from job FA78445

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78445  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/01/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78445-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	112	%	81-118
FA78445-2	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78445-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	114	%	81-118
FA78445-3	2037-26-5	Toluene-D8	SAMP	SURR	94	%	89-112
FA78445-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	116	%	81-118
FA78445-4	2037-26-5	Toluene-D8	SAMP	SURR	92	%	89-112
FA78445-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	116	%	81-118
FA78445-5	2037-26-5	Toluene-D8	SAMP	SURR	94	%	89-112
FA78445-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	117	%	81-118
FA78445-6	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78445-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	118	%	81-118
FA78445-7	2037-26-5	Toluene-D8	SAMP	SURR	94	%	89-112
FA78445-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	120 <sup>a</sup>	%	81-118
FA78445-8	2037-26-5	Toluene-D8	SAMP	SURR	93	%	89-112
FA78445-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	122 <sup>b</sup>	%	81-118
FA78445-9	2037-26-5	Toluene-D8	SAMP	SURR	94	%	89-112
FA78445-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	122 <sup>b</sup>	%	81-118
FA78445-10	2037-26-5	Toluene-D8	SAMP	SURR	91	%	89-112
FA78445-17	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	132 <sup>c</sup>	%	81-118
FA78445-17	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
VZ2410 SW846 8260B BY SIM							
VZ2410-BS	56-23-5	Carbon Tetrachloride	BSP	REC	76	%	72-136
VZ2410-BS	67-66-3	Chloroform	BSP	REC	80	%	79-124
VZ2410-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	82	%	71-131
VZ2410-BS	540-59-0	1,2-Dichloroethene (total)	BSP	REC	80	%	79-121
VZ2410-BS	75-09-2	Methylene Chloride	BSP	REC	80	%	74-124
VZ2410-BS	127-18-4	Tetrachloroethylene	BSP	REC	82	%	74-129
VZ2410-BS	79-01-6	Trichloroethylene	BSP	REC	82	%	79-123
VZ2410-BS	75-01-4	Vinyl Chloride	BSP	REC	104	%	58-137
VZ2410-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	112	%	81-118
VZ2410-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	89-112
FA78445-21MS	56-23-5	Carbon Tetrachloride	MS	REC	87	%	72-136
FA78445-21MS	67-66-3	Chloroform	MS	REC	99	%	79-124
FA78445-21MS	75-35-4	1,1-Dichloroethylene	MS	REC	99	%	71-131
FA78445-21MS	540-59-0	1,2-Dichloroethene (total)	MS	REC	94	%	79-121
FA78445-21MS	75-09-2	Methylene Chloride	MS	REC	100	%	74-124
FA78445-21MS	127-18-4	Tetrachloroethylene	MS	REC	93	%	74-129
FA78445-21MS	79-01-6	Trichloroethylene	MS	REC	99	%	79-123
FA78445-21MS	75-01-4	Vinyl Chloride	MS	REC	122	%	58-137
FA78445-21MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	124 <sup>c</sup>	%	81-118
FA78445-21MS	2037-26-5	Toluene-D8	MS	SURR	94	%	89-112
FA78445-21MSD	56-23-5	Carbon Tetrachloride	MSD	REC	84	%	72-136
FA78445-21MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	4	%	20

\* Sample used for QC is not from job FA78445

5.2  
5

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78445  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/01/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78445-21MSD	67-66-3	Chloroform	MSD	REC	94	%	79-124
FA78445-21MSD	67-66-3	Chloroform	MSD	RPD	6	%	20
FA78445-21MSD	75-35-4	1,1-Dichloroethylene	MSD	REC	95	%	71-131
FA78445-21MSD	75-35-4	1,1-Dichloroethylene	MSD	RPD	4	%	20
FA78445-21MSD	540-59-0	1,2-Dichloroethene (total)	MSD	REC	90	%	79-121
FA78445-21MSD	540-59-0	1,2-Dichloroethene (total)	MSD	RPD	5	%	20
FA78445-21MSD	75-09-2	Methylene Chloride	MSD	REC	96	%	74-124
FA78445-21MSD	75-09-2	Methylene Chloride	MSD	RPD	4	%	20
FA78445-21MSD	127-18-4	Tetrachloroethylene	MSD	REC	90	%	74-129
FA78445-21MSD	127-18-4	Tetrachloroethylene	MSD	RPD	4	%	20
FA78445-21MSD	79-01-6	Trichloroethylene	MSD	REC	93	%	79-123
FA78445-21MSD	79-01-6	Trichloroethylene	MSD	RPD	6	%	20
FA78445-21MSD	75-01-4	Vinyl Chloride	MSD	REC	118	%	58-137
FA78445-21MSD	75-01-4	Vinyl Chloride	MSD	RPD	3	%	20
FA78445-21MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	123 <sup>c</sup>	%	81-118
FA78445-21MSD	2037-26-5	Toluene-D8	MSD	SURR	95	%	89-112
VZ2410-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	115	%	81-118
VZ2410-MB	2037-26-5	Toluene-D8	MB	SURR	102	%	89-112
FA78445-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	121 <sup>c</sup>	%	81-118
FA78445-1	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78445-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	122 <sup>c</sup>	%	81-118
FA78445-11	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78445-12	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	123 <sup>c</sup>	%	81-118
FA78445-12	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FA78445-13	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	124 <sup>c</sup>	%	81-118
FA78445-13	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78445-14	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	124 <sup>c</sup>	%	81-118
FA78445-14	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78445-15	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	125 <sup>c</sup>	%	81-118
FA78445-15	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FA78445-16	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	125 <sup>c</sup>	%	81-118
FA78445-16	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FA78445-17	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	126 <sup>c</sup>	%	81-118
FA78445-17	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FA78445-18	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	126 <sup>c</sup>	%	81-118
FA78445-18	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FA78445-19	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	127 <sup>c</sup>	%	81-118
FA78445-19	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FA78445-20	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	127 <sup>c</sup>	%	81-118
FA78445-20	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FA78445-21	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	116	%	81-118
FA78445-21	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FA78445-22	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	119 <sup>c</sup>	%	81-118
FA78445-22	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78445-23	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	119 <sup>c</sup>	%	81-118

\* Sample used for QC is not from job FA78445

## QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78445  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/01/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA78445-23	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78445-24	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	120 <sup>c</sup>	%	81-118
FA78445-24	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FA78445-25	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	121 <sup>c</sup>	%	81-118
FA78445-25	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112

- (a) Outside DOD QSM control limits high.
- (b) Outside DOD QSM control limits high, sample was ND.
- (c) Outside DOD QSM control limits.

\* Sample used for QC is not from job FA78445

## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2350-MB	O61076.D	1	09/03/20	SP	n/a	n/a	VO2350

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78445-2, FA78445-3, FA78445-4, FA78445-5, FA78445-6, FA78445-7, FA78445-8, FA78445-9, FA78445-10

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	108%	74-125%
2037-26-5	Toluene-D8	104%	88-111%

**Method Blank Summary**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2410-MB	Z62110.D	1	09/05/20	SP	n/a	n/a	VZ2410

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78445-1, FA78445-11, FA78445-12, FA78445-13, FA78445-14, FA78445-15, FA78445-16, FA78445-17, FA78445-18, FA78445-19, FA78445-20, FA78445-21, FA78445-22, FA78445-23, FA78445-24, FA78445-25

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.10	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	115%	74-125%
2037-26-5	Toluene-D8	102%	88-111%

**Blank Spike Summary**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2350-BS	O61075.D	1	09/03/20	SP	n/a	n/a	VO2350

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78445-2, FA78445-3, FA78445-4, FA78445-5, FA78445-6, FA78445-7, FA78445-8, FA78445-9, FA78445-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.8	116	76-136
67-66-3	Chloroform	5	5.4	108	80-124
75-35-4	1,1-Dichloroethylene	5	5.9	118	78-137
540-59-0	1,2-Dichloroethene (total)	10	10.7	107	76-127
75-09-2	Methylene Chloride	5	4.3	86	69-135
127-18-4	Tetrachloroethylene	5	5.7	114	76-135
79-01-6	Trichloroethylene	5	5.5	110	81-126
75-01-4	Vinyl Chloride	5	5.6	112	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

\* = Outside of Control Limits.



**Blank Spike Summary**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2410-BS	Z62109.D	1	09/05/20	SP	n/a	n/a	VZ2410

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78445-1, FA78445-11, FA78445-12, FA78445-13, FA78445-14, FA78445-15, FA78445-16, FA78445-17, FA78445-18, FA78445-19, FA78445-20, FA78445-21, FA78445-22, FA78445-23, FA78445-24, FA78445-25

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	3.8	76	76-136
67-66-3	Chloroform	5	4.0	80	80-124
75-35-4	1,1-Dichloroethylene	5	4.1	82	78-137
540-59-0	1,2-Dichloroethene (total)	10	8.0	80	76-127
75-09-2	Methylene Chloride	5	4.0	80	69-135
127-18-4	Tetrachloroethylene	5	4.1	82	76-135
79-01-6	Trichloroethylene	5	4.1	82	81-126
75-01-4	Vinyl Chloride	5	5.2	104	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	112%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78445-1MS	O61078.D	10	09/03/20	SP	n/a	n/a	VO2350
FA78445-1MSD	O61079.D	10	09/03/20	SP	n/a	n/a	VO2350
FA78445-1 <sup>a</sup>	O61077.D	1	09/03/20	SP	n/a	n/a	VO2350

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78445-2, FA78445-3, FA78445-4, FA78445-5, FA78445-6, FA78445-7, FA78445-8, FA78445-9, FA78445-10

CAS No.	Compound	FA78445-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	1.6	50	54.8	106	50	57.0	111	4	76-136/23
67-66-3	Chloroform	0.50 U	50	51.3	103	50	53.1	106	3	80-124/15
75-35-4	1,1-Dichloroethylene	0.50 U	50	55.4	111	50	57.3	115	3	78-137/18
540-59-0	1,2-Dichloroethene (total)	0.50 U	100	102	102	100	106	106	4	76-127/17
75-09-2	Methylene Chloride	2.0 U	50	41.4	83	50	42.9	86	4	69-135/16
127-18-4	Tetrachloroethylene	0.50 U	50	53.9	108	50	56.5	113	5	76-135/16
79-01-6	Trichloroethylene	0.34 J	50	52.0	103	50	54.5	108	5	81-126/15
75-01-4	Vinyl Chloride	0.10 U	50	57.0	114	50	55.8	112	2	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA78445-1	Limits
17060-07-0	1,2-Dichloroethane-D4	98%	97%	105%	74-125%
2037-26-5	Toluene-D8	96%	99%	100%	88-111%

(a) Sample used for QC purposes only.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78445-21MS	Z62130.D	10	09/05/20	SP	n/a	n/a	VZ2410
FA78445-21MSD	Z62131.D	10	09/05/20	SP	n/a	n/a	VZ2410
FA78445-21	Z62112.D	1	09/05/20	SP	n/a	n/a	VZ2410

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78445-1, FA78445-11, FA78445-12, FA78445-13, FA78445-14, FA78445-15, FA78445-16, FA78445-17, FA78445-18, FA78445-19, FA78445-20, FA78445-21, FA78445-22, FA78445-23, FA78445-24, FA78445-25

CAS No.	Compound	FA78445-21 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	50	43.6	87	50	41.9	84	4	76-136/23	
67-66-3	Chloroform	0.50 U	50	49.6	99	50	46.9	94	6	80-124/15	
75-35-4	1,1-Dichloroethylene	0.50 U	50	49.3	99	50	47.6	95	4	78-137/18	
540-59-0	1,2-Dichloroethene (total)	0.50 U	100	93.7	94	100	89.5	90	5	76-127/17	
75-09-2	Methylene Chloride	2.0 U	50	49.9	100	50	47.9	96	4	69-135/16	
127-18-4	Tetrachloroethylene	0.50 U	50	46.6	93	50	44.9	90	4	76-135/16	
79-01-6	Trichloroethylene	0.50 U	50	49.4	99	50	46.3	93	6	81-126/15	
75-01-4	Vinyl Chloride	0.10 U	50	61.0	122	50	59.0	118	3	69-159/18	

CAS No.	Surrogate Recoveries	MS	MSD	FA78445-21	Limits
17060-07-0	1,2-Dichloroethane-D4	124% <sup>a</sup>	123% <sup>a</sup>	116%	74-125%
2037-26-5	Toluene-D8	94%	95%	101%	88-111%

(a) Outside DOD QSM control limits.

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2349-BFB	<b>Injection Date:</b> 09/03/20
<b>Lab File ID:</b> O61058.D	<b>Injection Time:</b> 12:00
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	251437	32.1	Pass
75	30.0 - 60.0% of mass 95	376364	48.1	Pass
95	Base peak, 100% relative abundance	783104	100.0	Pass
96	5.0 - 9.0% of mass 95	54707	6.99	Pass
173	Less than 2.0% of mass 174	3096	0.40 (0.47) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	663147	84.7	Pass
175	5.0 - 9.0% of mass 174	44181	5.64 (6.66) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	639040	81.6 (96.4) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	40181	5.13 (6.29) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2349-IC2349	O61060.D	09/03/20	12:47	00:47	Initial cal 1
VO2349-IC2349	O61061.D	09/03/20	13:08	01:08	Initial cal 2
VO2349-IC2349	O61063.D	09/03/20	13:58	01:58	Initial cal 4
VO2349-ICC2349	O61064.D	09/03/20	14:24	02:24	Initial cal 5
VO2349-IC2349	O61066.D	09/03/20	15:26	03:26	Initial cal 7
VO2349-IC2349	O61067.D	09/03/20	15:46	03:46	Initial cal 6
VO2349-ICV2349	O61069.D	09/03/20	17:17	05:17	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2350-BFB	<b>Injection Date:</b> 09/03/20
<b>Lab File ID:</b> O61073.D	<b>Injection Time:</b> 19:56
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	236224	30.4	Pass
75	30.0 - 60.0% of mass 95	371477	47.8	Pass
95	Base peak, 100% relative abundance	777920	100.0	Pass
96	5.0 - 9.0% of mass 95	52704	6.77	Pass
173	Less than 2.0% of mass 174	3435	0.44 (0.55) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	624640	80.3	Pass
175	5.0 - 9.0% of mass 174	41808	5.37 (6.69) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	596672	76.7 (95.5) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	43981	5.65 (7.37) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2350-CC2349	O61074.D	09/03/20	20:21	00:25	Continuing cal 5
VO2350-BS	O61075.D	09/03/20	20:47	00:51	Blank Spike
VO2350-MB	O61076.D	09/03/20	21:07	01:11	Method Blank
FA78445-1	O61077.D	09/03/20	21:27	01:31	2036X0BW190F
FA78445-1MS	O61078.D	09/03/20	21:48	01:52	Matrix Spike
FA78445-1MSD	O61079.D	09/03/20	22:08	02:12	Matrix Spike Duplicate
FA78445-2	O61081.D	09/03/20	22:49	02:53	2036X0BW191F
FA78445-3	O61082.D	09/03/20	23:09	03:13	2036X0BW192F
FA78445-4	O61083.D	09/03/20	23:30	03:34	2036X0BW193F
FA78445-5	O61084.D	09/03/20	23:50	03:54	2036X0BW194F
FA78445-6	O61085.D	09/04/20	00:10	04:14	2036X0BW195F
FA78445-7	O61086.D	09/04/20	00:31	04:35	2036X0BW196F
FA78445-8	O61087.D	09/04/20	00:51	04:55	2036X0BW197F
FA78445-9	O61088.D	09/04/20	01:11	05:15	2036X0BW198F
FA78445-10	O61089.D	09/04/20	01:32	05:36	2036X0BW199D
FA78445-17	O61096.D	09/04/20	03:54	07:58	2036X0BW206F
VO2350-ECC2349	O61100.D	09/04/20	05:14	09:18	Ending cal 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2408-BFB	<b>Injection Date:</b> 09/03/20
<b>Lab File ID:</b> Z62039.D	<b>Injection Time:</b> 09:29
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	66488	21.9	Pass
75	30.0 - 60.0% of mass 95	162304	53.5	Pass
95	Base peak, 100% relative abundance	303153	100.0	Pass
96	5.0 - 9.0% of mass 95	21238	7.01	Pass
173	Less than 2.0% of mass 174	1222	0.40 (0.52) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	235477	77.7	Pass
175	5.0 - 9.0% of mass 174	16056	5.30 (6.82) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	230208	75.9 (97.8) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	15659	5.17 (6.80) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2408-IC2408	Z62040.D	09/03/20	09:52	00:23	Initial cal 1
VZ2408-IC2408	Z62041.D	09/03/20	10:11	00:42	Initial cal 2
VZ2408-IC2408	Z62042.D	09/03/20	10:59	01:30	Initial cal 3
VZ2408-IC2408	Z62043.D	09/03/20	11:18	01:49	Initial cal 4
VZ2408-ICC2408	Z62044.D	09/03/20	11:40	02:11	Initial cal 5
VZ2408-IC2408	Z62045.D	09/03/20	11:59	02:30	Initial cal 6
VZ2408-IC2408	Z62046.D	09/03/20	12:18	02:49	Initial cal 7
VZ2408-ICV2408	Z62048.D	09/03/20	12:57	03:28	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2410-BFB	<b>Injection Date:</b> 09/05/20
<b>Lab File ID:</b> Z62107.D	<b>Injection Time:</b> 10:58
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	36405	25.6	Pass
75	30.0 - 60.0% of mass 95	80739	56.7	Pass
95	Base peak, 100% relative abundance	142272	100.0	Pass
96	5.0 - 9.0% of mass 95	11246	7.90	Pass
173	Less than 2.0% of mass 174	660	0.46 (0.58) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	113523	79.8	Pass
175	5.0 - 9.0% of mass 174	7581	5.33 (6.68) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	109995	77.3 (96.9) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	7245	5.09 (6.59) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2410-CC2408	Z62108.D	09/05/20	11:24	00:26	Continuing cal 5
VZ2410-BS	Z62109.D	09/05/20	11:47	00:49	Blank Spike
VZ2410-MB	Z62110.D	09/05/20	12:11	01:13	Method Blank
FA78445-21	Z62112.D	09/05/20	12:58	02:00	2036W0BW090A
FA78445-22	Z62113.D	09/05/20	13:22	02:24	2036W0BW091F
FA78445-23	Z62114.D	09/05/20	13:46	02:48	2036W0BW092F
FA78445-24	Z62115.D	09/05/20	14:09	03:11	2036W0BW093D
FA78445-25	Z62116.D	09/05/20	14:33	03:35	2036W0BW095F
FA78445-1	Z62117.D	09/05/20	14:56	03:58	2036X0BW190F
FA78445-11	Z62118.D	09/05/20	15:19	04:21	2036X0BW200F
FA78445-12	Z62119.D	09/05/20	15:42	04:44	2036X0BW201F
FA78445-13	Z62120.D	09/05/20	16:06	05:08	2036X0BW202F
FA78445-14	Z62121.D	09/05/20	16:30	05:32	2036X0BW203F
FA78445-15	Z62122.D	09/05/20	16:54	05:56	2036X0BW204F
FA78445-16	Z62123.D	09/05/20	17:17	06:19	2036X0BW205F
FA78445-17	Z62124.D	09/05/20	17:41	06:43	2036X0BW206F
FA78445-18	Z62125.D	09/05/20	18:05	07:07	2036X0BW207F
FA78445-19	Z62126.D	09/05/20	18:28	07:30	2036X0BW208C
FA78445-20	Z62127.D	09/05/20	18:52	07:54	2036X0BW209A
ZZZZZZ	Z62128.D	09/05/20	19:15	08:17	(unrelated sample)
ZZZZZZ	Z62129.D	09/05/20	19:39	08:41	(unrelated sample)
FA78445-21MS	Z62130.D	09/05/20	20:03	09:05	Matrix Spike
FA78445-21MSD	Z62131.D	09/05/20	20:26	09:28	Matrix Spike Duplicate
VZ2410-ECC2408	Z62132.D	09/05/20	20:50	09:52	Ending cal 5

# Internal Standard Area Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b>	VO2350-CC2349	<b>Injection Date:</b>	09/03/20
<b>Lab File ID:</b>	O61074.D	<b>Injection Time:</b>	20:21
<b>Instrument ID:</b>	GCMSO	<b>Method:</b>	SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	511497	7.35	358164	10.45
Check Std <sup>b</sup>	531794	7.35	376205	10.45
Upper Limit <sup>c</sup>	1063588	7.52	752410	10.62
Lower Limit <sup>d</sup>	265897	7.18	188103	10.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VO2350-BS	508185	7.34	349364	10.45
VO2350-MB	409635	7.35	277151	10.45
FA78445-1 <sup>e</sup>	268750	7.35	186416*	10.45
FA78445-1MS	464096	7.35	321801	10.45
FA78445-1MSD	480876	7.35	330219	10.45
FA78445-2	362360	7.35	254186	10.45
FA78445-3	334638	7.35	247433	10.45
FA78445-4	323761	7.35	240418	10.45
FA78445-5	314538	7.35	230869	10.45
FA78445-6	304608	7.35	211369	10.45
FA78445-7	292770	7.35	213189	10.45
FA78445-8	286769	7.35	210321	10.45
FA78445-9	277015	7.35	203129	10.45
FA78445-10	270811	7.35	203979	10.45
FA78445-17 <sup>f</sup>	233993*	7.35	165487*	10.45
VO2350-ECC2349375445	7.35	282199	10.45	

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2349-ICC2349 O61064.D 09/03/20 14:24
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
- (e) Sample used for QC purposes only.
- (f) Confirmation run for surrogate recoveries.

6.5.1  
6



# Internal Standard Area Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2410-CC2408	<b>Injection Date:</b> 09/05/20
<b>Lab File ID:</b> Z62108.D	<b>Injection Time:</b> 11:24
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
	<b>AREA</b>		<b>AREA</b>	
Initial Cal <sup>a</sup>	3260477	7.40	2497954	10.51
Check Std <sup>b</sup>	2429349	7.40	1846856	10.51
Upper Limit <sup>c</sup>	4858698	7.57	3693712	10.68
Lower Limit <sup>d</sup>	1214675	7.23	923428	10.34

<b>Lab</b>	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
<b>Sample ID</b>	<b>AREA</b>		<b>AREA</b>	
VZ2410-BS	2400264	7.40	1812082	10.51
VZ2410-MB	2061859	7.40	1514302	10.51
FA78445-21	1759736	7.40	1292095	10.51
FA78445-22	1747776	7.40	1291830	10.51
FA78445-23	1658158	7.40	1216545	10.51
FA78445-24	1701240	7.40	1253079	10.51
FA78445-25	1598021	7.40	1178047	10.51
FA78445-1	1552453	7.40	1149038	10.51
FA78445-11	1581623	7.40	1170462	10.51
FA78445-12	1601310	7.40	1178090	10.51
FA78445-13	1512464	7.40	1110282	10.51
FA78445-14	1566259	7.40	1152433	10.51
FA78445-15	1556755	7.40	1151341	10.51
FA78445-16	1547563	7.40	1141858	10.51
FA78445-17	1461015	7.40	1085750	10.51
FA78445-18	1488958	7.40	1102700	10.51
FA78445-19	1494642	7.40	1123773	10.51
FA78445-20	1618038	7.40	1197347	10.51
ZZZZZZ	1581721	7.40	1166335	10.51
ZZZZZZ	1589528	7.40	1193002	10.51
FA78445-21MS	1635582	7.40	1263864	10.51
FA78445-21MSD	1716700	7.40	1322904	10.51
VZ2410-ECC2408	1790216	7.40	1389196	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VZ2408-ICC2408 Z62044.D 09/03/20 11:40
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

6.5.2  
6

# Surrogate Recovery Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA78445-1	O61077.D	105	100
FA78445-1	Z62117.D	121 <sup>a</sup>	99
FA78445-2	O61081.D	112	99
FA78445-3	O61082.D	114	94
FA78445-4	O61083.D	116	92
FA78445-5	O61084.D	116	94
FA78445-6	O61085.D	117	99
FA78445-7	O61086.D	118	94
FA78445-8	O61087.D	120 <sup>b</sup>	93
FA78445-9	O61088.D	122 <sup>c</sup>	94
FA78445-10	O61089.D	122 <sup>c</sup>	91
FA78445-11	Z62118.D	122 <sup>a</sup>	99
FA78445-12	Z62119.D	123 <sup>a</sup>	98
FA78445-13	Z62120.D	124 <sup>a</sup>	99
FA78445-14	Z62121.D	124 <sup>a</sup>	99
FA78445-15	Z62122.D	125 <sup>a</sup>	98
FA78445-16	Z62123.D	125 <sup>a</sup>	98
FA78445-17	Z62124.D	126* <sup>a</sup>	97
FA78445-17	O61096.D	132* <sup>a</sup>	97
FA78445-18	Z62125.D	126* <sup>a</sup>	96
FA78445-19	Z62126.D	127* <sup>a</sup>	95
FA78445-20	Z62127.D	127* <sup>a</sup>	99
FA78445-21	Z62112.D	116	101
FA78445-22	Z62113.D	119 <sup>a</sup>	100
FA78445-23	Z62114.D	119 <sup>a</sup>	100
FA78445-24	Z62115.D	120 <sup>a</sup>	100
FA78445-25	Z62116.D	121 <sup>a</sup>	100
FA78445-1MS	O61078.D	98	96
FA78445-1MSD	O61079.D	97	99
FA78445-21MS	Z62130.D	124 <sup>a</sup>	94
FA78445-21MSD	Z62131.D	123 <sup>a</sup>	95
VO2350-BS	O61075.D	97	99
VO2350-MB	O61076.D	108	104
VZ2410-BS	Z62109.D	112	99
VZ2410-MB	Z62110.D	115	102

**Surrogate Compounds**

**Recovery Limits**

S1 = 1,2-Dichloroethane-D4      74-125%

# Surrogate Recovery Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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**Samples and QC shown here apply to the above method**

<b>Surrogate Compounds</b>	<b>Recovery Limits</b>
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S2 = Toluene-D8	88-111%
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- (a) Outside DOD QSM control limits.
- (b) Outside DOD QSM control limits high.
- (c) Outside DOD QSM control limits high, sample was ND.

# Initial Calibration Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2349-ICC2349  
**Lab FileID:** O61064.D

## Response Factor Report MSVOA12

Method : C:\msdchem\2\methods\SIMCL090320.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

### Calibration Files

1 =O61060.D 2 =O61061.D 3 =O61062.D 4 =O61063.D  
 5 =O61064.D 6 =O61067.D 7 =O61066.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
-----									
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.571	0.663	0.699	0.649	0.551	0.533	0.515	0.597	12.04
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9919								
	Response Ratio = 0.00000 + 0.54839 *A								
3) Chloromethane	1.098	1.156	1.131	1.001	0.858	0.806	0.764	0.973	16.77
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983								
	Response Ratio = 0.00000 + 1.06339 *A + -0.07983 *A^2								
4) 1,1-Dichloroethen	0.406	0.640	0.547	0.640	0.586	0.580	0.577	0.568	13.92
5) Methylene Chlorid	2.460	1.383	1.263	1.176	1.047	0.992	1.387	1.387	39.26
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9958								
	Response Ratio = 0.00000 + 1.44136 *A + -0.11967 *A^2								
6) trans-1,2-Dichlor	0.505	0.731	0.611	0.736	0.694	0.694	0.682	0.665	12.25
7) 1,1-Dichloroethan	0.630	0.941	0.804	0.918	0.869	0.851	0.820	0.833	12.27
8) cis-1,2-Dichloroe	0.346	0.476	0.399	0.473	0.466	0.479	0.462	0.443	11.45
9) Chloroform	0.733	0.945	0.827	0.923	0.886	0.875	0.848	0.863	8.14
10) Carbon Tetrachlor	0.406	0.538	0.454	0.550	0.516	0.547	0.544	0.508	11.01
11) 1,1,1-Trichloroet	0.496	0.630	0.541	0.651	0.612	0.646	0.639	0.602	9.96
12) Benzene	1.171	1.521	1.272	1.473	1.416	1.442	1.403	1.385	8.83
13)S 1,2-Dichloroethan	0.430	0.419	0.402	0.387	0.382	0.368	0.373	0.394	5.91
14) 1,2-Dichloroethan	0.517	0.706	0.662	0.705	0.695	0.664	0.643	0.656	10.03
15) Trichloroethene	0.319	0.492	0.437	0.522	0.511	0.537	0.531	0.478	16.27
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.50627 *A + 0.00694 *A^2								
16) 1,2-Dichloropropa	0.332	0.508	0.443	0.503	0.490	0.485	0.472	0.462	13.23
17) cis-1,3-Dichlorop	0.289	0.444	0.423	0.516	0.544	0.578	0.572	0.481	21.57
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988								
	Response Ratio = 0.00000 + 0.48080 *A + 0.02612 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.130	1.138	1.099	1.057	1.060	1.114	1.084	1.097	2.92
20) trans-1,3-Dichlor	0.432	0.637	0.665	0.758	0.800	0.878	0.856	0.718	21.57
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988								
	Response Ratio = 0.00000 + 0.71337 *A + 0.04145 *A^2								
21) Tetrachloroethene	0.403	0.683	0.563	0.647	0.585	0.634	0.618	0.590	15.52
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986								
	Response Ratio = 0.00000 + 0.60640 *A + 0.00384 *A^2								
22) 1,4-Dichlorobenze	0.674	1.124	1.098	1.238	1.265	1.304	1.290	1.142	19.36
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 1.18602 *A + 0.03076 *A^2								

6.7.1  
6

# Initial Calibration Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2349-ICC2349  
**Lab FileID:** O61064.D

---

23) 1,2-Dibromo-3-Chl 0.224 0.223 0.224 0.236 0.256 0.255 0.259 0.240 6.86

-----  
(#) = Out of Range

SIMCL090320.M

Fri Sep 04 13:53:39 2020

## Initial Calibration Verification

Job Number: FA78445  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2349-ICV2349  
 Lab FileID: O61069.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\090320\O61069.D Vial: 11  
 Acq On : 3 Sep 2020 5:17 pm Operator: AKARIG  
 Sample : ICV2349-5 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL090320.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Fri Sep 04 07:54:30 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	110	0.00	7.35
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	8.597	14.0	94	0.00	2.91
3	Chloromethane	10.000	8.032	19.7	97	0.00	2.81
	----- AvgRF	CCRF	%Dev	-----			
4	1,1-Dichloroethene	0.568	0.513	9.7	97	0.00	4.09
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	8.015	19.8	94	0.00	4.70
	----- AvgRF	CCRF	%Dev	-----			
6	trans-1,2-Dichloroethene	0.665	0.623	6.3	99	0.00	4.87
7	1,1-Dichloroethane	0.833	0.798	4.2	102	0.00	5.51
	----- Amount	Calc.	%Drift	-----			
8	cis-1,2-Dichloroethene	10.000	9.742	2.6	102	0.00	6.07
	----- AvgRF	CCRF	%Dev	-----			
9	Chloroform	0.863	0.806	6.6	101	0.00	6.33
	----- Amount	Calc.	%Drift	-----			
10	Carbon Tetrachloride	10.000	9.436	5.6	103	0.00	6.51
11	1,1,1-Trichloroethane	10.000	9.374	6.3	102	0.00	6.58
	----- AvgRF	CCRF	%Dev	-----			
12	Benzene	1.385	1.358	1.9	106	0.00	6.94
13 S	1,2-Dichloroethane-d4	0.394	0.380	3.6	110	0.00	7.07
14	1,2-Dichloroethane	0.656	0.646	1.5	103	0.00	7.14
	----- Amount	Calc.	%Drift	-----			
15	Trichloroethene	10.000	9.531	4.7	107	0.00	7.52
	----- AvgRF	CCRF	%Dev	-----			
16	1,2-Dichloropropane	0.462	0.470	-1.7	106	0.00	8.04
	----- Amount	Calc.	%Drift	-----			
17	cis-1,3-Dichloropropene	10.000	10.022	-0.2	108	0.00	8.71
	----- AvgRF	CCRF	%Dev	-----			

# Initial Calibration Verification

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2349-ICV2349  
**Lab FileID:** O61069.D

18	I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00	10.45
19	S	Toluene-d8	1.097	1.082	1.4	111	0.00	8.90
			-----	Amount	Calc.	%Drift	-----	
20		trans-1,3-Dichloropropene	10.000	10.039	-0.4	109	0.00	9.34
21		Tetrachloroethene	10.000	9.161	8.4	105	0.00	9.34
22		1,4-Dichlorobenzene	10.000	9.499	5.0	102	0.00	12.83
			-----	AvgRF	CCRF	%Dev	-----	
23		1,2-Dibromo-3-Chloropropa	0.240	0.234	2.5	100	0.00	14.04
-----								

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 O61064.D    SIMCL090320.M            Fri Sep 04 13:53:53 2020

6.7.2  
6

**Continuing Calibration Summary**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2350-CC2349  
**Lab FileID:** O61074.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VO2350\O61074.d Vial: 1  
 Acq On : 3 Sep 2020 8:21 pm Operator: stutip  
 Sample : cc2349-5 Inst : MSVOA12  
 Misc : MS47088,VO2350,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Fri Sep 04 07:54:30 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	104	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	9.484	5.2	98	0.00	2.90
3	Chloromethane	10.000	8.866	11.3	99	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.568	0.593	-4.4	105	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	8.917	10.8	97	0.00	4.70
	----- AvgRF	CCRF	% Dev	-----			
6	trans-1,2-Dichloroethene	0.665	0.684	-2.9	102	0.00	4.87
7	1,1-Dichloroethane	0.833	0.852	-2.3	102	0.00	5.51
	----- True	Calc.	% Drift	-----			
8	cis-1,2-Dichloroethene	10.000	9.639	3.6	101	0.00	6.07
	----- AvgRF	CCRF	% Dev	-----			
9	Chloroform	0.863	0.861	0.2	101	0.00	6.33
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	9.614	3.9	102	0.00	6.50
11	1,1,1-Trichloroethane	10.000	9.650	3.5	103	0.00	6.58
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.385	1.394	-0.6	102	0.00	6.94
13 S	1,2-Dichloroethane-d4	0.394	0.387	1.8	105	0.00	7.07
14	1,2-Dichloroethane	0.656	0.659	-0.5	99	0.00	7.14
	----- True	Calc.	% Drift	-----			
15	Trichloroethene	10.000	9.721	2.8	103	0.00	7.51
	----- AvgRF	CCRF	% Dev	-----			
16	1,2-Dichloropropane	0.462	0.476	-3.0	101	0.00	8.04
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.959	0.4	101	0.00	8.71
	----- AvgRF	CCRF	% Dev	-----			



# Continuing Calibration Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2350-CC2349  
**Lab FileID:** O61074.D

18	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	10.45
19	S	Toluene-d8	1.097	1.065	2.9	105	0.00	8.90
			----- True	Calc.	% Drift	-----		
20		trans-1,3-Dichloropropene	10.000	9.630	3.7	100	0.00	9.34
21		Tetrachloroethene	10.000	9.640	3.6	106	0.00	9.34
22		1,4-Dichlorobenzene	10.000	9.850	1.5	102	0.00	12.83
			----- AvgRF	CCRF	% Dev	-----		
23		1,2-Dibromo-3-Chloropropa	0.240	0.233	2.9	96	0.00	14.04
-----								

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 O61064.D    SIMCL090320.M            Tue Sep 08 02:27:35 2020

6.7.3  
 6

## Continuing Calibration Summary

Job Number: FA78445  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2350-ECC2349  
 Lab FileID: O61100.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VO2350\O61100.d Vial: 26  
 Acq On : 4 Sep 2020 5:14 am Operator: stutip  
 Sample : ecc2349-5 Inst : MSVOA12  
 Misc : MS47137,VO2350,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Fri Sep 04 07:54:30 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	73	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.272	-2.7	75	0.00	2.90
3	Chloromethane	10.000	10.773	-7.7	82	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.568	0.693	-22.0	87	0.00	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	11.179	-11.8	82	0.00	4.70
	----- AvgRF	CCRF	% Dev	-----			
6	trans-1,2-Dichloroethene	0.665	0.773	-16.2	82	0.00	4.87
7	1,1-Dichloroethane	0.833	0.984	-18.1	83	0.00	5.51
	----- True	Calc.	% Drift	-----			
8	cis-1,2-Dichloroethene	10.000	10.491	-4.9	78	0.00	6.07
	----- AvgRF	CCRF	% Dev	-----			
9	Chloroform	0.863	1.008	-16.8	84	0.00	6.33
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	10.992	-9.9	83	0.00	6.51
11	1,1,1-Trichloroethane	10.000	11.053	-10.5	84	0.00	6.58
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.385	1.576	-13.8	82	0.00	6.94
13 S	1,2-Dichloroethane-d4	0.394	0.419	-6.3	81	0.00	7.07
14	1,2-Dichloroethane	0.656	0.765	-16.6	81	0.00	7.14
	----- True	Calc.	% Drift	-----			
15	Trichloroethene	10.000	11.073	-10.7	83	0.00	7.52
	----- AvgRF	CCRF	% Dev	-----			
16	1,2-Dichloropropane	0.462	0.527	-14.1	79	0.00	8.04
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.641	3.6	69	0.00	8.71
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2350-ECC2349  
**Lab FileID:** O61100.D

18	I	Chlorobenzene-d5	1.000	1.000	0.0	79	0.00	10.45
19	S	Toluene-d8	1.097	0.939	14.4	70	0.00	8.90
			----- True	Calc.	% Drift	-----		
20		trans-1,3-Dichloropropene	10.000	9.234	7.7	72	0.00	9.34
21		Tetrachloroethene	10.000	10.489	-4.9	87	0.00	9.34
22		1,4-Dichlorobenzene	10.000	10.851	-8.5	85	0.00	12.83
			----- AvgRF	CCRF	% Dev	-----		
23		1,2-Dibromo-3-Chloropropa	0.240	0.229	4.6	71	0.00	14.04
-----								

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 O61064.D    SIMCL090320.M            Tue Sep 08 02:38:25 2020

6.7.4  
 6

# Initial Calibration Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICC2408  
**Lab FileID:** Z62044.D

## Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

### Calibration Files

1 =Z62040.D 2 =Z62041.D 3 =Z62042.D 4 =Z62043.D  
 5 =Z62044.D 6 =Z62045.D 7 =Z62046.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
-----									
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.794	0.463	0.459	0.429	0.461	0.457	0.479	0.506	25.30
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.42534 *A + 0.01287 *A^2								
3) Chloromethane	0.878	0.479	0.498	0.469	0.461	0.475	0.504	0.538	28.07
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.42874 *A + 0.01805 *A^2								
4) 1,1-Dichloroethen	0.434	0.305	0.289	0.312	0.324	0.320	0.341	0.332	14.33
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
	Response Ratio = 0.00000 + 0.29464 *A + 0.01101 *A^2								
5) Methylene Chlorid	0.786	0.535	0.450	0.429	0.419	0.437	0.509	0.509	27.83
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986								
	Response Ratio = 0.00000 + 0.43058 *A + 0.00030 *A^2								
6)T trans-1,2-Dichlor	0.543	0.360	0.360	0.383	0.402	0.400	0.428	0.411	15.37
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.36221 *A + 0.01572 *A^2								
7) 1,1-Dichloroethan	0.923	0.631	0.638	0.678	0.710	0.705	0.747	0.719	13.74
8) cis-1,2-Dichloroe	0.531	0.387	0.385	0.408	0.427	0.424	0.450	0.430	11.68
9) Chloroform	1.017	0.698	0.713	0.753	0.791	0.785	0.836	0.799	13.39
10) Carbon Tetrachlor	0.756	0.480	0.510	0.534	0.578	0.580	0.620	0.580	15.70
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
	Response Ratio = 0.00000 + 0.51032 *A + 0.02676 *A^2								
11) 1,1,1-Trichloroet	0.950	0.631	0.634	0.684	0.724	0.721	0.765	0.730	14.91
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
	Response Ratio = 0.00000 + 0.65351 *A + 0.02692 *A^2								
12) Benzene	1.892	1.310	1.314	1.401	1.450	1.448	1.520	1.476	13.44
13)S 1,2-Dichloroethan	0.313	0.324	0.323	0.328	0.323	0.329	0.328	0.324	1.75
14) 1,2-Dichloroethan	0.493	0.471	0.504	0.541	0.554	0.562	0.586	0.530	7.85
15) Trichloroethene	0.593	0.397	0.411	0.439	0.453	0.456	0.485	0.462	14.03
16) 1,2-Dichloropropa	0.412	0.336	0.339	0.369	0.381	0.383	0.401	0.374	7.75
17) cis-1,3-Dichlorop	0.435	0.292	0.441	0.446	0.513	0.531	0.562	0.460	19.38
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.43921 *A + 0.03094 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.248	1.258	1.248	1.247	1.236	1.239	1.234	1.244	0.69
20)T trans-1,3-Dichlor	0.399	0.287	0.461	0.474	0.566	0.597	0.636	0.489	24.91
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9956								

# Initial Calibration Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICC2408  
**Lab FileID:** Z62044.D

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$$\text{Response Ratio} = 0.00000 + 0.60851 *A$$

21) Tetrachloroethene 0.868 0.562 0.546 0.585 0.608 0.614 0.641 0.632 17.25  
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999  
Response Ratio = 0.00000 + 0.56157 \*A + 0.01953 \*A^2

-----  
(#) = Out of Range

SIMCL090320.M

Fri Sep 04 14:05:20 2020

6.7.5

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## Initial Calibration Verification

Job Number: FA78445  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2408-ICV2408  
 Lab FileID: Z62048.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\Je...-2020\VZ2408\Z62048.d Vial: 9  
 Acq On : 3 Sep 2020 12:57 pm Operator: shanicao  
 Sample : cc2408-5 Inst : MSVOA15  
 Misc : MS46458,VZ2408,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Thu Sep 03 14:30:55 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	83	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	9.694	3.1	79	0.00	2.85
3	Chloromethane	10.000	10.151	-1.5	85	0.00	2.74
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.332	0.296	10.8	76	0.00	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	9.714	2.9	81	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	9.671	3.3	78	0.00	4.89
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.695	3.3	81	0.00	5.55
8	cis-1,2-Dichloroethene	0.430	0.417	3.0	81	0.00	6.11
9	Chloroform	0.799	0.771	3.5	81	0.00	6.38
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	9.580	4.2	77	0.00	6.54
11	1,1,1-Trichloroethane	10.000	9.677	3.2	78	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.468	0.5	84	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.335	-3.4	86	0.00	7.13
14	1,2-Dichloroethane	0.530	0.573	-8.1	86	0.00	7.20
15	Trichloroethene	0.462	0.467	-1.1	85	0.00	7.56
16	1,2-Dichloropropane	0.374	0.390	-4.3	85	0.00	8.11
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.853	1.5	80	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00	10.51
19 S	Toluene-d8	1.244	1.241	0.2	83	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	9.828	1.7	79	0.00	9.41
21	Tetrachloroethene	10.000	9.817	1.8	80	0.00	9.40

# Initial Calibration Verification

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2408-ICV2408  
**Lab FileID:** Z62048.D

(#) = Out of Range  
Z62044.D SIMCL090320.M

SPCC's out = 0 CCC's out = 0  
Fri Sep 04 00:37:04 2020

# Continuing Calibration Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2410-CC2408  
**Lab FileID:** Z62108.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\ vz2410\Z62108.d Vial: 1  
 Acq On : 5 Sep 2020 11:24 am Operator: stutip  
 Sample : cc2408-5 Inst : MSVOA15  
 Misc : MS47134,VZ2410,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	75	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	11.284	-12.8	83	0.00	2.84
3	Chloromethane	10.000	11.937	-19.4	91	0.00	2.73
4	1,1-Dichloroethene	10.000	10.213	-2.1	75	0.00	4.08
5	Methylene Chloride	10.000	10.844	-8.4	81	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	10.558	-5.6	77	0.00	4.89
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.778	-8.2	82	0.00	5.54
8	cis-1,2-Dichloroethene	0.430	0.449	-4.4	78	0.00	6.10
9	Chloroform	0.799	0.859	-7.5	81	0.00	6.37
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	9.542	4.6	69	0.00	6.54
11	1,1,1-Trichloroethane	10.000	10.135	-1.3	74	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.562	-5.8	80	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.356	-9.9	82	0.00	7.12
14	1,2-Dichloroethane	0.530	0.661	-24.7#	89	0.00	7.19
15	Trichloroethene	0.462	0.473	-2.4	78	0.00	7.56
16	1,2-Dichloropropane	0.374	0.421	-12.6	82	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	10.380	-3.8	76	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	74	0.00	10.51
19 S	Toluene-d8	1.244	1.231	1.0	74	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	10.041	-0.4	80	0.00	9.41
21	Tetrachloroethene	10.000	10.043	-0.4	73	0.00	9.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 Z62044.D SIMCL090320.M Tue Sep 08 20:25:06 2020



# Continuing Calibration Summary

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2410-ECC2408  
**Lab FileID:** Z62132.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\vz2410\Z62132.D Vial: 25  
 Acq On : 5 Sep 2020 8:50 pm Operator: stutip  
 Sample : ecc2408-5 Inst : MSVOA15  
 Misc : MS47137,VZ2410,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Fri Sep 04 11:36:05 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	55	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	11.729	-17.3	64	0.00	2.84
3	Chloromethane	10.000	10.739	-7.4	60	0.00	2.73
4	1,1-Dichloroethene	10.000	9.629	3.7	52	0.00	4.08
5	Methylene Chloride	10.000	9.410	5.9	52	0.00	4.71
6 T	trans-1,2-Dichloroethene	10.000	9.346	6.5	50	0.00	4.89
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.719	0.708	1.5	55	0.00	5.55
8	cis-1,2-Dichloroethene	0.430	0.381	11.4	49#	0.00	6.11
9	Chloroform	0.799	0.772	3.4	54	0.00	6.38
	----- True	Calc.	% Drift	-----			
10	Carbon Tetrachloride	10.000	8.787	12.1	47	0.00	6.54
11	1,1,1-Trichloroethane	10.000	9.375	6.3	50	0.00	6.61
	----- AvgRF	CCRF	% Dev	-----			
12	Benzene	1.476	1.377	6.7	52	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.324	0.387	-19.4	66	0.00	7.13
14	1,2-Dichloroethane	0.530	0.588	-10.9	58	0.00	7.20
15	Trichloroethene	0.462	0.420	9.1	51	0.00	7.56
16	1,2-Dichloropropane	0.374	0.371	0.8	53	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	7.577	24.2	39	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	56	0.00	10.51
19 S	Toluene-d8	1.244	1.174	5.6	53	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	6.818	31.8	41	0.00	9.41
21	Tetrachloroethene	10.000	8.661	13.4	47	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62044.D    SIMCL090320.M            Tue Sep 08 20:32:00 2020

**Run Sequence Report****Job Number:** FA78445**Account:** AHTNACAS Ahtna Global, LLC**Project:** Fort Ord Groundwater Monitoring**Run ID:** VO2349**Method:** SW846 8260B BY SIM **Instrument ID:** GCMSO

<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VO2349-BFB	O61058.D	09/03/20 12:00	n/a	BFB Tune
VO2349-IC2349	O61060.D	09/03/20 12:47	n/a	Initial cal 1
VO2349-IC2349	O61061.D	09/03/20 13:08	n/a	Initial cal 2
VO2349-IC2349	O61063.D	09/03/20 13:58	n/a	Initial cal 4
VO2349-ICC2349	O61064.D	09/03/20 14:24	n/a	Initial cal 5
VO2349-IC2349	O61066.D	09/03/20 15:26	n/a	Initial cal 7
VO2349-IC2349	O61067.D	09/03/20 15:46	n/a	Initial cal 6
VO2349-ICV2349	O61069.D	09/03/20 17:17	n/a	Initial cal verification 5

**Run Sequence Report**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2350	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2350-BFB	O61073.D	09/03/20 19:56	n/a	BFB Tune
VO2350-CC2349	O61074.D	09/03/20 20:21	n/a	Continuing cal 5
VO2350-BS	O61075.D	09/03/20 20:47	n/a	Blank Spike
VO2350-MB	O61076.D	09/03/20 21:07	n/a	Method Blank
FA78445-1	O61077.D	09/03/20 21:27	n/a	2036X0BW190F
FA78445-1MS	O61078.D	09/03/20 21:48	n/a	Matrix Spike
FA78445-1MSD	O61079.D	09/03/20 22:08	n/a	Matrix Spike Duplicate
FA78445-2	O61081.D	09/03/20 22:49	n/a	2036X0BW191F
FA78445-3	O61082.D	09/03/20 23:09	n/a	2036X0BW192F
FA78445-4	O61083.D	09/03/20 23:30	n/a	2036X0BW193F
FA78445-5	O61084.D	09/03/20 23:50	n/a	2036X0BW194F
FA78445-6	O61085.D	09/04/20 00:10	n/a	2036X0BW195F
FA78445-7	O61086.D	09/04/20 00:31	n/a	2036X0BW196F
FA78445-8	O61087.D	09/04/20 00:51	n/a	2036X0BW197F
FA78445-9	O61088.D	09/04/20 01:11	n/a	2036X0BW198F
FA78445-10	O61089.D	09/04/20 01:32	n/a	2036X0BW199D
FA78445-17	O61096.D	09/04/20 03:54	n/a	2036X0BW206F
VO2350-ECC2349	O61100.D	09/04/20 05:14	n/a	Ending cal 5

**Run Sequence Report**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VZ2408	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSZ
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<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VZ2408-BFB	Z62039.D	09/03/20 09:29	n/a	BFB Tune
VZ2408-IC2408	Z62040.D	09/03/20 09:52	n/a	Initial cal 1
VZ2408-IC2408	Z62041.D	09/03/20 10:11	n/a	Initial cal 2
VZ2408-IC2408	Z62042.D	09/03/20 10:59	n/a	Initial cal 3
VZ2408-IC2408	Z62043.D	09/03/20 11:18	n/a	Initial cal 4
VZ2408-ICC2408	Z62044.D	09/03/20 11:40	n/a	Initial cal 5
VZ2408-IC2408	Z62045.D	09/03/20 11:59	n/a	Initial cal 6
VZ2408-IC2408	Z62046.D	09/03/20 12:18	n/a	Initial cal 7
VZ2408-ICV2408	Z62048.D	09/03/20 12:57	n/a	Initial cal verification 5

**Run Sequence Report**

**Job Number:** FA78445  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2410      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2410-BFB	Z62107.D	09/05/20 10:58	n/a	BFB Tune
VZ2410-CC2408	Z62108.D	09/05/20 11:24	n/a	Continuing cal 5
VZ2410-BS	Z62109.D	09/05/20 11:47	n/a	Blank Spike
VZ2410-MB	Z62110.D	09/05/20 12:11	n/a	Method Blank
FA78445-21	Z62112.D	09/05/20 12:58	n/a	2036W0BW090A
FA78445-22	Z62113.D	09/05/20 13:22	n/a	2036W0BW091F
FA78445-23	Z62114.D	09/05/20 13:46	n/a	2036W0BW092F
FA78445-24	Z62115.D	09/05/20 14:09	n/a	2036W0BW093D
FA78445-25	Z62116.D	09/05/20 14:33	n/a	2036W0BW095F
FA78445-1	Z62117.D	09/05/20 14:56	n/a	2036X0BW190F
FA78445-11	Z62118.D	09/05/20 15:19	n/a	2036X0BW200F
FA78445-12	Z62119.D	09/05/20 15:42	n/a	2036X0BW201F
FA78445-13	Z62120.D	09/05/20 16:06	n/a	2036X0BW202F
FA78445-14	Z62121.D	09/05/20 16:30	n/a	2036X0BW203F
FA78445-15	Z62122.D	09/05/20 16:54	n/a	2036X0BW204F
FA78445-16	Z62123.D	09/05/20 17:17	n/a	2036X0BW205F
FA78445-17	Z62124.D	09/05/20 17:41	n/a	2036X0BW206F
FA78445-18	Z62125.D	09/05/20 18:05	n/a	2036X0BW207F
FA78445-19	Z62126.D	09/05/20 18:28	n/a	2036X0BW208C
FA78445-20	Z62127.D	09/05/20 18:52	n/a	2036X0BW209A
ZZZZZZ	Z62128.D	09/05/20 19:15	n/a	(unrelated sample)
ZZZZZZ	Z62129.D	09/05/20 19:39	n/a	(unrelated sample)
FA78445-21MS	Z62130.D	09/05/20 20:03	n/a	Matrix Spike
FA78445-21MSD	Z62131.D	09/05/20 20:26	n/a	Matrix Spike Duplicate
VZ2410-ECC2408	Z62132.D	09/05/20 20:50	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62117.d  
Acq On : 5 Sep 2020 2:56 pm  
Operator : stutip  
Sample : FA78445-1  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 08 20:22:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1552453	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1149038	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	610430	6.07	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	121.40%	
19) Toluene-d8	8.961	98	1409681	4.93	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%	
Target Compounds							
5) Methylene Chloride	4.717	84	13433	0.10	ppb	93	Qvalue
9) Chloroform	6.377	83	35087	0.14	ppb	99	
10) Carbon Tetrachloride	6.543	117	185508	1.16	ppb	99	
15) Trichloroethene	7.571	95	49739	0.35	ppb	93	
-----							

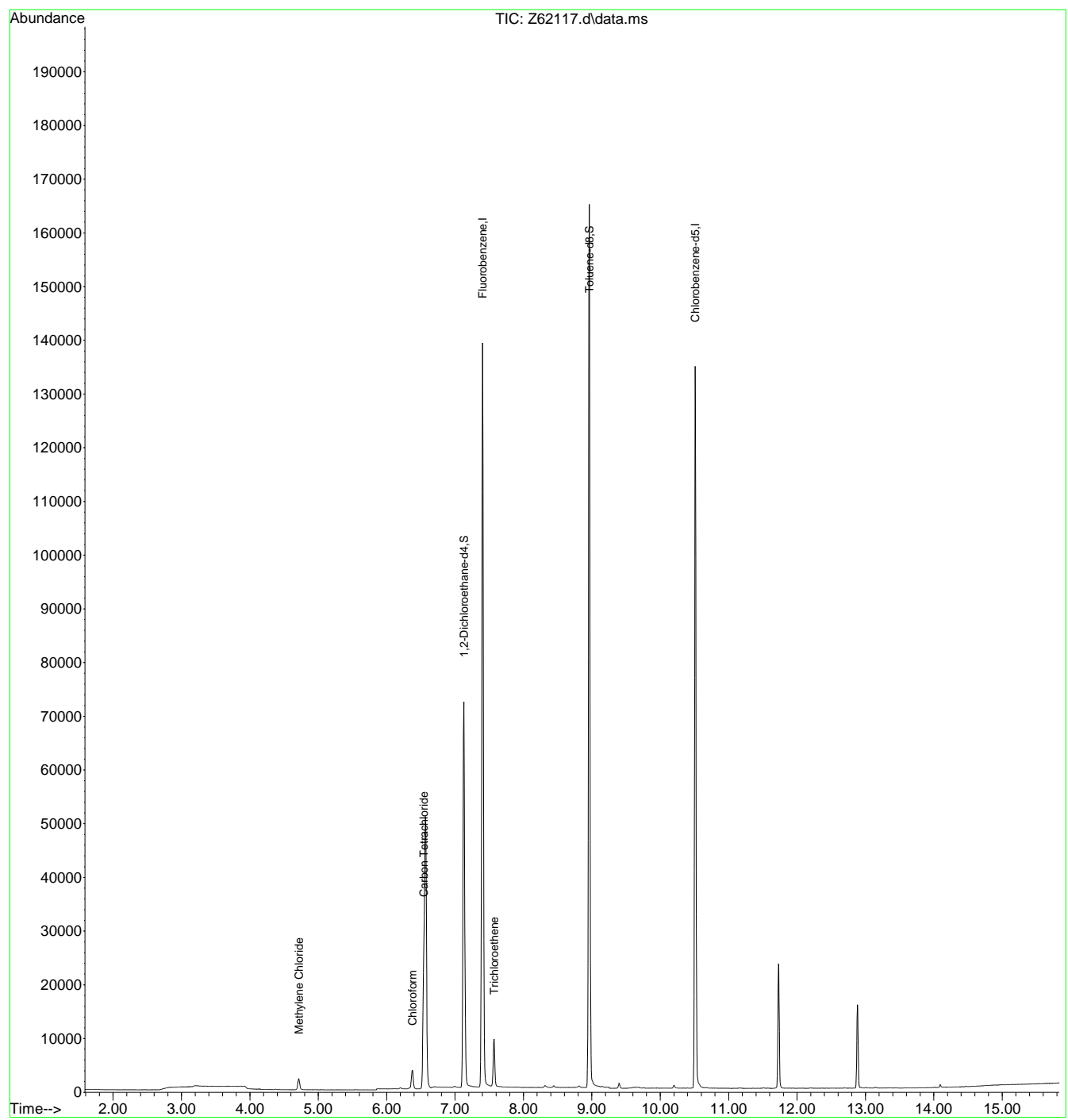
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62117.d  
Acq On : 5 Sep 2020 2:56 pm  
Operator : stutip  
Sample : FA78445-1  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 10 Sample Multiplier: 1

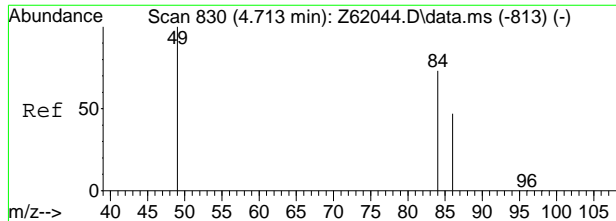
Quant Time: Sep 08 20:22:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.1



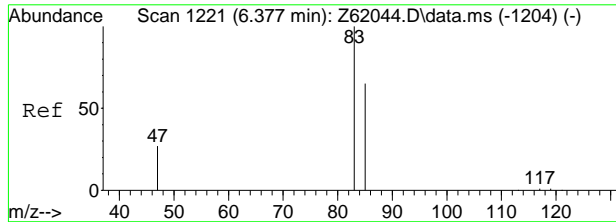
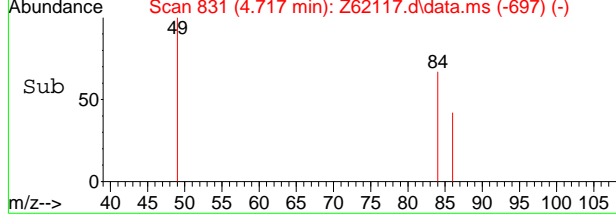
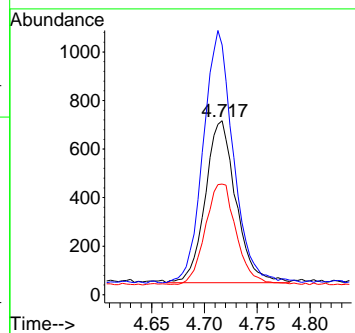
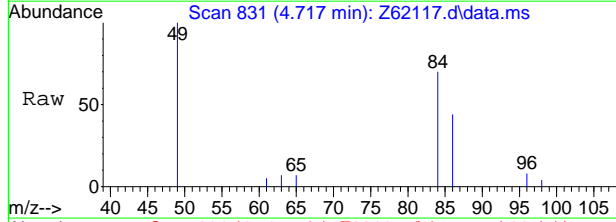




#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62117.d  
 Acq: 5 Sep 2020 2:56 pm

Tgt Ion: 84 Resp: 13433

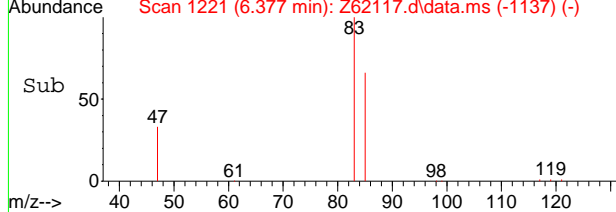
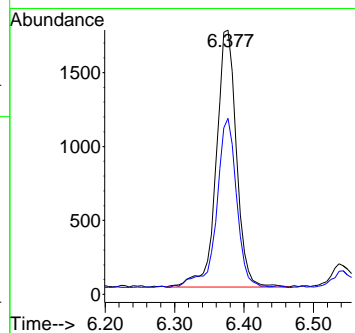
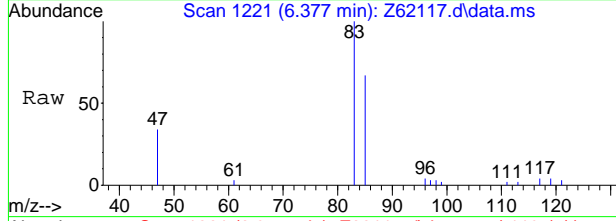
Ion	Ratio	Lower	Upper
84	100		
49	146.6	116.6	156.6
86	61.8	43.9	83.9



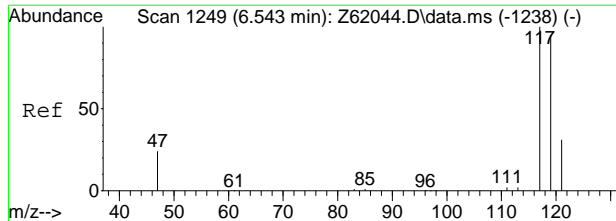
#9  
 Chloroform  
 Concen: 0.14 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62117.d  
 Acq: 5 Sep 2020 2:56 pm

Tgt Ion: 83 Resp: 35087

Ion	Ratio	Lower	Upper
83	100		
85	65.2	46.4	86.4



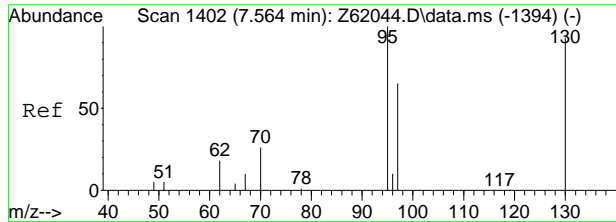
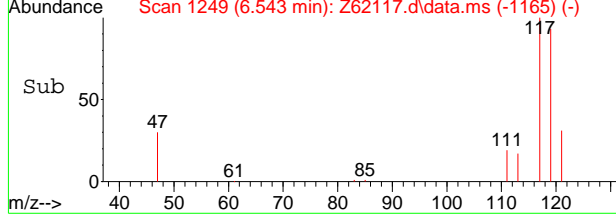
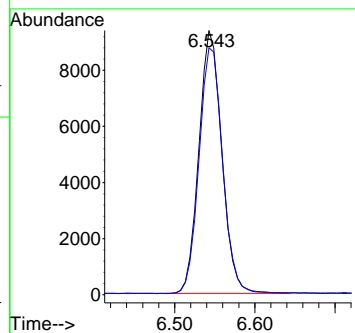
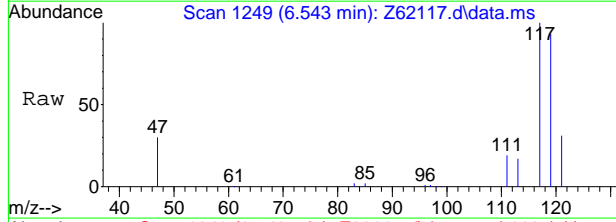
7.11  
7



#10  
 Carbon Tetrachloride  
 Concen: 1.16 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62117.d  
 Acq: 5 Sep 2020 2:56 pm

Tgt Ion: 117 Resp: 185508

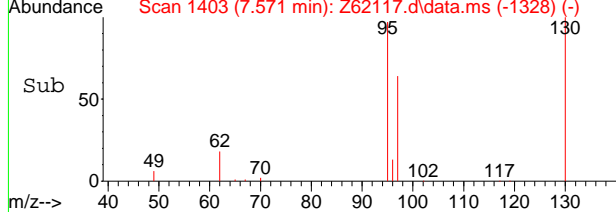
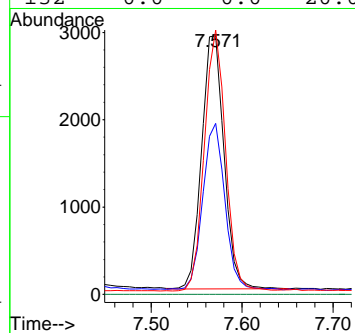
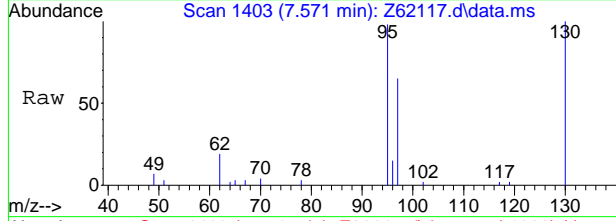
Ion	Ratio	Lower	Upper
117	100		
119	96.3	75.6	115.6



#15  
 Trichloroethene  
 Concen: 0.35 ppb  
 RT: 7.571 min Scan# 1403  
 Delta R.T. 0.007 min  
 Lab File: Z62117.d  
 Acq: 5 Sep 2020 2:56 pm

Tgt Ion: 95 Resp: 49739

Ion	Ratio	Lower	Upper
95	100		
97	65.8	45.0	85.0
130	103.3	72.6	112.6
132	0.0	0.0	20.0



7.1.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61077.d  
 Acq On : 3 Sep 2020 9:27 pm  
 Operator : stutip  
 Sample : fa78445-1  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 02:30:27 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

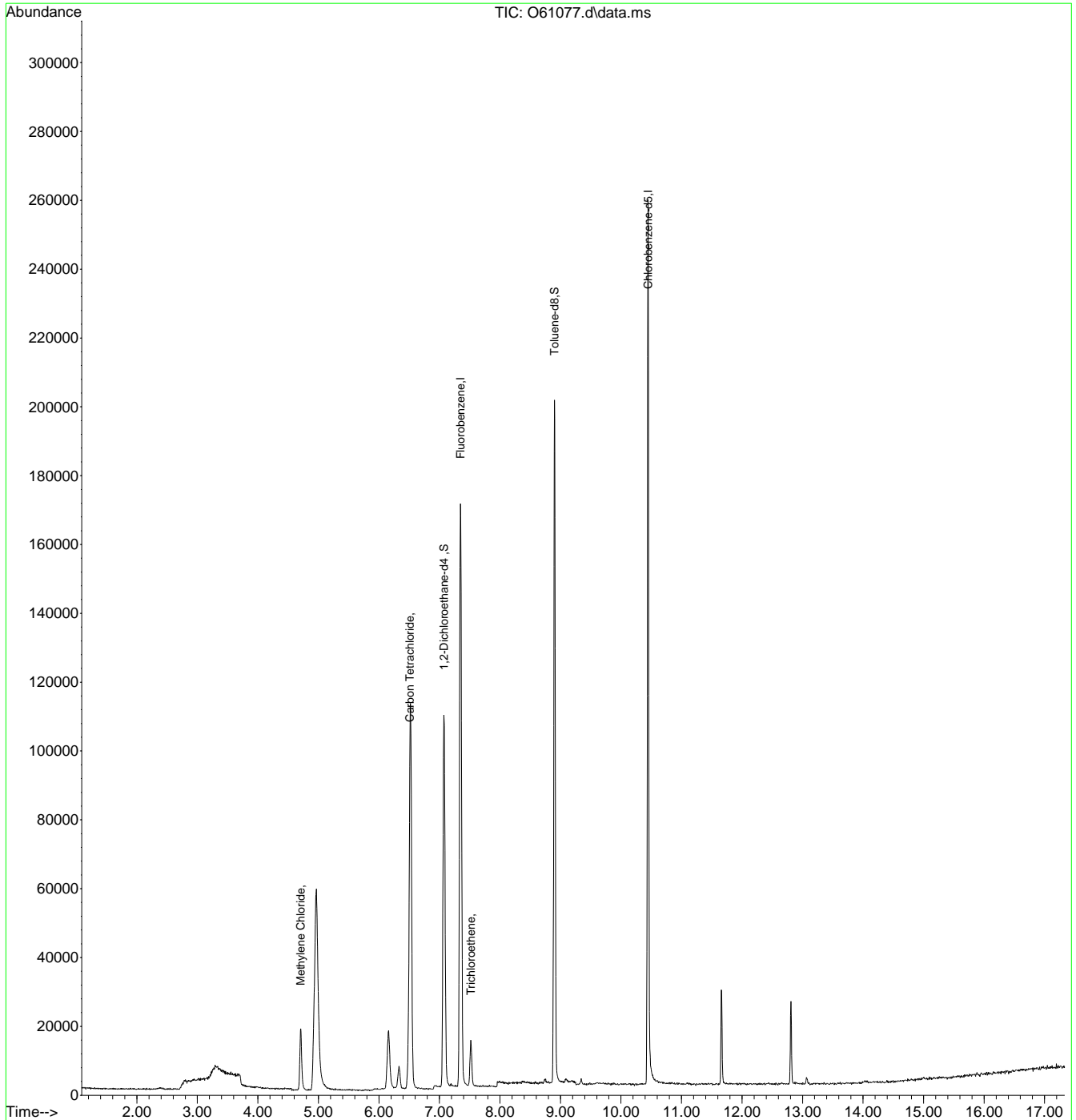
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	268750	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	186416	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	111715	5.27	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	105.40%		
19) Toluene-d8	8.900	98	204017	4.99	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.80%		
Target Compounds							
5) Methylene Chloride	4.703	49	23258	0.30	ug/L	92	Qvalue
10) Carbon Tetrachloride	6.511	117	42528	1.55	ug/L	94	
15) Trichloroethene	7.518	95	9356	0.34	ug/L	94	
-----							

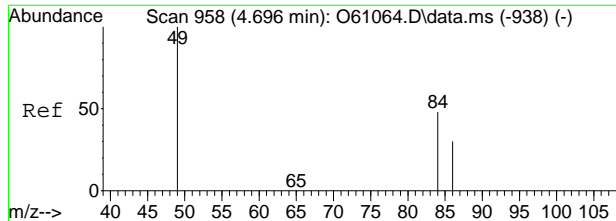
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61077.d  
Acq On : 3 Sep 2020 9:27 pm  
Operator : stutip  
Sample : fa78445-1  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 02:30:27 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

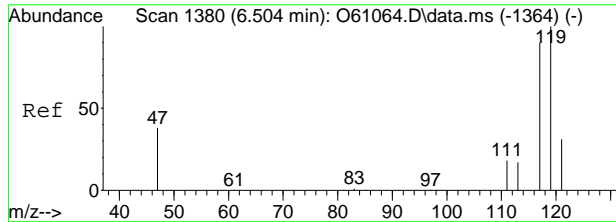
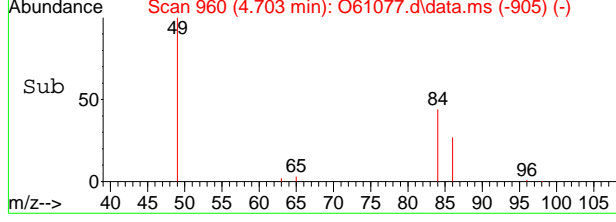
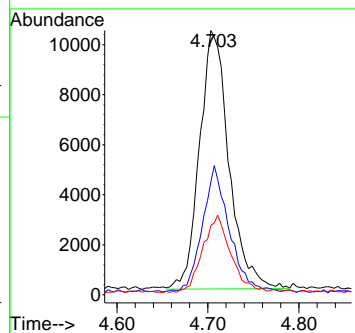
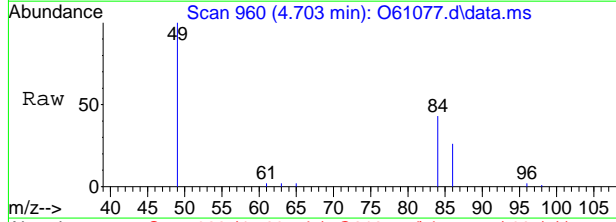




#5  
 Methylene Chloride  
 Concen: 0.30 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.007 min  
 Lab File: O61077.d  
 Acq: 3 Sep 2020 9:27 pm

Tgt Ion: 49 Resp: 23258

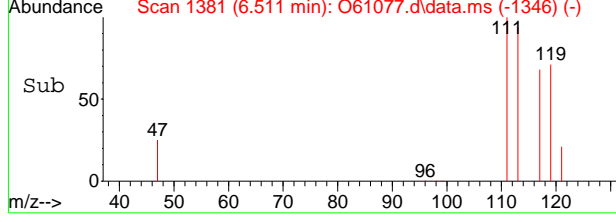
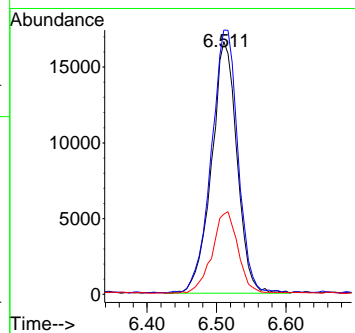
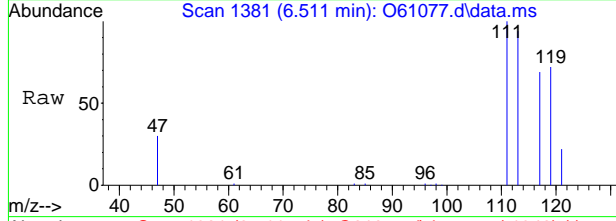
Ion	Ratio	Lower	Upper
49	100		
84	42.5	17.9	77.9
86	25.7	0.0	59.8



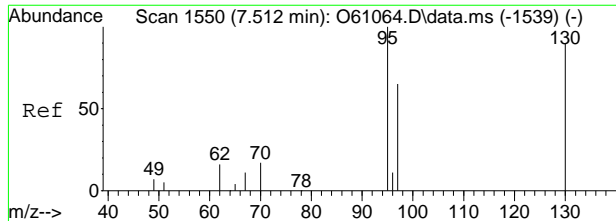
#10  
 Carbon Tetrachloride  
 Concen: 1.55 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. 0.007 min  
 Lab File: O61077.d  
 Acq: 3 Sep 2020 9:27 pm

Tgt Ion: 117 Resp: 42528

Ion	Ratio	Lower	Upper
117	100		
119	104.3	80.9	140.9
121	31.2	4.1	64.1

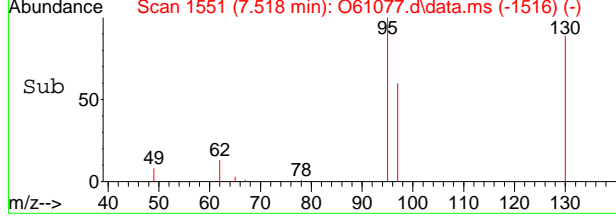
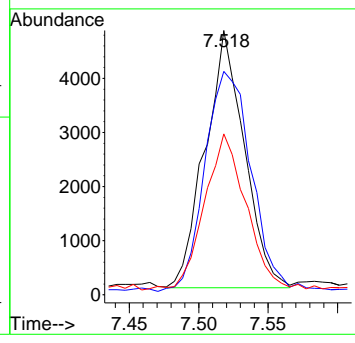
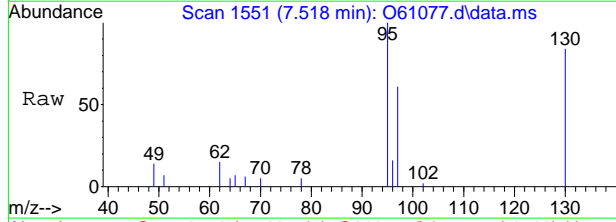


7.12  
7



#15  
 Trichloroethene  
 Concen: 0.34 ug/L  
 RT: 7.518 min Scan# 1551  
 Delta R.T. 0.006 min  
 Lab File: O61077.d  
 Acq: 3 Sep 2020 9:27 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
130	84.5	60.4	120.4
97	59.8	34.6	94.6



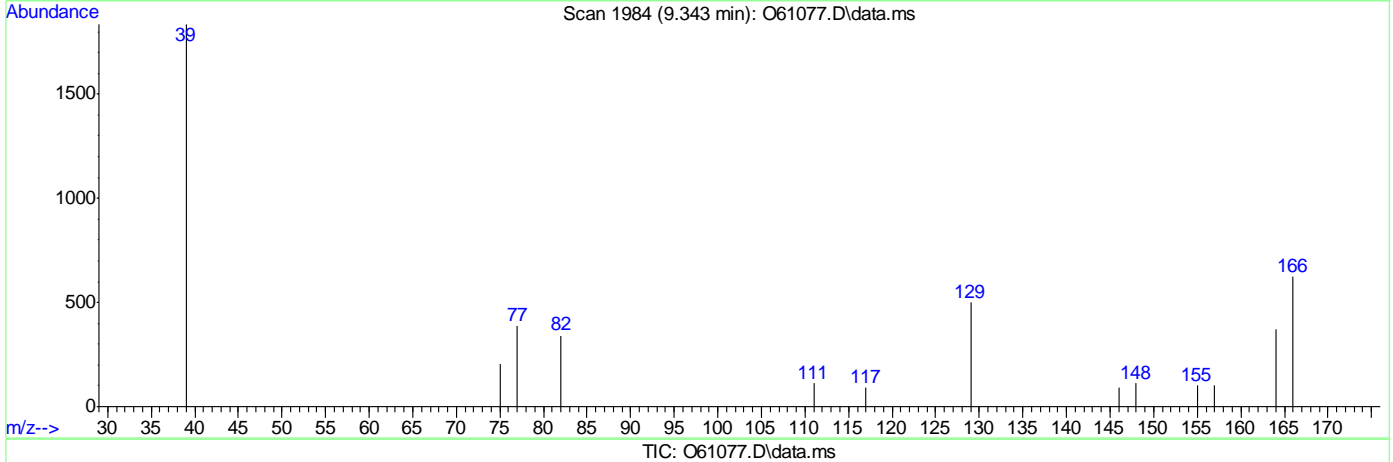
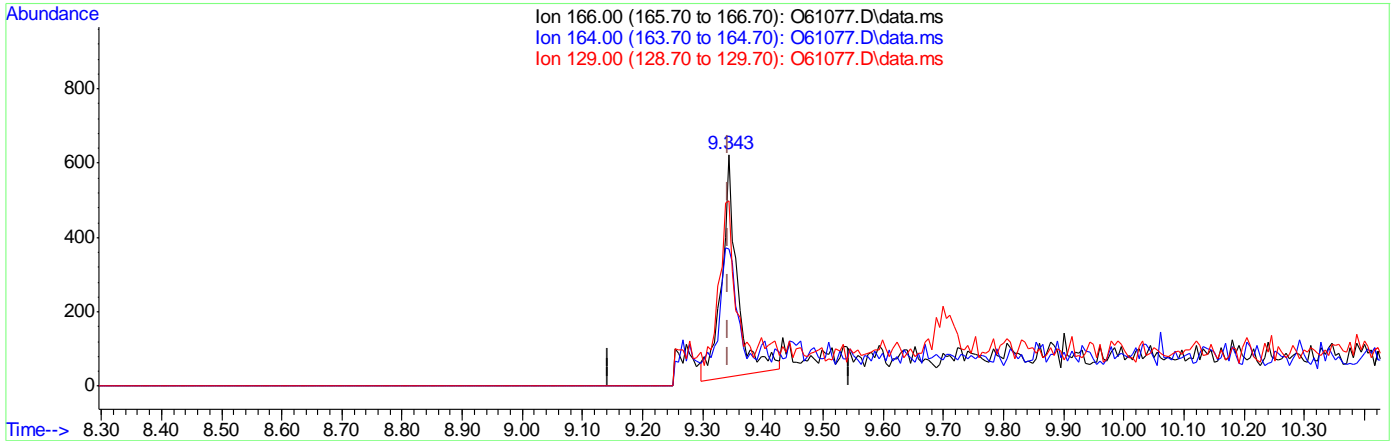
7.12  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61077.D  
 Acq On : 3 Sep 2020 9:27 pm  
 Operator : manager  
 Sample : fa78445-1  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 06:52:34 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 06:51:45 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.05ug/L

response 1093

Ion	Exp%	Act%
166.00	100	100
164.00	76.80	55.10
129.00	67.20	74.60
0.00	0.00	0.00

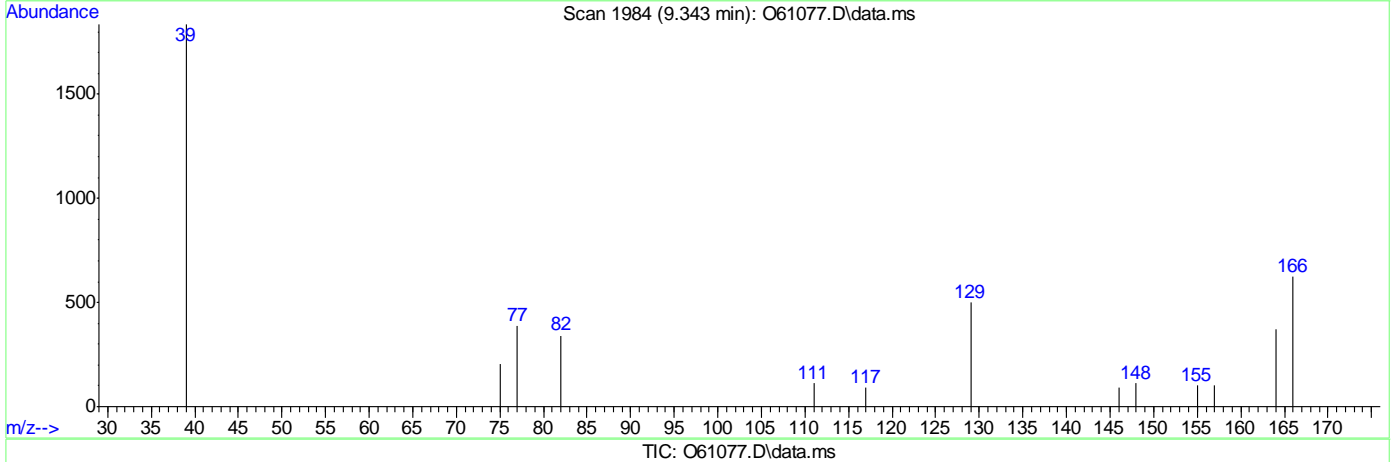
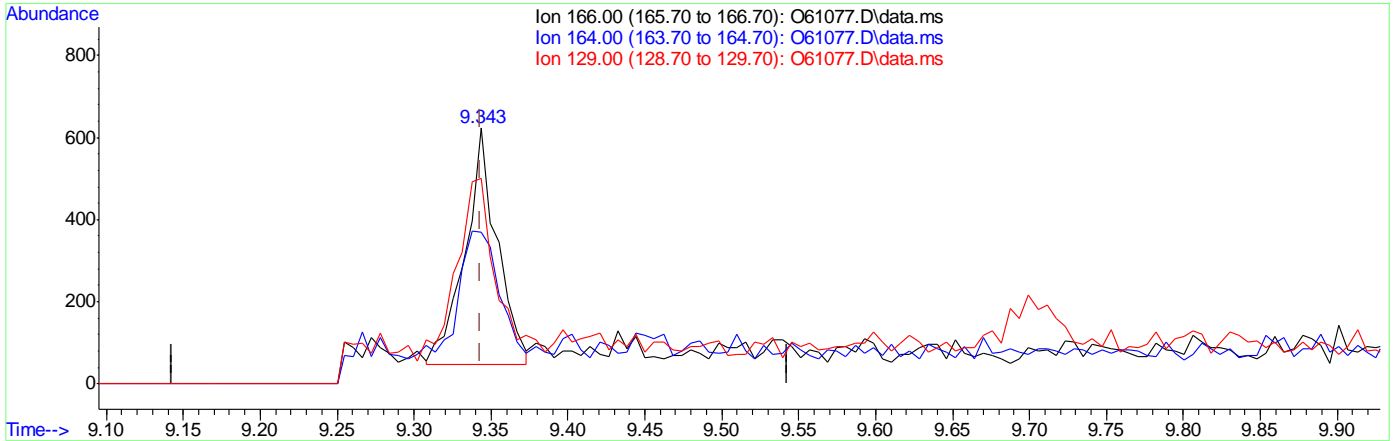
7.1.2.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61077.D  
 Acq On : 3 Sep 2020 9:27 pm  
 Operator : manager  
 Sample : fa78445-1  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 06:52:34 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 06:51:45 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )  
 9.343min (+0.000) 0.04ug/L m  
 response 839

Ion	Exp%	Act%
166.00	100	100
164.00	76.80	59.23
129.00	67.20	80.26
0.00	0.00	0.00

7.1.2.2  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61081.d  
Acq On : 3 Sep 2020 10:49 pm  
Operator : stutip  
Sample : fa78445-2  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 08 02:21:46 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.352	96	362360	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	254186	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.080	65	160511	5.62	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	112.40%		
19) Toluene-d8	8.904	98	276188	4.95	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.00%		
Target Compounds							
9) Chloroform	6.339	83	28631	0.46	ug/L	96	
10) Carbon Tetrachloride	6.511	117	25451	0.69	ug/L	98	
-----							

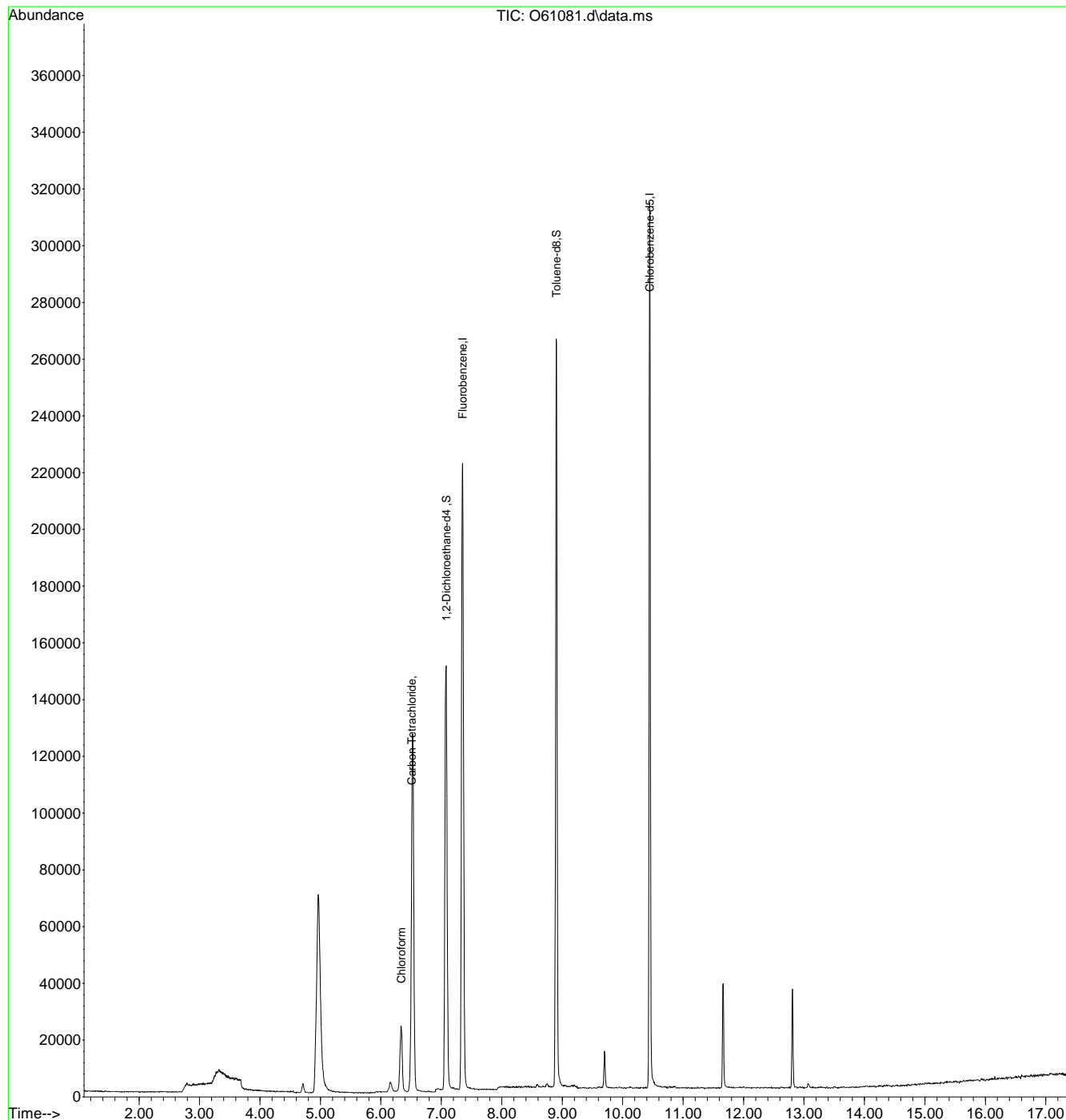
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.3  
7

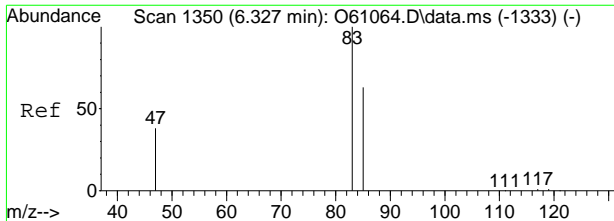
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61081.d  
 Acq On : 3 Sep 2020 10:49 pm  
 Operator : stutip  
 Sample : fa78445-2  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 08 02:21:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

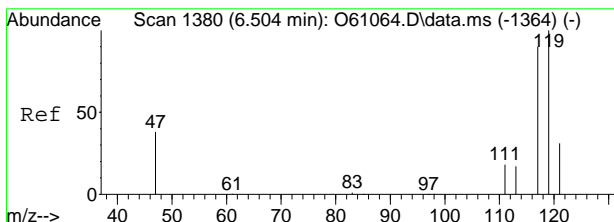
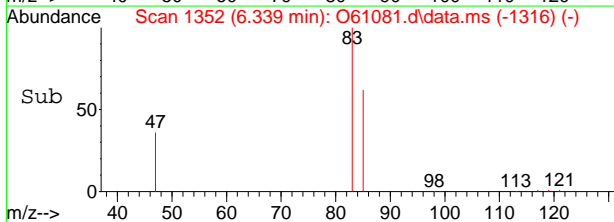
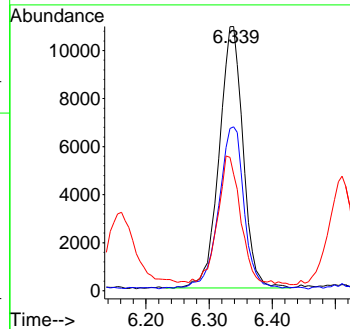
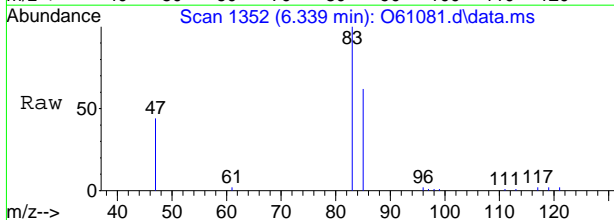


7.1.3  
7



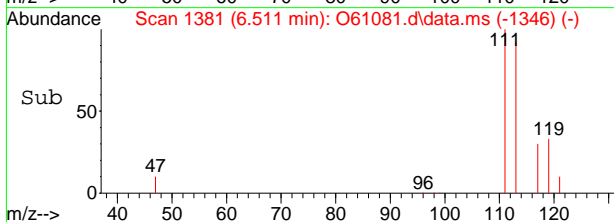
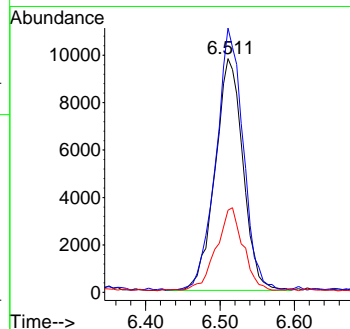
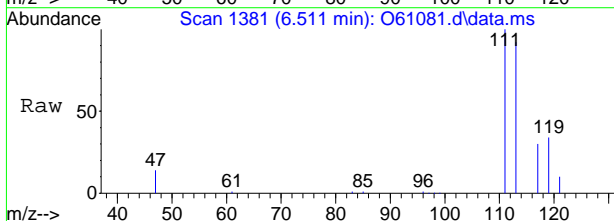
#9  
 Chloroform  
 Concen: 0.46 ug/L  
 RT: 6.339 min Scan# 1352  
 Delta R.T. 0.012 min  
 Lab File: O61081.d  
 Acq: 3 Sep 2020 10:49 pm

Tgt Ion	Resp	Lower	Upper
83	28631		
85	61.5	33.0	93.0
47	42.2	8.1	68.1



#10  
 Carbon Tetrachloride  
 Concen: 0.69 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. 0.007 min  
 Lab File: O61081.d  
 Acq: 3 Sep 2020 10:49 pm

Tgt Ion	Resp	Lower	Upper
117	25451		
119	113.1	80.9	140.9
121	34.2	4.1	64.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61082.d  
Acq On : 3 Sep 2020 11:09 pm  
Operator : stutip  
Sample : fa78445-3  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 08 02:21:48 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	334638	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	247433	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	150417	5.70	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	114.00%	
19) Toluene-d8	8.900	98	254803	4.69	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	93.80%	

Target Compounds Qvalue

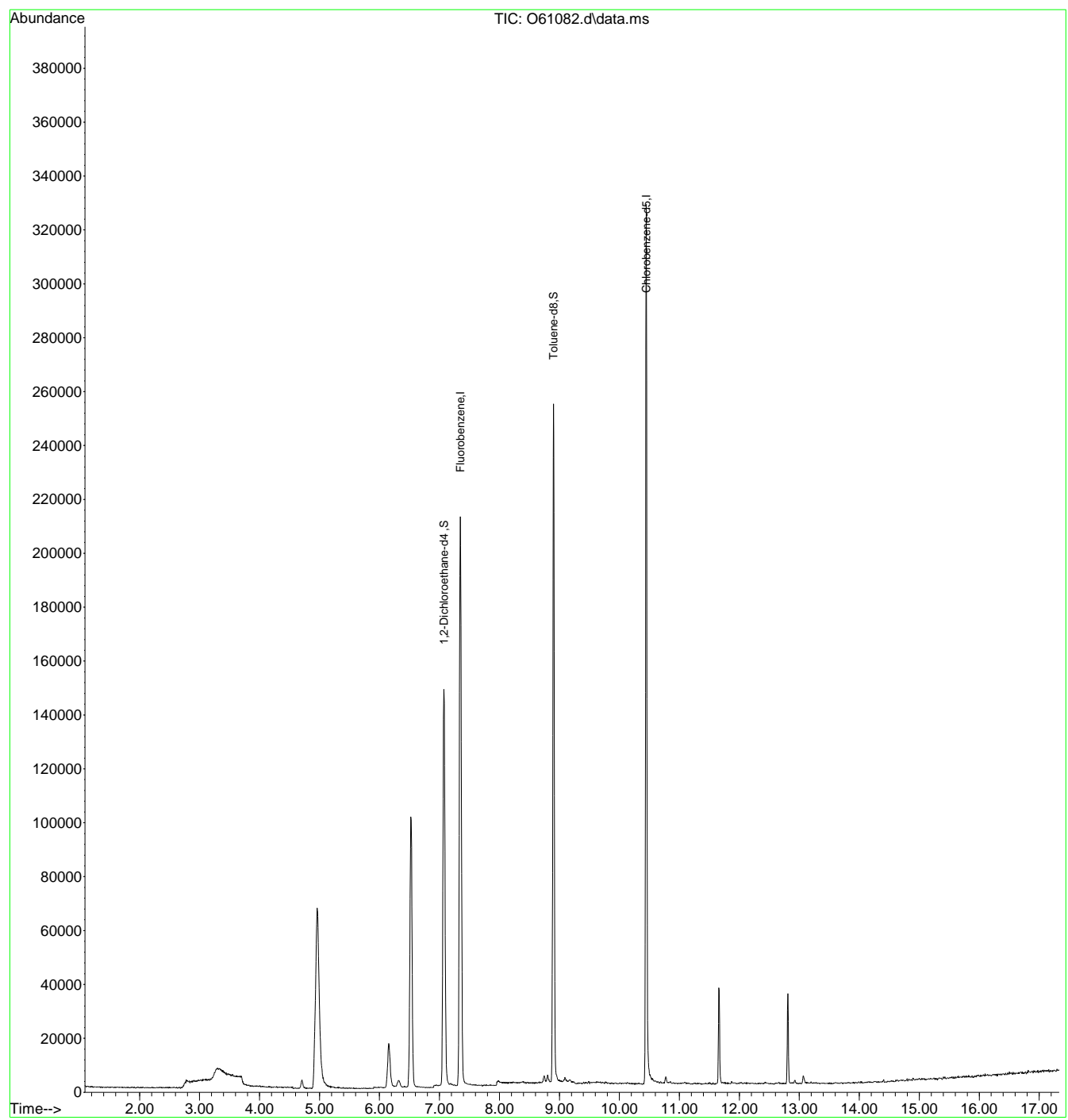
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.14  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61082.d  
Acq On : 3 Sep 2020 11:09 pm  
Operator : stutip  
Sample : fa78445-3  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 08 02:21:48 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration



7.1.4  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61083.d  
Acq On : 3 Sep 2020 11:30 pm  
Operator : stutip  
Sample : fa78445-4  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 02:21:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.352	96	323761	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	240418	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	147677	5.78	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	115.60%		
19) Toluene-d8	8.900	98	242682	4.60	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.00%		
Target Compounds							
9) Chloroform	6.333	83	43970	0.79	ug/L	94	Qvalue
10) Carbon Tetrachloride	6.510	117	10826	0.33	ug/L	94	
-----							

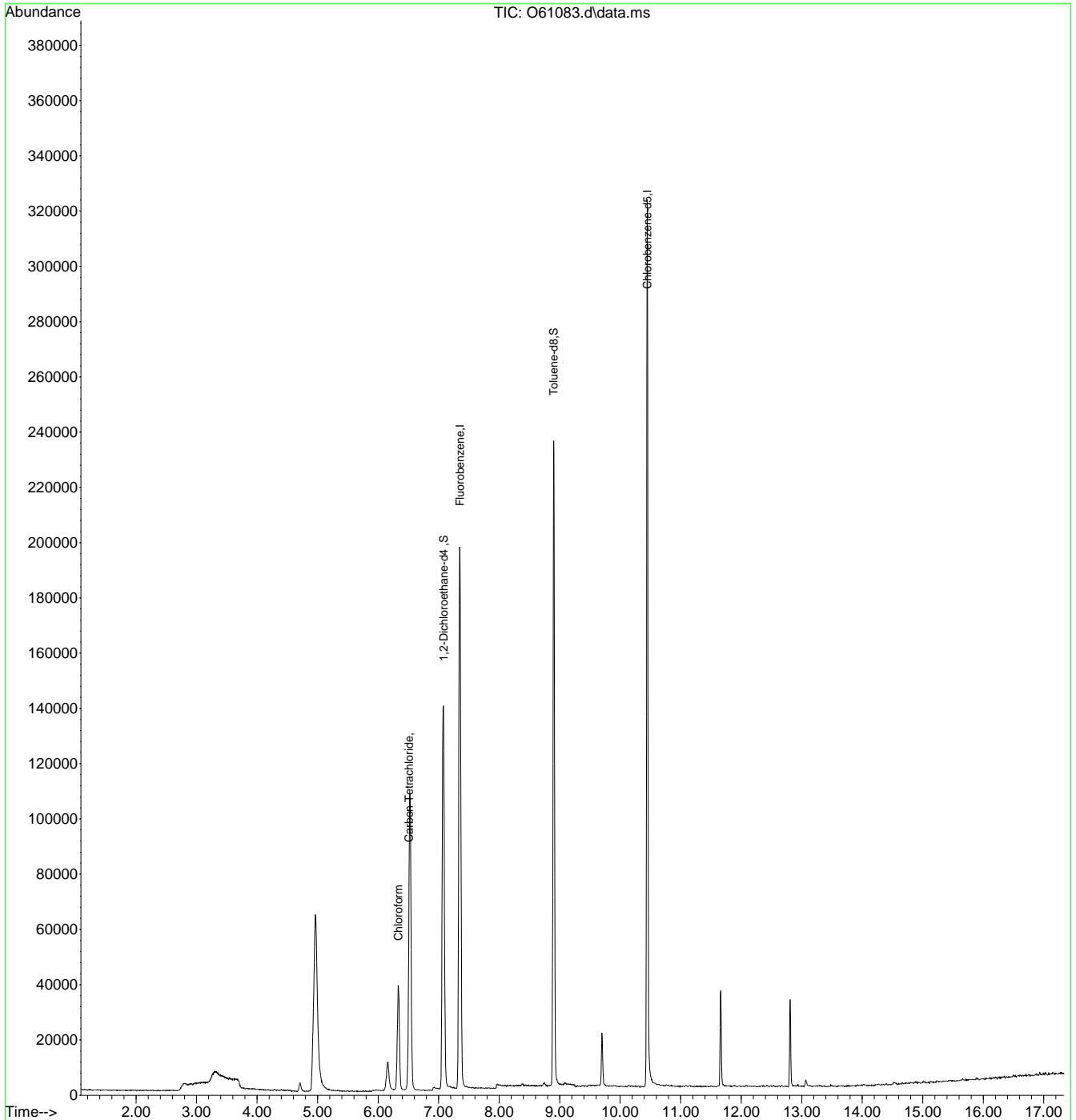
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.15  
7

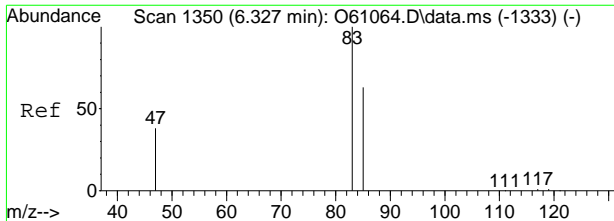
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61083.d  
Acq On : 3 Sep 2020 11:30 pm  
Operator : stutip  
Sample : fa78445-4  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 02:21:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

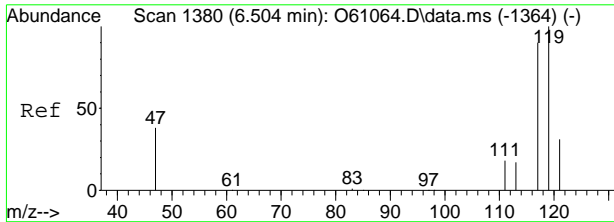
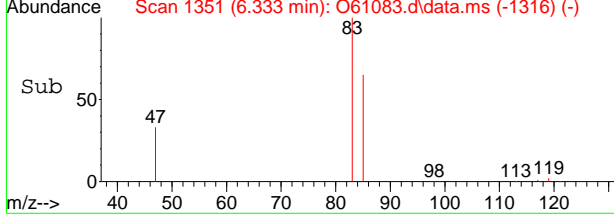
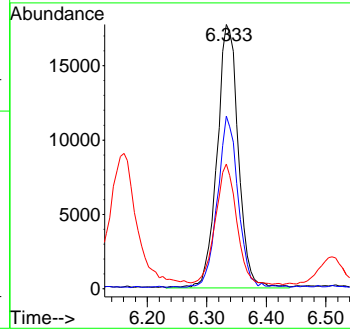
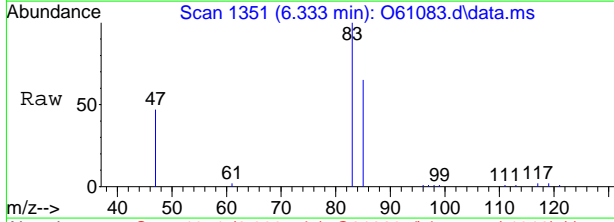


7.15  
7



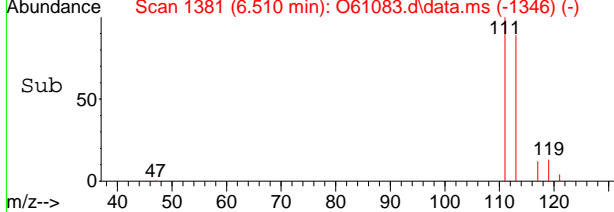
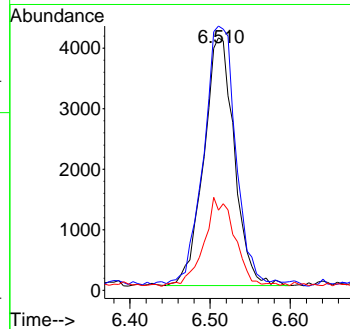
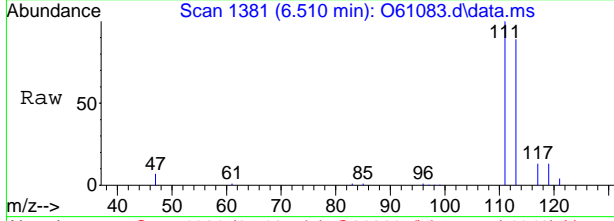
#9  
 Chloroform  
 Concen: 0.79 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. 0.006 min  
 Lab File: O61083.d  
 Acq: 3 Sep 2020 11:30 pm

Tgt Ion	Resp	Lower	Upper
83	43970		
85	64.8	33.0	93.0
47	45.3	8.1	68.1



#10  
 Carbon Tetrachloride  
 Concen: 0.33 ug/L  
 RT: 6.510 min Scan# 1381  
 Delta R.T. 0.006 min  
 Lab File: O61083.d  
 Acq: 3 Sep 2020 11:30 pm

Tgt Ion	Resp	Lower	Upper
117	10826		
119	104.0	80.9	140.9
121	30.4	4.1	64.1



7.15  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61084.d  
Acq On : 3 Sep 2020 11:50 pm  
Operator : stutip  
Sample : fa78445-5  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 08 02:34:03 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.352	96	314538	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	230869	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	143666	5.79	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	115.80%	
19) Toluene-d8	8.900	98	238102	4.70	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.00%	
Target Compounds						
10) Carbon Tetrachloride	6.516	117	20504	0.64	ug/L	Qvalue 97
-----						

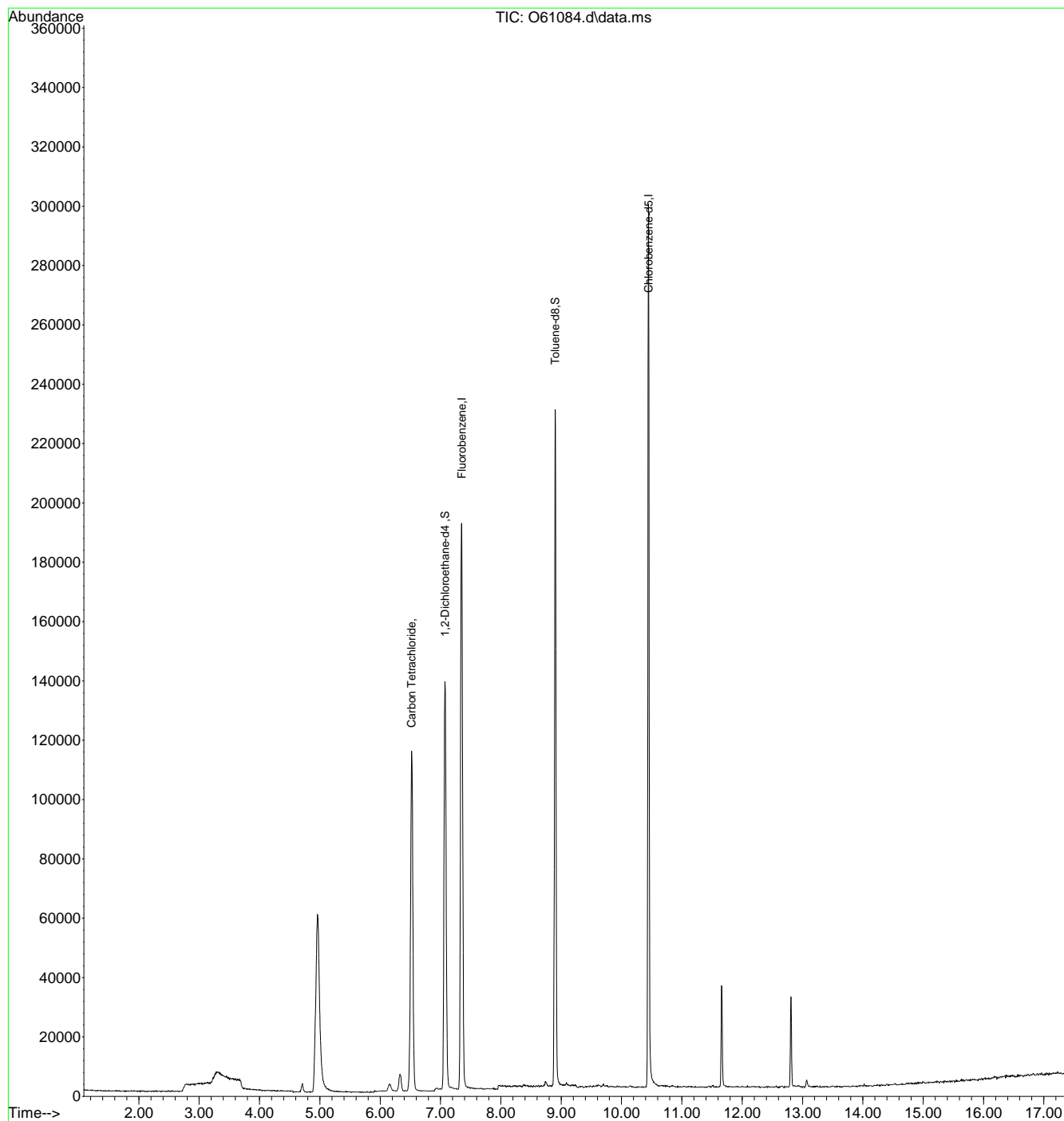
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.6  
7

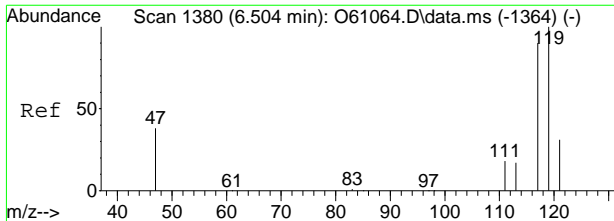
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61084.d  
Acq On : 3 Sep 2020 11:50 pm  
Operator : stutip  
Sample : fa78445-5  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 08 02:34:03 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

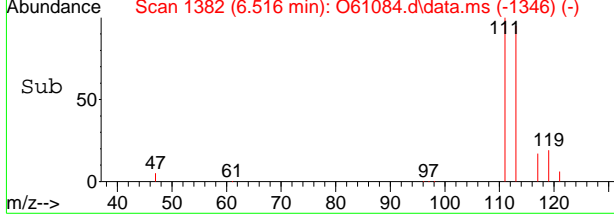
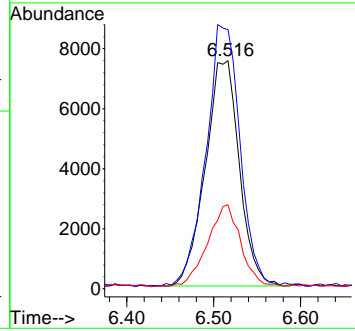
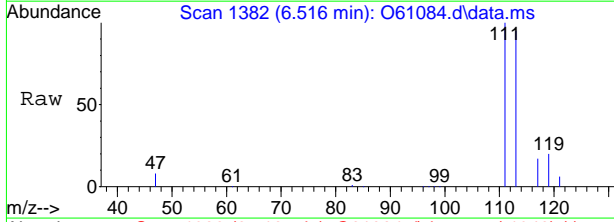


7.1.6  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.64 ug/L  
 RT: 6.516 min Scan# 1382  
 Delta R.T. 0.012 min  
 Lab File: O61084.d  
 Acq: 3 Sep 2020 11:50 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	113.1	80.9	140.9
121	36.4	4.1	64.1



7.1.6  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61085.d  
Acq On : 4 Sep 2020 12:10 am  
Operator : stutip  
Sample : fa78445-6  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 08 02:34:19 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	304608	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	211369	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	140971	5.87	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	117.40%	
19) Toluene-d8	8.900	98	229900	4.96	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.20%	
Target Compounds						
9) Chloroform	6.333	83	11800	0.22	ug/L	89
10) Carbon Tetrachloride	6.511	117	57948	1.86	ug/L	98
-----						

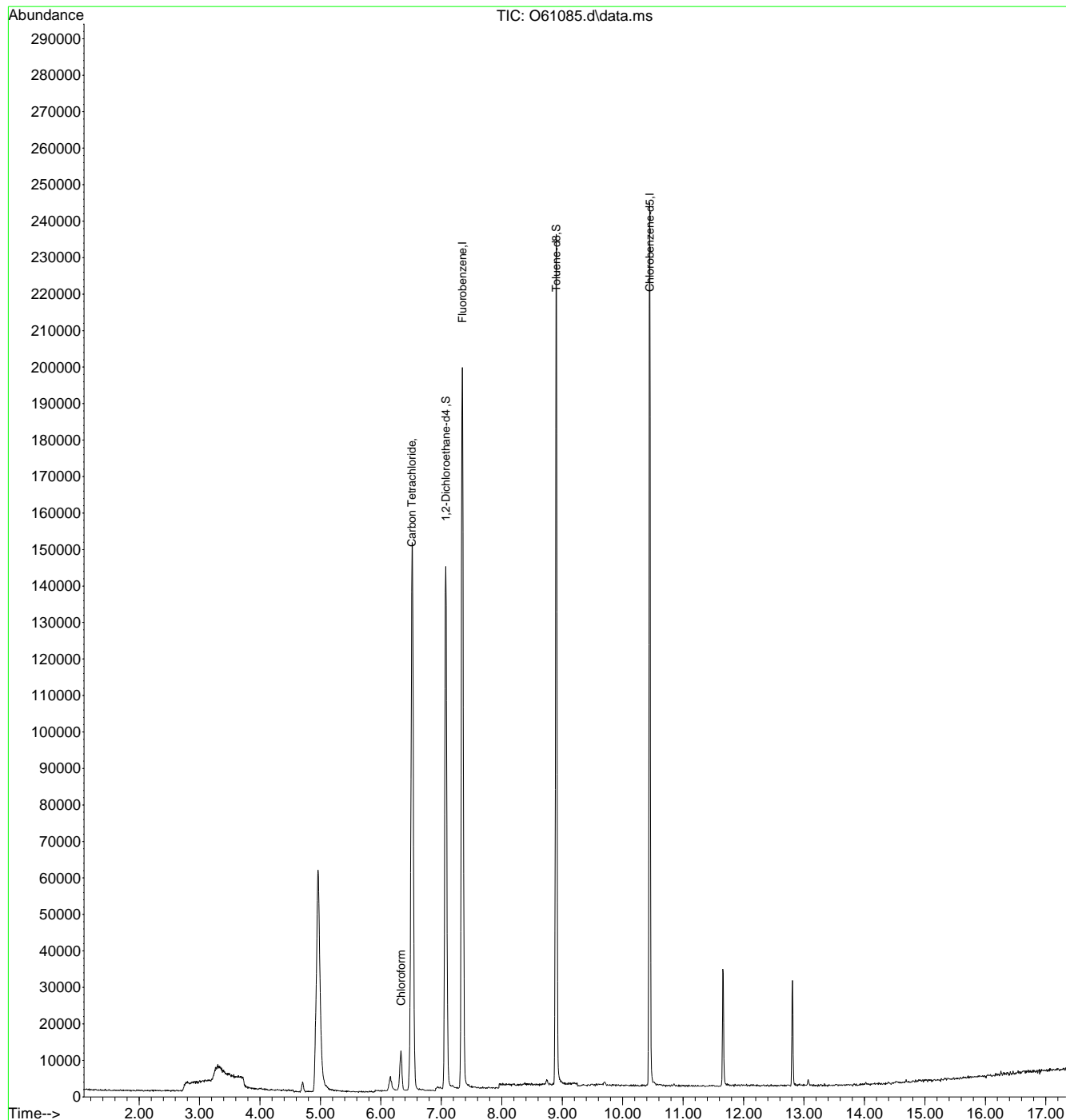
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.17  
7

Quantitation Report (QT Reviewed)

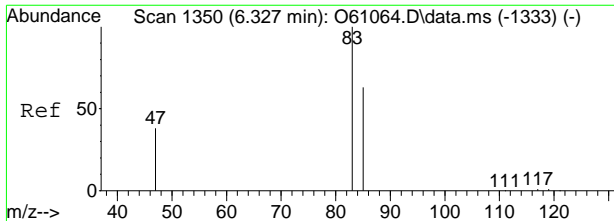
Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61085.d  
 Acq On : 4 Sep 2020 12:10 am  
 Operator : stutip  
 Sample : fa78445-6  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 08 02:34:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



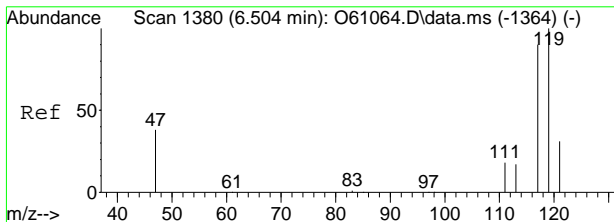
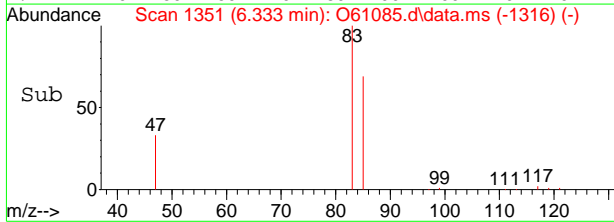
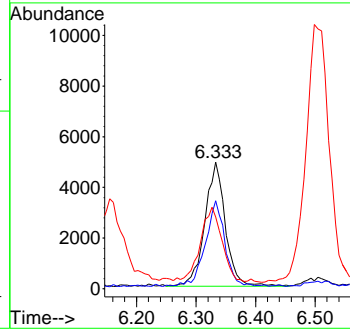
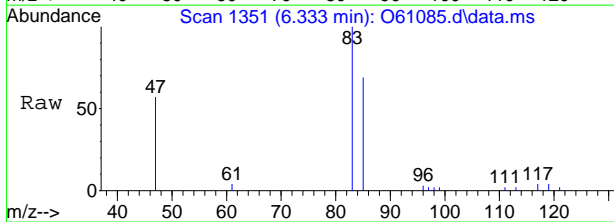
7.17  
7





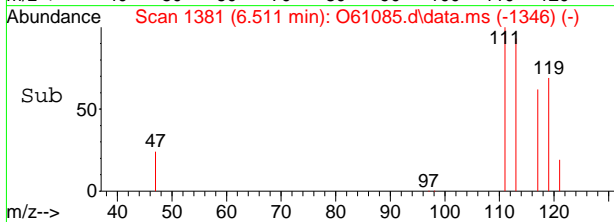
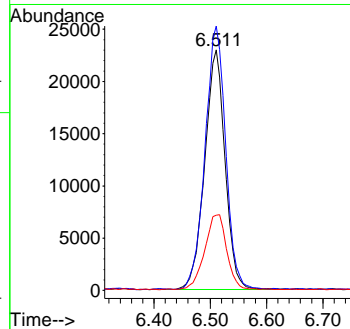
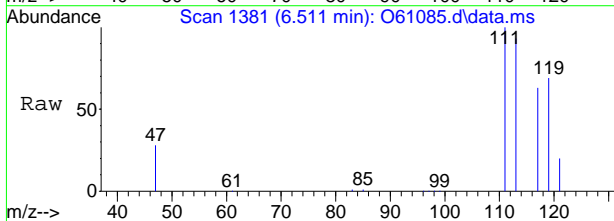
#9  
 Chloroform  
 Concen: 0.22 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. 0.006 min  
 Lab File: O61085.d  
 Acq: 4 Sep 2020 12:10 am

Tgt Ion	Resp	Lower	Upper
83	11800		
85	68.3	33.0	93.0
47	49.4	8.1	68.1



#10  
 Carbon Tetrachloride  
 Concen: 1.86 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. 0.007 min  
 Lab File: O61085.d  
 Acq: 4 Sep 2020 12:10 am

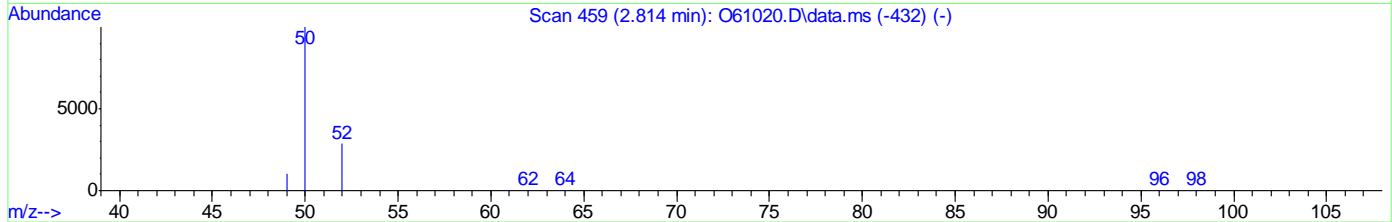
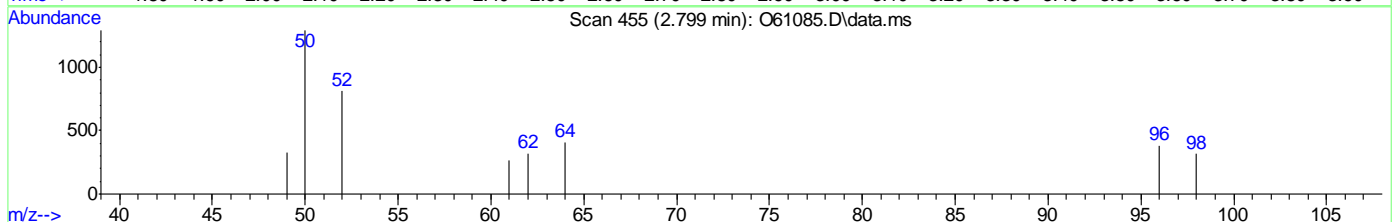
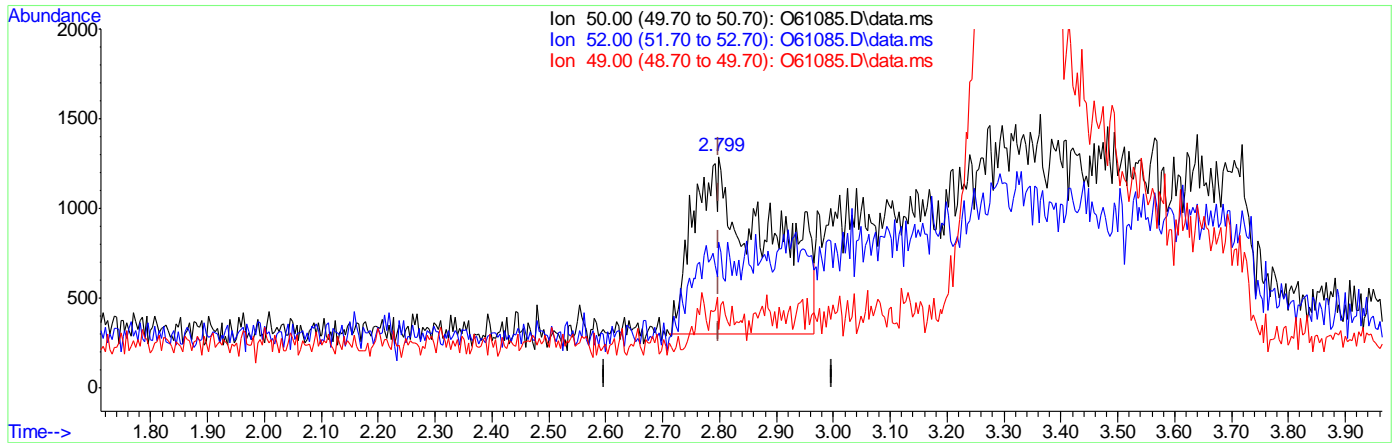
Tgt Ion	Resp	Lower	Upper
117	57948		
119	109.8	80.9	140.9
121	31.0	4.1	64.1



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
Data File : O61085.D  
Acq On : 4 Sep 2020 12:10 am  
Operator : manager  
Sample : fa78445-6 Inst : MSVOA12  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 04 06:52:50 2020  
Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 06:51:45 2020  
Response via : Initial Calibration



TIC: O61085.D\data.ms

(3) Chloromethane  
2.799min (+0.000) 0.14ug/L  
response 8768

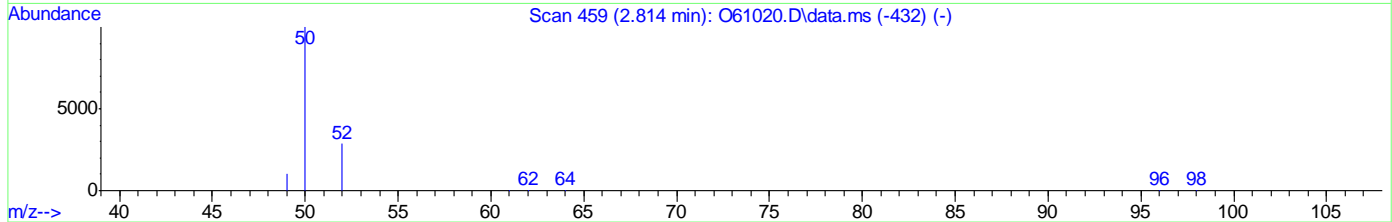
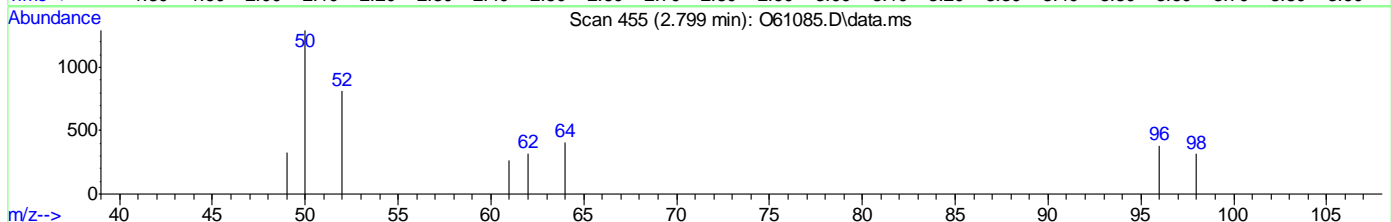
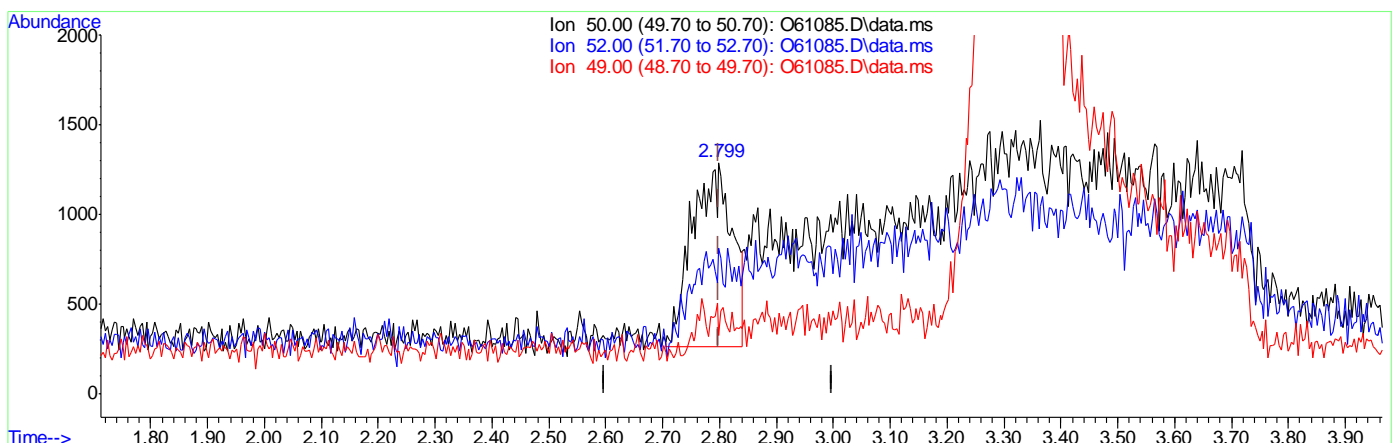
Ion	Exp%	Act%
50.00	100	100
52.00	28.70	53.60#
49.00	9.90	7.70
0.00	0.00	0.00

7.1.7.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
Data File : O61085.D  
Acq On : 4 Sep 2020 12:10 am  
Operator : manager  
Sample : fa78445-6 Inst : MSVOA12  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 04 06:52:50 2020  
Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 06:51:45 2020  
Response via : Initial Calibration



TIC: O61085.D\data.ms

(3) Chloromethane  
2.799min (+0.000) 0.08ug/L m  
response 4966

Ion	Exp%	Act%
50.00	100	100
52.00	28.70	62.90#
49.00	9.90	25.56
0.00	0.00	0.00

7.1.7.2  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61086.d  
Acq On : 4 Sep 2020 12:31 am  
Operator : stutip  
Sample : fa78445-7  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 08 02:21:57 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	292770	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	213189	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	136515	5.91	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	118.20%	
19) Toluene-d8	8.900	98	219078	4.68	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	93.60%	
Target Compounds						
10) Carbon Tetrachloride	6.511	117	6515	0.22	ug/L	Qvalue 89
-----						

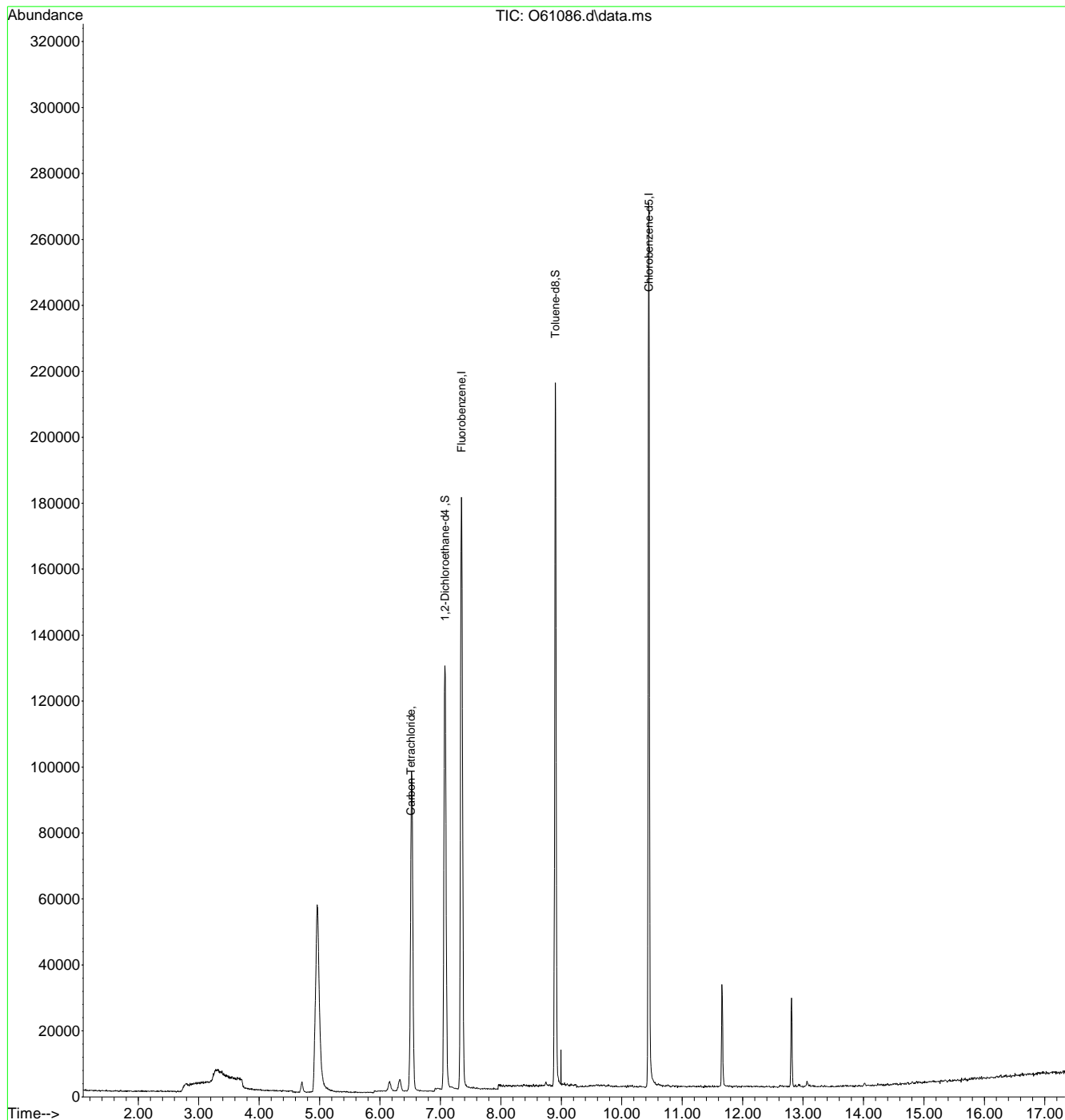
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.8  
7

Quantitation Report (QT Reviewed)

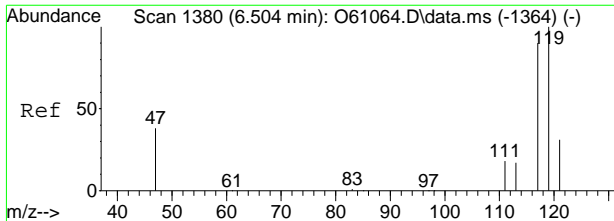
Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61086.d  
Acq On : 4 Sep 2020 12:31 am  
Operator : stutip  
Sample : fa78445-7  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 08 02:21:57 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration



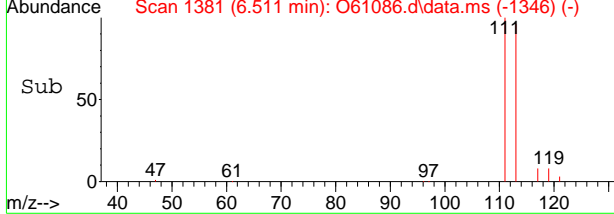
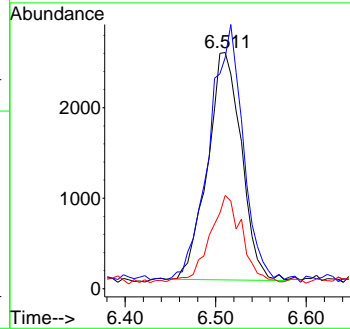
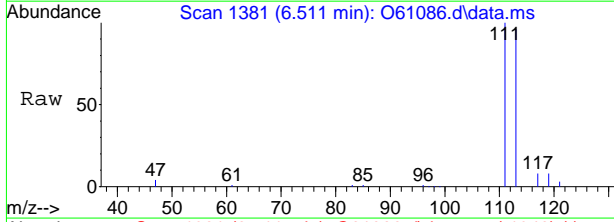
7.1.8  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.22 ug/L  
 RT: 6.511 min Scan# 1381  
 Delta R.T. 0.007 min  
 Lab File: O61086.d  
 Acq: 4 Sep 2020 12:31 am

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.1	80.9	140.9
121	38.1	4.1	64.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61087.d  
Acq On : 4 Sep 2020 12:51 am  
Operator : stutip  
Sample : fa78445-8  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 08 02:34:44 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.352	96	286769	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	210321	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.079	65	135751	6.00	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	120.00%	
19) Toluene-d8	8.903	98	214087	4.64	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.80%	
Target Compounds						
10) Carbon Tetrachloride	6.516	117	18024	0.62	ug/L	Qvalue 97
-----						

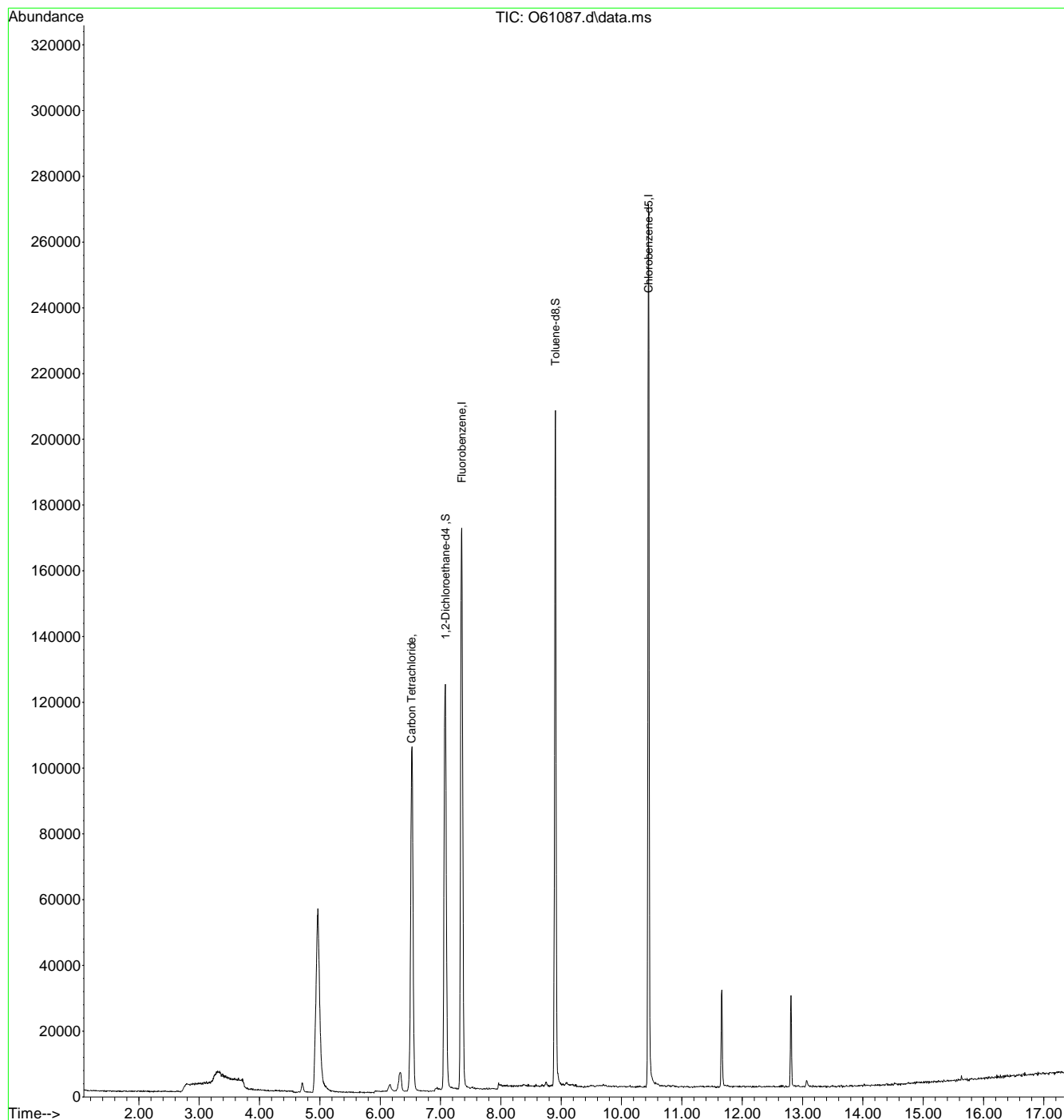
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.9  
7

Quantitation Report (QT Reviewed)

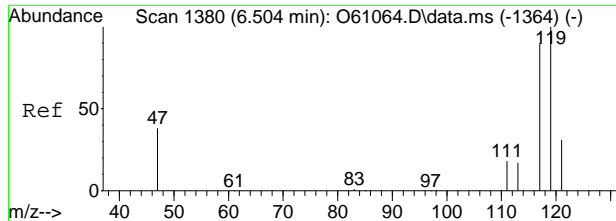
Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61087.d  
 Acq On : 4 Sep 2020 12:51 am  
 Operator : stutip  
 Sample : fa78445-8  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 08 02:34:44 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



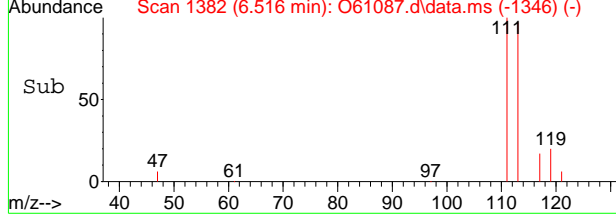
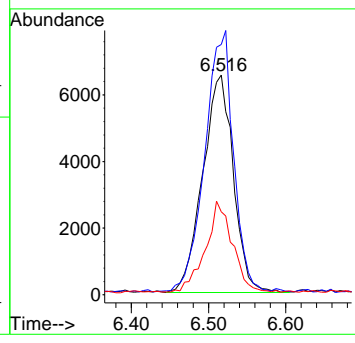
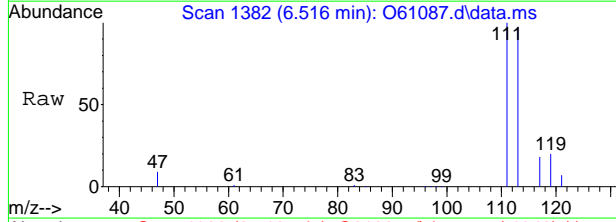
7.1.9  
7





#10  
 Carbon Tetrachloride  
 Concen: 0.62 ug/L  
 RT: 6.516 min Scan# 1382  
 Delta R.T. 0.012 min  
 Lab File: O61087.d  
 Acq: 4 Sep 2020 12:51 am

Tgt Ion	Ratio	Lower	Upper
117	100		
119	113.7	80.9	140.9
121	36.9	4.1	64.1



7.1.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61088.d  
Acq On : 4 Sep 2020 1:11 am  
Operator : stutip  
Sample : fa78445-9  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 02:34:57 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	277015	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	203129	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	133654	6.12	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	122.40%	
19) Toluene-d8	8.900	98	208521	4.68	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	93.60%	
Target Compounds						Qvalue
-----						

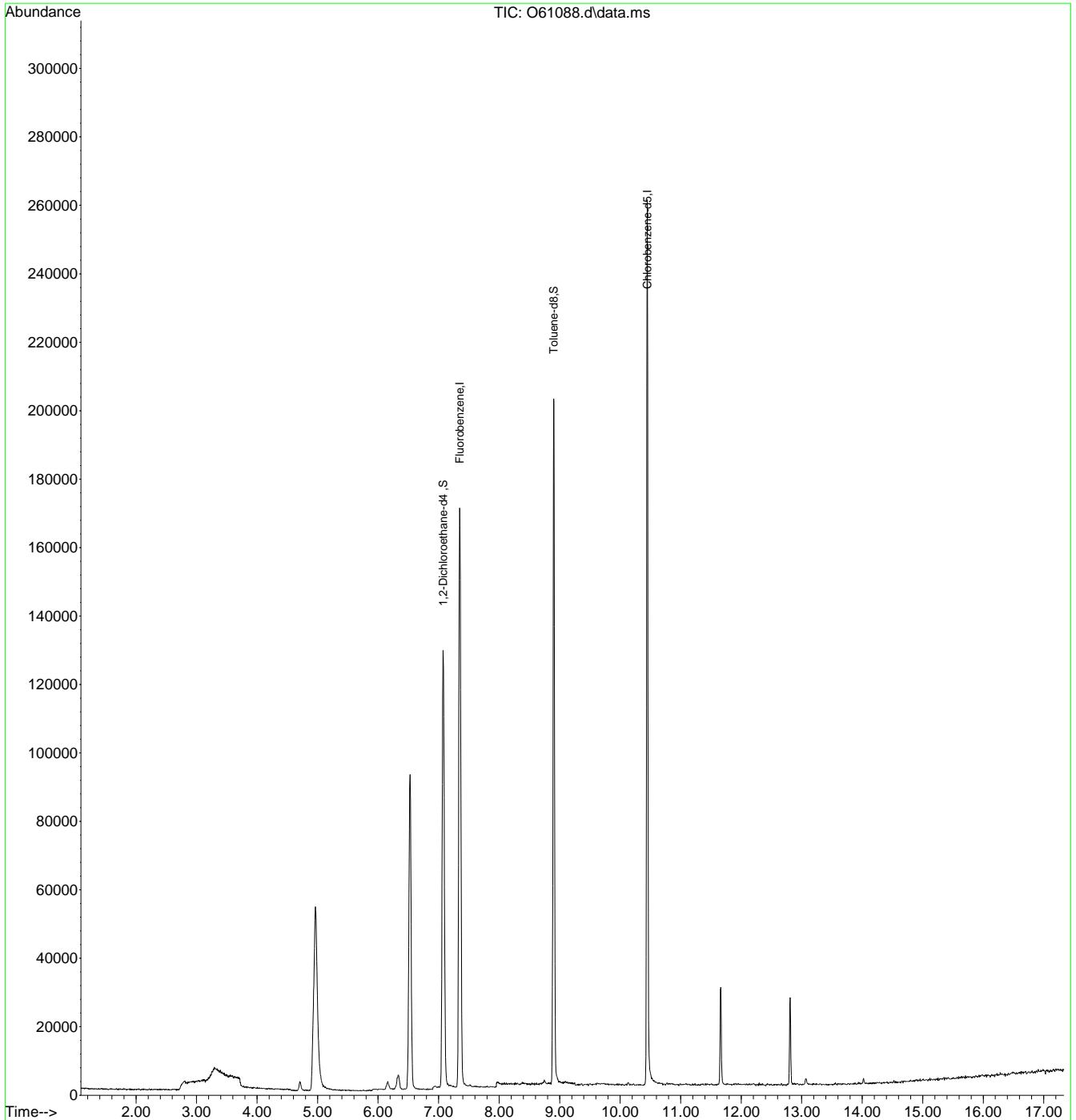
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.10  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61088.d  
 Acq On : 4 Sep 2020 1:11 am  
 Operator : stutip  
 Sample : fa78445-9  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 02:34:57 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



7.1.10  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61089.d  
Acq On : 4 Sep 2020 1:32 am  
Operator : stutip  
Sample : fa78445-10  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 08 02:35:10 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.352	96	270811	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	203979	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	130525	6.11	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	122.20%	
19) Toluene-d8	8.900	98	204344	4.56	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.20%	

Target Compounds Qvalue

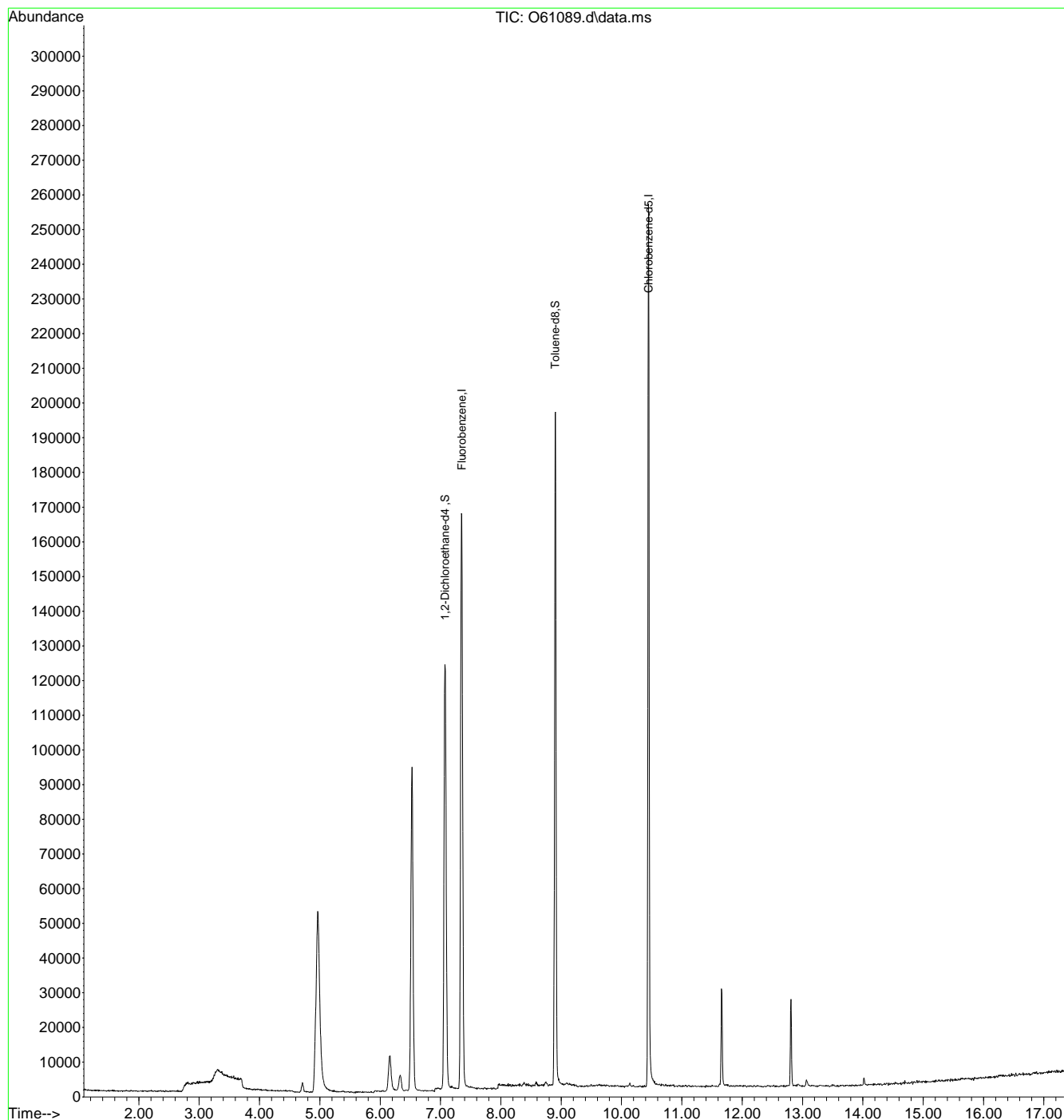
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.11  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61089.d  
Acq On : 4 Sep 2020 1:32 am  
Operator : stutip  
Sample : fa78445-10  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 08 02:35:10 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration



7.1.11  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62118.d  
Acq On : 5 Sep 2020 3:19 pm  
Operator : stutip  
Sample : FA78445-11  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 08 20:22:54 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1581623	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1170462	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	624742	6.10	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	122.00%	
19) Toluene-d8	8.961	98	1438040	4.94	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%	
Target Compounds							
5) Methylene Chloride	4.713	84	17196	0.13	ppb	92	
9) Chloroform	6.371	83	46187	0.18	ppb	96	
-----							

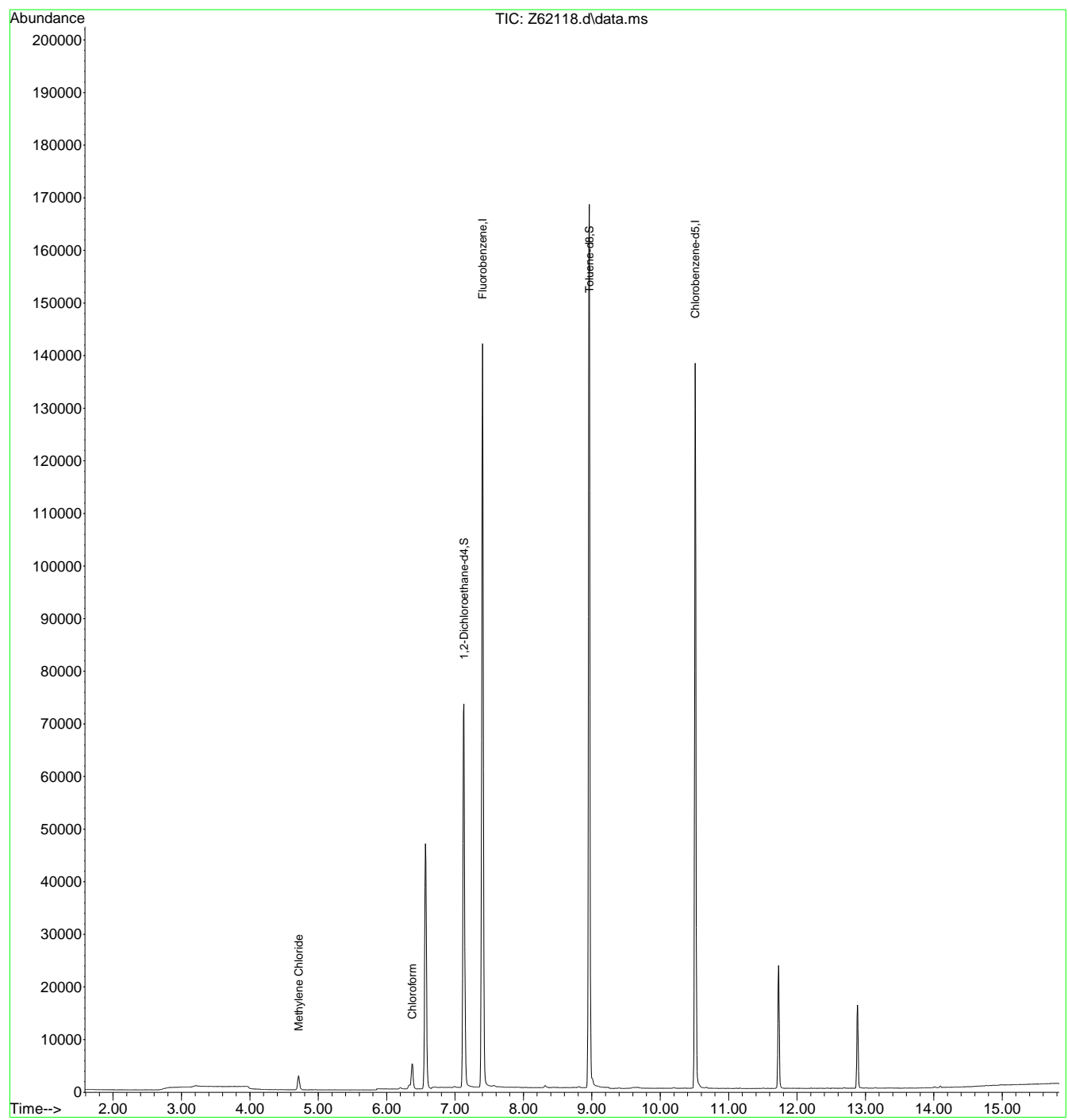
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.12  
7

Quantitation Report (QT Reviewed)

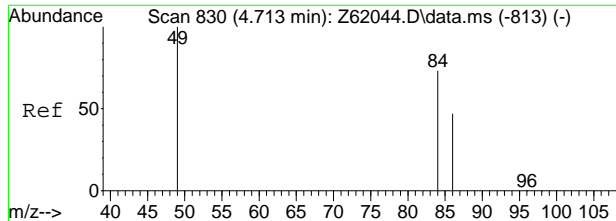
Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62118.d  
Acq On : 5 Sep 2020 3:19 pm  
Operator : stutip  
Sample : FA78445-11  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 08 20:22:54 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.12  
7

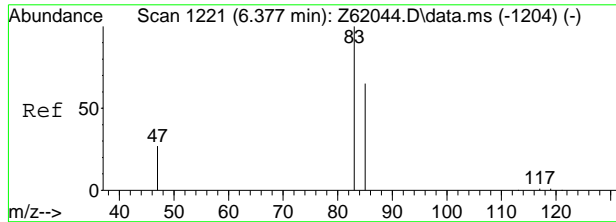
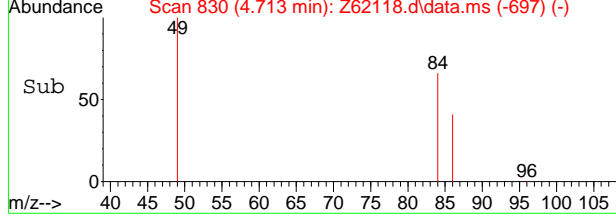
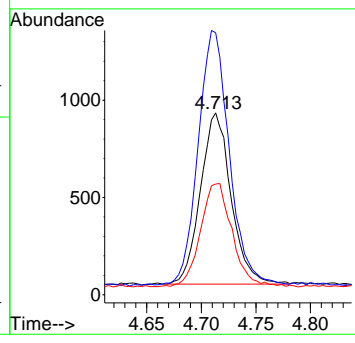
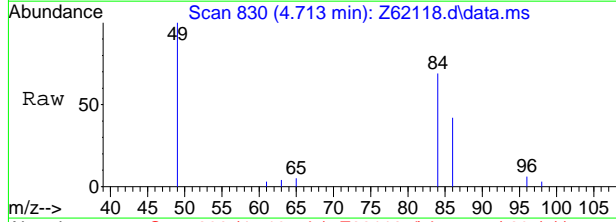




#5  
 Methylene Chloride  
 Concen: 0.13 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62118.d  
 Acq: 5 Sep 2020 3:19 pm

Tgt Ion: 84 Resp: 17196

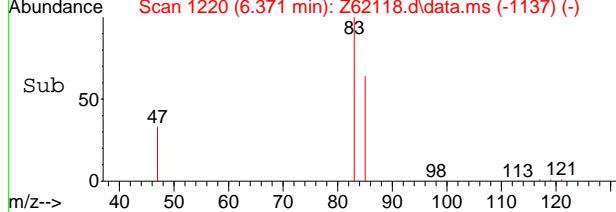
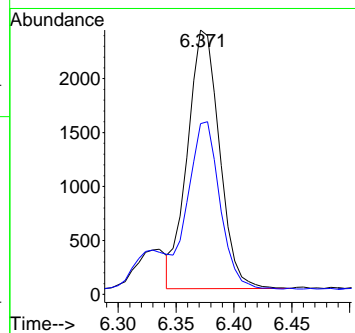
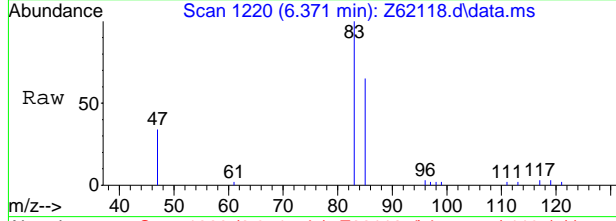
Ion	Ratio	Lower	Upper
84	100		
49	146.8	116.6	156.6
86	59.3	43.9	83.9



#9  
 Chloroform  
 Concen: 0.18 ppb  
 RT: 6.371 min Scan# 1220  
 Delta R.T. -0.006 min  
 Lab File: Z62118.d  
 Acq: 5 Sep 2020 3:19 pm

Tgt Ion: 83 Resp: 46187

Ion	Ratio	Lower	Upper
83	100		
85	62.9	46.4	86.4



7.1.12  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62119.d  
Acq On : 5 Sep 2020 3:42 pm  
Operator : stutip  
Sample : FA78445-12  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 08 20:22:56 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1601310	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1178090	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	638314	6.15	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	123.00%
19) Toluene-d8	8.961	98	1442468	4.92	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%
Target Compounds						
5) Methylene Chloride	4.717	84	13908	0.10	ppb	97
9) Chloroform	6.377	83	14812	0.06	ppb	98
10) Carbon Tetrachloride	6.543	117	12480	0.08	ppb	99
-----						

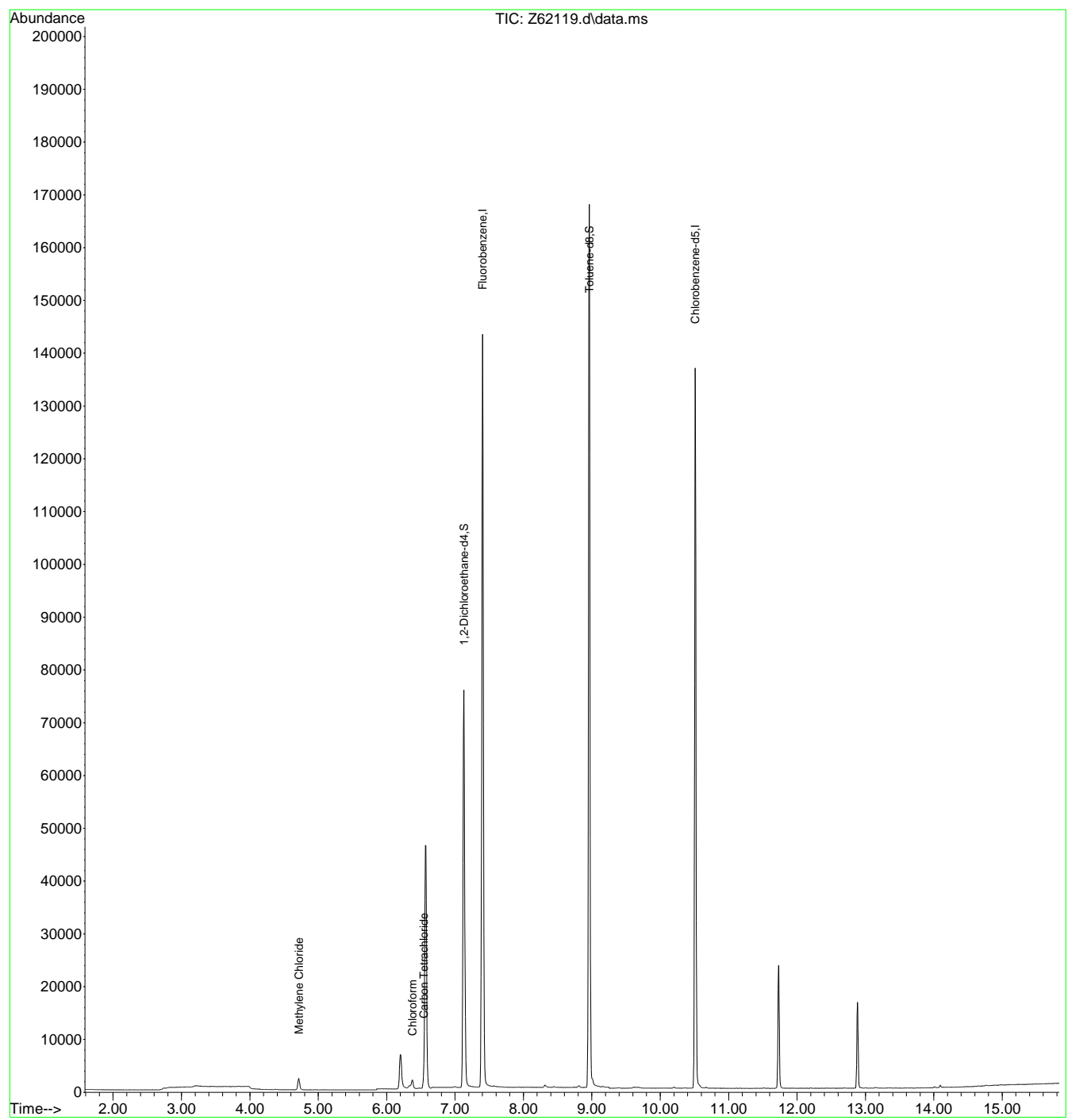
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.13  
7

Quantitation Report (QT Reviewed)

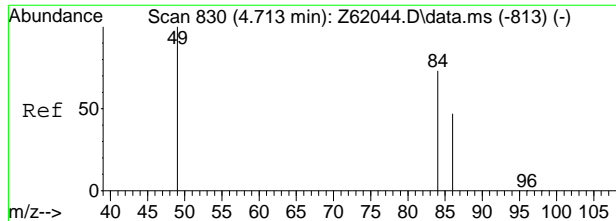
Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62119.d  
Acq On : 5 Sep 2020 3:42 pm  
Operator : stutip  
Sample : FA78445-12  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 08 20:22:56 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.13  
7

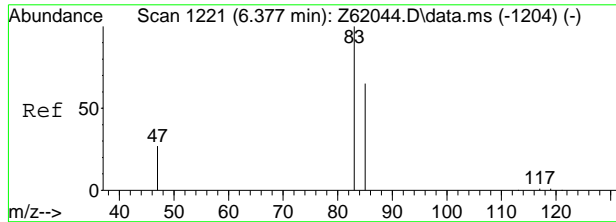
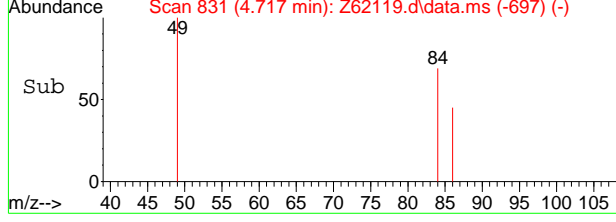
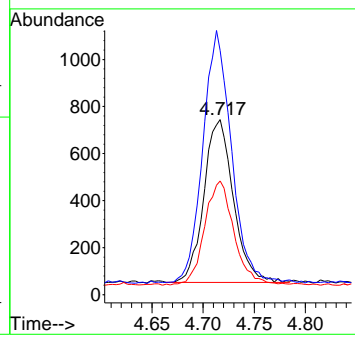
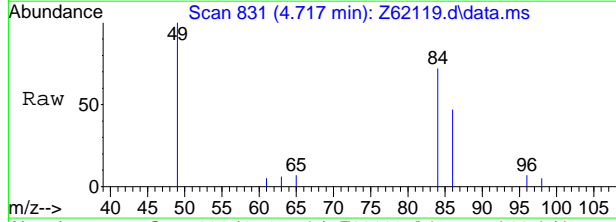




#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62119.d  
 Acq: 5 Sep 2020 3:42 pm

Tgt Ion: 84 Resp: 13908

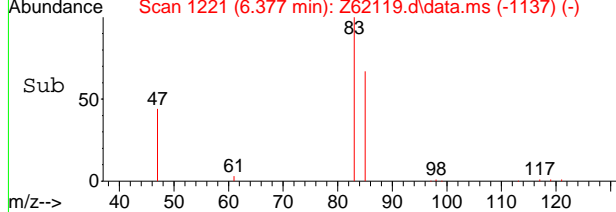
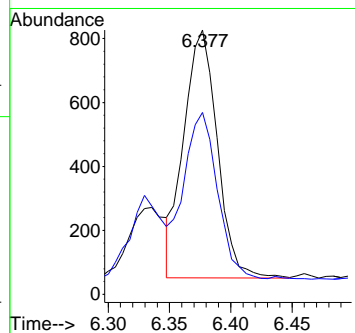
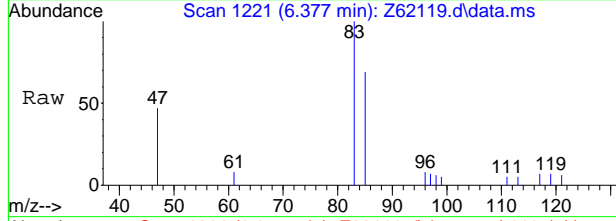
Ion	Ratio	Lower	Upper
84	100		
49	142.3	116.6	156.6
86	63.4	43.9	83.9



#9  
 Chloroform  
 Concen: 0.06 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62119.d  
 Acq: 5 Sep 2020 3:42 pm

Tgt Ion: 83 Resp: 14812

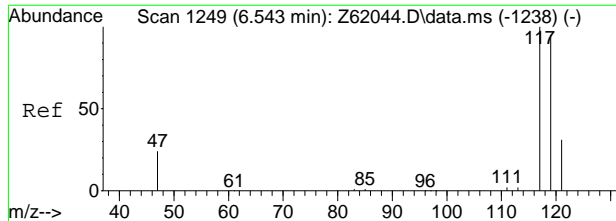
Ion	Ratio	Lower	Upper
83	100		
85	67.8	46.4	86.4



7.1.13  
7

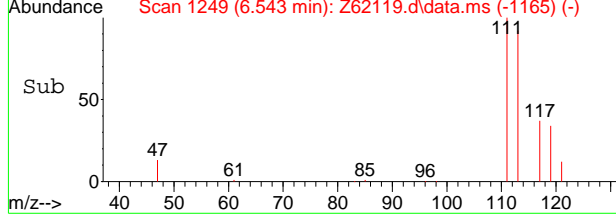
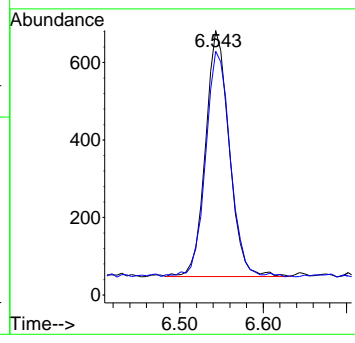
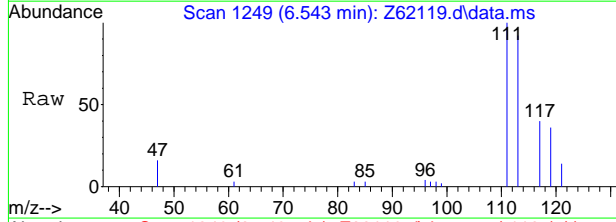






#10  
Carbon Tetrachloride  
Concen: 0.08 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62119.d  
Acq: 5 Sep 2020 3:42 pm

Tgt Ion	Resp	Lower	Upper
117	12480		
117	100		
119	94.9	75.6	115.6



7.1.13  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62120.d  
Acq On : 5 Sep 2020 4:06 pm  
Operator : stutip  
Sample : FA78445-13  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 08 20:22:59 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1512464	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1110282	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	606881	6.19	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	123.80%
19) Toluene-d8	8.961	98	1369176	4.96	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
Target Compounds						
5) Methylene Chloride	4.713	84	20162	0.15	ppb	92
9) Chloroform	6.377	83	81454	0.34	ppb	99
10) Carbon Tetrachloride	6.543	117	150982	0.97	ppb	99
-----						

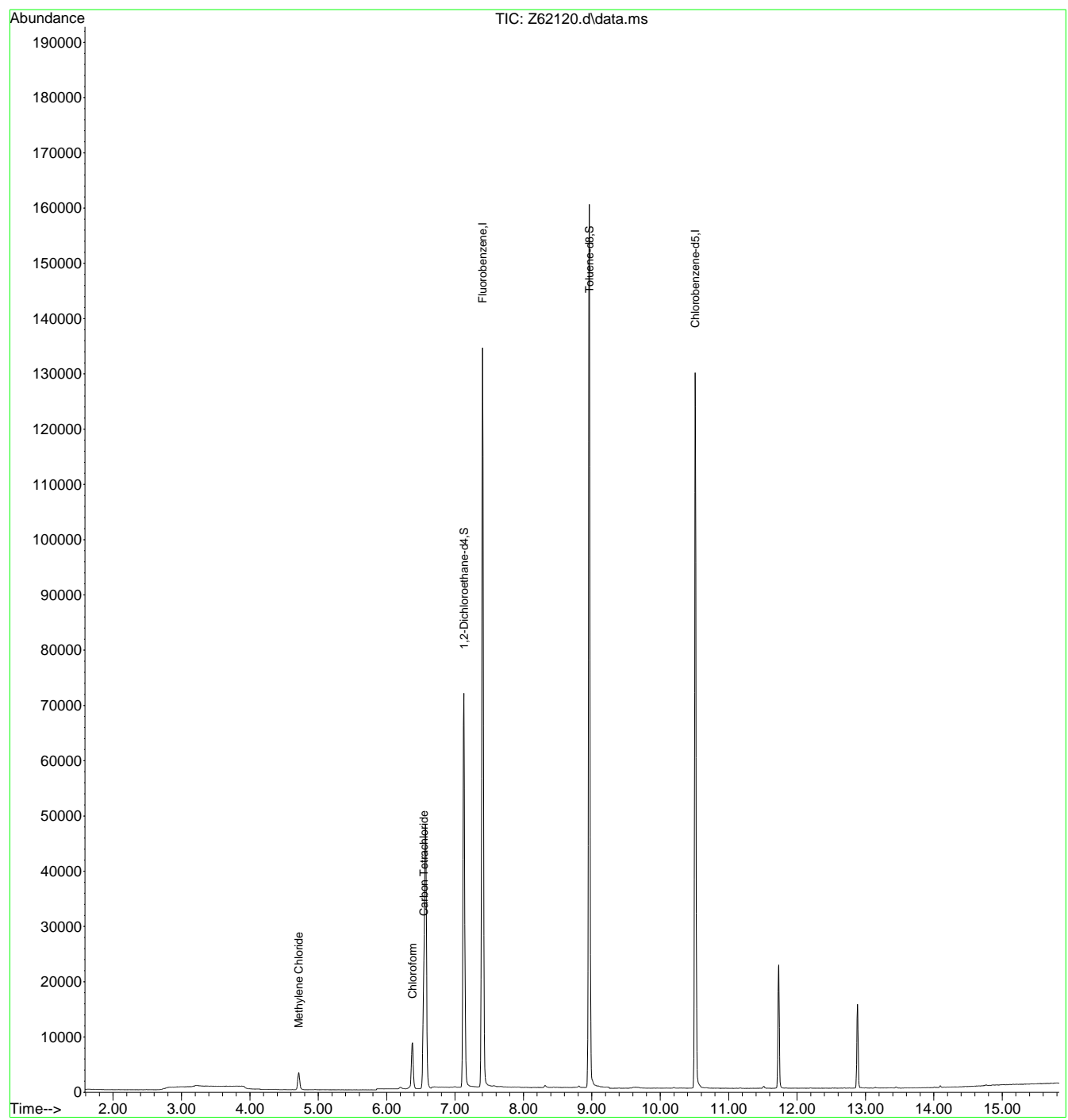
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.14  
7

Quantitation Report (QT Reviewed)

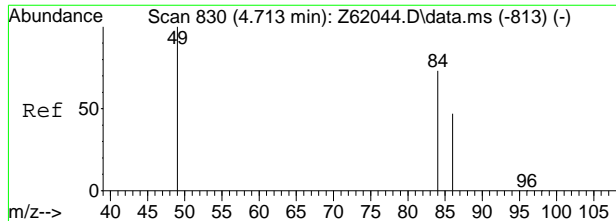
Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62120.d  
Acq On : 5 Sep 2020 4:06 pm  
Operator : stutip  
Sample : FA78445-13  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 08 20:22:59 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.14  
7

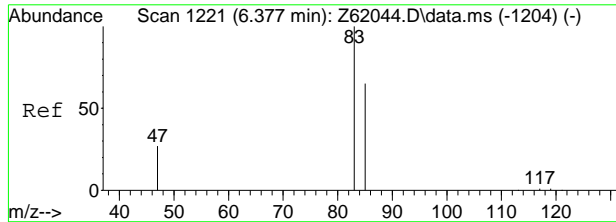
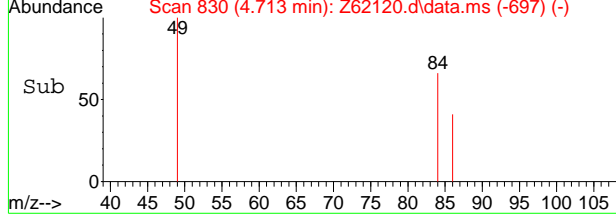
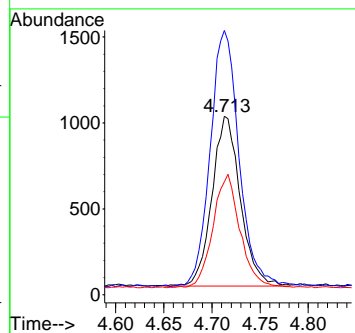
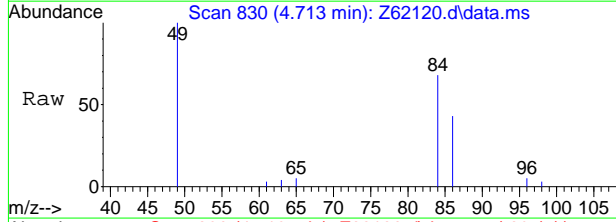




#5  
 Methylene Chloride  
 Concen: 0.15 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62120.d  
 Acq: 5 Sep 2020 4:06 pm

Tgt Ion: 84 Resp: 20162

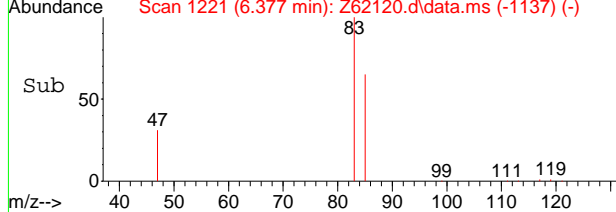
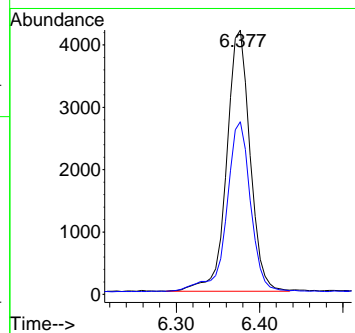
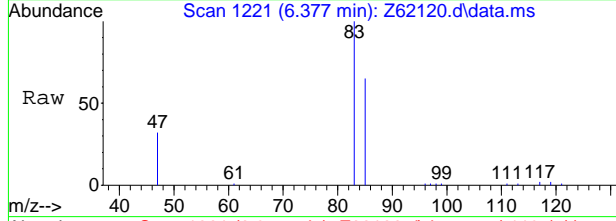
Ion	Ratio	Lower	Upper
84	100		
49	150.0	116.6	156.6
86	62.3	43.9	83.9



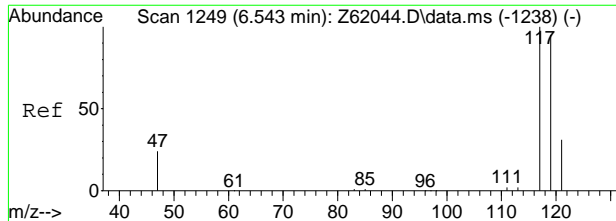
#9  
 Chloroform  
 Concen: 0.34 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62120.d  
 Acq: 5 Sep 2020 4:06 pm

Tgt Ion: 83 Resp: 81454

Ion	Ratio	Lower	Upper
83	100		
85	67.4	46.4	86.4

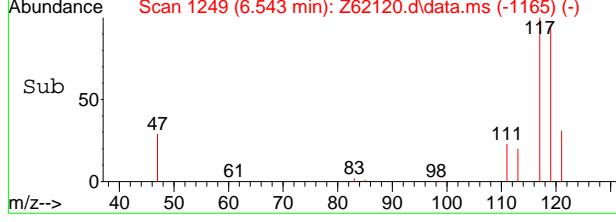
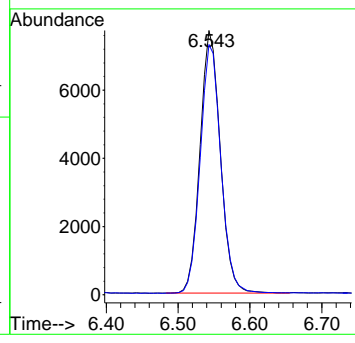
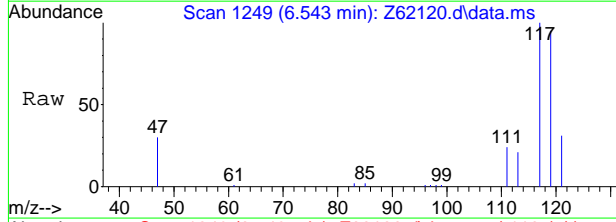


7.1.14  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.97 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62120.d  
 Acq: 5 Sep 2020 4:06 pm

Tgt Ion	Resp	Lower	Upper
117	150982		
117	100		
119	96.3	75.6	115.6



7.1.14  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62121.D  
Acq On : 5 Sep 2020 4:30 pm  
Operator : stutip  
Sample : FA78445-14  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 20:23:01 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1566259	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1152433	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	631302	6.22	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	124.40%
19) Toluene-d8	8.961	98	1416525	4.94	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
Target Compounds						
5) Methylene Chloride	4.713	84	11864	0.09	ppb	89
9) Chloroform	6.377	83	13303	0.05	ppb	99
15) Trichloroethene	7.564	95	14096	0.10	ppb	98
-----						

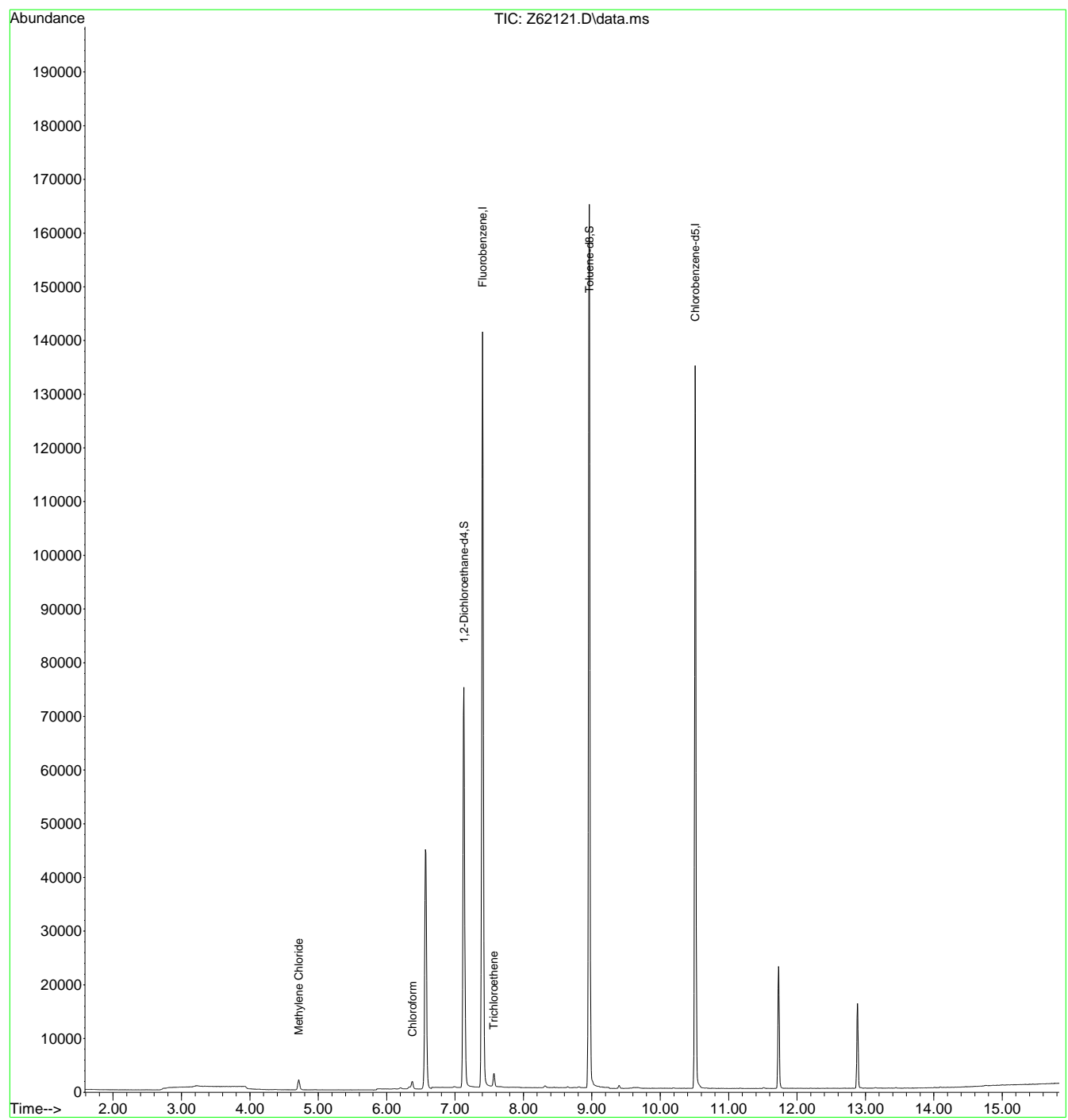
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.15  
7

Quantitation Report (QT Reviewed)

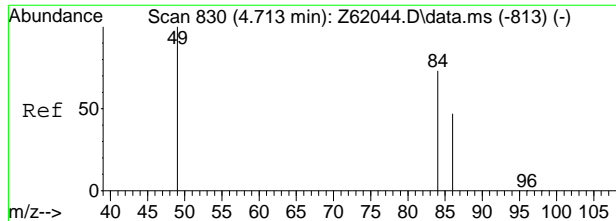
Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62121.D  
Acq On : 5 Sep 2020 4:30 pm  
Operator : stutip  
Sample : FA78445-14  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 20:23:01 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.15  
7

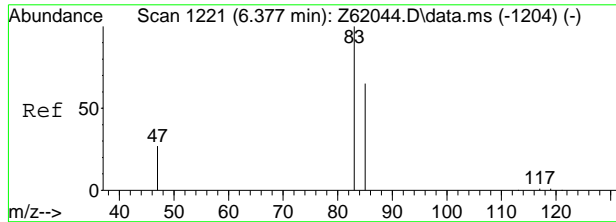
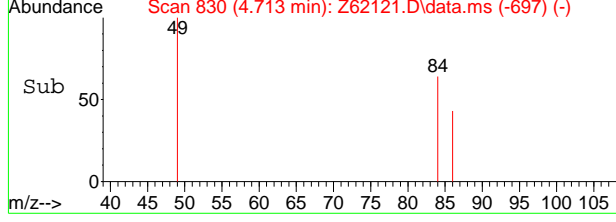
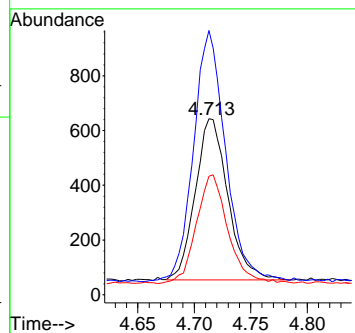
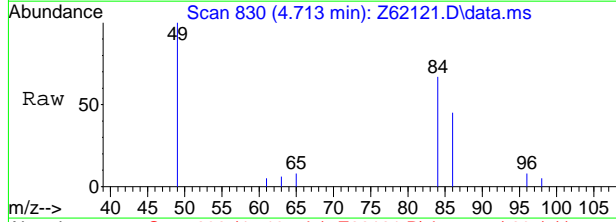




#5  
 Methylene Chloride  
 Concen: 0.09 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62121.D  
 Acq: 5 Sep 2020 4:30 pm

Tgt Ion: 84 Resp: 11864

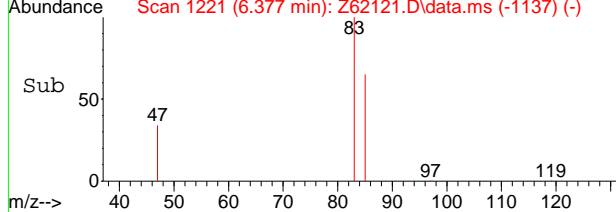
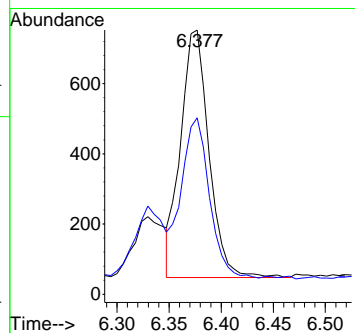
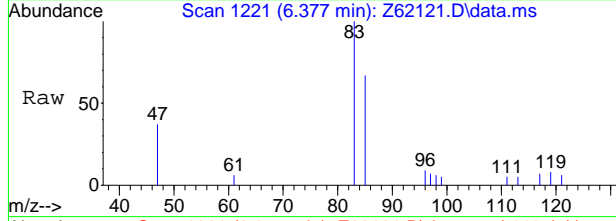
Ion	Ratio	Lower	Upper
84	100		
49	155.2	116.6	156.6
86	65.9	43.9	83.9



#9  
 Chloroform  
 Concen: 0.05 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62121.D  
 Acq: 5 Sep 2020 4:30 pm

Tgt Ion: 83 Resp: 13303

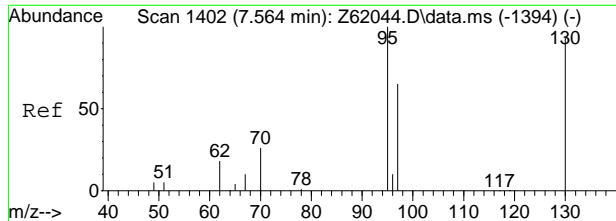
Ion	Ratio	Lower	Upper
83	100		
85	65.2	46.4	86.4



7.1.15  
7



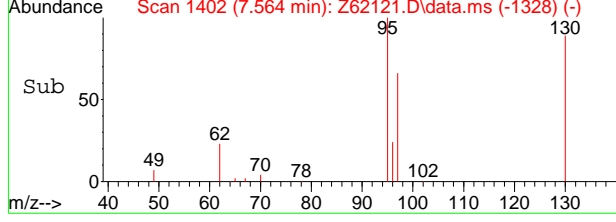
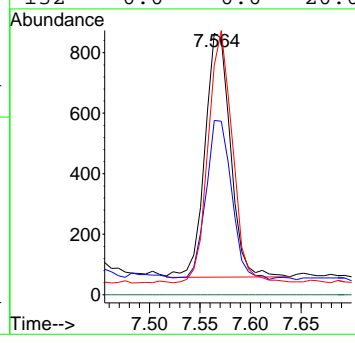
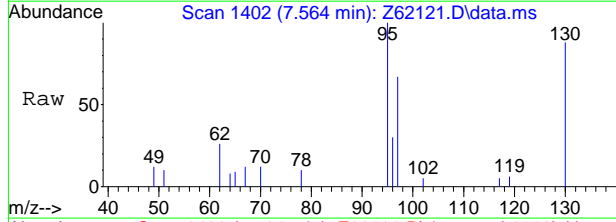




#15  
 Trichloroethene  
 Concen: 0.10 ppb  
 RT: 7.564 min Scan# 1402  
 Delta R.T. 0.000 min  
 Lab File: Z62121.D  
 Acq: 5 Sep 2020 4:30 pm

Tgt Ion: 95 Resp: 14096

Ion	Ratio	Lower	Upper
95	100		
97	64.7	45.0	85.0
130	89.1	72.6	112.6
132	0.0	0.0	20.0



7.1.15  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62122.D  
Acq On : 5 Sep 2020 4:54 pm  
Operator : stutip  
Sample : FA78445-15  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 08 20:23:03 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1556755	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1151341	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	632595	6.27	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	125.40%#	
19) Toluene-d8	8.961	98	1397156	4.88	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%	
Target Compounds							
5) Methylene Chloride	4.713	84	12553	0.09	ppb	93	
9) Chloroform	6.377	83	46928	0.19	ppb	96	
10) Carbon Tetrachloride	6.543	117	23534	0.15	ppb	100	
-----							

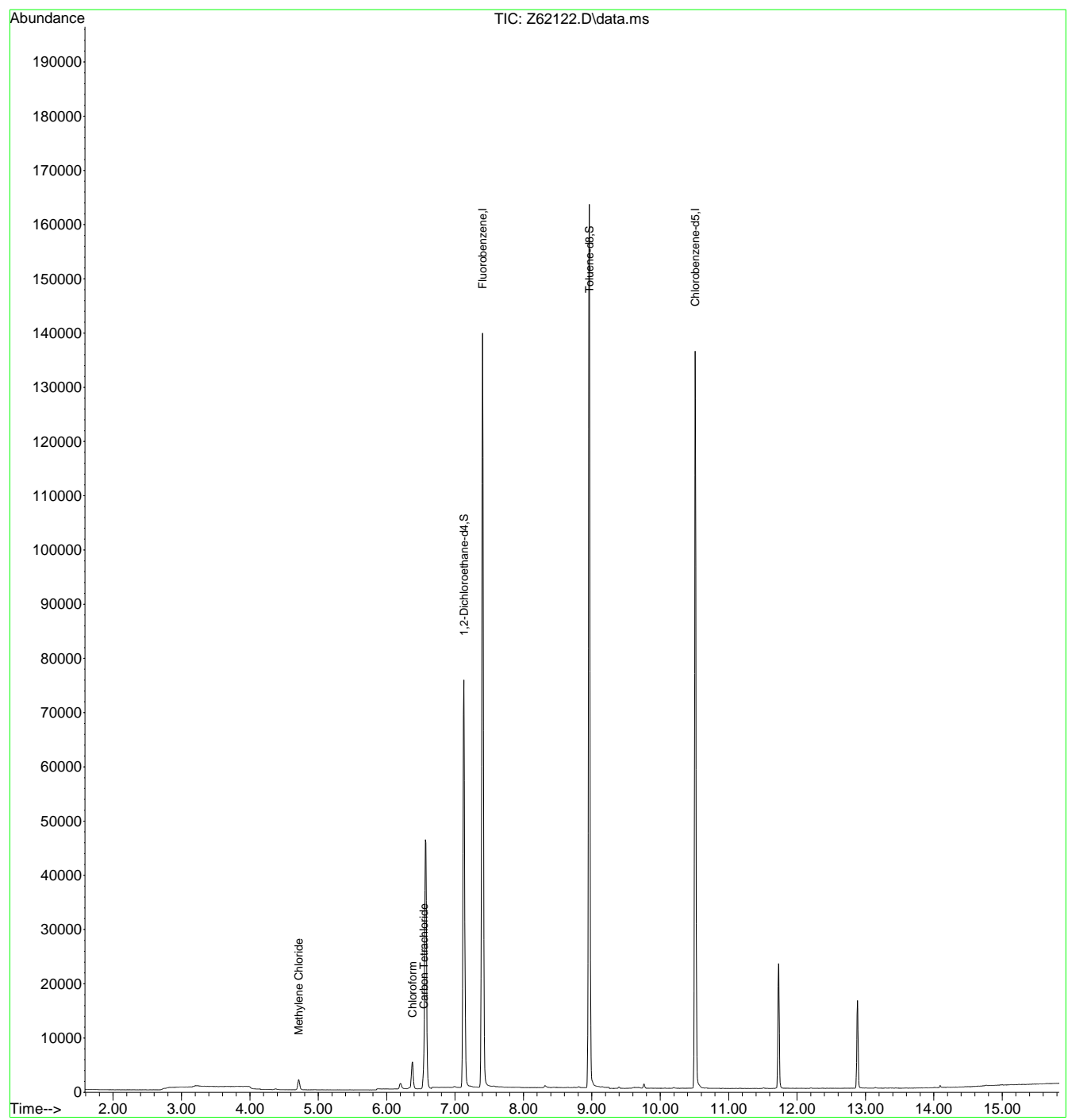
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.16  
7

Quantitation Report (QT Reviewed)

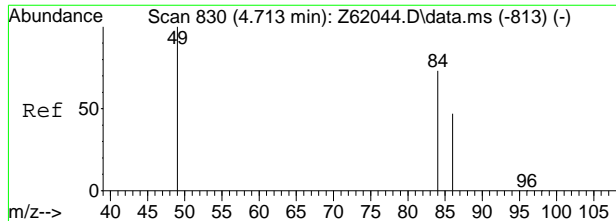
Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62122.D  
Acq On : 5 Sep 2020 4:54 pm  
Operator : stutip  
Sample : FA78445-15  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 08 20:23:03 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.16  
7

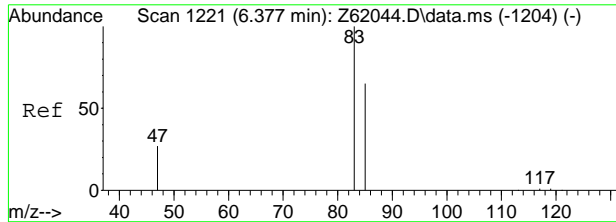
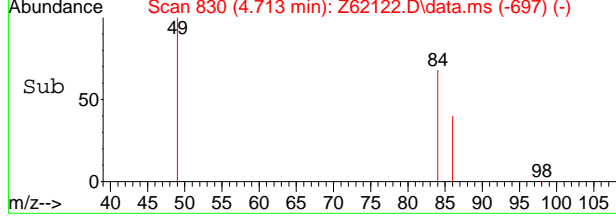
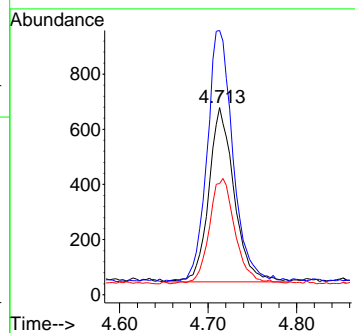
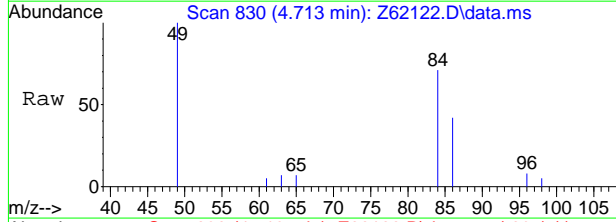




#5  
 Methylene Chloride  
 Concen: 0.09 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62122.D  
 Acq: 5 Sep 2020 4:54 pm

Tgt Ion: 84 Resp: 12553

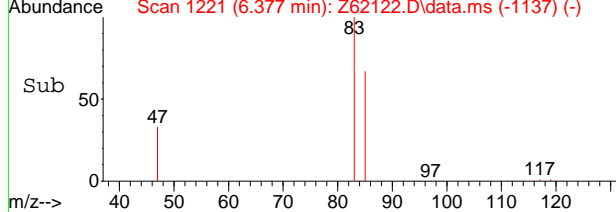
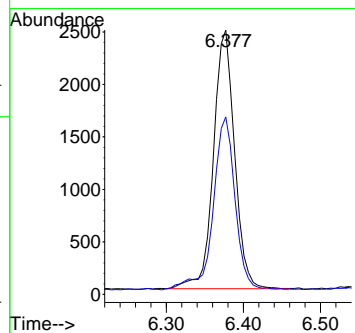
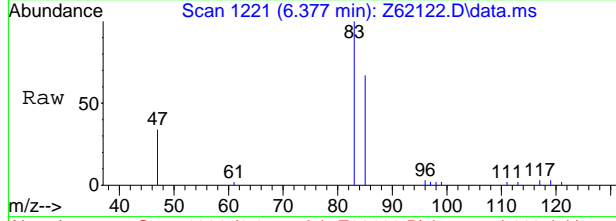
Ion	Ratio	Lower	Upper
84	100		
49	143.5	116.6	156.6
86	56.8	43.9	83.9



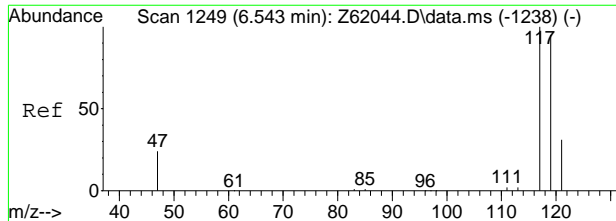
#9  
 Chloroform  
 Concen: 0.19 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62122.D  
 Acq: 5 Sep 2020 4:54 pm

Tgt Ion: 83 Resp: 46928

Ion	Ratio	Lower	Upper
83	100		
85	69.8	46.4	86.4

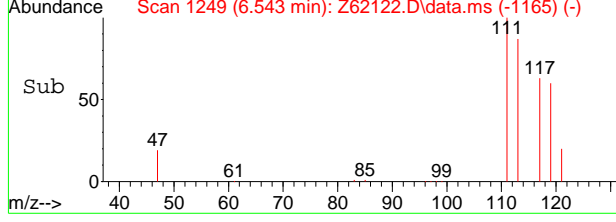
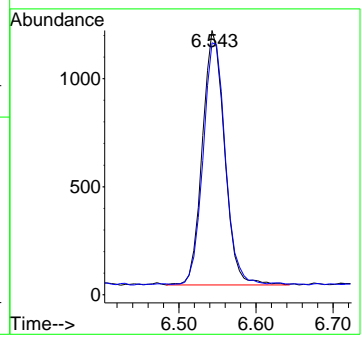
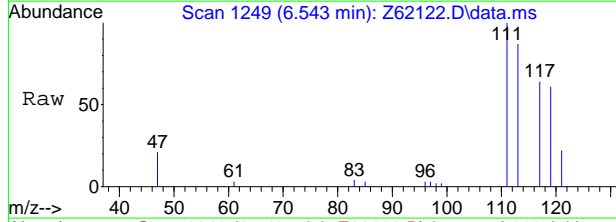


7.1.16  
7



#10  
 Carbon Tetrachloride  
 Concen: 0.15 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62122.D  
 Acq: 5 Sep 2020 4:54 pm

Tgt Ion	Resp	Lower	Upper
117	23534		
117	100		
119	95.4	75.6	115.6



7.1.16  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62123.D  
Acq On : 5 Sep 2020 5:17 pm  
Operator : stutip  
Sample : FA78445-16  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 08 20:23:05 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1547563	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1141858	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	627839	6.26	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	125.20%#
19) Toluene-d8	8.961	98	1388828	4.89	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
Target Compounds						
5) Methylene Chloride	4.713	84	11431	0.09	ppb	95
9) Chloroform	6.377	83	12839	0.05	ppb	98
10) Carbon Tetrachloride	6.543	117	18231	0.12	ppb	100
-----						

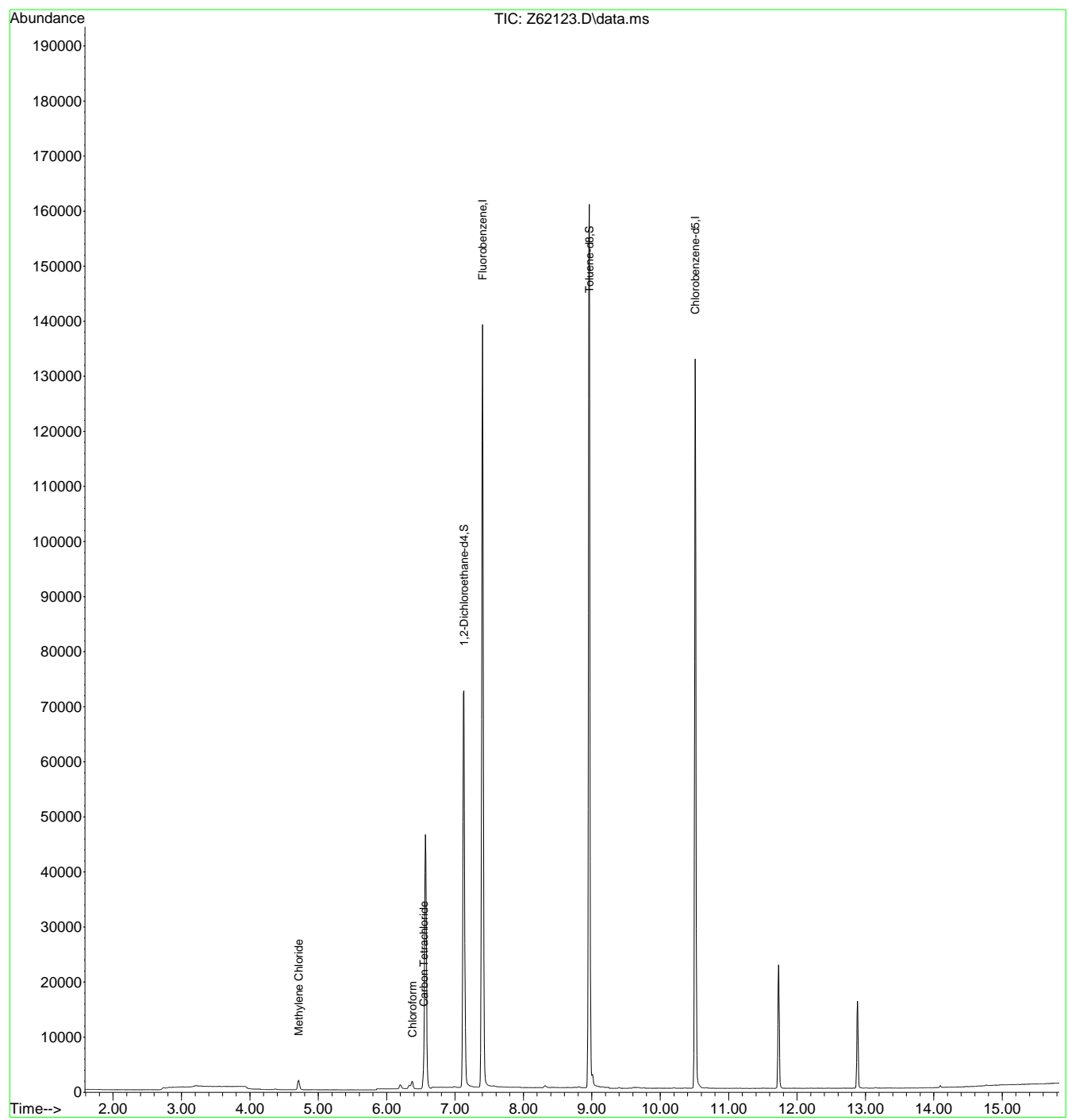
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.17  
7

Quantitation Report (QT Reviewed)

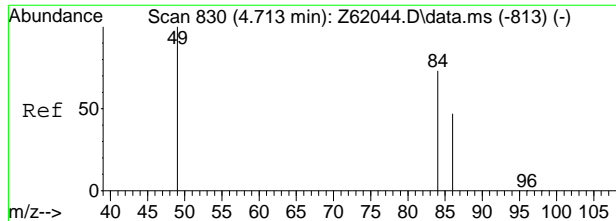
Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62123.D  
Acq On : 5 Sep 2020 5:17 pm  
Operator : stutip  
Sample : FA78445-16  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 08 20:23:05 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.17  
7

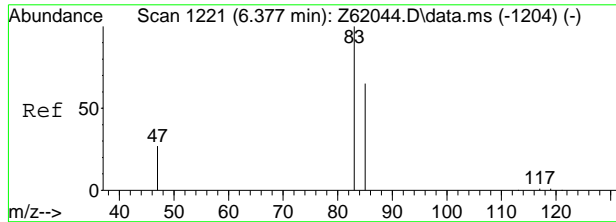
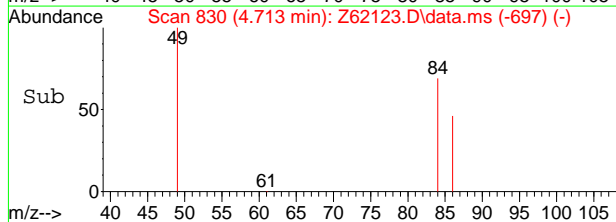
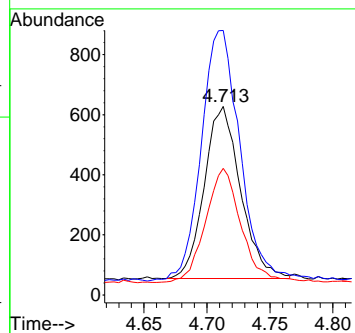
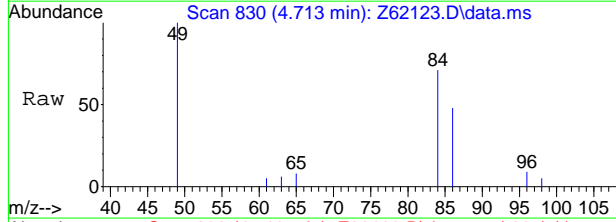




#5  
 Methylene Chloride  
 Concen: 0.09 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62123.D  
 Acq: 5 Sep 2020 5:17 pm

Tgt Ion: 84 Resp: 11431

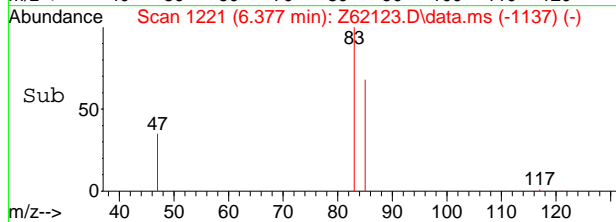
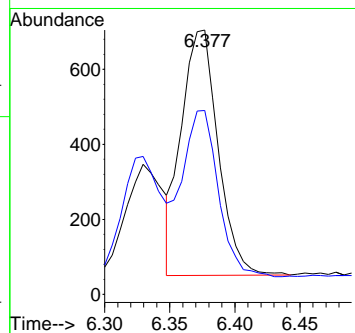
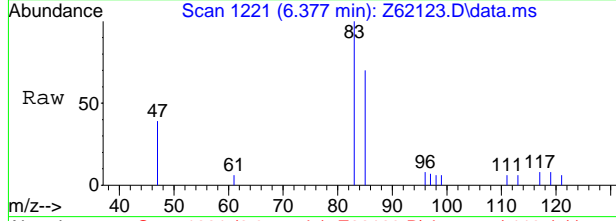
Ion	Ratio	Lower	Upper
84	100		
49	144.3	116.6	156.6
86	65.8	43.9	83.9



#9  
 Chloroform  
 Concen: 0.05 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62123.D  
 Acq: 5 Sep 2020 5:17 pm

Tgt Ion: 83 Resp: 12839

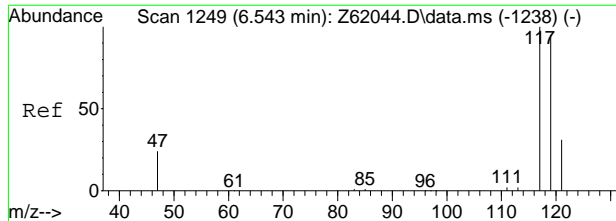
Ion	Ratio	Lower	Upper
83	100		
85	67.9	46.4	86.4



7.1.17

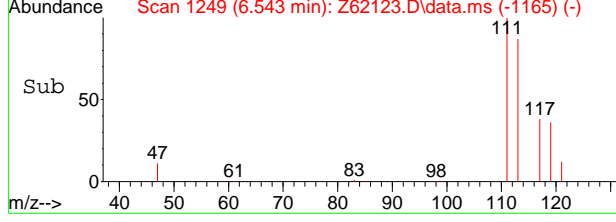
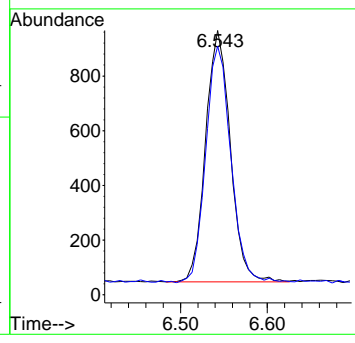
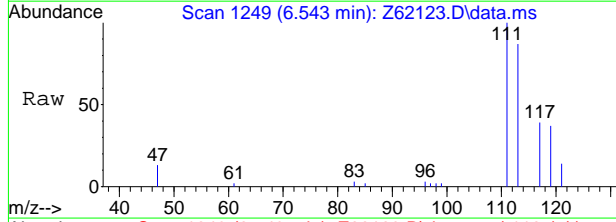






#10  
 Carbon Tetrachloride  
 Concen: 0.12 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62123.D  
 Acq: 5 Sep 2020 5:17 pm

Tgt Ion:	117	Resp:	18231
Ion Ratio	Lower	Upper	
117	100		
119	96.0	75.6	115.6



7.1.17  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62124.D  
Acq On : 5 Sep 2020 5:41 pm  
Operator : stutip  
Sample : FA78445-17  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 08 20:23:07 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1461015	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1085750	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	597705	6.31	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	126.20%#
19) Toluene-d8	8.961	98	1306904	4.84	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
Target Compounds						
5) Methylene Chloride	4.717	84	11125	0.09	ppb	Qvalue # 85
9) Chloroform	6.377	83	20254	0.09	ppb	94
10) Carbon Tetrachloride	6.543	117	81900	0.55	ppb	99
-----						

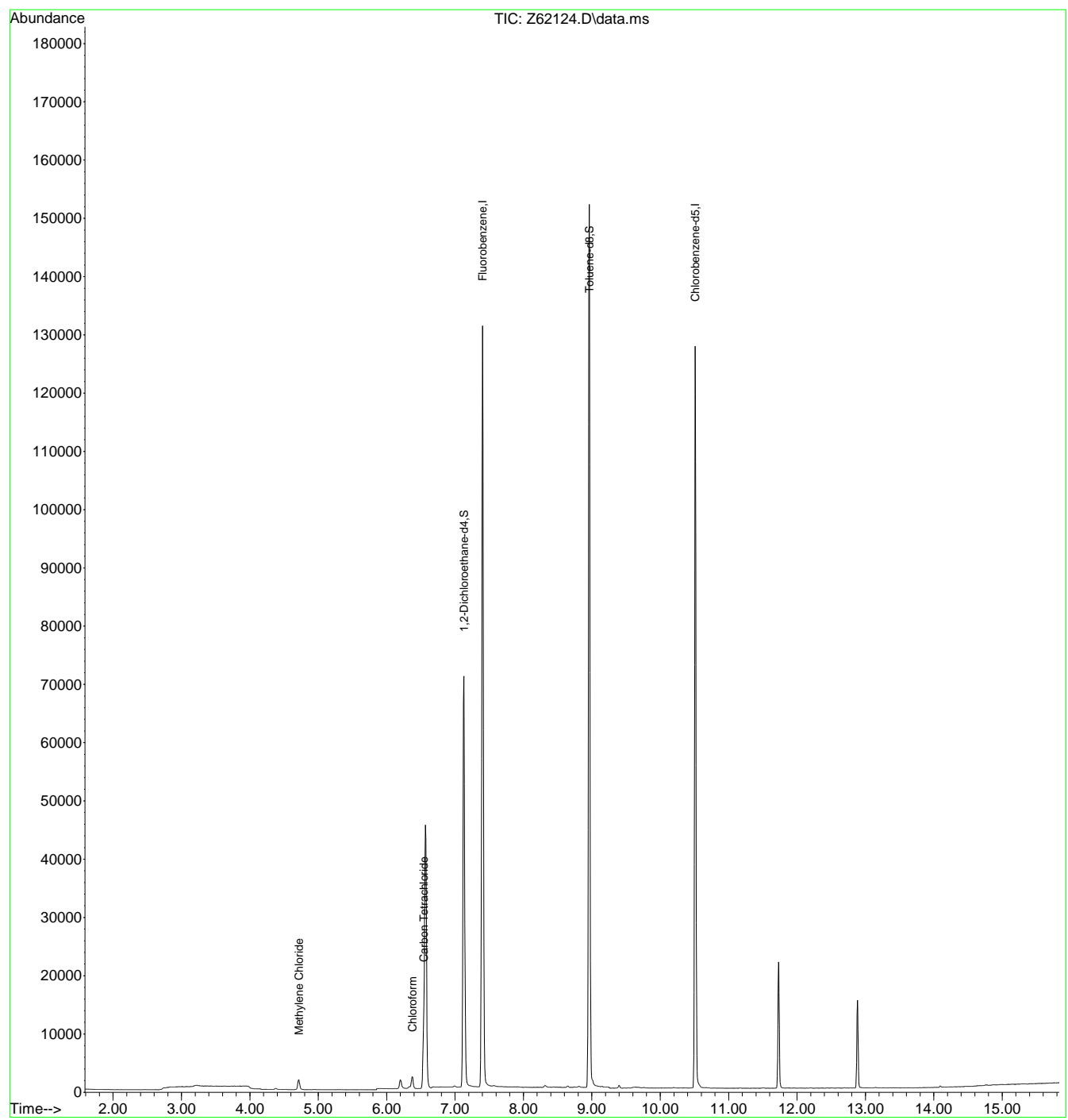
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.18  
7

Quantitation Report (QT Reviewed)

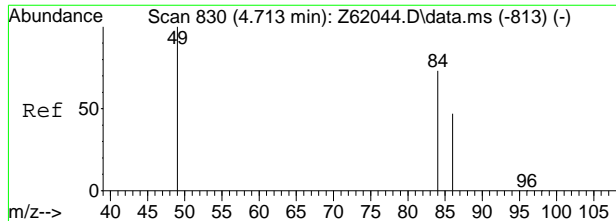
Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62124.D  
Acq On : 5 Sep 2020 5:41 pm  
Operator : stutip  
Sample : FA78445-17  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 08 20:23:07 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.18  
7

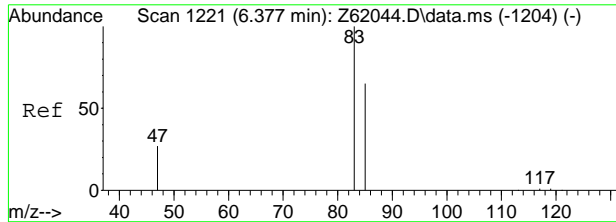
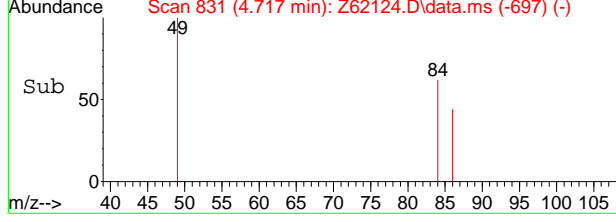
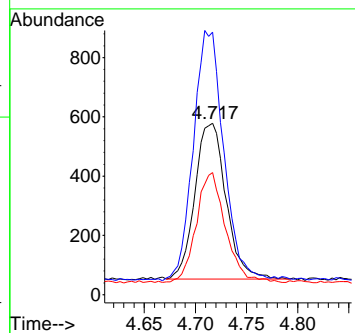
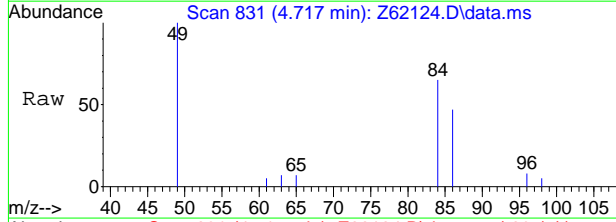




#5  
 Methylene Chloride  
 Concen: 0.09 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62124.D  
 Acq: 5 Sep 2020 5:41 pm

Tgt Ion: 84 Resp: 11125

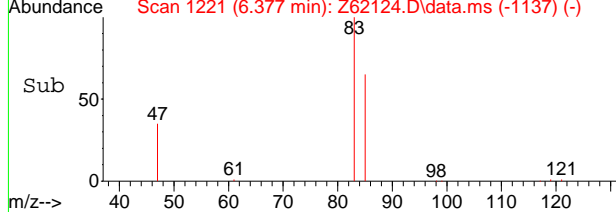
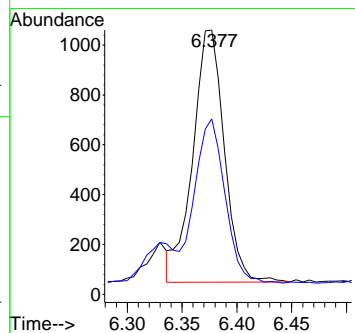
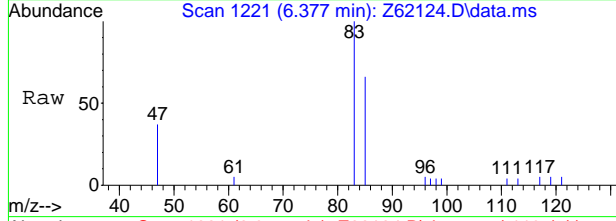
Ion	Ratio	Lower	Upper
84	100		
49	158.2	116.6	156.6#
86	70.2	43.9	83.9



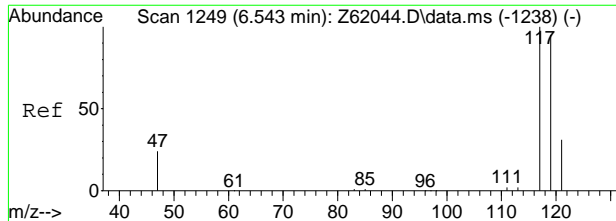
#9  
 Chloroform  
 Concen: 0.09 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. 0.000 min  
 Lab File: Z62124.D  
 Acq: 5 Sep 2020 5:41 pm

Tgt Ion: 83 Resp: 20254

Ion	Ratio	Lower	Upper
83	100		
85	61.9	46.4	86.4

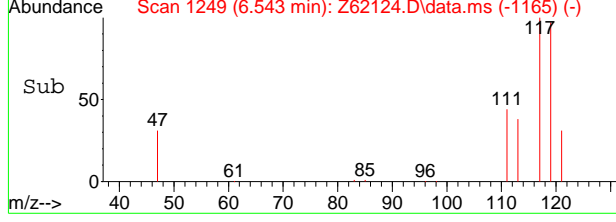
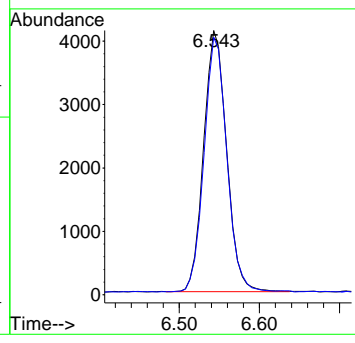
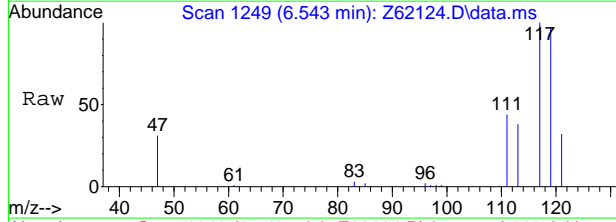


7.1.18  
7



#10  
Carbon Tetrachloride  
Concen: 0.55 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62124.D  
Acq: 5 Sep 2020 5:41 pm

Tgt Ion	Resp	Lower	Upper
117	81900		
117	100		
119	96.6	75.6	115.6



7.1.18  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61096.d  
 Acq On : 4 Sep 2020 3:54 am  
 Operator : stutip  
 Sample : fa78445-17  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 08 02:36:52 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

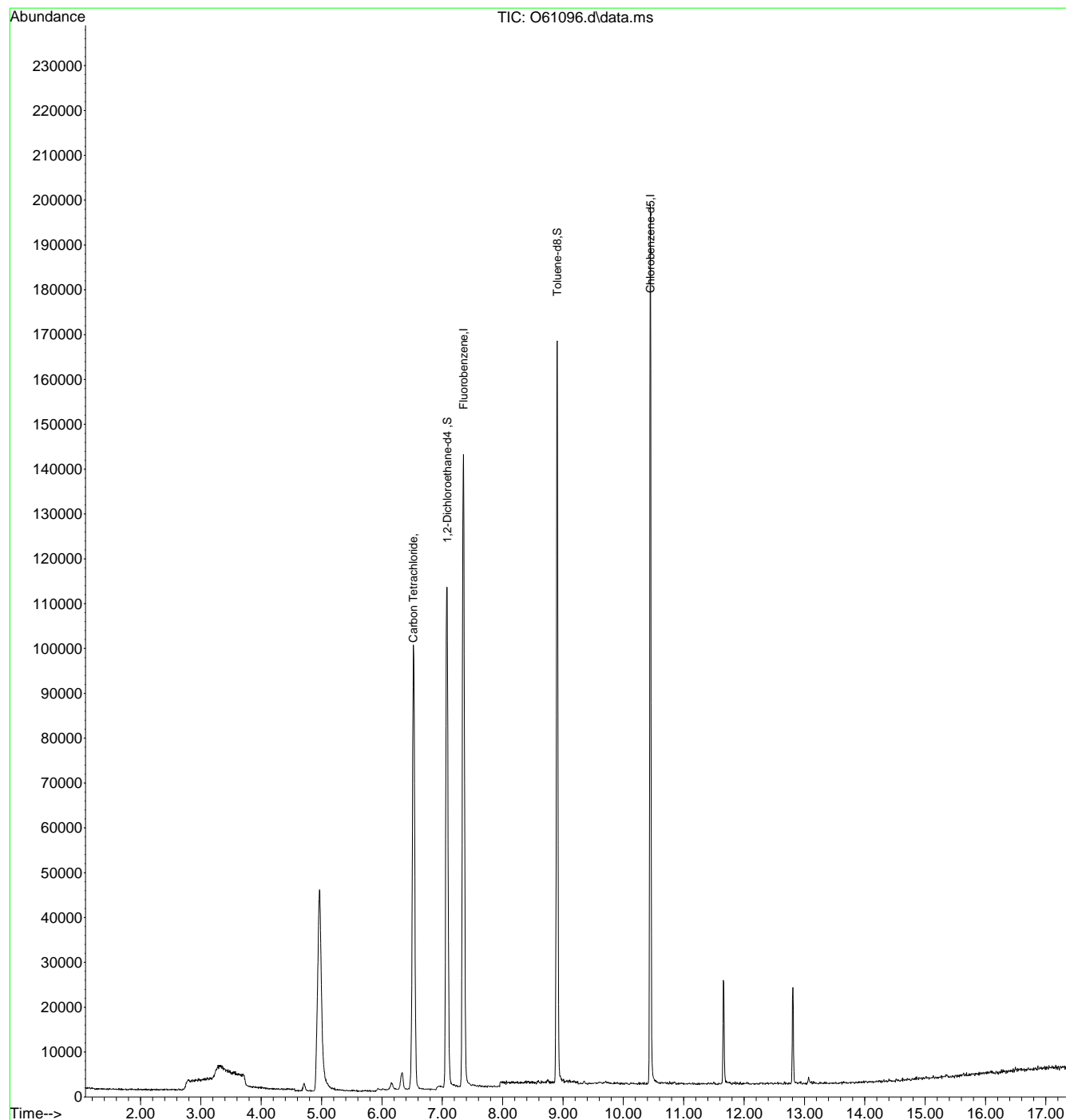
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.352	96	233993	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	165487	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.079	65	121830	6.60	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	132.00%#	
19) Toluene-d8	8.903	98	175583	4.83	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	96.60%	
Target Compounds						
10) Carbon Tetrachloride	6.516	117	19378	0.81	ug/L	Qvalue 94
-----						

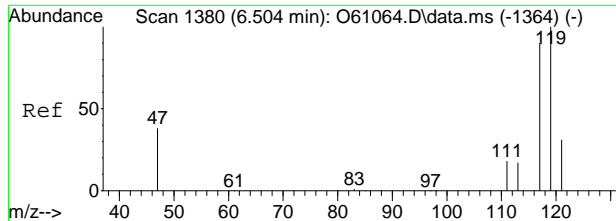
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61096.d  
Acq On : 4 Sep 2020 3:54 am  
Operator : stutip  
Sample : fa78445-17  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 22 Sample Multiplier: 1

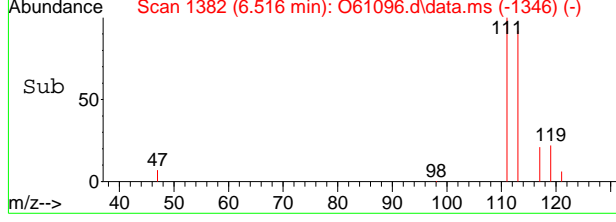
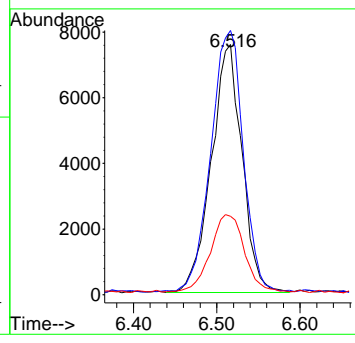
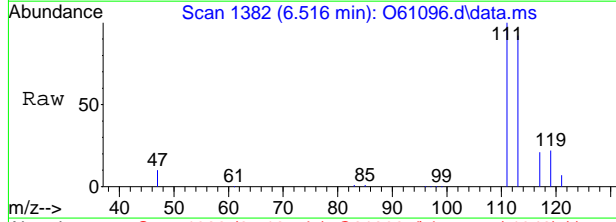
Quant Time: Sep 08 02:36:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration





#10  
 Carbon Tetrachloride  
 Concen: 0.81 ug/L  
 RT: 6.516 min Scan# 1382  
 Delta R.T. 0.012 min  
 Lab File: O61096.d  
 Acq: 4 Sep 2020 3:54 am

Tgt Ion	Ratio	Lower	Upper
117	100		
119	104.9	80.9	140.9
121	30.4	4.1	64.1



7.1.19  
7



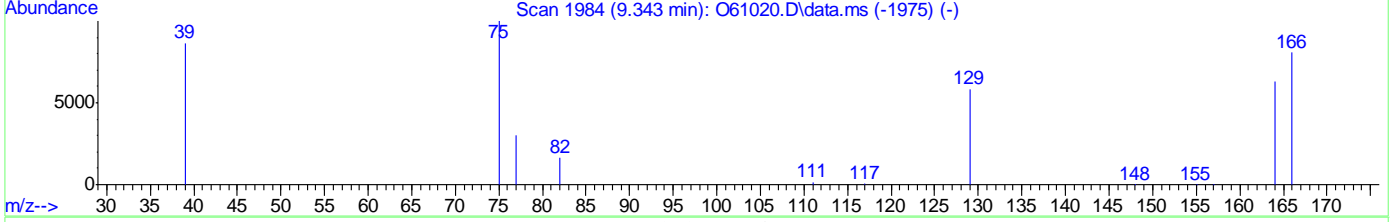
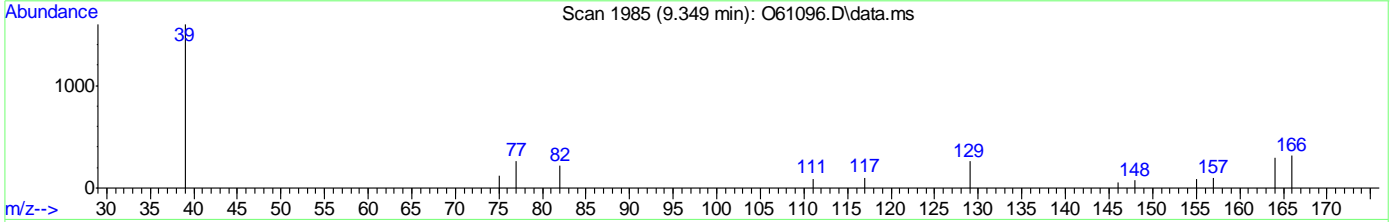
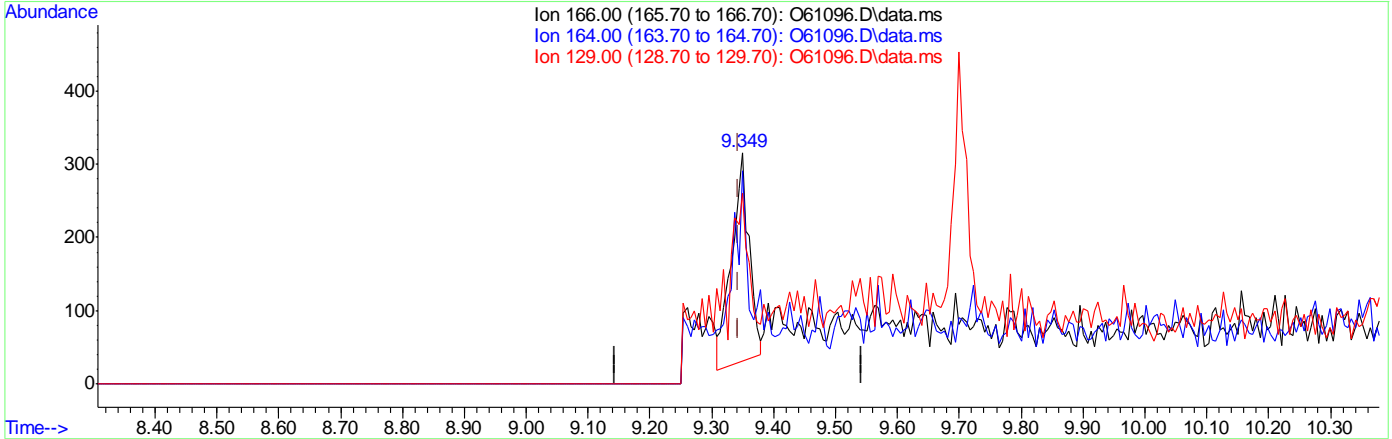


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61096.D  
 Acq On : 4 Sep 2020 3:54 am  
 Operator : manager  
 Sample : fa78445-17  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 06:53:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 06:51:45 2020  
 Response via : Initial Calibration



TIC: O61096.D\data.ms

(21) Tetrachloroethene ( )

9.349min (+0.006) 0.03ug/L

response 561

Ion	Exp%	Act%
166.00	100	100
164.00	76.80	84.44
129.00	67.20	69.26
0.00	0.00	0.00

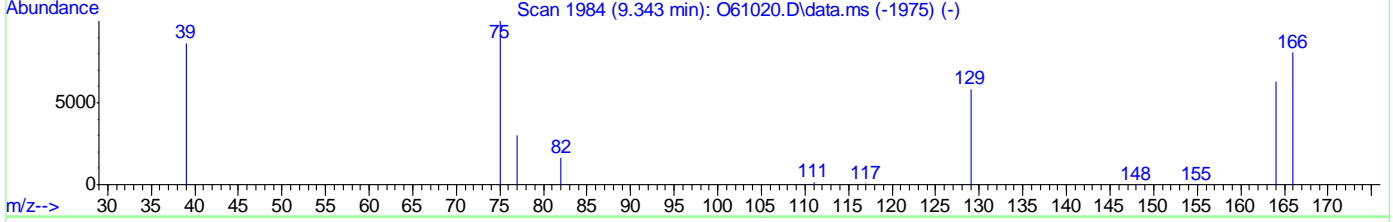
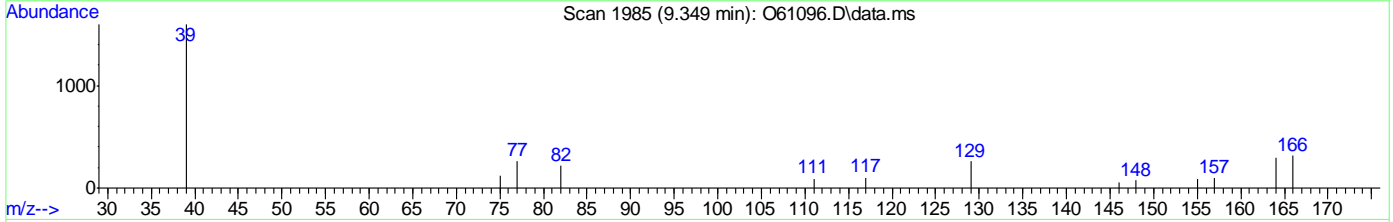
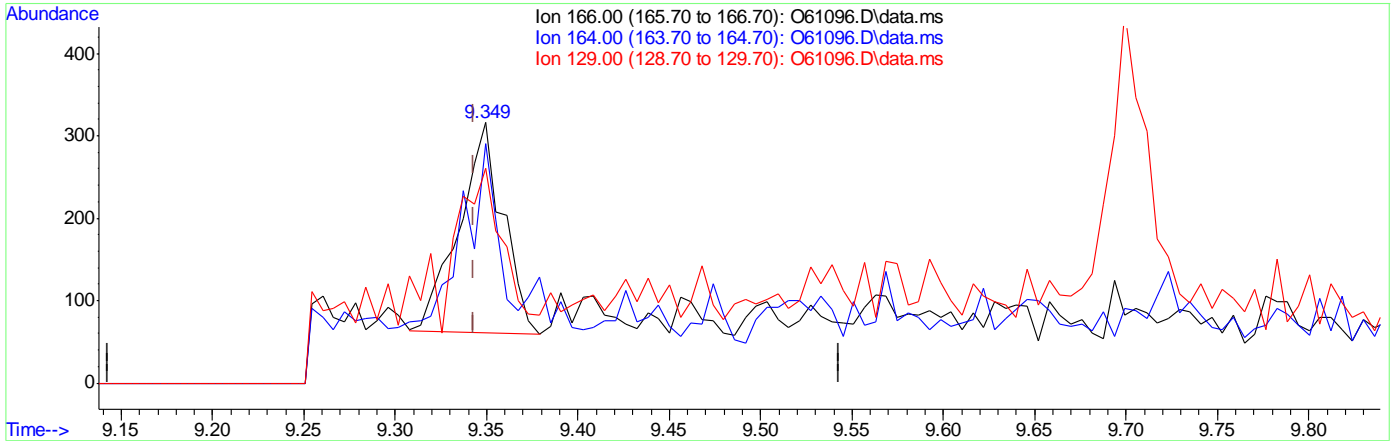
7.1.19.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61096.D  
 Acq On : 4 Sep 2020 3:54 am  
 Operator : manager  
 Sample : fa78445-17  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 06:53:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 06:51:45 2020  
 Response via : Initial Calibration



TIC: O61096.D\data.ms

(21) Tetrachloroethene ( )  
 9.349min (+0.006) 0.02ug/L m  
 response 426

Ion	Exp%	Act%
166.00	100	100
164.00	76.80	92.09
129.00	67.20	82.28
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62125.D  
Acq On : 5 Sep 2020 6:05 pm  
Operator : stutip  
Sample : FA78445-18  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 08 20:23:09 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1488958	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1102700	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	609108	6.31	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	126.20%#
19) Toluene-d8	8.961	98	1322482	4.82	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
Target Compounds						
5) Methylene Chloride	4.709	84	10740	0.08	ppb	Qvalue 89
-----						

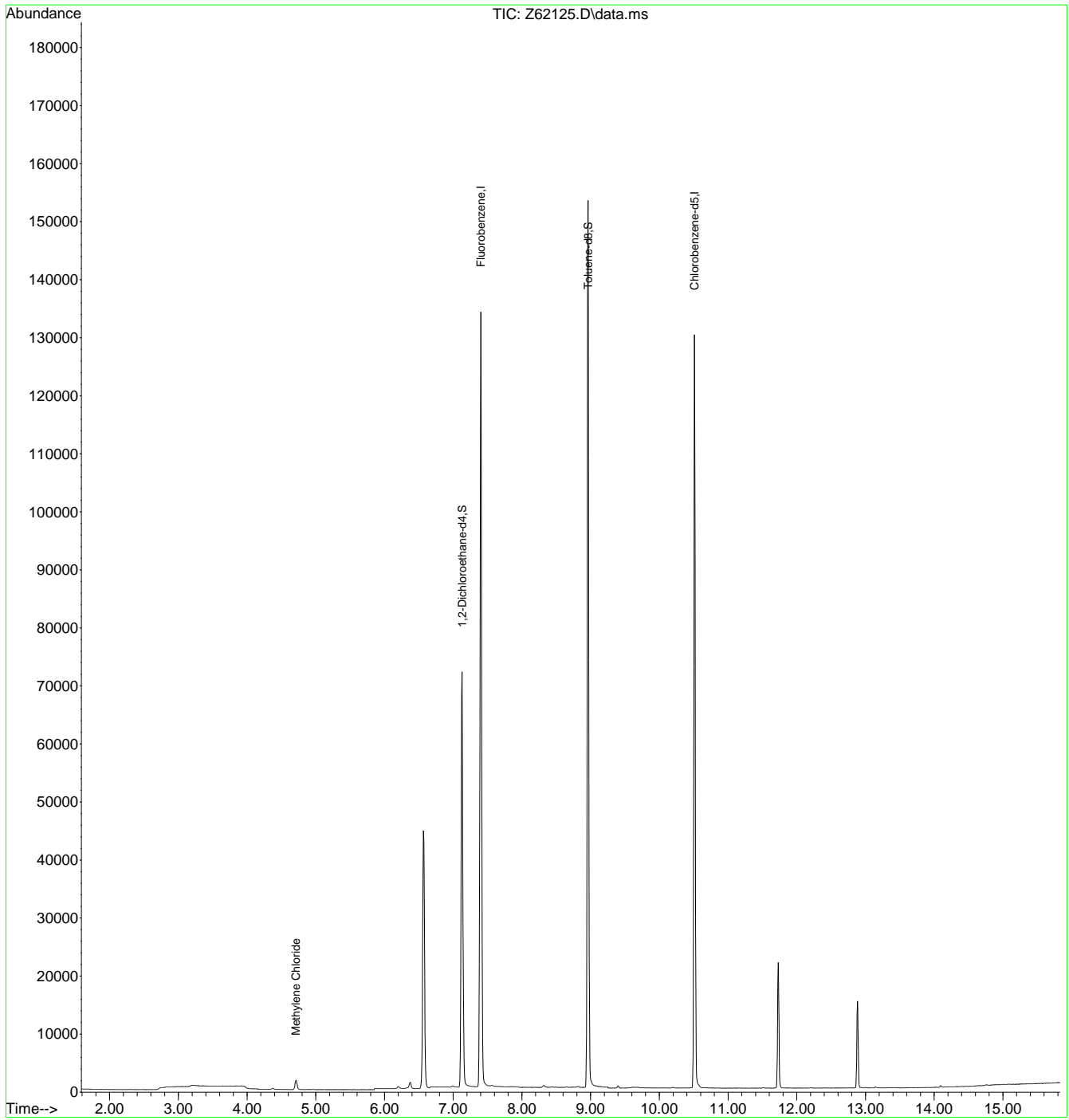
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.20  
7

Quantitation Report (QT Reviewed)

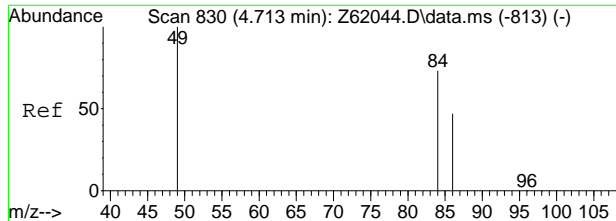
Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62125.D  
Acq On : 5 Sep 2020 6:05 pm  
Operator : stutip  
Sample : FA78445-18  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 08 20:23:09 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



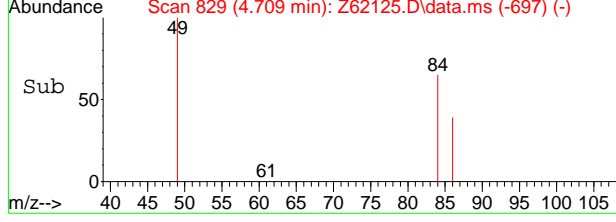
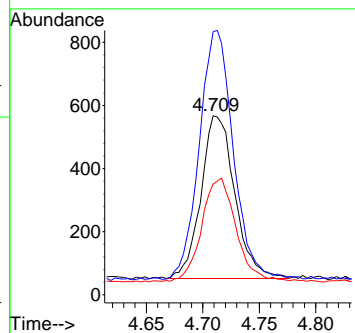
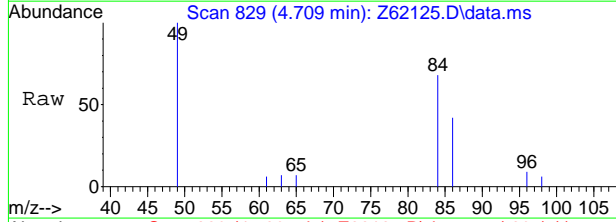
7.1.20  
7





#5  
 Methylene Chloride  
 Concen: 0.08 ppb  
 RT: 4.709 min Scan# 829  
 Delta R.T. -0.004 min  
 Lab File: Z62125.D  
 Acq: 5 Sep 2020 6:05 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	151.9	116.6	156.6
86	59.3	43.9	83.9



7.1.20  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62126.D  
Acq On : 5 Sep 2020 6:28 pm  
Operator : stutip  
Sample : FA78445-19  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 08 20:23:11 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1494642	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1123773	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	615618	6.36	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	127.20%#
19) Toluene-d8	8.961	98	1328451	4.75	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
Target Compounds						
3) Chloromethane	2.733	50	9450	0.07	ppb	81
5) Methylene Chloride	4.713	84	11019	0.09	ppb	91
-----						

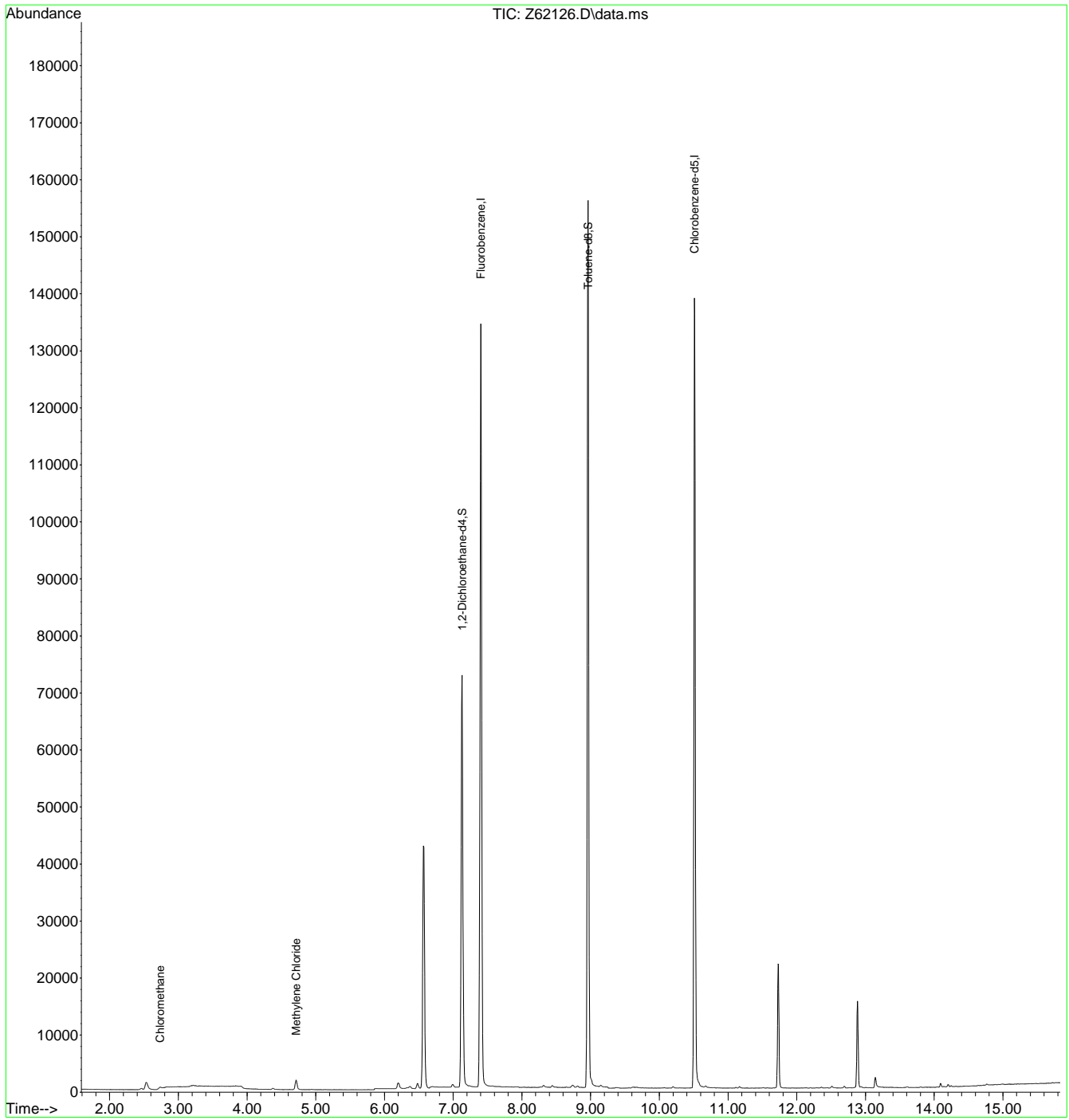
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.21  
7

Quantitation Report (QT Reviewed)

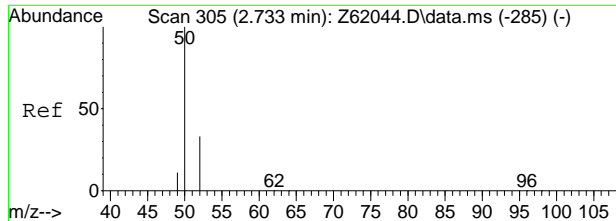
Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62126.D  
Acq On : 5 Sep 2020 6:28 pm  
Operator : stutip  
Sample : FA78445-19  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 08 20:23:11 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



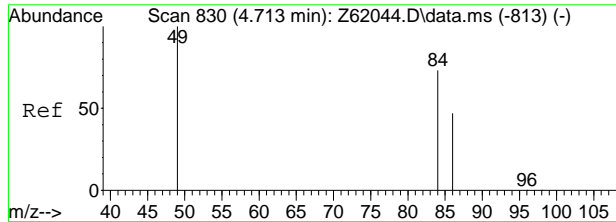
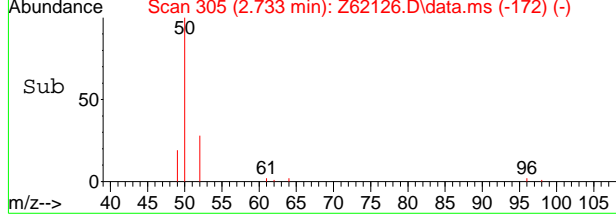
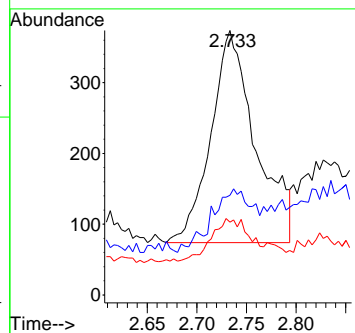
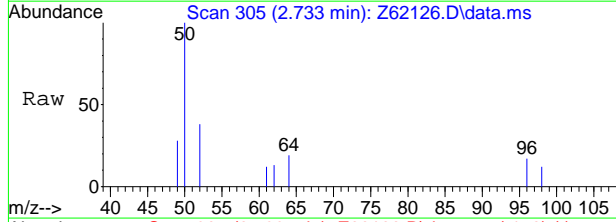
7.1.21  
7





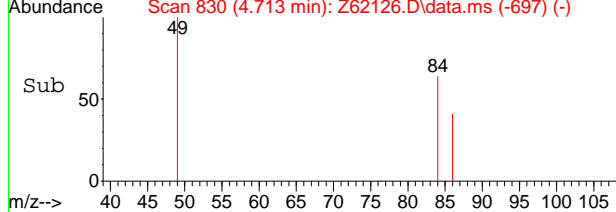
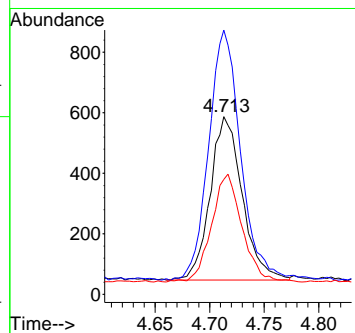
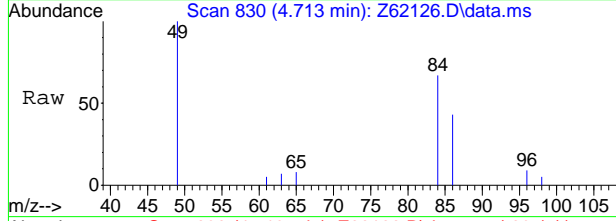
#3  
 Chloromethane  
 Concen: 0.07 ppb  
 RT: 2.733 min Scan# 305  
 Delta R.T. 0.000 min  
 Lab File: Z62126.D  
 Acq: 5 Sep 2020 6:28 pm

Tgt Ion	Resp	Lower	Upper
50	9450		
52	21.7	12.6	52.6
49	17.7	0.0	30.7



#5  
 Methylene Chloride  
 Concen: 0.09 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62126.D  
 Acq: 5 Sep 2020 6:28 pm

Tgt Ion	Resp	Lower	Upper
84	11019		
84	100		
49	152.5	116.6	156.6
86	62.9	43.9	83.9



7.1.21  
7





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62127.D  
Acq On : 5 Sep 2020 6:52 pm  
Operator : stutip  
Sample : FA78445-20  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 08 20:23:13 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1618038	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1197347	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	665998	6.35	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	127.00%#
19) Toluene-d8	8.961	98	1467412	4.93	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
Target Compounds						
5) Methylene Chloride	4.717	84	12988	0.09	ppb	Qvalue 96
-----						

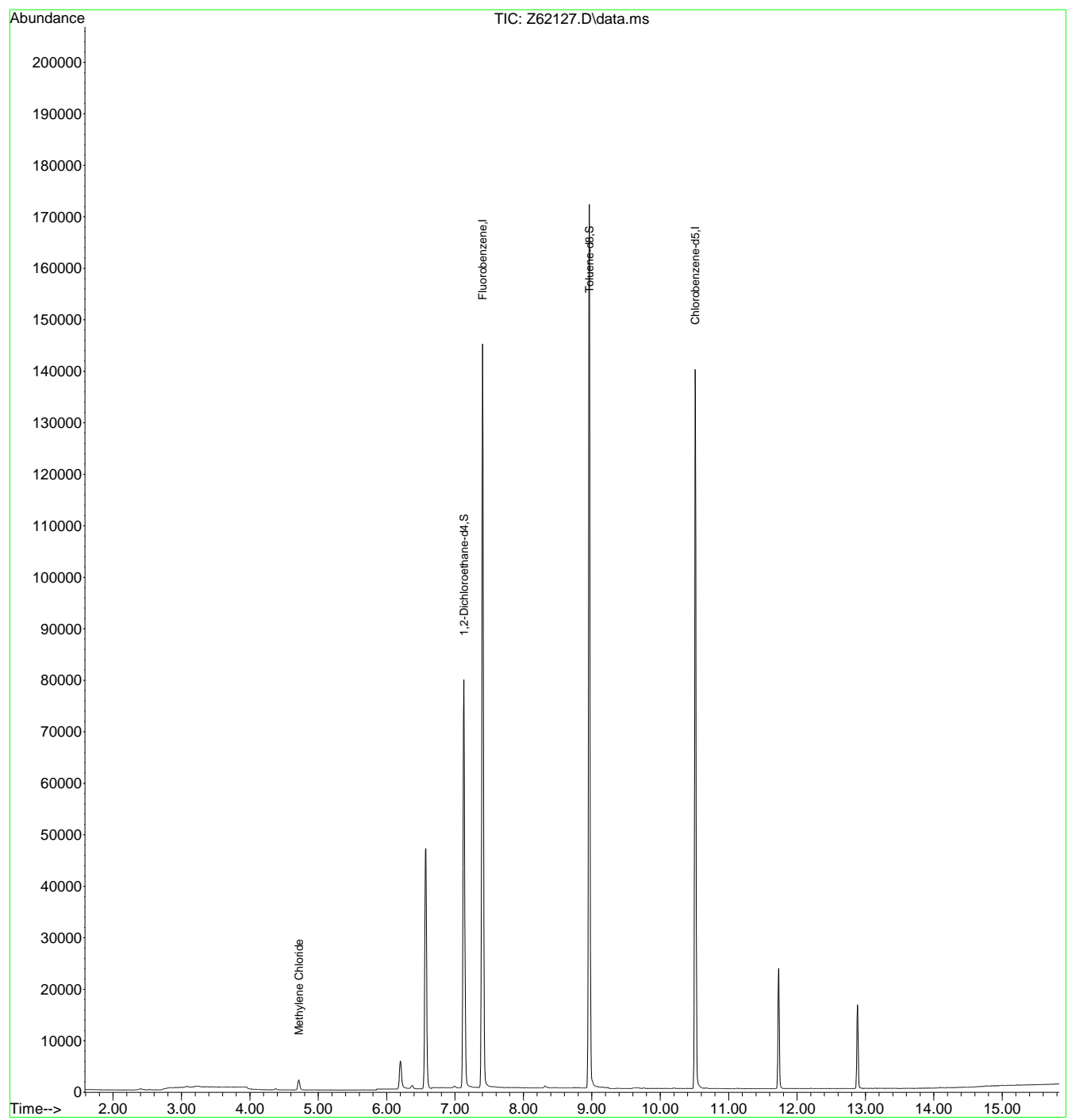
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.22  
7

Quantitation Report (QT Reviewed)

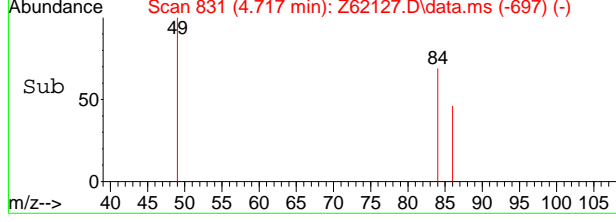
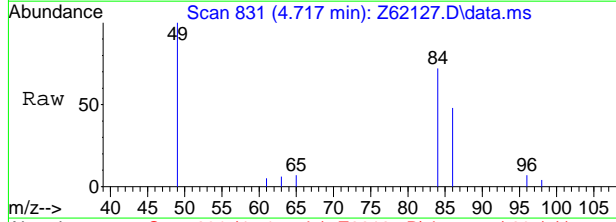
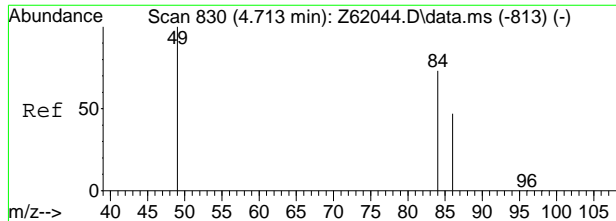
Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62127.D  
Acq On : 5 Sep 2020 6:52 pm  
Operator : stutip  
Sample : FA78445-20  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 08 20:23:13 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



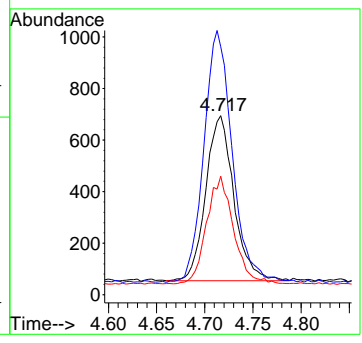
7.1.22  
7





#5  
 Methylene Chloride  
 Concen: 0.09 ppb  
 RT: 4.717 min Scan# 831  
 Delta R.T. 0.004 min  
 Lab File: Z62127.D  
 Acq: 5 Sep 2020 6:52 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	142.6	116.6	156.6
86	65.1	43.9	83.9



7.1.22  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
 Data File : Z62112.d  
 Acq On : 5 Sep 2020 12:58 pm  
 Operator : stutip  
 Sample : FA78445-21  
 Misc : MS47137,VZ2410,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 20:22:42 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1759736	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1292095	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	660993	5.80	ppb	0.00
Spiked Amount	5.000	Range 79 - 125	Recovery	=	116.00%	
19) Toluene-d8	8.961	98	1621666	5.04	ppb	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	100.80%	
Target Compounds						
5) Methylene Chloride	4.713	84	18436	0.12	ppb	Qvalue 92
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

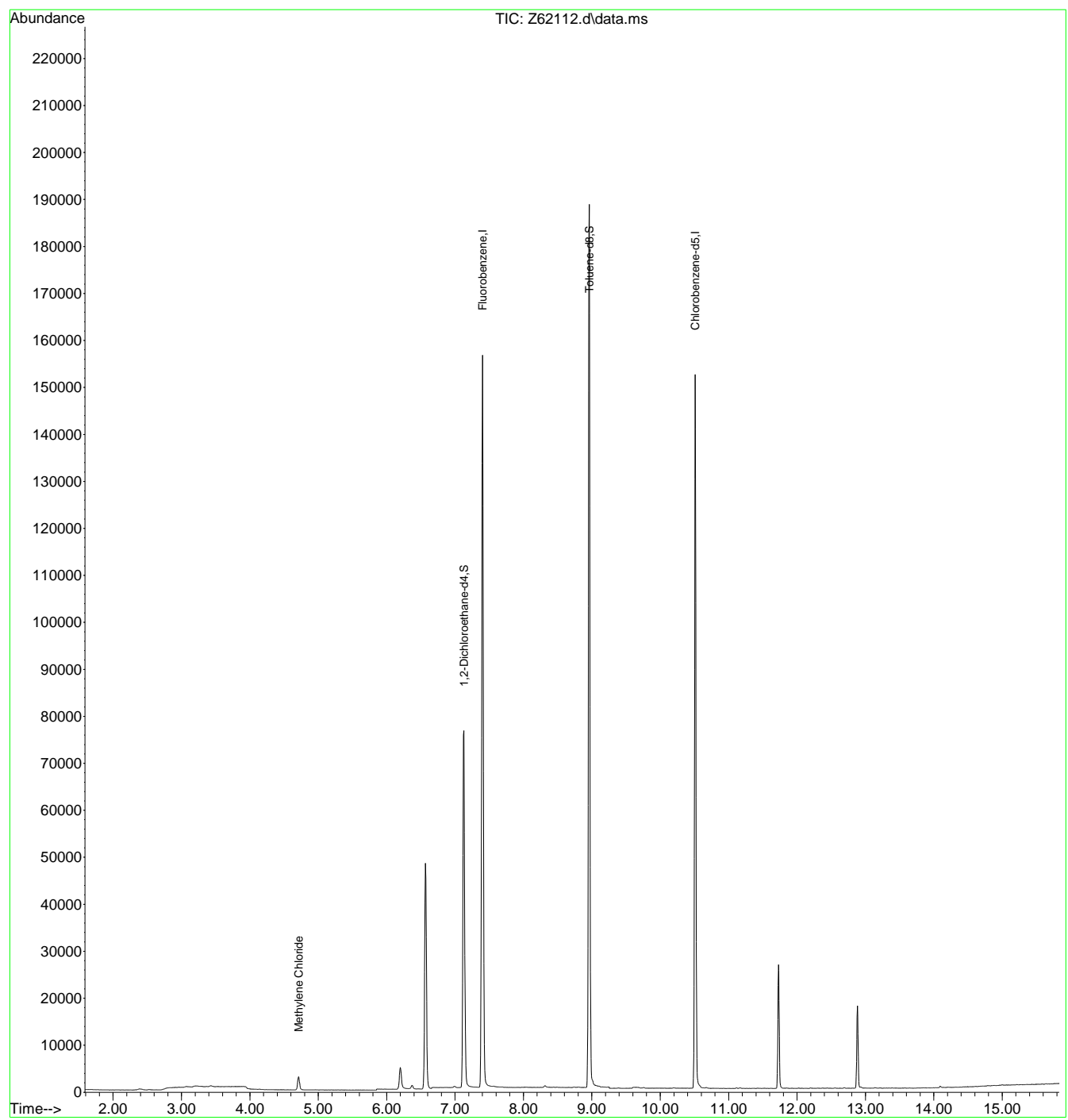
7.1.23  
7



Quantitation Report (QT Reviewed)

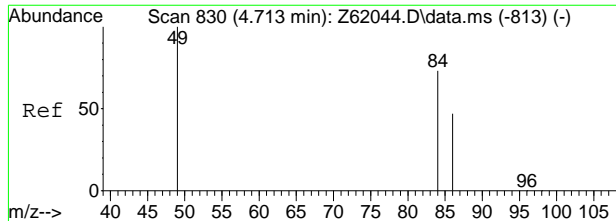
Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62112.d  
Acq On : 5 Sep 2020 12:58 pm  
Operator : stutip  
Sample : FA78445-21  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 20:22:42 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



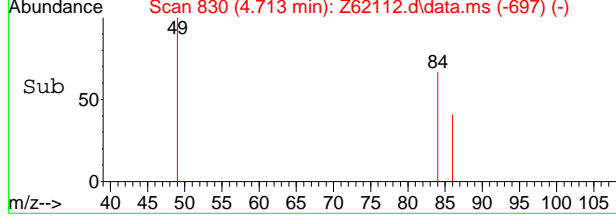
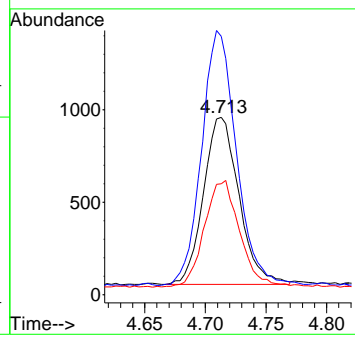
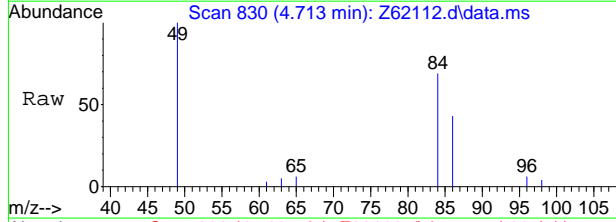
7.1.23  
7





#5  
 Methylene Chloride  
 Concen: 0.12 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62112.d  
 Acq: 5 Sep 2020 12:58 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	148.1	116.6	156.6
86	61.3	43.9	83.9



7.1.23  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62113.d  
Acq On : 5 Sep 2020 1:22 pm  
Operator : stutip  
Sample : FA78445-22  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 20:26:42 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1747776	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1291830	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	674161	5.95	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	119.00%	
19) Toluene-d8	8.961	98	1609650	5.01	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%	
Target Compounds							
3) Chloromethane	2.737	50	10994	0.07	ppb	75	Qvalue
5) Methylene Chloride	4.713	84	19588	0.13	ppb	91	
8) cis-1,2-Dichloroethene	6.110	96	23077	0.15	ppb	95	
14) 1,2-Dichloroethane	7.198	62	17794	0.10	ppb	98	
15) Trichloroethene	7.564	95	75700	0.47	ppb	96	
-----							

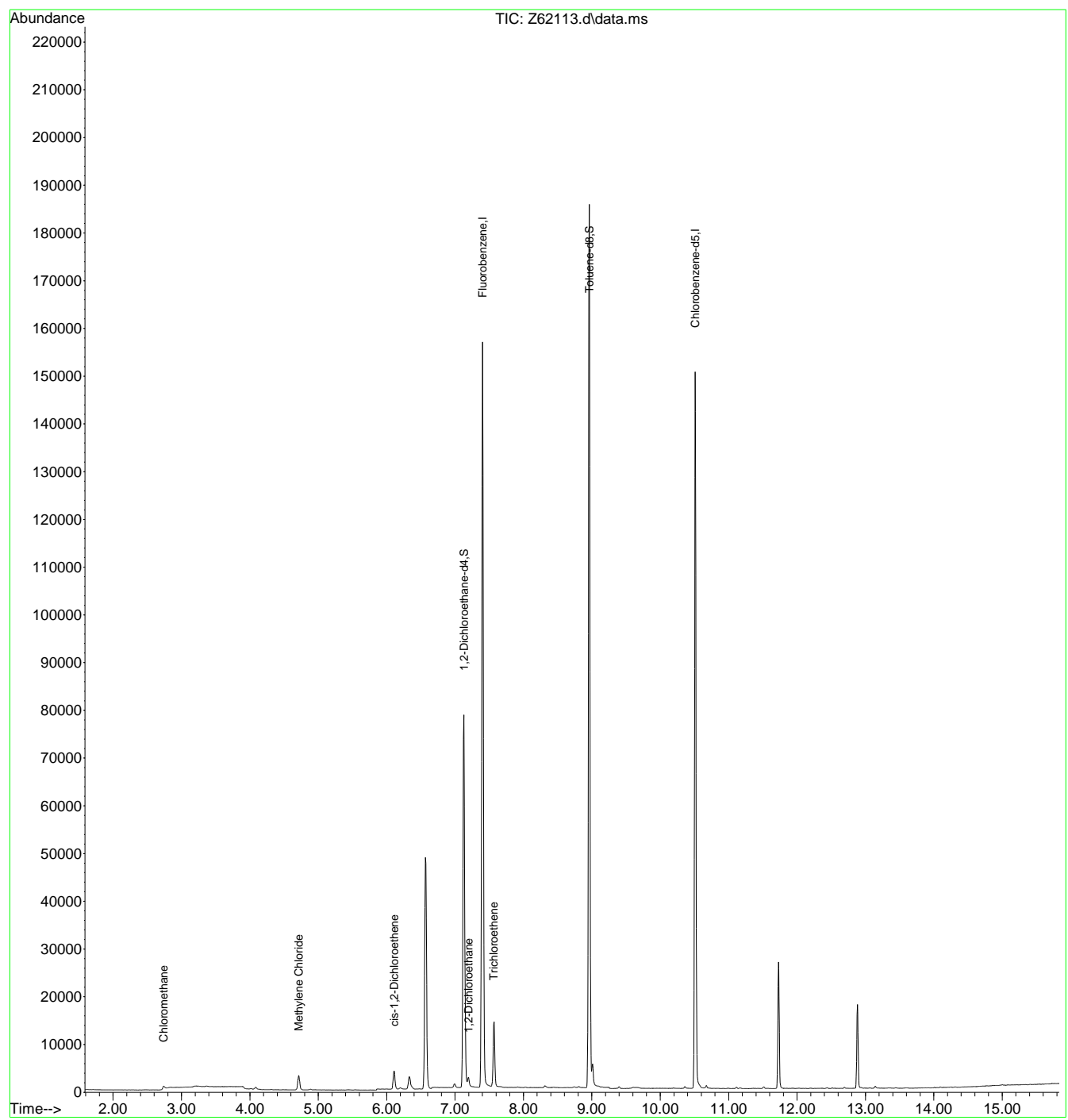
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.24  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62113.d  
Acq On : 5 Sep 2020 1:22 pm  
Operator : stutip  
Sample : FA78445-22  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 6 Sample Multiplier: 1

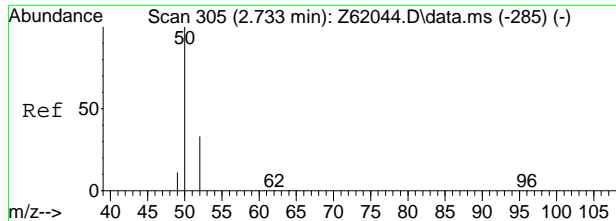
Quant Time: Sep 08 20:26:42 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.24  
7

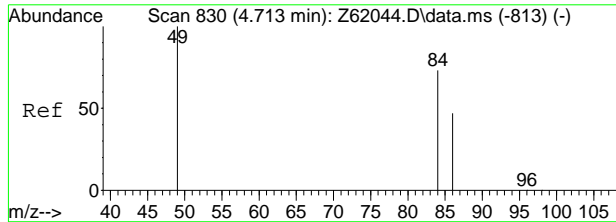
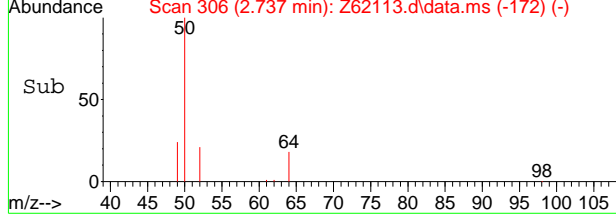
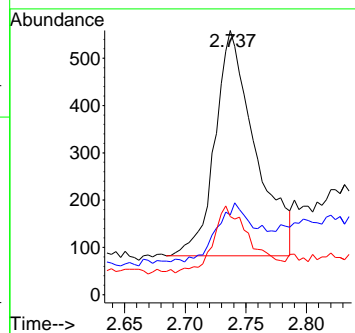
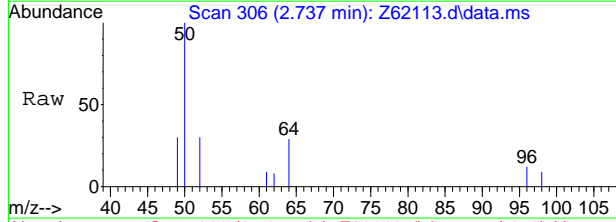






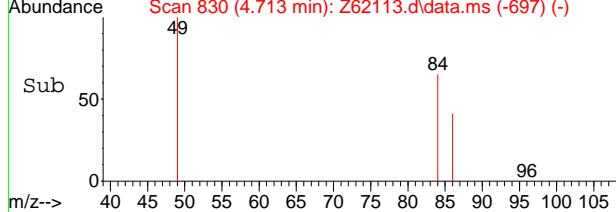
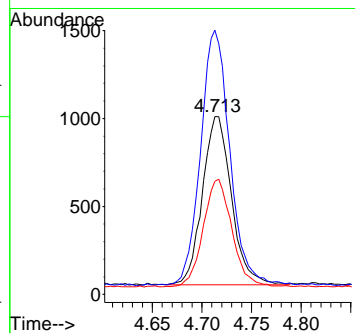
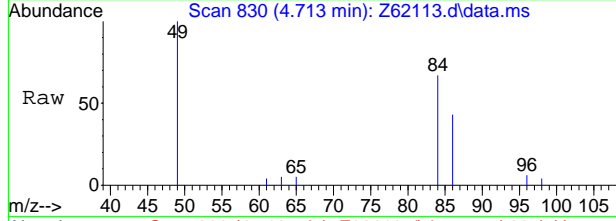
#3  
 Chloromethane  
 Concen: 0.07 ppb  
 RT: 2.737 min Scan# 306  
 Delta R.T. 0.004 min  
 Lab File: Z62113.d  
 Acq: 5 Sep 2020 1:22 pm

Tgt Ion	Resp	Lower	Upper
50	10994		
52	20.5	12.6	52.6
49	24.3	0.0	30.7



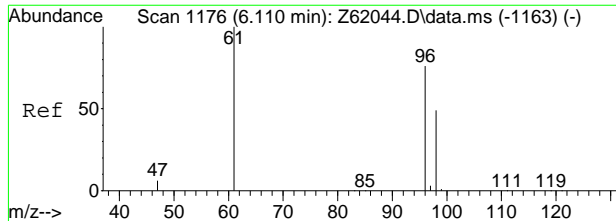
#5  
 Methylene Chloride  
 Concen: 0.13 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62113.d  
 Acq: 5 Sep 2020 1:22 pm

Tgt Ion	Resp	Lower	Upper
84	19588		
49	151.4	116.6	156.6
86	62.5	43.9	83.9



7.1.24  
7

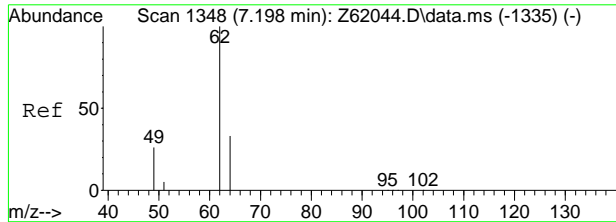
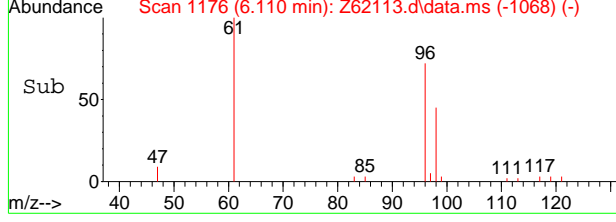
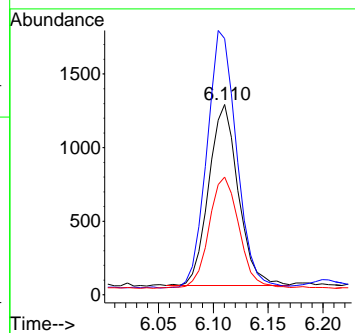
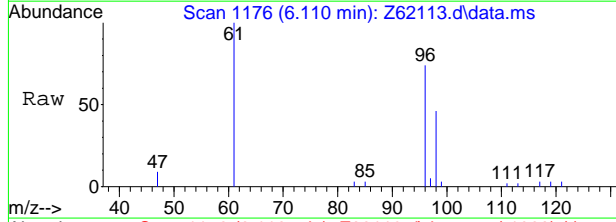




#8  
 cis-1,2-Dichloroethene  
 Concen: 0.15 ppb  
 RT: 6.110 min Scan# 1176  
 Delta R.T. 0.000 min  
 Lab File: Z62113.d  
 Acq: 5 Sep 2020 1:22 pm

Tgt Ion: 96 Resp: 23077

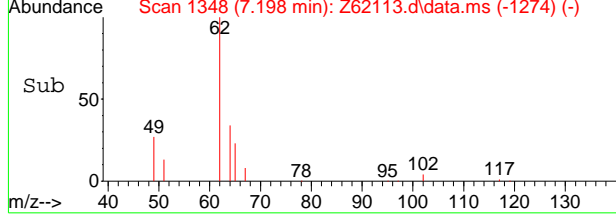
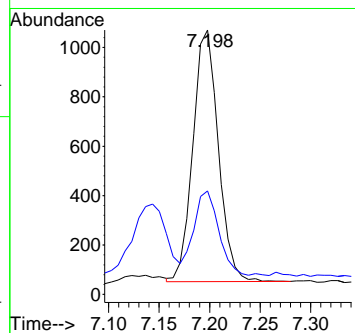
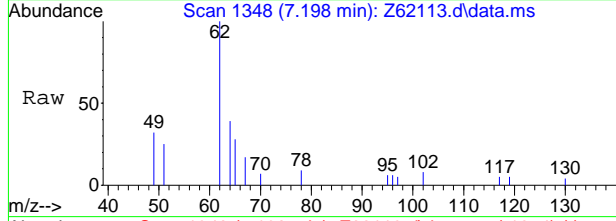
Ion	Ratio	Lower	Upper
96	100		
61	137.4	111.3	151.3
98	61.3	44.6	84.6



#14  
 1,2-Dichloroethane  
 Concen: 0.10 ppb  
 RT: 7.198 min Scan# 1348  
 Delta R.T. -0.000 min  
 Lab File: Z62113.d  
 Acq: 5 Sep 2020 1:22 pm

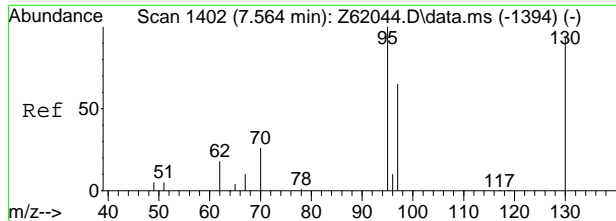
Tgt Ion: 62 Resp: 17794

Ion	Ratio	Lower	Upper
62	100		
64	33.6	12.3	52.3



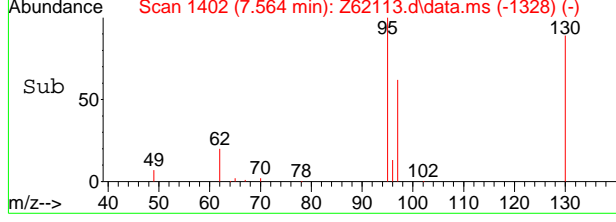
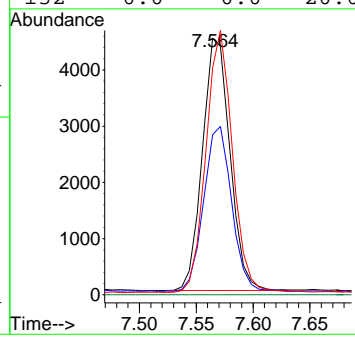
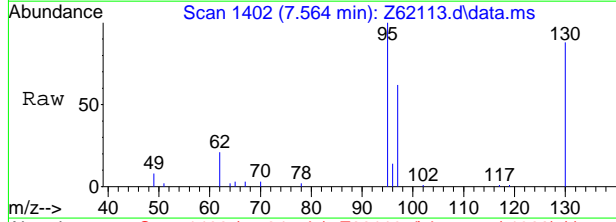
7.1.24  
7





#15  
 Trichloroethene  
 Concen: 0.47 ppb  
 RT: 7.564 min Scan# 1402  
 Delta R.T. 0.000 min  
 Lab File: Z62113.d  
 Acq: 5 Sep 2020 1:22 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
97	61.9	45.0	85.0
130	89.0	72.6	112.6
132	0.0	0.0	20.0



7.1.24  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62114.d  
Acq On : 5 Sep 2020 1:46 pm  
Operator : stutip  
Sample : FA78445-23  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 08 20:22:46 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1658158	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1216545	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	641426	5.97	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	119.40%	
19) Toluene-d8	8.961	98	1510251	4.99	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%	
Target Compounds							
5) Methylene Chloride	4.709	84	15395	0.11	ppb		89
9) Chloroform	6.371	83	18638	0.07	ppb		98
10) Carbon Tetrachloride	6.543	117	10610	0.06	ppb		99
15) Trichloroethene	7.564	95	18690	0.12	ppb		95
-----							

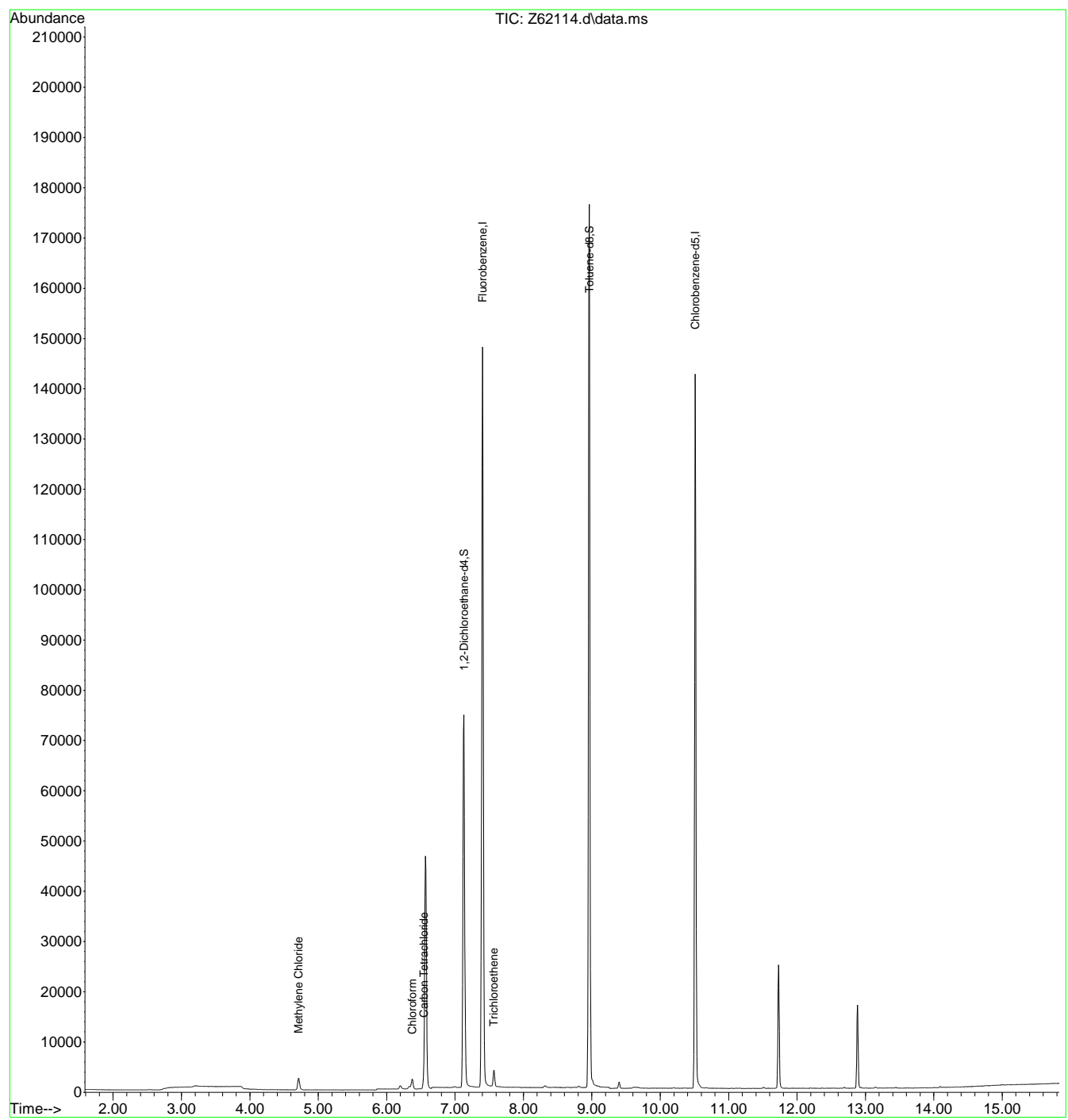
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.25  
7

Quantitation Report (QT Reviewed)

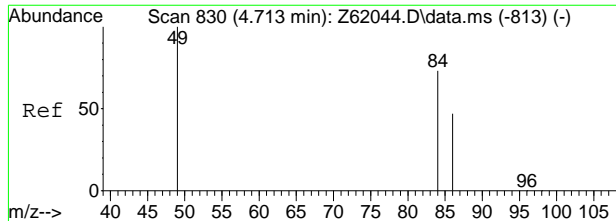
Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62114.d  
Acq On : 5 Sep 2020 1:46 pm  
Operator : stutip  
Sample : FA78445-23  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 08 20:22:46 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.25  
7

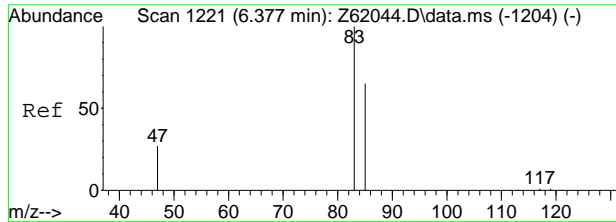
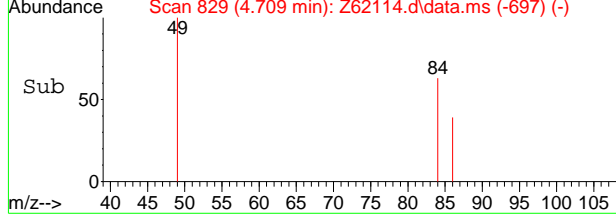
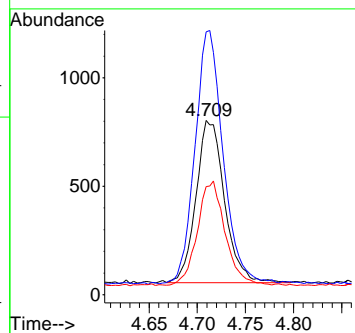
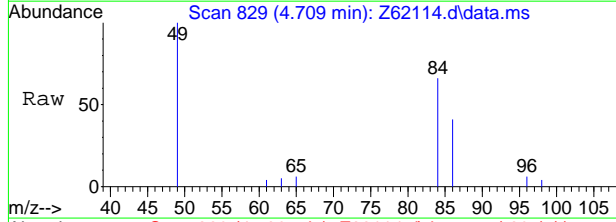




#5  
 Methylene Chloride  
 Concen: 0.11 ppb  
 RT: 4.709 min Scan# 829  
 Delta R.T. -0.004 min  
 Lab File: Z62114.d  
 Acq: 5 Sep 2020 1:46 pm

Tgt Ion: 84 Resp: 15395

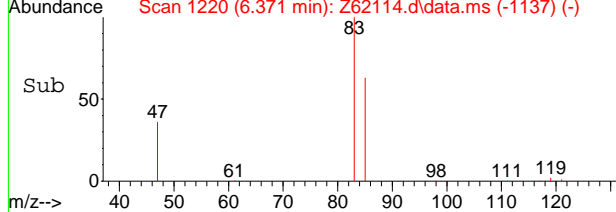
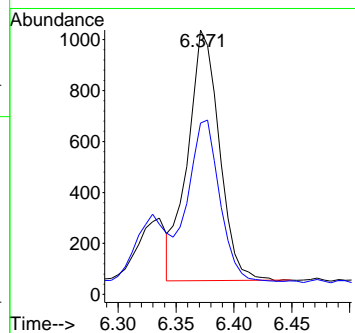
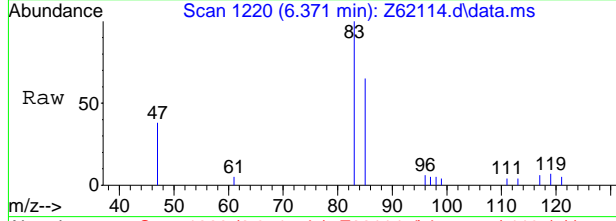
Ion	Ratio	Lower	Upper
84	100		
49	154.3	116.6	156.6
86	60.7	43.9	83.9



#9  
 Chloroform  
 Concen: 0.07 ppb  
 RT: 6.371 min Scan# 1220  
 Delta R.T. -0.006 min  
 Lab File: Z62114.d  
 Acq: 5 Sep 2020 1:46 pm

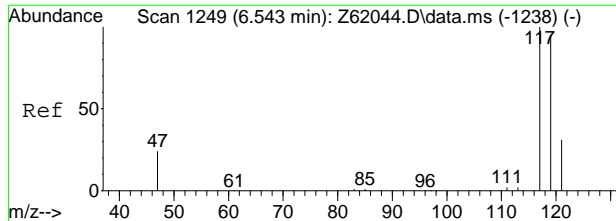
Tgt Ion: 83 Resp: 18638

Ion	Ratio	Lower	Upper
83	100		
85	64.7	46.4	86.4



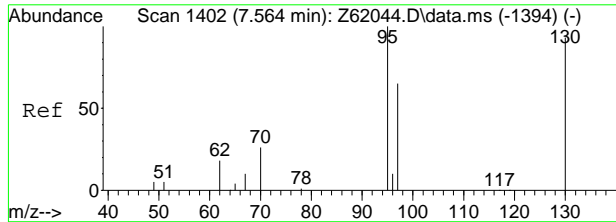
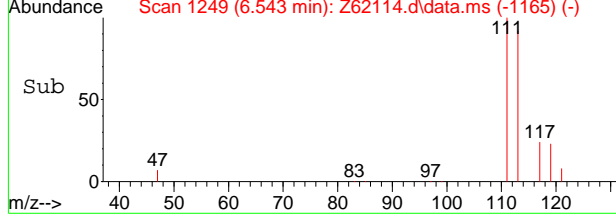
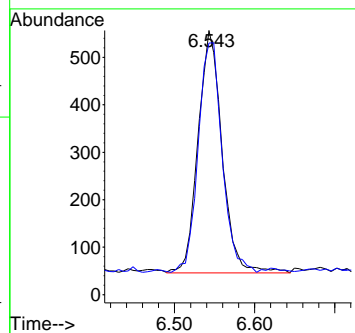
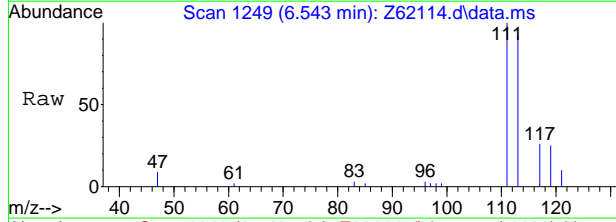
7.1.25  
7





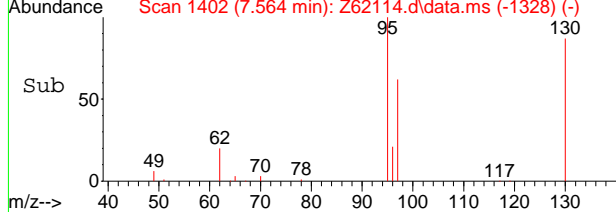
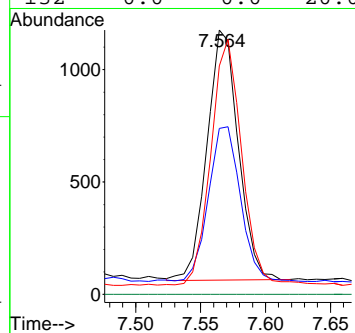
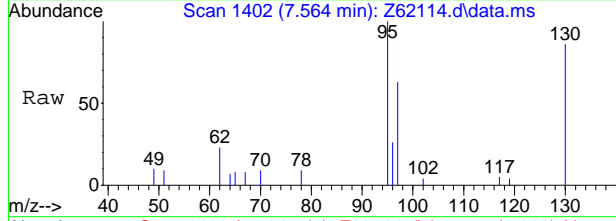
#10  
 Carbon Tetrachloride  
 Concen: 0.06 ppb  
 RT: 6.543 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: Z62114.d  
 Acq: 5 Sep 2020 1:46 pm

Tgt Ion	Resp	Lower	Upper
117	10610		
119	94.4	75.6	115.6



#15  
 Trichloroethene  
 Concen: 0.12 ppb  
 RT: 7.564 min Scan# 1402  
 Delta R.T. 0.000 min  
 Lab File: Z62114.d  
 Acq: 5 Sep 2020 1:46 pm

Tgt Ion	Resp	Lower	Upper
95	18690		
97	60.9	45.0	85.0
130	87.7	72.6	112.6
132	0.0	0.0	20.0



7.1.25  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62115.d  
Acq On : 5 Sep 2020 2:09 pm  
Operator : stutip  
Sample : FA78445-24  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 08 20:22:48 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1701240	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1253079	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	662069	6.01	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	120.20%	
19) Toluene-d8	8.961	98	1551836	4.98	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%	
Target Compounds							
5) Methylene Chloride	4.713	84	15571	0.11	ppb		Qvalue 91
9) Chloroform	6.377	83	17840	0.07	ppb		98
10) Carbon Tetrachloride	6.543	117	10194	0.06	ppb		98
15) Trichloroethene	7.564	95	18159	0.12	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

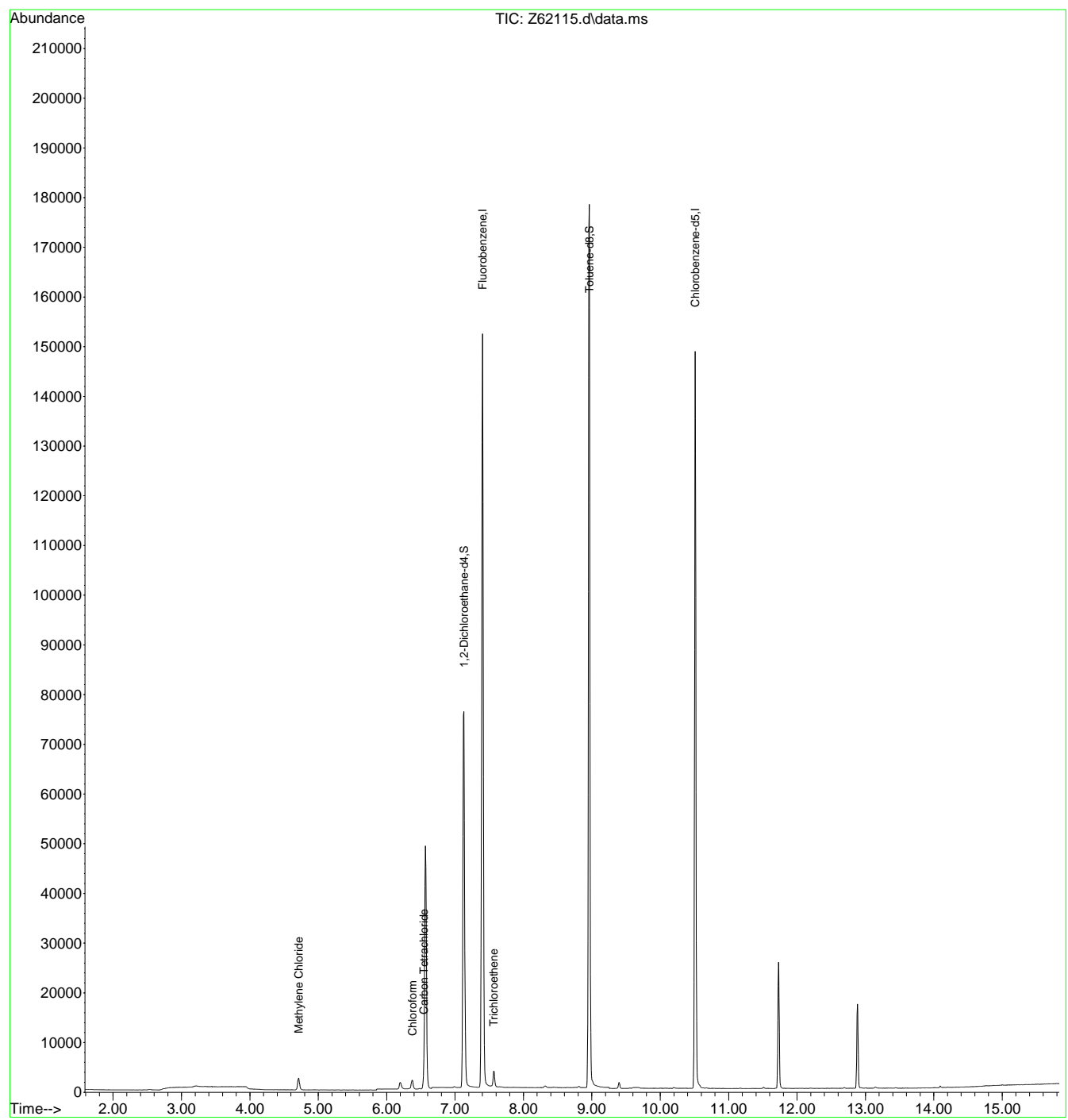
7.1.26  
7



Quantitation Report (QT Reviewed)

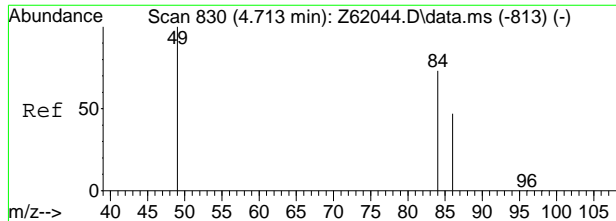
Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62115.d  
Acq On : 5 Sep 2020 2:09 pm  
Operator : stutip  
Sample : FA78445-24  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 08 20:22:48 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.26  
7

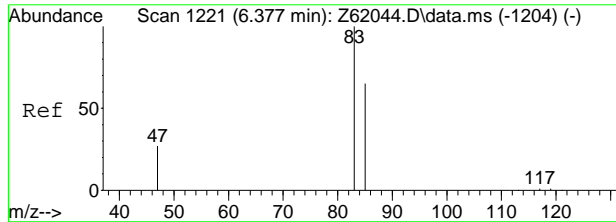
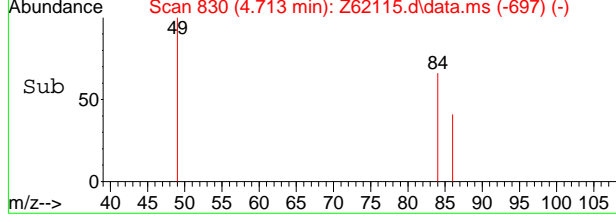
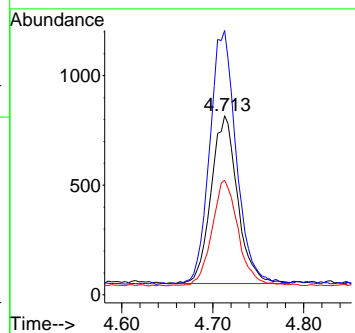
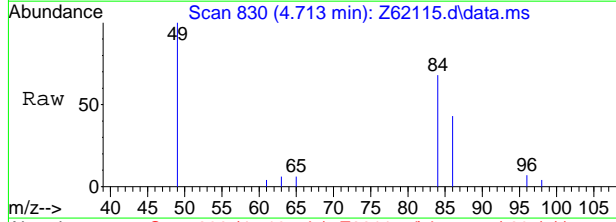




#5  
 Methylene Chloride  
 Concen: 0.11 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62115.d  
 Acq: 5 Sep 2020 2:09 pm

Tgt Ion: 84 Resp: 15571

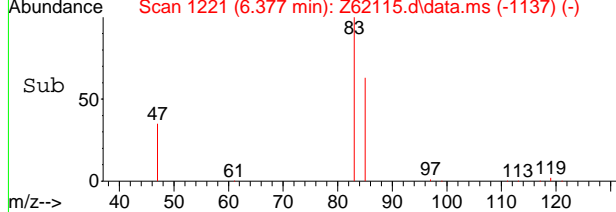
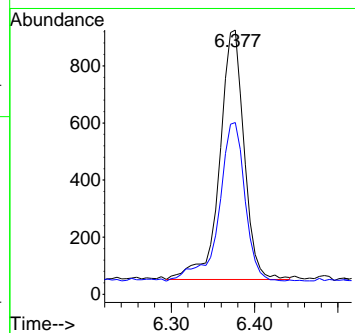
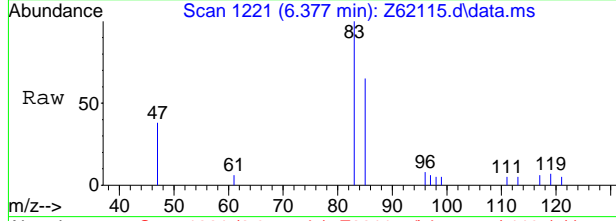
Ion	Ratio	Lower	Upper
84	100		
49	150.7	116.6	156.6
86	62.7	43.9	83.9



#9  
 Chloroform  
 Concen: 0.07 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62115.d  
 Acq: 5 Sep 2020 2:09 pm

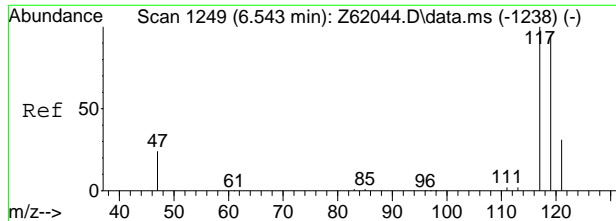
Tgt Ion: 83 Resp: 17840

Ion	Ratio	Lower	Upper
83	100		
85	67.8	46.4	86.4



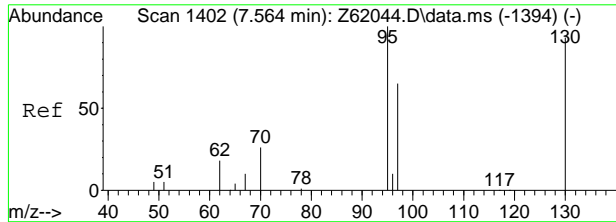
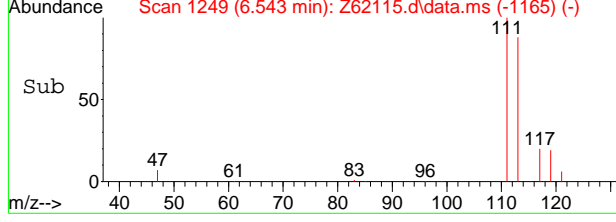
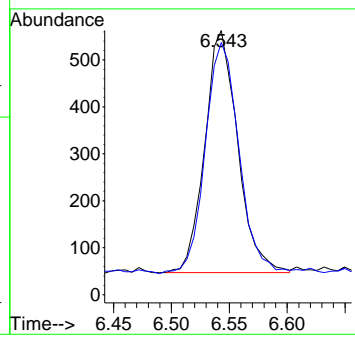
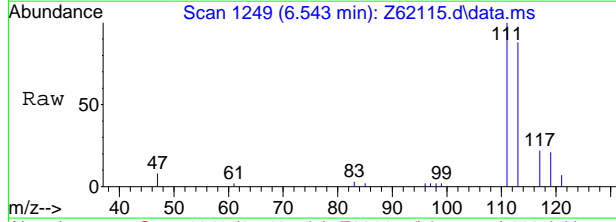
7.1.26  
7





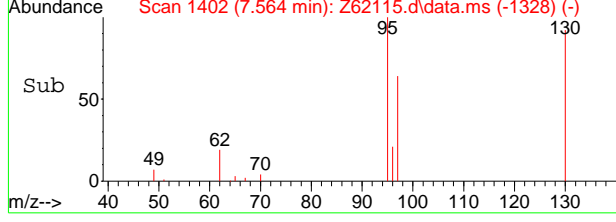
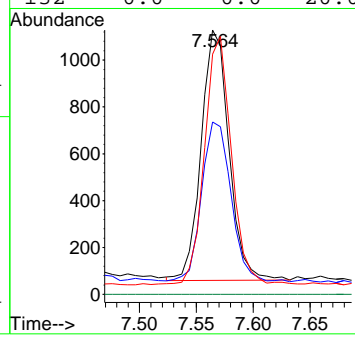
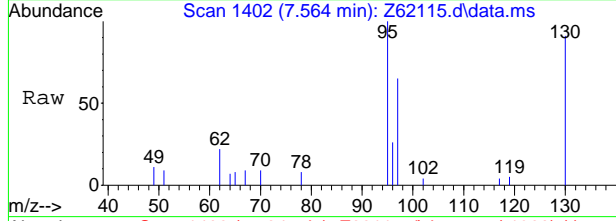
#10  
Carbon Tetrachloride  
Concen: 0.06 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: Z62115.d  
Acq: 5 Sep 2020 2:09 pm

Tgt Ion	Resp	Lower	Upper
117	10194		
119	98.0	75.6	115.6



#15  
Trichloroethene  
Concen: 0.12 ppb  
RT: 7.564 min Scan# 1402  
Delta R.T. 0.000 min  
Lab File: Z62115.d  
Acq: 5 Sep 2020 2:09 pm

Tgt Ion	Resp	Lower	Upper
95	18159		
97	63.9	45.0	85.0
130	91.8	72.6	112.6
132	0.0	0.0	20.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62116.d  
Acq On : 5 Sep 2020 2:33 pm  
Operator : stutip  
Sample : FA78445-25  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 20:22:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1598021	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1178047	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	626559	6.05	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	121.00%		
19) Toluene-d8	8.961	98	1464506	5.00	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	100.00%		
Target Compounds							
5) Methylene Chloride	4.709	84	13932	0.10	ppb		88
9) Chloroform	6.371	83	13021	0.05	ppb		94
10) Carbon Tetrachloride	6.543	117	21376	0.13	ppb		98
-----							

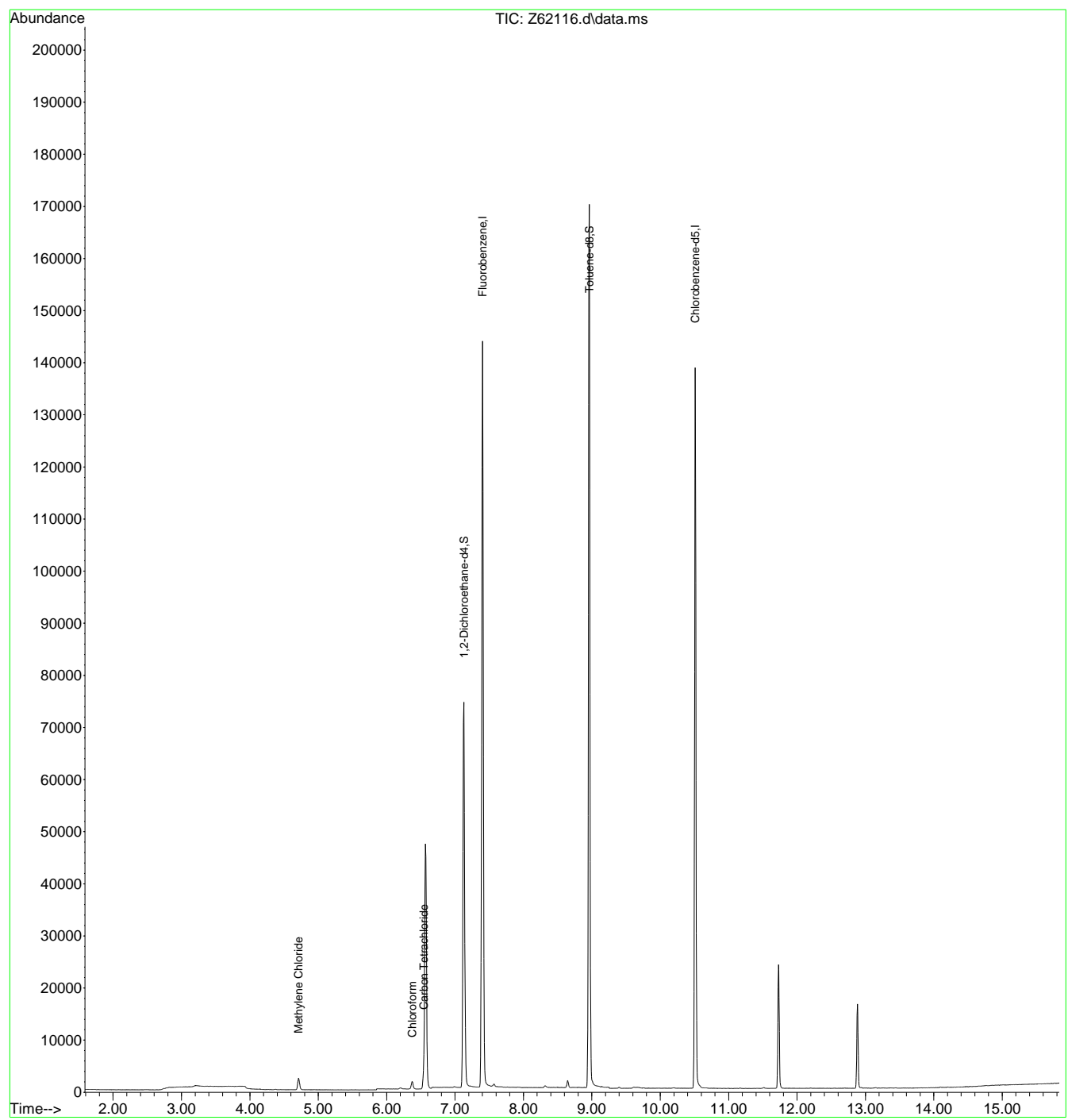
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.27  
7

Quantitation Report (QT Reviewed)

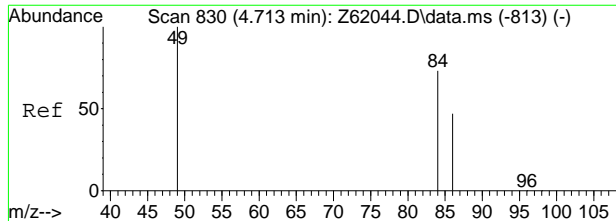
Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62116.d  
Acq On : 5 Sep 2020 2:33 pm  
Operator : stutip  
Sample : FA78445-25  
Misc : MS47137,VZ2410,,,,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 20:22:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.1.27  
7

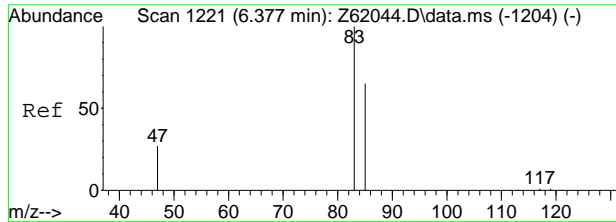
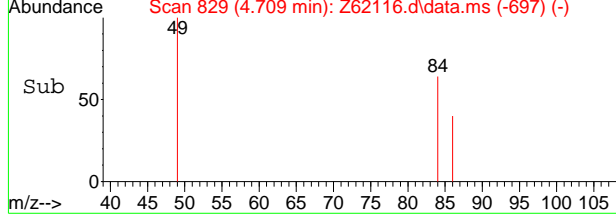
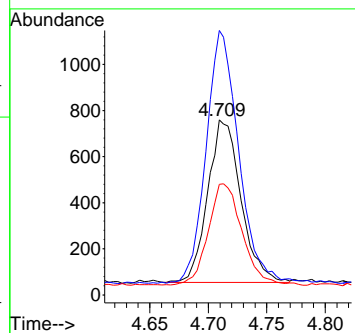
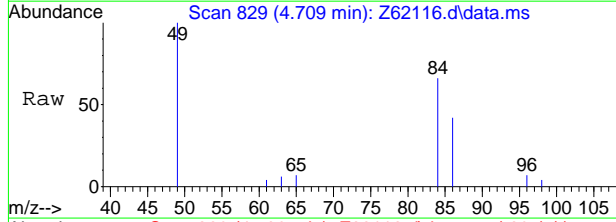




#5  
 Methylene Chloride  
 Concen: 0.10 ppb  
 RT: 4.709 min Scan# 829  
 Delta R.T. -0.004 min  
 Lab File: Z62116.d  
 Acq: 5 Sep 2020 2:33 pm

Tgt Ion: 84 Resp: 13932

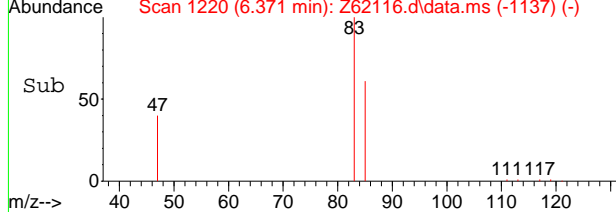
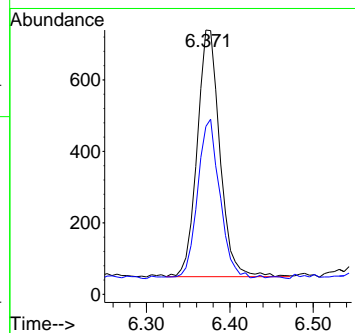
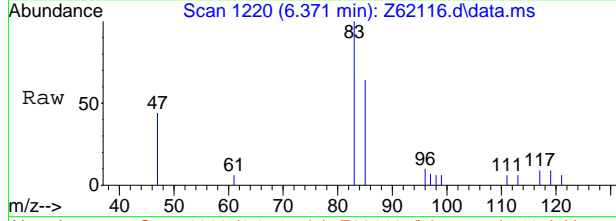
Ion	Ratio	Lower	Upper
84	100		
49	155.7	116.6	156.6
86	61.8	43.9	83.9



#9  
 Chloroform  
 Concen: 0.05 ppb  
 RT: 6.371 min Scan# 1220  
 Delta R.T. -0.006 min  
 Lab File: Z62116.d  
 Acq: 5 Sep 2020 2:33 pm

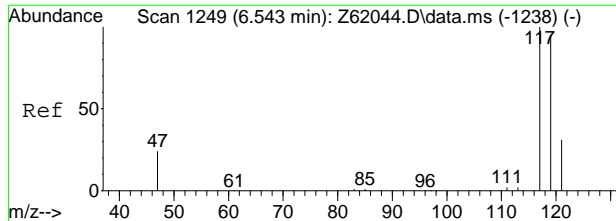
Tgt Ion: 83 Resp: 13021

Ion	Ratio	Lower	Upper
83	100		
85	61.8	46.4	86.4

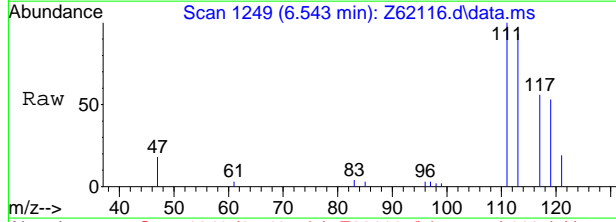


7.1.27  
7

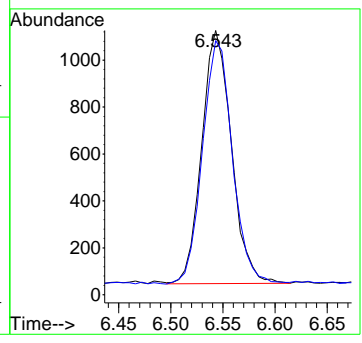
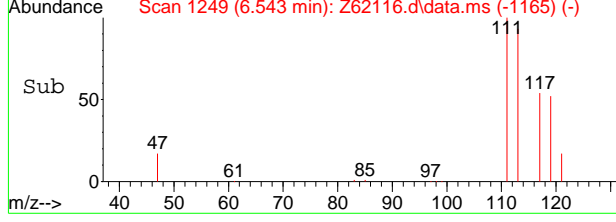




#10  
Carbon Tetrachloride  
Concen: 0.13 ppb  
RT: 6.543 min Scan# 1249  
Delta R.T. 0.000 min  
Lab File: Z62116.d  
Acq: 5 Sep 2020 2:33 pm



Tgt Ion: 117 Resp: 21376  
Ion Ratio Lower Upper  
117 100  
119 97.4 75.6 115.6



7.1.27  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61076.d  
 Acq On : 3 Sep 2020 9:07 pm  
 Operator : stutip  
 Sample : mb  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 02:29:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	409635	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	277151	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	173702	5.38	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	107.60%	
19) Toluene-d8	8.900	98	316811	5.21	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	104.20%	

Target Compounds Qvalue

-----

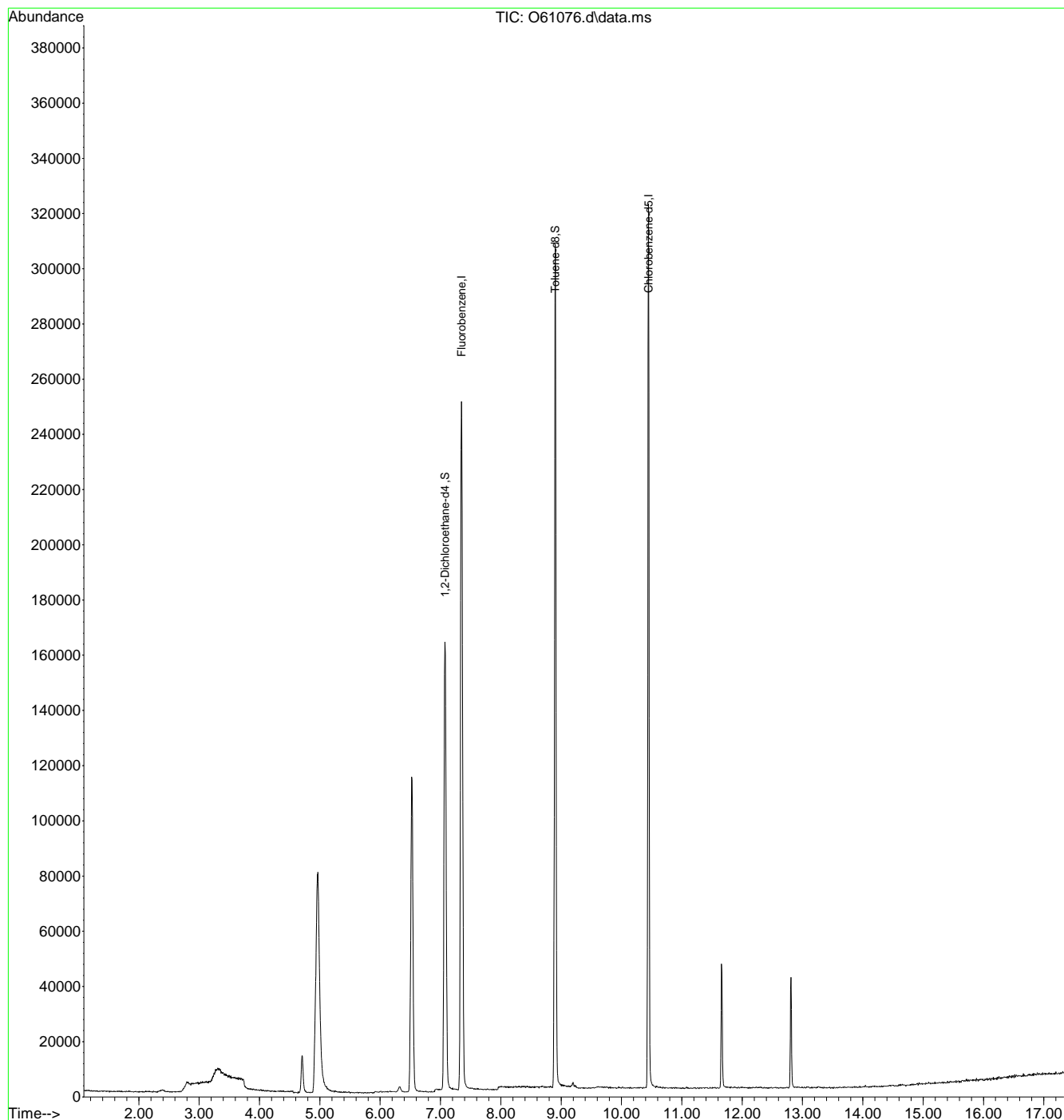
(#) = qualifier out of range (m) = manual integration (+) = signals summed



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61076.d  
Acq On : 3 Sep 2020 9:07 pm  
Operator : stutip  
Sample : mb  
Misc : MS47137,VO2350,,,,,  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 02:29:55 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\VZ2410\  
 Data File : Z62110.d  
 Acq On : 5 Sep 2020 12:11 pm  
 Operator : stutip  
 Sample : mb  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 20:22:38 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	2061859	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1514302	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	765575	5.73	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	114.60%
19) Toluene-d8	8.961	98	1921638	5.10	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
Target Compounds						
5) Methylene Chloride	4.713	84	25491	0.14	ppb	Qvalue 91
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

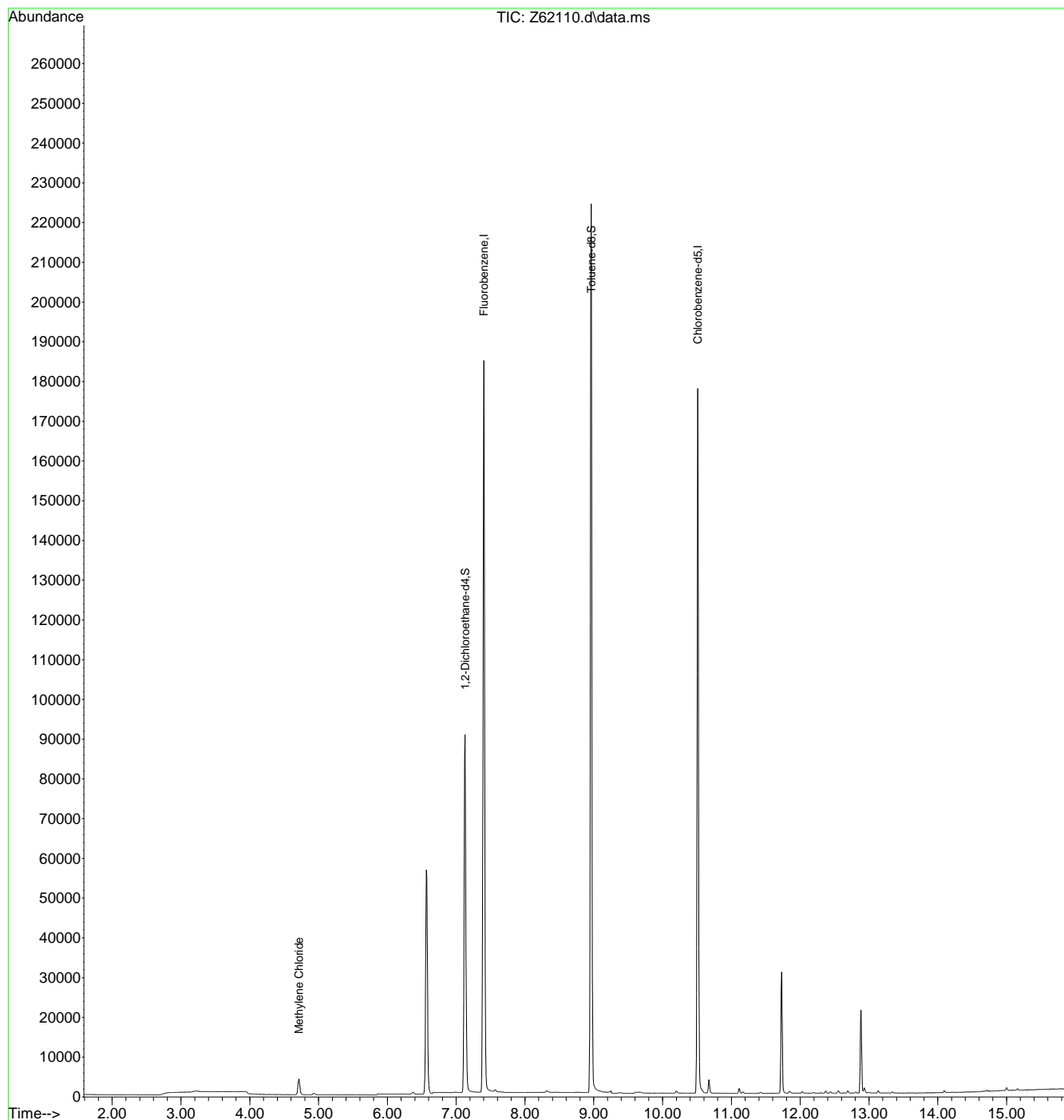
7.22  
7



Quantitation Report (QT Reviewed)

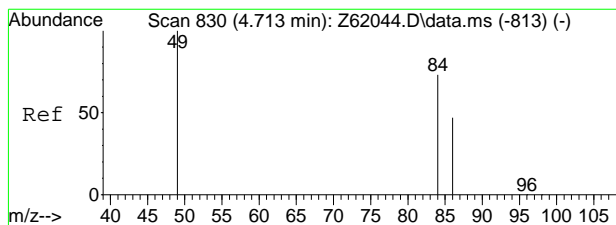
Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
Data File : Z62110.d  
Acq On : 5 Sep 2020 12:11 pm  
Operator : stutip  
Sample : mb  
Misc : MS47134,VZ2410,,,,,  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 20:22:38 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.2.2  
7

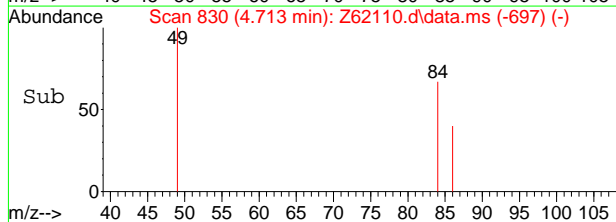
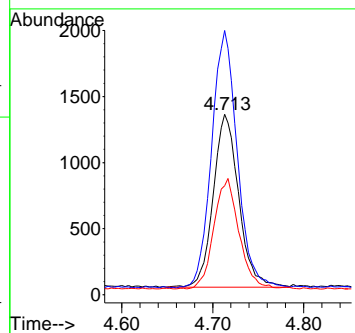
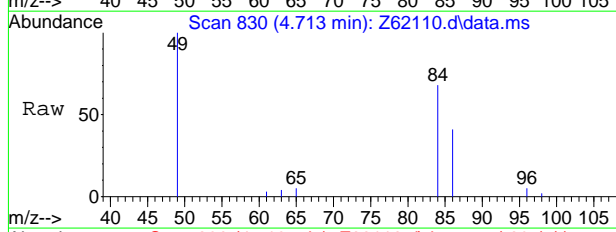




#5  
 Methylene Chloride  
 Concen: 0.14 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62110.d  
 Acq: 5 Sep 2020 12:11 pm

Tgt Ion: 84 Resp: 25491

Ion	Ratio	Lower	Upper
84	100		
49	148.6	116.6	156.6
86	59.4	43.9	83.9



7.22  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61075.d  
 Acq On : 3 Sep 2020 8:47 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47088,VO2350,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 02:28:10 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	508185	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	349364	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	194393m	4.85	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	97.00%		
19) Toluene-d8	8.900	98	379497	4.95	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	314015	5.63	ug/L		99
3) Chloromethane	2.799	50	475272	4.73	ug/L		99
4) 1,1-Dichloroethene	4.085	61	342548	5.93	ug/L		96
5) Methylene Chloride	4.699	49	585610	4.31	ug/L		99
6) trans-1,2-Dichloroethene	4.865	61	378041	5.59	ug/L		99
7) 1,1-Dichloroethane	5.506	63	474706	5.60	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	246007	5.10	ug/L		99
9) Chloroform	6.327	83	469156	5.35	ug/L		99
10) Carbon Tetrachloride	6.505	117	304065	5.77	ug/L		99
11) 1,1,1-Trichloroethane	6.576	97	349769	5.52	ug/L		99
12) Benzene	6.937	78	792856	5.63	ug/L		100
14) 1,2-Dichloroethane	7.139	62	351156	5.27	ug/L		99
15) Trichloroethene	7.512	95	287482	5.50	ug/L		96
16) 1,2-Dichloropropane	8.040	63	264622	5.63	ug/L		99
17) cis-1,3-Dichloropropene	8.711	75	275908	5.34	ug/L		100
20) trans-1,3-Dichloropropene	9.343	75	279727	5.29	ug/L		99
21) Tetrachloroethene	9.337	166	242218	5.68	ug/L		95
22) 1,4-Dichlorobenzene	12.827	146	444375	5.22	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.037	75	81301	4.85	ug/L		98

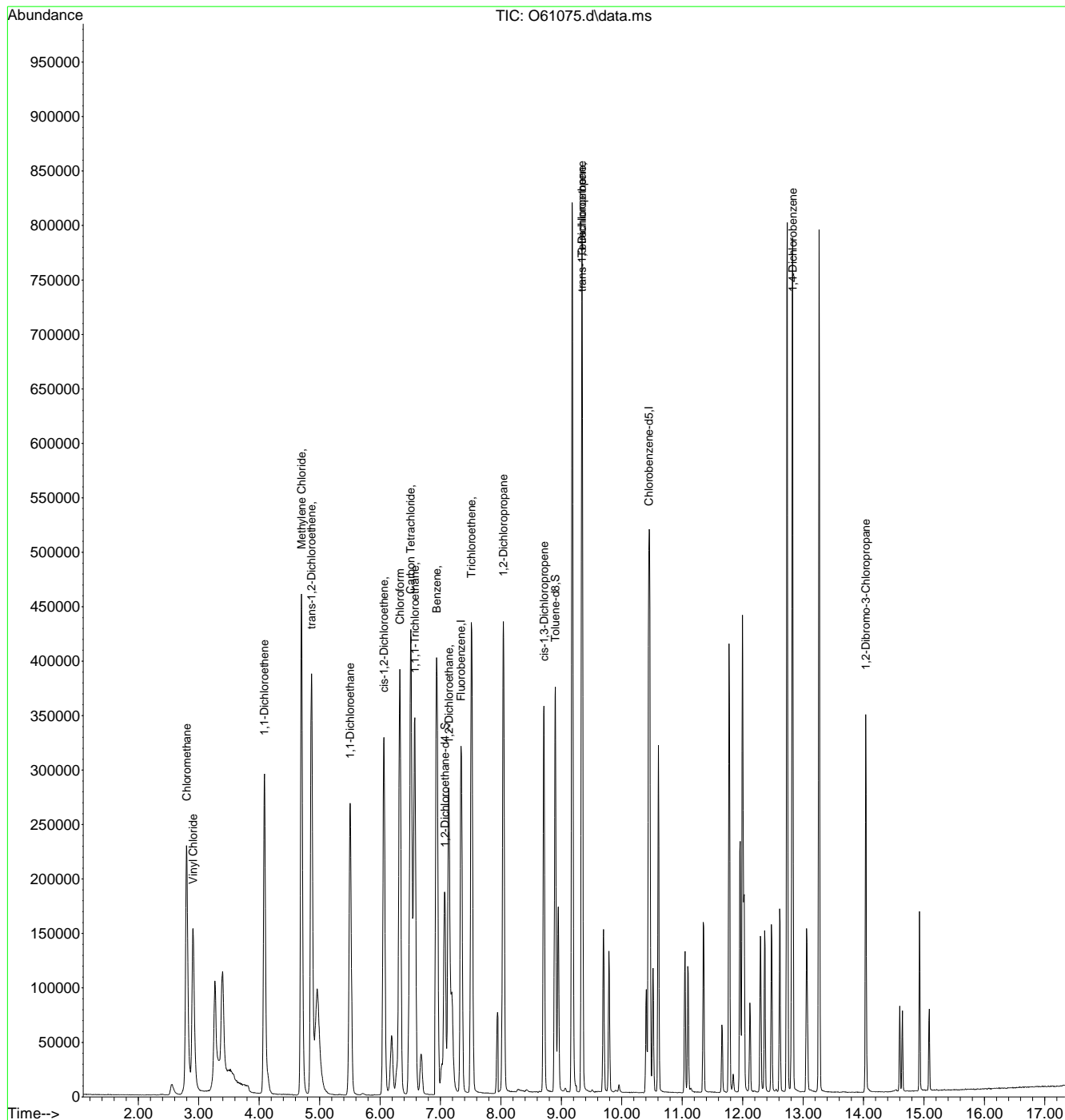
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61075.d  
 Acq On : 3 Sep 2020 8:47 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47088,VO2350,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 02:28:10 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



7.3.1  
7

# Manual Integration Approval Summary

**Sample Number:** VO2350-BS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61075.D      **Analyst approved:** 09/08/20 02:44 Jennifer Ferreira  
**Injection Time:** 09/03/20 20:47      **Supervisor approved:** 09/09/20 11:56 Melissa Mangual

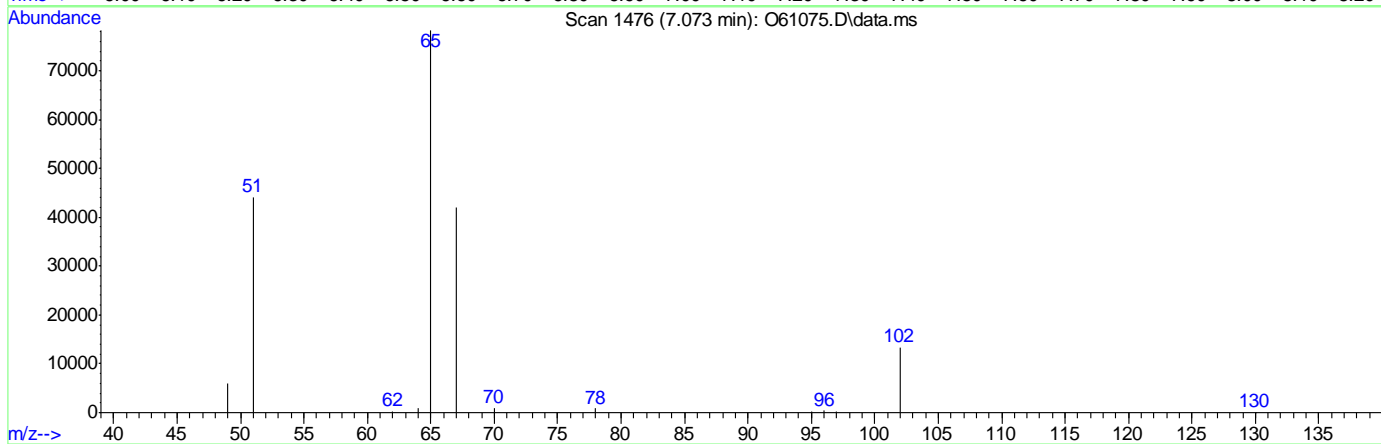
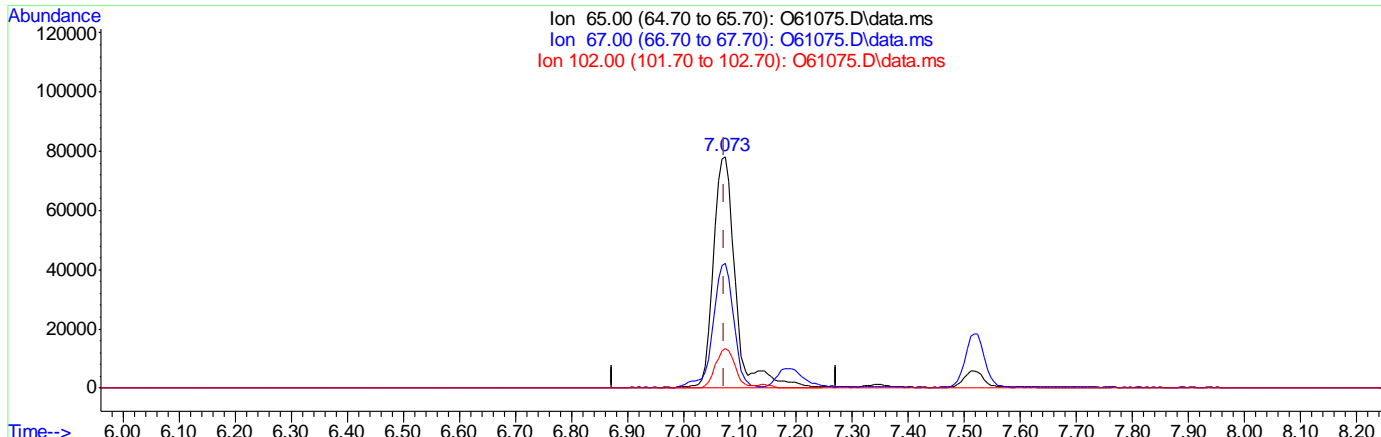
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichloroethane-D4	17060-07-0		7.07	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61075.D  
 Acq On : 3 Sep 2020 8:47 pm  
 Operator : manager  
 Sample : bs  
 Misc : MS47088,VO2350,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 06:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 06:51:45 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.073min (+0.000) 5.30ug/L

response 214224

Ion	Exp%	Act%
65.00	100	100
67.00	50.80	53.45
102.00	16.90	17.08
0.00	0.00	0.00

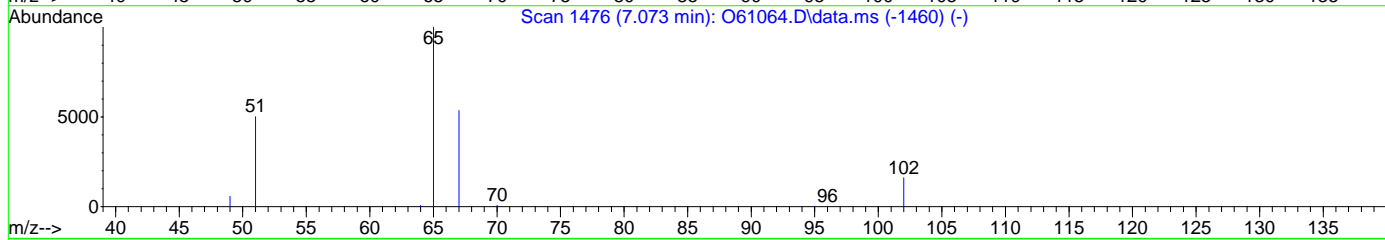
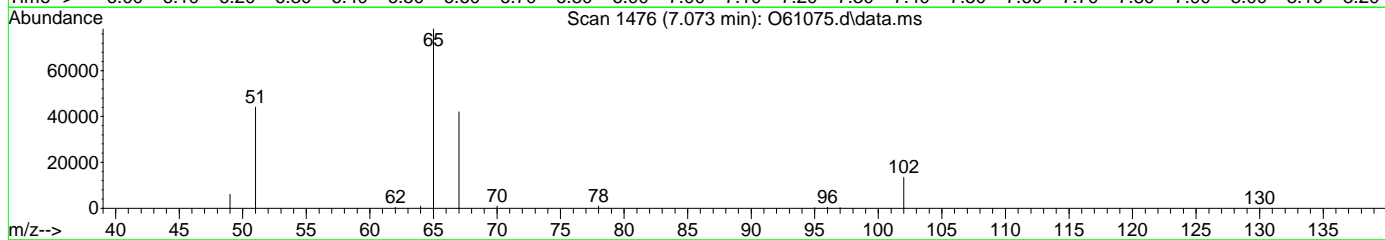
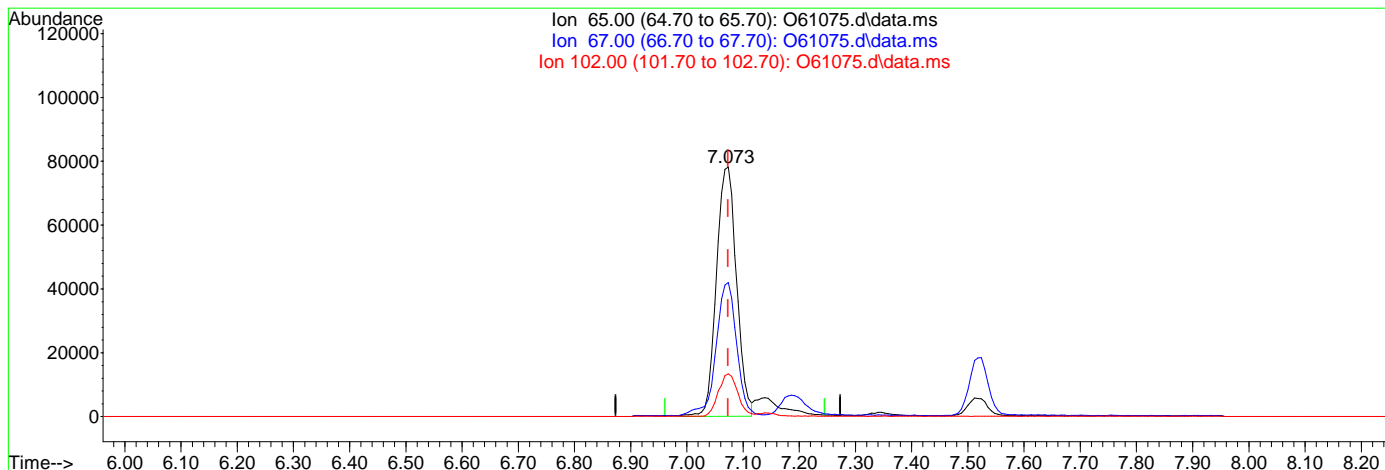
7.3.1.2  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61075.d  
 Acq On : 3 Sep 2020 8:47 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47088,VO2350,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 02:21:31 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.073min (+0.000) 4.85ug/L m

response 194393

Ion	Exp%	Act%
65.00	100	100
67.00	53.50	53.72
102.00	16.10	17.15
0.00	0.00	0.00

7.3.1.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\VZ2410\  
 Data File : Z62109.d  
 Acq On : 5 Sep 2020 11:47 am  
 Operator : stutip  
 Sample : bs  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 20:22:36 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2400264	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1812082	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	874610	5.62	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	112.40%		
19) Toluene-d8	8.961	98	2242940	4.97	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1087250	5.16	ppb		100
3) Chloromethane	2.733	50	1079641	5.03	ppb		99
4) 1,1-Dichloroethene	4.087	96	601537	4.13	ppb		96
5) Methylene Chloride	4.713	84	828863	4.01	ppb		95
6) trans-1,2-Dichloroethene	4.886	96	744019	4.13	ppb		96
7) 1,1-Dichloroethane	5.543	63	1414369	4.10	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	794252	3.84	ppb		91
9) Chloroform	6.371	83	1525807	3.98	ppb		100
10) Carbon Tetrachloride	6.543	117	966872	3.80	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	1317905	4.06	ppb		99
12) Benzene	6.994	78	2905063	4.10	ppb		98
14) 1,2-Dichloroethane	7.198	62	1179894	4.63	ppb		99
15) Trichloroethene	7.564	95	900931	4.06	ppb		99
16) 1,2-Dichloropropane	8.105	63	764091	4.25	ppb		95
17) cis-1,3-Dichloropropene	8.773	75	688447	3.13	ppb		99
20) trans-1,3-Dichloropropene	9.412	75	569206	2.58	ppb		99
21) Tetrachloroethene	9.399	166	868688	4.15	ppb		100

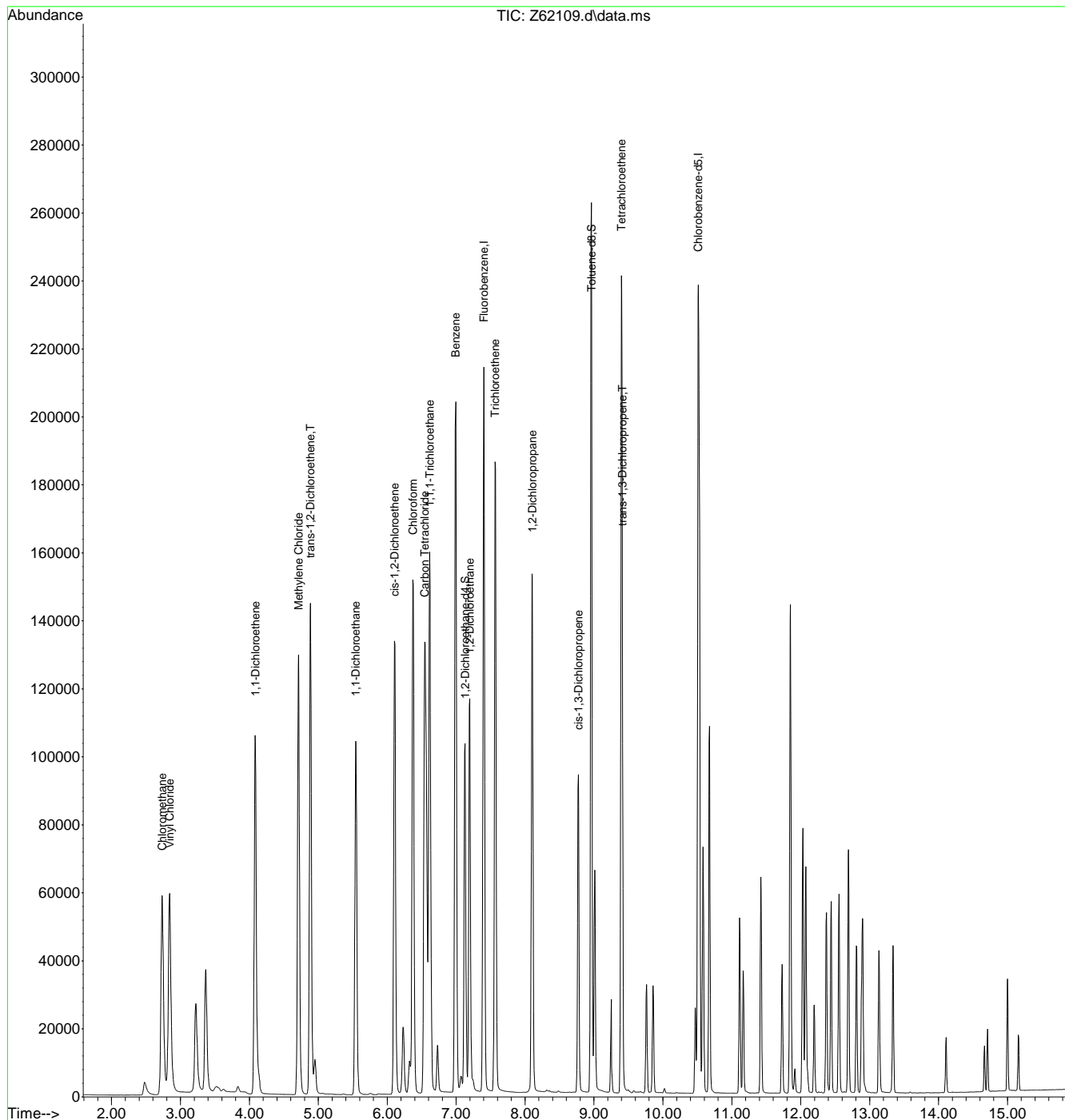
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.32  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
 Data File : Z62109.d  
 Acq On : 5 Sep 2020 11:47 am  
 Operator : stutip  
 Sample : bs  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 20:22:36 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.3.2  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61078.d  
 Acq On : 3 Sep 2020 9:48 pm  
 Operator : stutip  
 Sample : fa78445-1ms,10  
 Misc : MS47137,VO2350,,,,,10  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 02:31:59 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

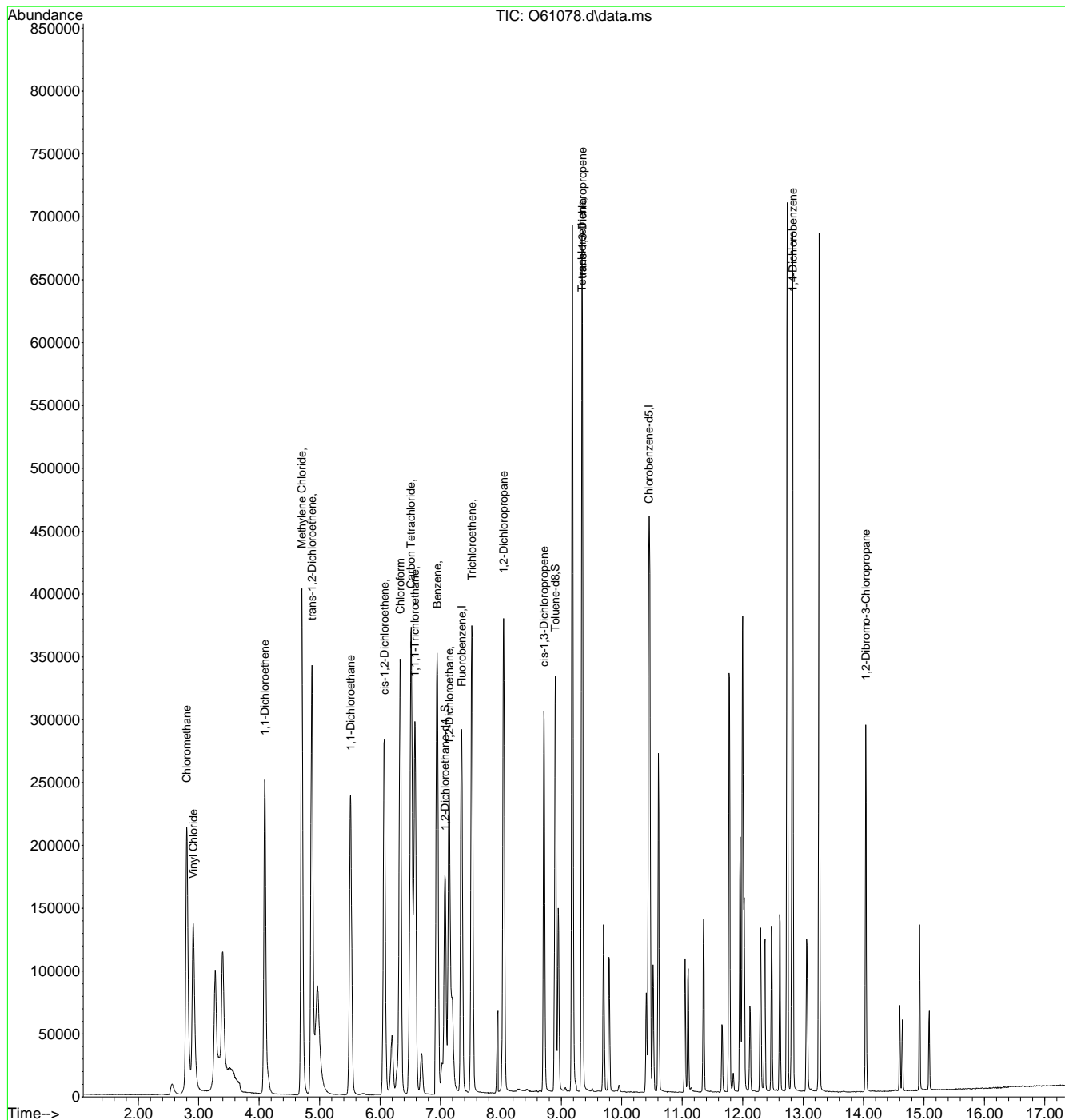
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.352	96	464096	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	321801	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	180197m	4.92	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.40%		
19) Toluene-d8	8.900	98	337843	4.78	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	289997	5.70	ug/L		98
3) Chloromethane	2.803	50	439722	4.80	ug/L		98
4) 1,1-Dichloroethene	4.092	61	291833	5.54	ug/L		96
5) Methylene Chloride	4.703	49	515233	4.14	ug/L		100
6) trans-1,2-Dichloroethene	4.873	61	332246	5.38	ug/L		99
7) 1,1-Dichloroethane	5.514	63	415617	5.37	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	210578	4.78	ug/L		98
9) Chloroform	6.333	83	410781	5.13	ug/L		99
10) Carbon Tetrachloride	6.510	117	263553	5.48	ug/L		100
11) 1,1,1-Trichloroethane	6.576	97	299527	5.18	ug/L		99
12) Benzene	6.943	78	687660	5.35	ug/L		100
14) 1,2-Dichloroethane	7.145	62	305282	5.01	ug/L		98
15) Trichloroethene	7.518	95	247904	5.20	ug/L		98
16) 1,2-Dichloropropane	8.043	63	226016	5.27	ug/L		99
17) cis-1,3-Dichloropropene	8.711	75	229589	4.89	ug/L		96
20) trans-1,3-Dichloropropene	9.349	75	233008	4.81	ug/L		99
21) Tetrachloroethene	9.343	166	211785	5.39	ug/L		98
22) 1,4-Dichlorobenzene	12.827	146	383505	4.90	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.037	75	67373	4.37	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61078.d  
 Acq On : 3 Sep 2020 9:48 pm  
 Operator : stutip  
 Sample : fa78445-1ms,10  
 Misc : MS47137,VO2350,,,,,10  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 02:31:59 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



7.4.1  
7

# Manual Integration Approval Summary

**Sample Number:** FA78445-1MS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61078.D      **Analyst approved:** 09/08/20 02:44 Jennifer Ferreira  
**Injection Time:** 09/03/20 21:48      **Supervisor approved:** 09/09/20 11:56 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichloroethane-D4	17060-07-0		7.07	Overlapping peak

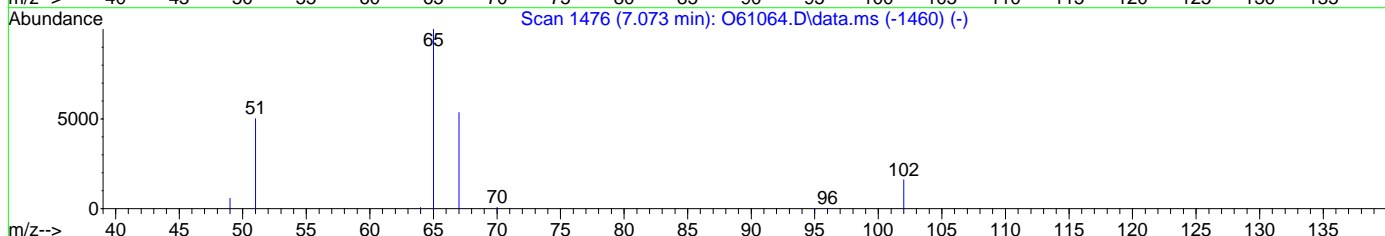
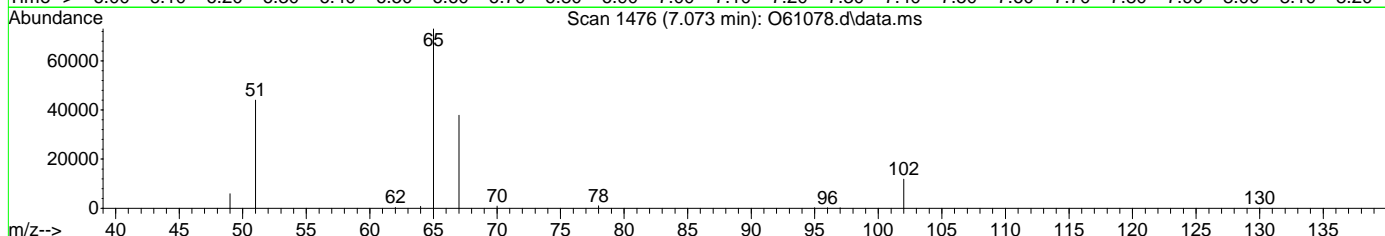
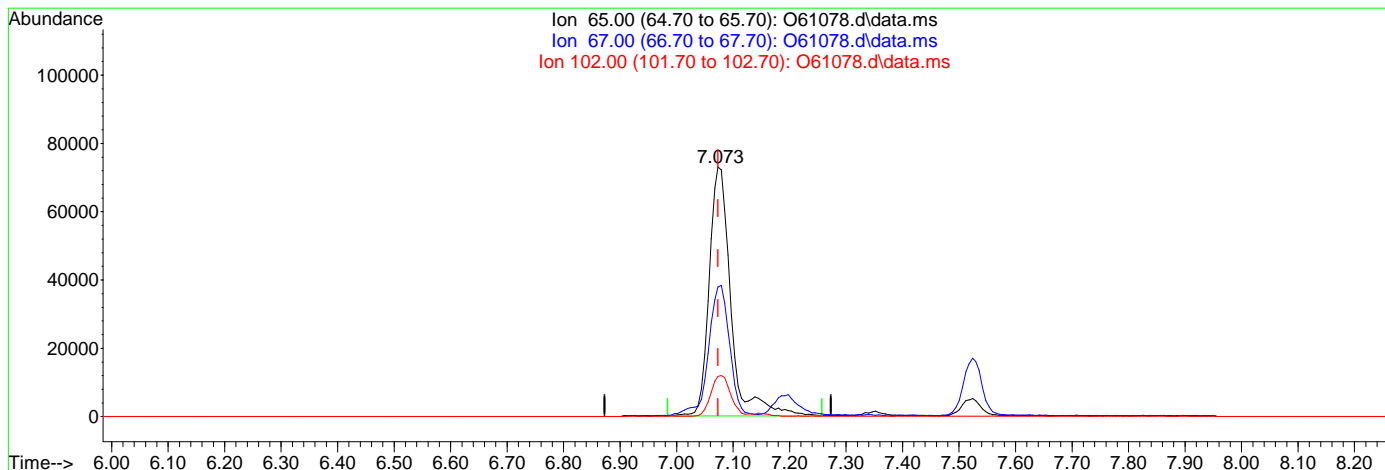
7.4.1.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61078.d  
 Acq On : 3 Sep 2020 9:48 pm  
 Operator : stutip  
 Sample : fa78445-1ms,10  
 Misc : MS47137,VO2350,,,,,10  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 02:21:38 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.073min (+0.000) 5.33ug/L

response 195237

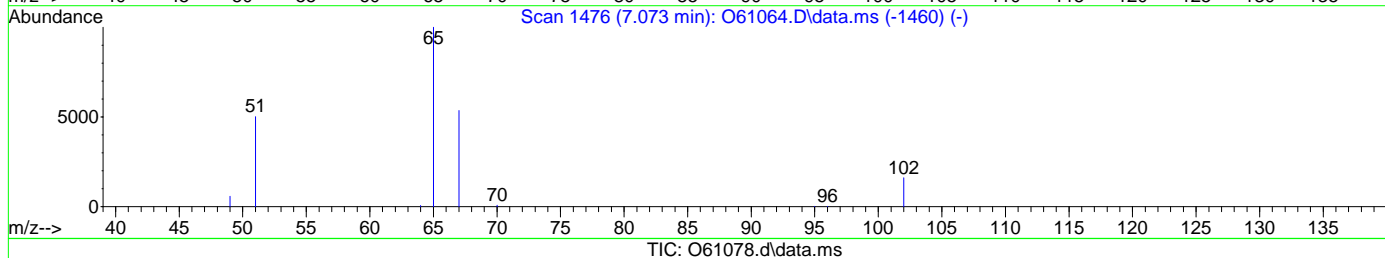
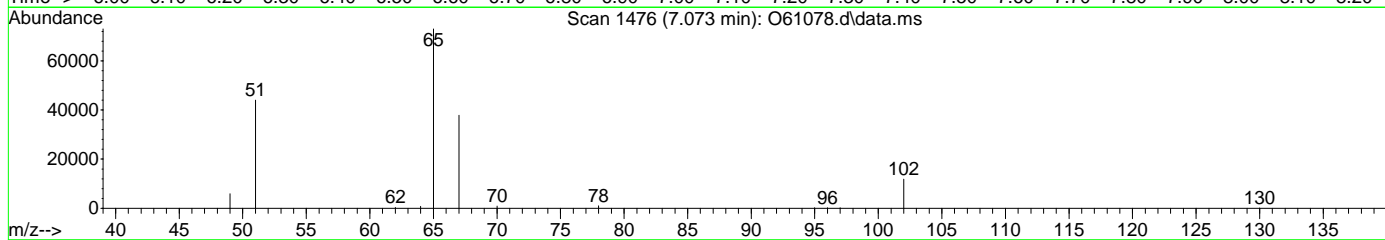
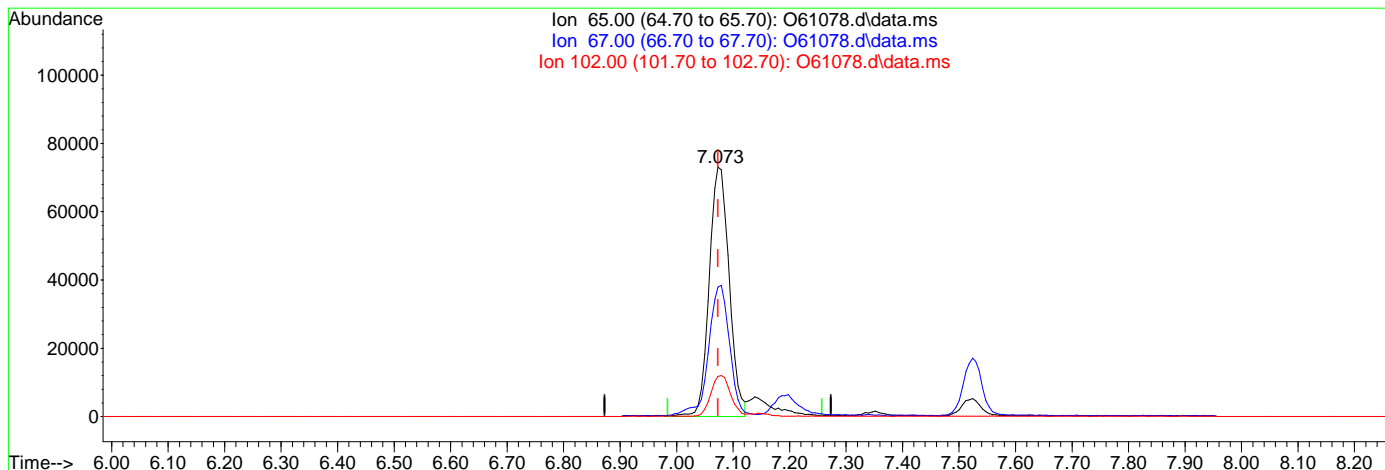
Ion	Exp%	Act%
65.00	100	100
67.00	53.50	51.57
102.00	16.10	16.08
0.00	0.00	0.00

7.4.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61078.d  
 Acq On : 3 Sep 2020 9:48 pm  
 Operator : stutip  
 Sample : fa78445-1ms,10  
 Misc : MS47137,VO2350,,,,,10  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 02:21:38 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.073min (+0.000) 4.92ug/L m

response 180197

Ion	Exp%	Act%
-----	------	------

65.00	100	100
-------	-----	-----

67.00	53.50	51.87
-------	-------	-------

102.00	16.10	16.14
--------	-------	-------

0.00	0.00	0.00
------	------	------

7.4.1.3  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61079.d  
 Acq On : 3 Sep 2020 10:08 pm  
 Operator : stutip  
 Sample : fa78445-1msd,10  
 Misc : MS47137,VO2350,,,,,10  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 02:21:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

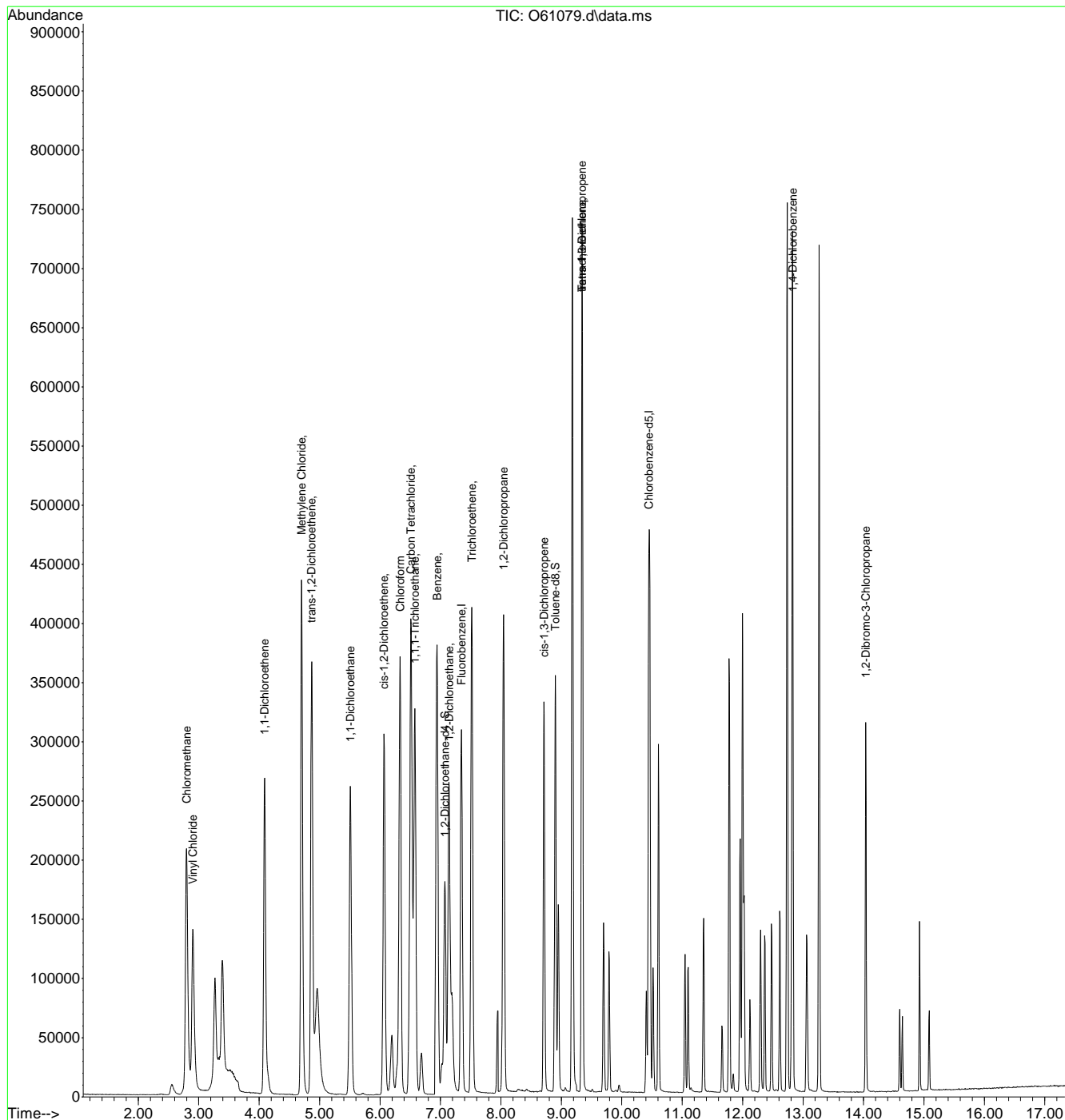
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	480876	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	330219	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	183922	4.85	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	97.00%		
19) Toluene-d8	8.900	98	357403	4.93	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	294039	5.58	ug/L		97
3) Chloromethane	2.799	50	442232	4.65	ug/L		99
4) 1,1-Dichloroethene	4.088	61	312779	5.73	ug/L		96
5) Methylene Chloride	4.699	49	551883	4.29	ug/L		99
6) trans-1,2-Dichloroethene	4.865	61	358869	5.61	ug/L		96
7) 1,1-Dichloroethane	5.510	63	447530	5.58	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	229061	5.02	ug/L		98
9) Chloroform	6.333	83	440404	5.31	ug/L		100
10) Carbon Tetrachloride	6.510	117	284443	5.70	ug/L		99
11) 1,1,1-Trichloroethane	6.576	97	324906	5.42	ug/L		98
12) Benzene	6.943	78	743142	5.58	ug/L		100
14) 1,2-Dichloroethane	7.145	62	326630	5.18	ug/L		100
15) Trichloroethene	7.518	95	269463	5.45	ug/L		97
16) 1,2-Dichloropropane	8.043	63	245208	5.52	ug/L		98
17) cis-1,3-Dichloropropene	8.711	75	253037	5.18	ug/L		97
20) trans-1,3-Dichloropropene	9.343	75	254135	5.09	ug/L		98
21) Tetrachloroethene	9.343	166	227700	5.65	ug/L		97
22) 1,4-Dichlorobenzene	12.827	146	410396	5.10	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.037	75	73565	4.64	ug/L		96
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
Data File : O61079.d  
Acq On : 3 Sep 2020 10:08 pm  
Operator : stutip  
Sample : fa78445-1msd,10  
Misc : MS47137,VO2350,,,,,10  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 02:21:41 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : Standard Methods 6200B  
QLast Update : Fri Sep 04 07:54:30 2020  
Response via : Initial Calibration



7.4.2  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
 Data File : Z62130.D  
 Acq On : 5 Sep 2020 8:03 pm  
 Operator : stutip  
 Sample : fa78445-21ms,10  
 Misc : MS47137,VZ2410,,,,,10  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 08 20:23:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1635582	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1263864	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	657143	6.20	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	124.00%		
19) Toluene-d8	8.961	98	1483999	4.72	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	94.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	879472	6.10	ppb		100
3) Chloromethane	2.737	50	857024	5.83	ppb		99
4) 1,1-Dichloroethene	4.087	96	492931	4.93	ppb		92
5) Methylene Chloride	4.713	84	703836	4.99	ppb		90
6) trans-1,2-Dichloroethene	4.886	96	604422	4.89	ppb		92
7) 1,1-Dichloroethane	5.546	63	1202017	5.11	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	630573	4.48	ppb		94
9) Chloroform	6.377	83	1296160	4.96	ppb		99
10) Carbon Tetrachloride	6.543	117	761974	4.36	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	1076649	4.84	ppb		99
12) Benzene	6.994	78	2351922	4.87	ppb		96
14) 1,2-Dichloroethane	7.198	62	987499	5.69	ppb		99
15) Trichloroethene	7.564	95	745752	4.94	ppb		98
16) 1,2-Dichloropropane	8.105	63	632114	5.16	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	480901	3.20	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	396025	2.57	ppb		99
21) Tetrachloroethene	9.399	166	682384	4.66	ppb		99

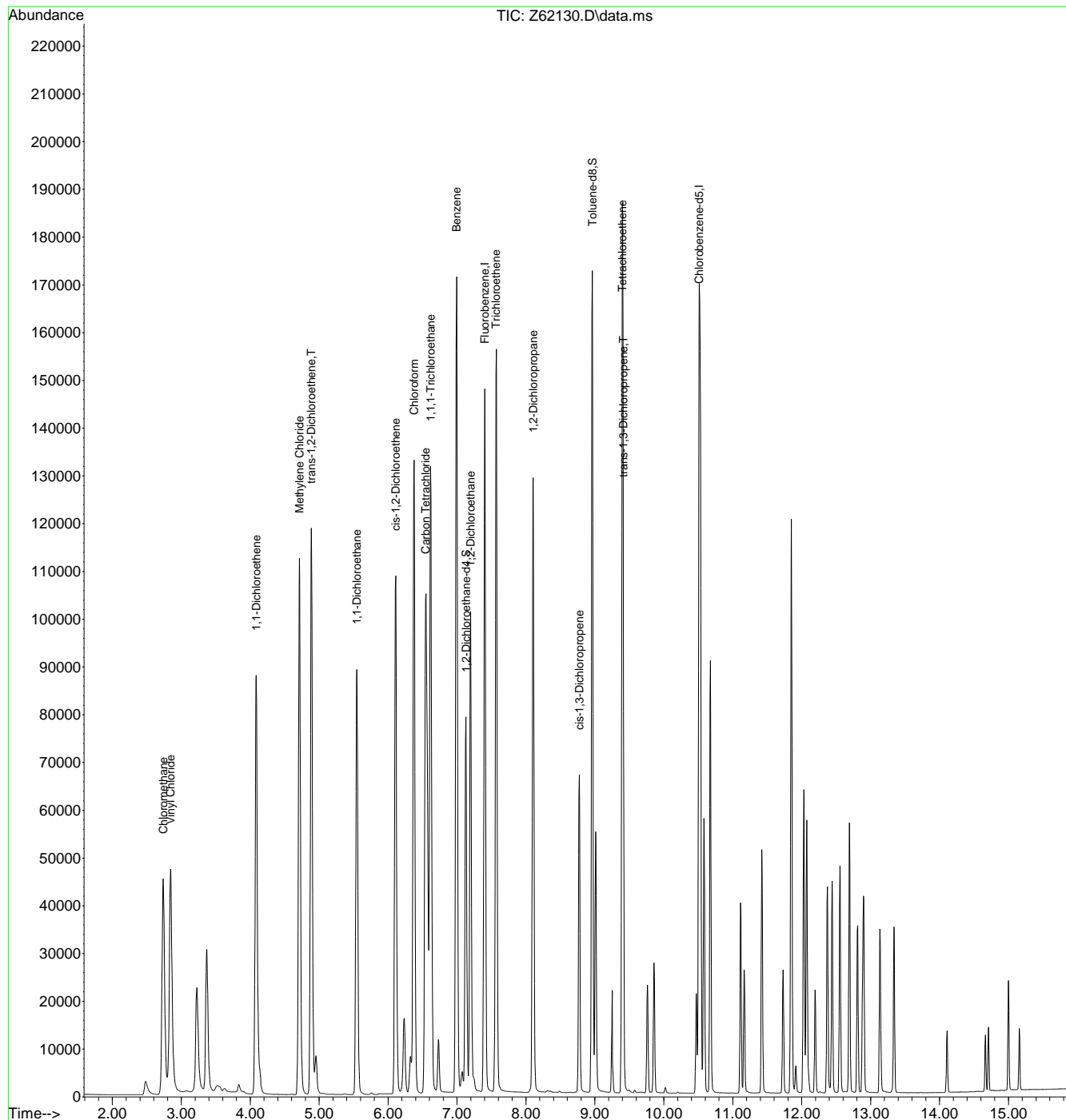
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
 Data File : Z62130.D  
 Acq On : 5 Sep 2020 8:03 pm  
 Operator : stutip  
 Sample : fa78445-21ms,10  
 Misc : MS47137,VZ2410,,,,,10  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 08 20:23:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.4.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
 Data File : Z62131.D  
 Acq On : 5 Sep 2020 8:26 pm  
 Operator : stutip  
 Sample : fa78445-21msd,10  
 Misc : MS47137,VZ2410,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 08 20:23:21 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

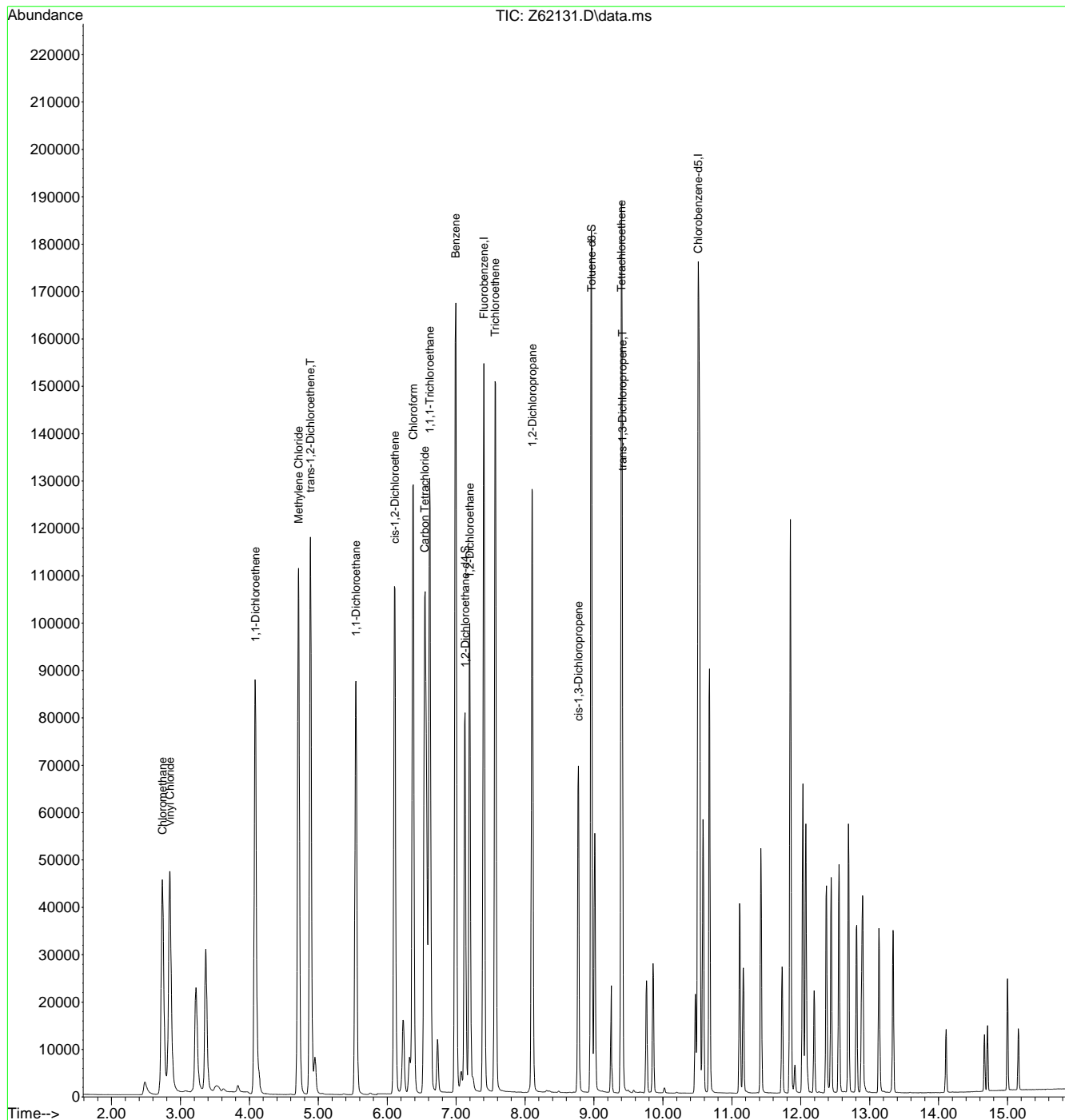
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1716700	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1322904	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	684003	6.15	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	123.00%	
19) Toluene-d8	8.961	98	1564728	4.75	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	892283	5.90	ppb		99
3) Chloromethane	2.737	50	862345	5.59	ppb		99
4) 1,1-Dichloroethene	4.087	96	499047	4.76	ppb		94
5) Methylene Chloride	4.713	84	708267	4.79	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	604989	4.67	ppb		93
7) 1,1-Dichloroethane	5.546	63	1199163	4.86	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	632247	4.28	ppb		93
9) Chloroform	6.377	83	1287183	4.69	ppb		99
10) Carbon Tetrachloride	6.543	117	765940	4.19	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	1080370	4.64	ppb		100
12) Benzene	6.994	78	2357765	4.65	ppb		97
14) 1,2-Dichloroethane	7.198	62	986348	5.42	ppb		99
15) Trichloroethene	7.564	95	734164	4.63	ppb		99
16) 1,2-Dichloropropane	8.105	63	634092	4.93	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	496036	3.15	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	413834	2.57	ppb		100
21) Tetrachloroethene	9.399	166	688686	4.49	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
Data File : Z62131.D  
Acq On : 5 Sep 2020 8:26 pm  
Operator : stutip  
Sample : fa78445-21msd,10  
Misc : MS47137,VZ2410,,,,,10  
ALS Vial : 24 Sample Multiplier: 1

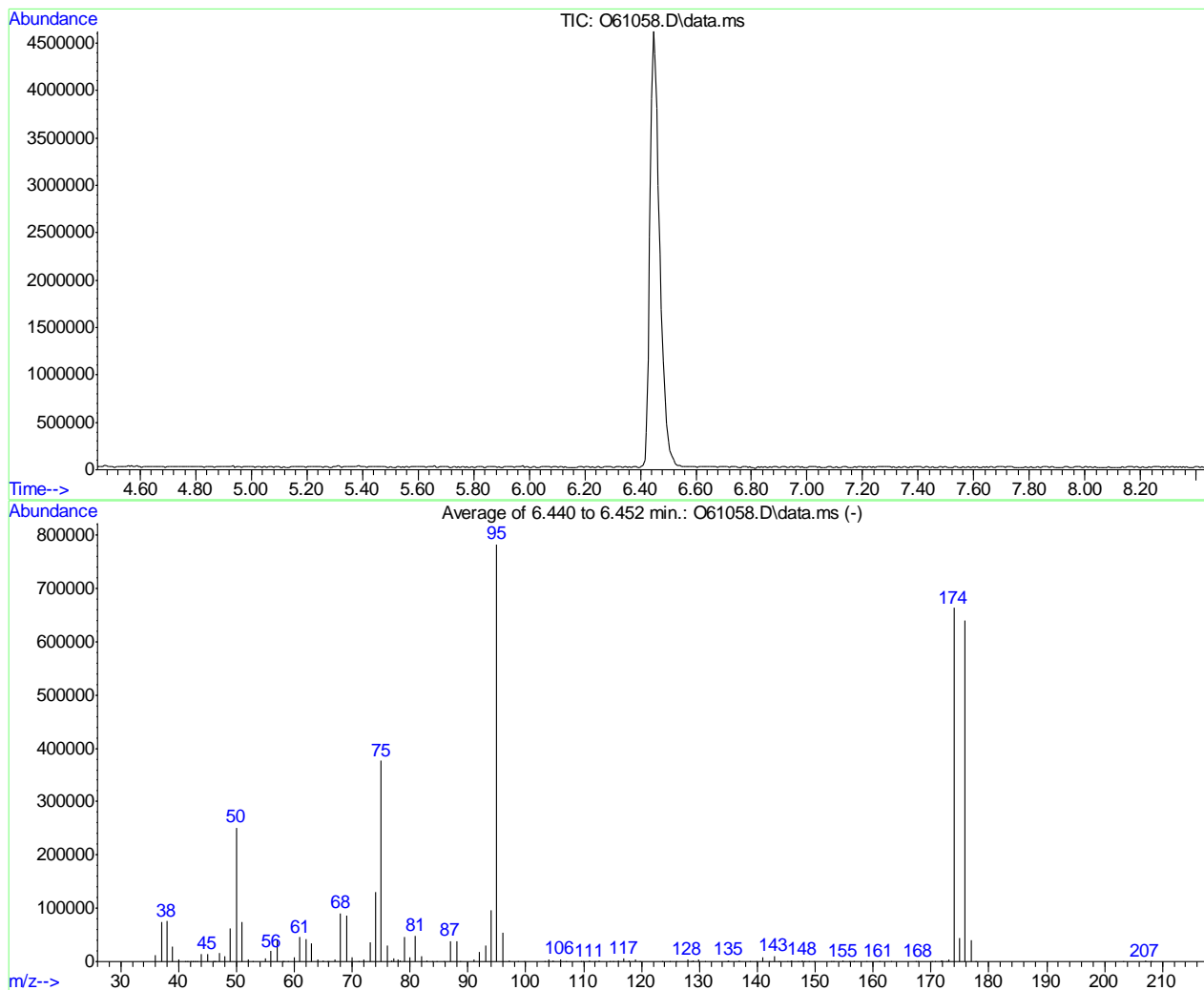
Quant Time: Sep 08 20:23:21 2020  
Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Fri Sep 04 11:36:05 2020  
Response via : Initial Calibration



7.4.4  
7

Methods: SW-846 8260B  
 Data File : C:\msdchem\2\data\090320\O61058.D Vial: 100  
 Acq On : 3 Sep 2020 12:00 pm Operator: akarig  
 Sample : BFB Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL090320.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 460

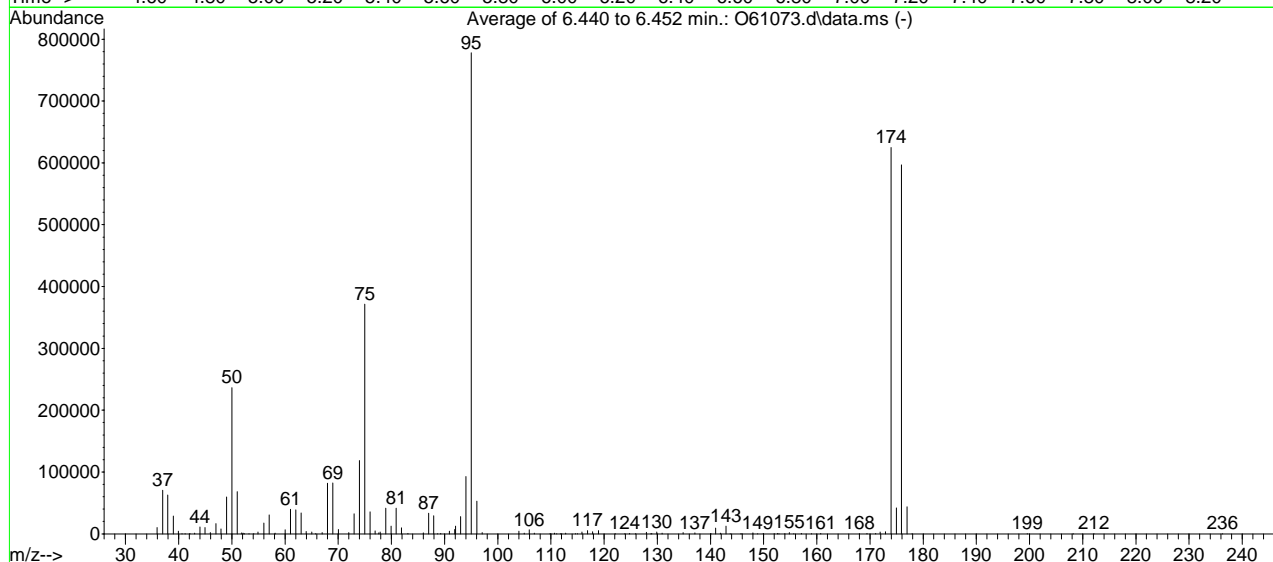
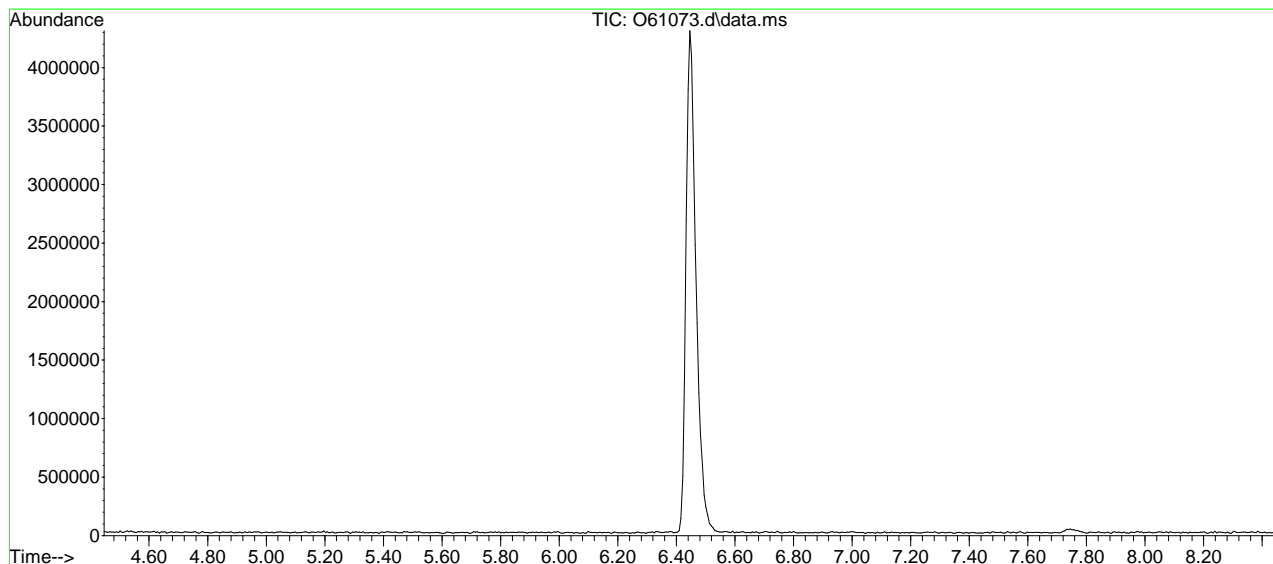
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.1	251437	PASS
75	95	30	60	48.1	376364	PASS
95	95	100	100	100.0	783104	PASS
96	95	5	9	7.0	54707	PASS
173	174	0.00	2	0.5	3096	PASS
174	95	50	100	84.7	663147	PASS
175	174	5	9	6.7	44181	PASS
176	174	95	101	96.4	639040	PASS
177	176	5	9	6.3	40181	PASS

O61058.D SIMCL090320.M Fri Sep 04 14:33:22 2020

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\je...-2020\VO2350\O61073.d Vial: 2  
 Acq On : 3 Sep 2020 7:56 pm Operator: stutip  
 Sample : BFB Inst : MSVOA12  
 Misc : MS47088,VO2350,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 460

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.4	236224	PASS
75	95	30	60	47.8	371477	PASS
95	95	100	100	100.0	777920	PASS
96	95	5	9	6.8	52704	PASS
173	174	0.00	2	0.5	3435	PASS
174	95	50	100	80.3	624640	PASS
175	174	5	9	6.7	41808	PASS
176	174	95	101	95.5	596672	PASS
177	176	5	9	7.4	43981	PASS

7.5.2  
7

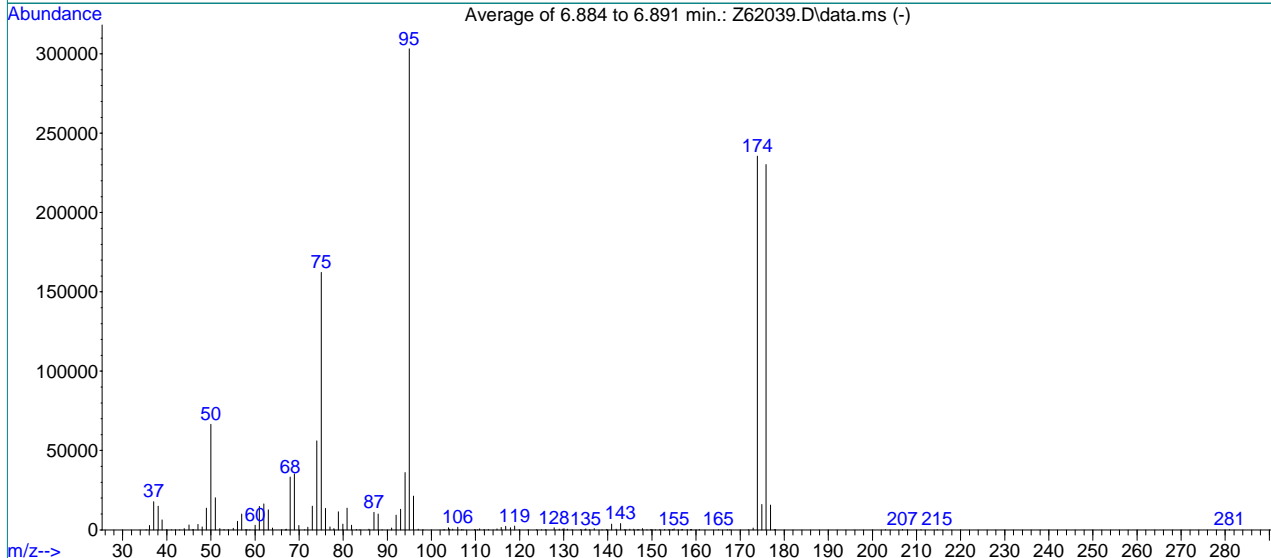
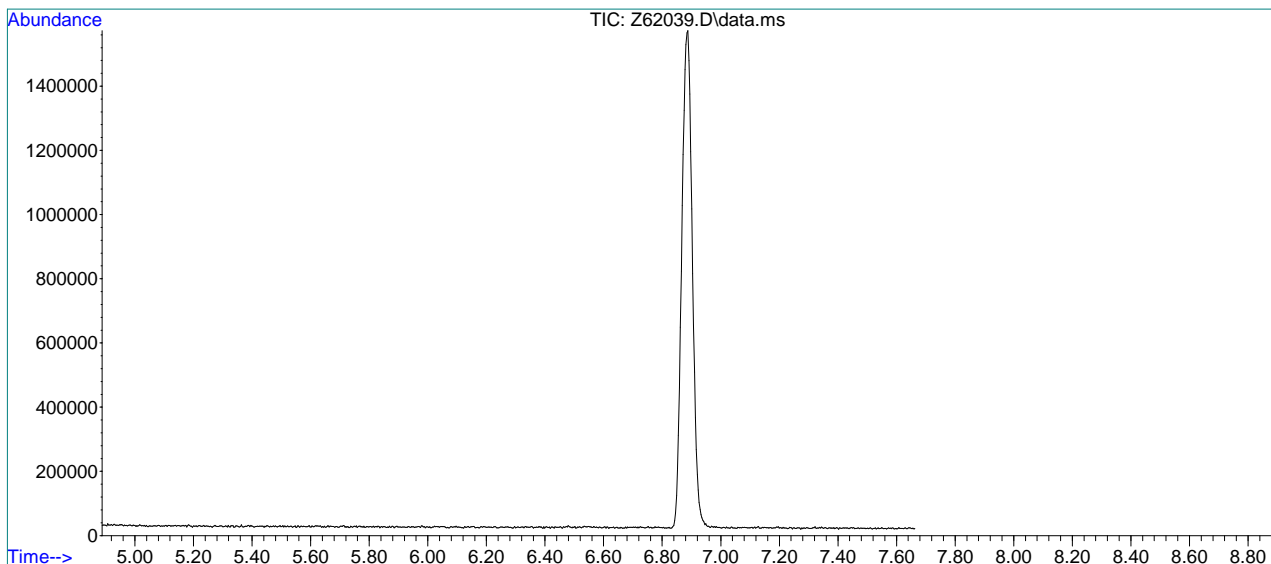


BFB

Data File : C:\msdchem\1\data\090320\Z62039.D  
 Acq On : 3 Sep 2020 9:29 am  
 Sample : BFB  
 Misc : MS46458,VZ2408,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: shanicao  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2114, 2115, 2116; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	66488	PASS
75	95	30	60	53.5	162304	PASS
95	95	100	100	100.0	303153	PASS
96	95	5	9	7.0	21238	PASS
173	174	0.00	2	0.5	1222	PASS
174	95	50	100	77.7	235477	PASS
175	174	5	9	6.8	16056	PASS
176	174	95	101	97.8	230208	PASS
177	176	5	9	6.8	15659	PASS

7.5.3  
7

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.30	52	45.80	167	56.00	5387	66.90	190
36.05	2773	46.05	183	57.00	9992	67.10	489
37.00	17718	47.05	3550	57.90	268	67.95	33363
38.05	14875	48.00	1840	58.20	136	68.95	35178
38.95	6224	49.00	13650	58.85	124	69.95	2763
40.00	334	50.00	66488	60.00	2916	71.20	99
41.00	107	51.00	20248	61.00	14791	71.95	1717
42.00	125	52.05	861	62.00	16361	73.00	14848
42.95	161	52.95	207	63.00	12571	74.00	56120
43.95	877	53.90	349	63.95	1178	75.00	162304
45.00	3127	55.05	1007	66.05	98	76.00	13465

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.00	1815	88.80	61	103.85	1339	114.85	649
77.90	720	90.95	1090	104.10	528	115.80	1564
78.90	11413	92.00	9313	104.85	445	116.85	2289
79.90	3660	93.00	12994	105.95	1740	117.90	1393
80.85	13619	94.00	36128	106.85	292	118.85	2352
81.90	2951	94.95	303153	107.20	159	119.90	68
82.95	278	95.95	21238	109.80	314	121.90	152
83.80	70	97.00	532	110.50	69	123.80	180
85.85	442	98.10	70	110.95	588	125.00	76
86.95	11103	102.70	96	111.95	227	125.90	236
87.95	10026	103.00	134	112.90	296	127.85	1308

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.95	377	139.75	271	148.85	182	155.90	165
129.80	432	140.85	3605	149.75	321	156.70	160
130.05	765	141.90	478	150.00	157	156.95	249
130.85	489	142.90	3996	150.80	112	158.00	152
131.90	186	143.80	187	151.80	268	158.80	237
133.85	274	144.10	61	152.90	320	159.00	202
134.80	216	145.00	433	153.85	141	160.75	310
135.00	602	145.90	383	154.10	123	165.10	50
135.85	140	146.70	72	154.60	122	167.10	115
136.90	757	147.00	206	154.80	203	167.70	52
138.70	65	147.85	763	155.05	591	171.90	71

Average of 6.884 to 6.891 min.: Z62039.D\data.ms

BFB

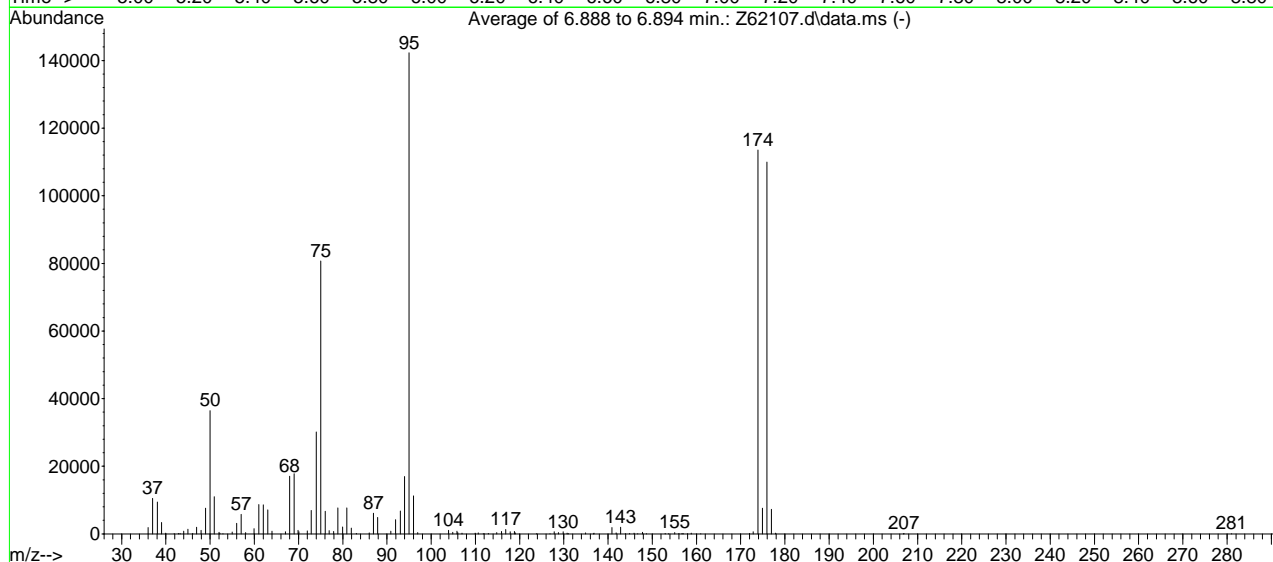
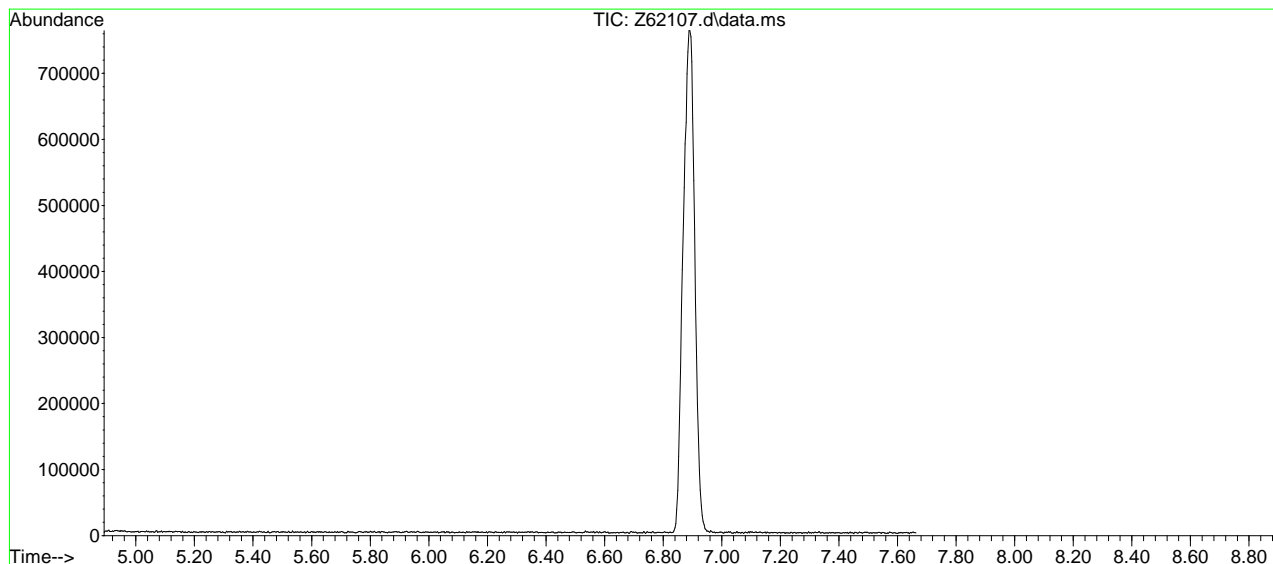
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.95	1222	214.70	76				
173.90	235477	281.00	82				
174.90	16056						
175.90	230208						
176.90	15659						
177.80	57						
178.00	304						
202.95	136						
206.85	258						
207.90	70						
211.00	61						

BFB

Data File : C:\msdchem\1\data\ed...-2020\ vz2410\Z62107.d Vial: 4  
 Acq On : 5 Sep 2020 10:58 am Operator: stutip  
 Sample : bfb Inst : MSVOA15  
 Misc : MS47134,VZ2410,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL090320.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2115, 2116, 2117; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.6	36405	PASS
75	95	30	60	56.7	80739	PASS
95	95	100	100	100.0	142272	PASS
96	95	5	9	7.9	11246	PASS
173	174	0.00	2	0.6	660	PASS
174	95	50	100	79.8	113523	PASS
175	174	5	9	6.7	7581	PASS
176	174	95	101	96.9	109995	PASS
177	176	5	9	6.6	7245	PASS

7.5.4  
7

Average of 6.888 to 6.894 min.: Z62107.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1854	46.95	1993	58.05	384	71.95	881
37.00	10511	47.95	1008	59.95	1497	72.90	6900
38.05	9414	49.00	7596	61.00	8663	74.00	30149
39.00	3384	50.00	36405	62.00	8584	75.00	80739
39.95	214	50.95	10965	63.05	7088	76.05	6711
41.85	29	52.00	426	64.00	792	76.95	996
42.80	130	52.20	177	67.05	627	77.95	740
43.20	110	52.90	64	68.00	17005	78.90	7645
44.00	797	55.00	571	69.00	17792	79.95	2028
44.95	1388	56.00	3098	69.90	1002	80.90	7680
46.05	131	57.00	5787	70.10	589	81.95	1722

Average of 6.888 to 6.894 min.: Z62107.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.05	135	103.90	1054	115.90	750	131.00	140
86.00	260	104.85	467	116.85	1293	134.90	282
86.95	6097	105.80	779	117.85	665	136.70	77
87.90	4880	106.00	368	118.80	749	136.85	244
90.90	780	107.00	180	119.00	315	140.85	1848
91.95	4225	109.95	196	123.80	63	141.85	285
93.00	6788	110.65	303	126.90	54	142.85	1928
93.95	16957	111.80	63	127.80	607	143.90	56
95.00	142272	112.00	71	128.75	387	144.85	156
96.00	11246	112.90	172	129.85	631	145.90	237
96.95	368	114.85	340	130.75	180	146.70	67

Average of 6.888 to 6.894 min.: Z62107.d\data.ms  
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.80	473	172.00	112				
148.70	58	172.85	660				
152.95	163	173.90	113523				
153.70	52	174.90	7581				
155.05	350	175.90	109995				
156.00	159	176.95	7245				
156.75	163	177.90	191				
157.00	98	206.80	78				
158.00	78	206.95	161				
158.80	177	281.00	53				
161.00	81						

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 04 07:17:37 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.352	96	397398	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	268429	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.080	65	170781	5.55	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	111.00%	
19) Toluene-d8	8.900	98	303457	5.09	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	101.80%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.916	62	4541	0.12	ug/L	95
3) Chloromethane	2.818	50	8726m	0.14	ug/L	
4) 1,1-Dichloroethene	4.104	61	3228	0.08	ug/L	86
5) Methylene Chloride	4.707	49	58567	0.59	ug/L	93
6) trans-1,2-Dichloroethene	4.877	61	4017	0.09	ug/L	94
7) 1,1-Dichloroethane	5.510	63	5008	0.08	ug/L	97
8) cis-1,2-Dichloroethene	6.078	96	2752	0.09	ug/L	82
9) Chloroform	6.333	83	5824	0.10	ug/L #	66
10) Carbon Tetrachloride	6.511	117	3230m	0.09	ug/L	
11) 1,1,1-Trichloroethane	6.588	97	3942	0.10	ug/L	88
12) Benzene	6.943	78	9305m	0.09	ug/L	
14) 1,2-Dichloroethane	7.139	62	4111	0.09	ug/L	91
15) Trichloroethene	7.518	95	2539	0.08	ug/L	86
16) 1,2-Dichloropropane	8.044	63	2642m	0.08	ug/L	
17) cis-1,3-Dichloropropene	8.715	75	2295	0.06	ug/L	75
20) trans-1,3-Dichloropropene	9.349	75	2320	0.07	ug/L	83
21) Tetrachloroethene	9.343	166	2164m	0.08	ug/L	
22) 1,4-Dichlorobenzene	12.827	146	3621	0.06	ug/L	94
23) 1,2-Dibromo-3-Chloropr...	14.038	75	1204m	0.11	ug/L	

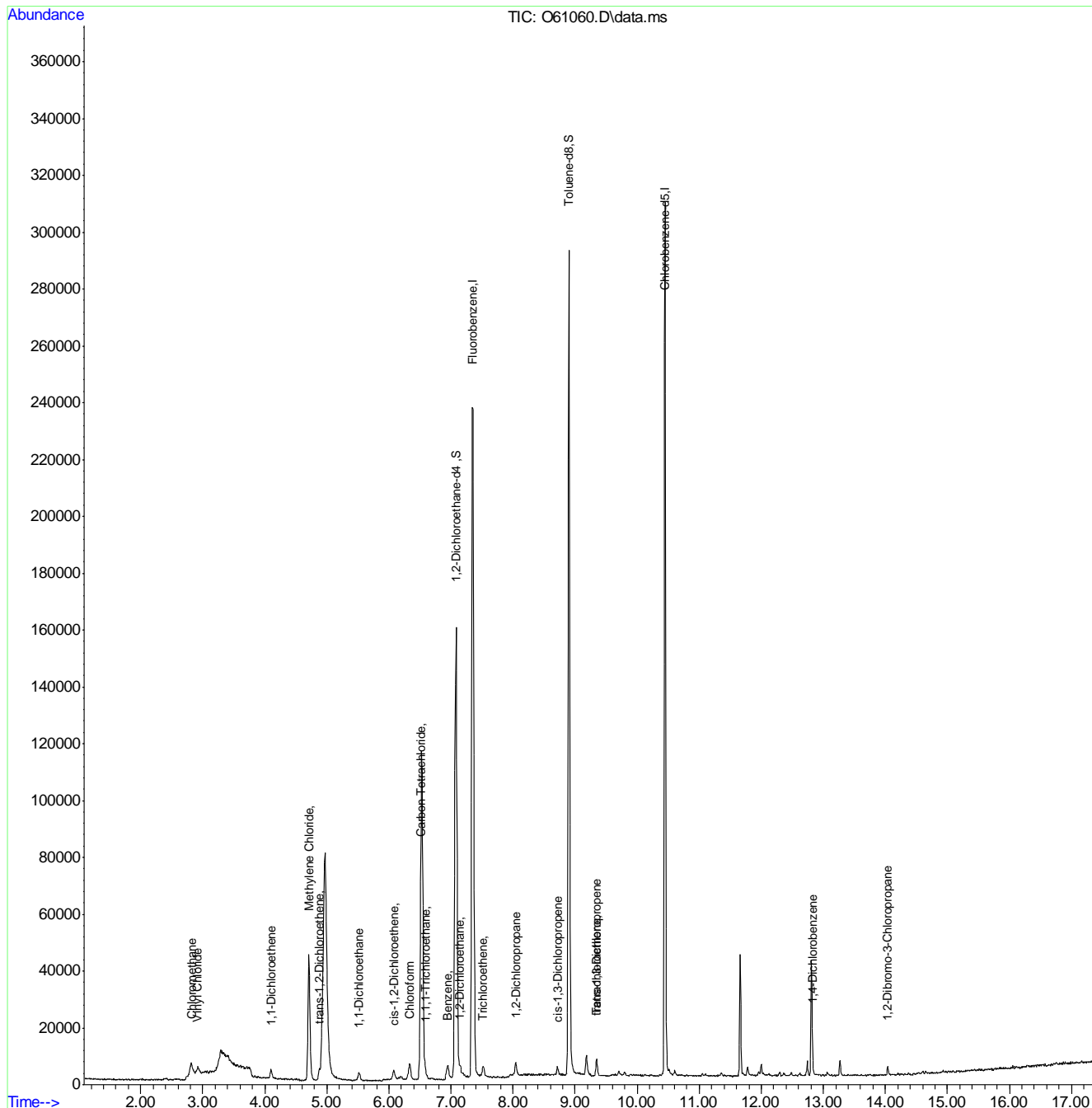
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:17:37 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



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# Manual Integration Approval Summary

**Sample Number:** VO2349-IC2349      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61060.D      **Analyst approved:** 09/04/20 13:57 Shanica O'Connor  
**Injection Time:** 09/03/20 12:47      **Supervisor approved:** 09/04/20 14:41 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.82	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.51	Poor instrument integration
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloroethane	107-06-2		7.14	Poor instrument integration
1,2-Dichloropropane	78-87-5		8.04	Poor instrument integration
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration
1,2-Dibromo-3-chloropropane	96-12-8		14.04	Missed peak

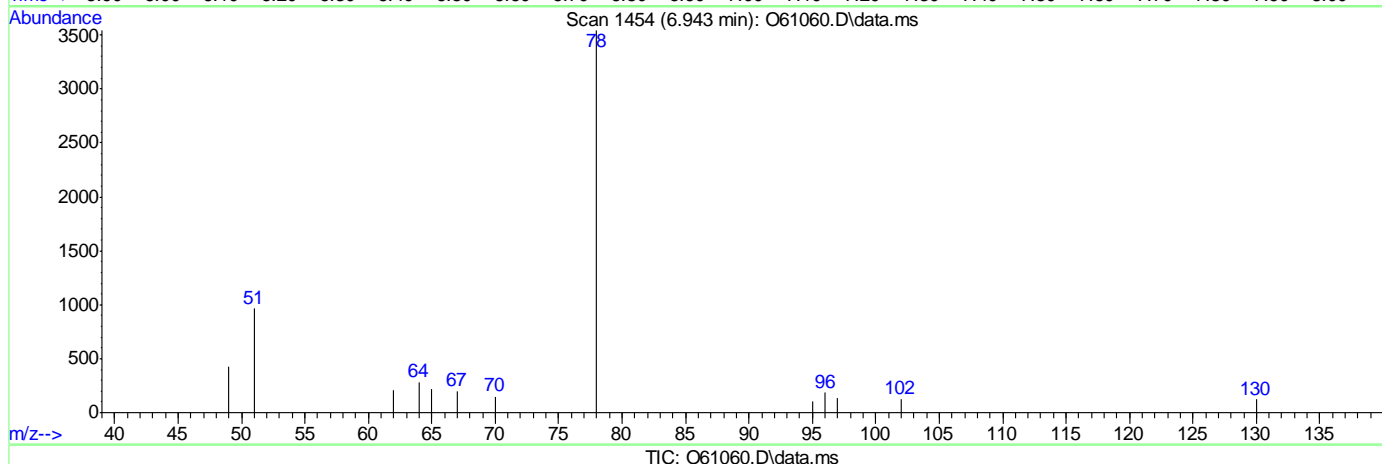
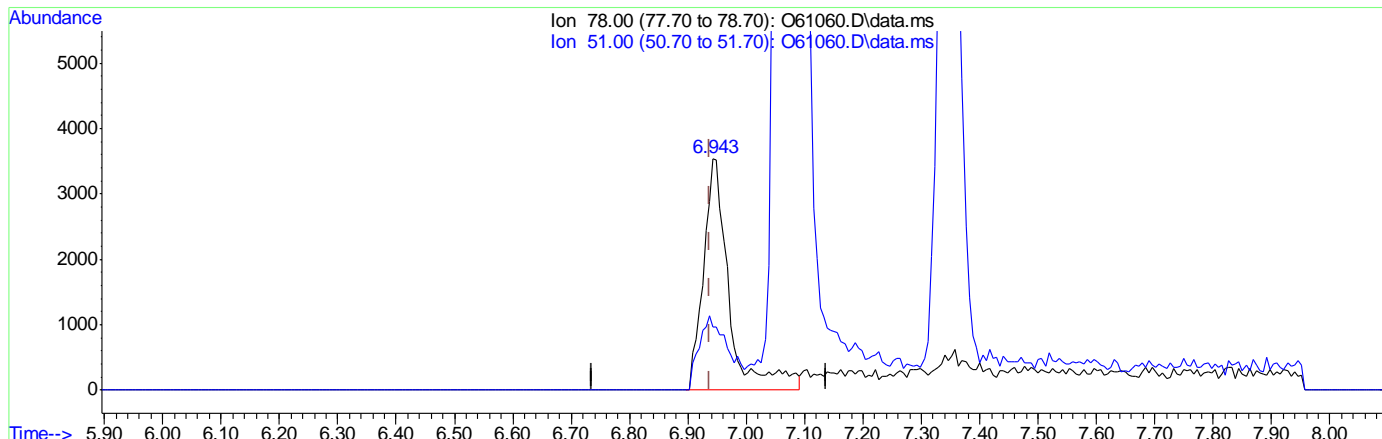
7.6.1.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.006) 0.11ug/L

response 10780

Ion	Exp%	Act%
78.00	100	100
51.00	26.50	27.15
0.00	0.00	0.00
0.00	0.00	0.00

7.6.1.2  
7

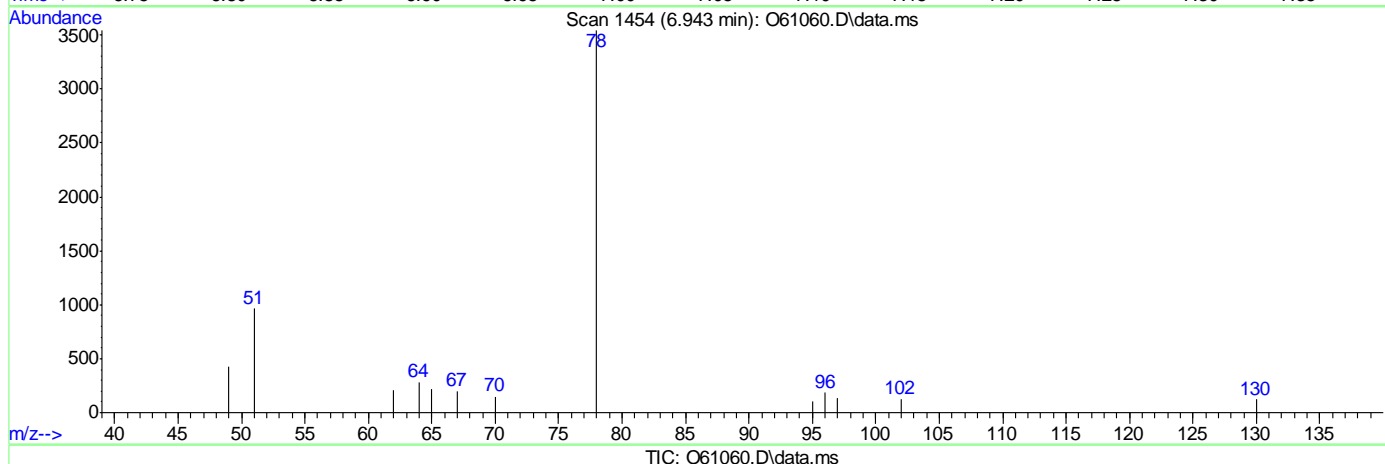
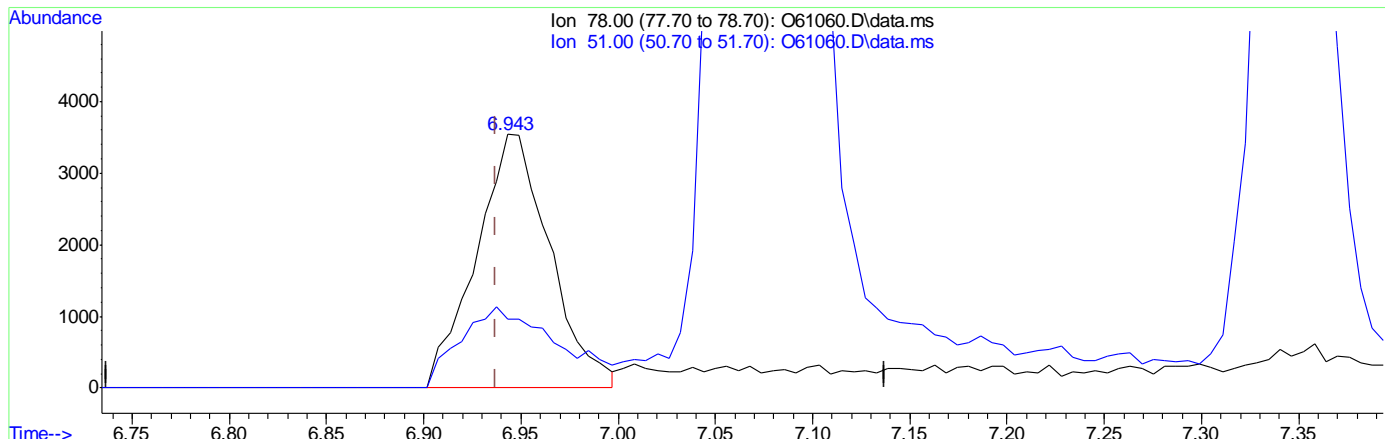


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.006) 0.09ug/L m

response 9305

Ion	Exp%	Act%
78.00	100	100
51.00	26.50	27.15
0.00	0.00	0.00
0.00	0.00	0.00

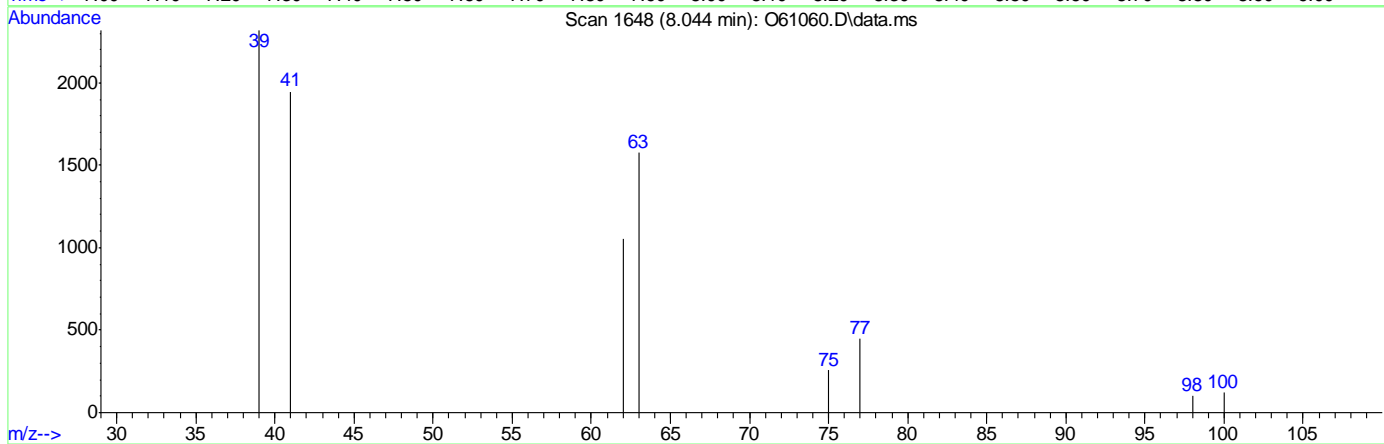
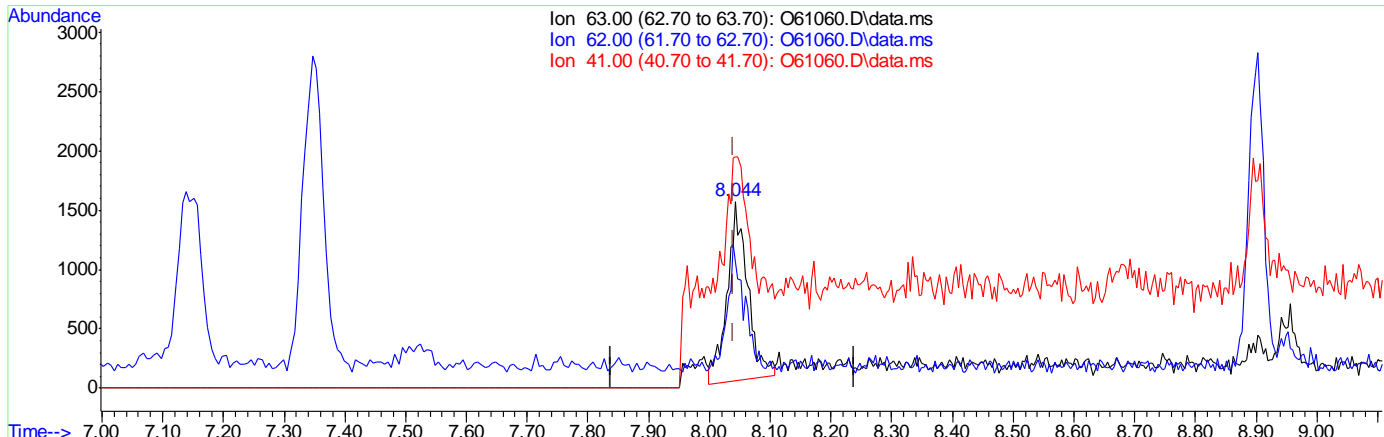
7.6.1.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



TIC: O61060.D\data.ms

(16) 1,2-Dichloropropane  
 8.044min (+0.004) 0.10ug/L  
 response 3471

Ion	Exp%	Act%
63.00	100	100
62.00	73.10	64.10
41.00	84.00	85.15
0.00	0.00	0.00

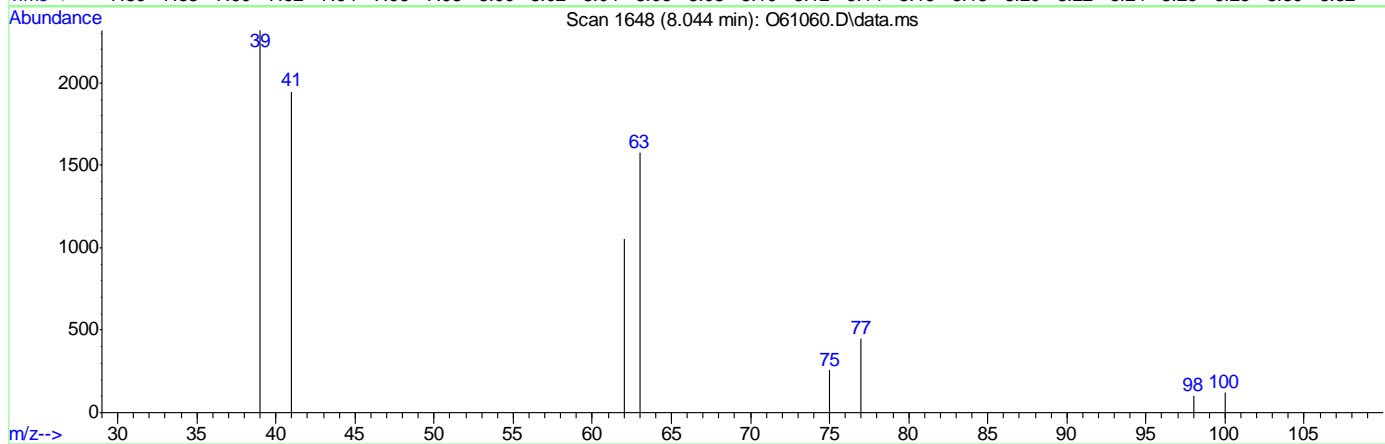
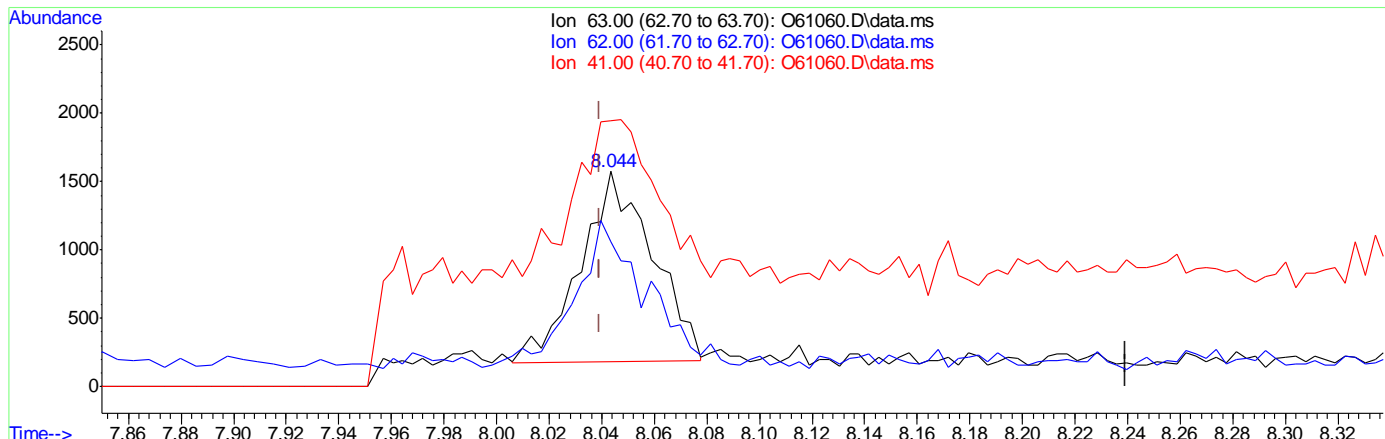
7.6.1.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



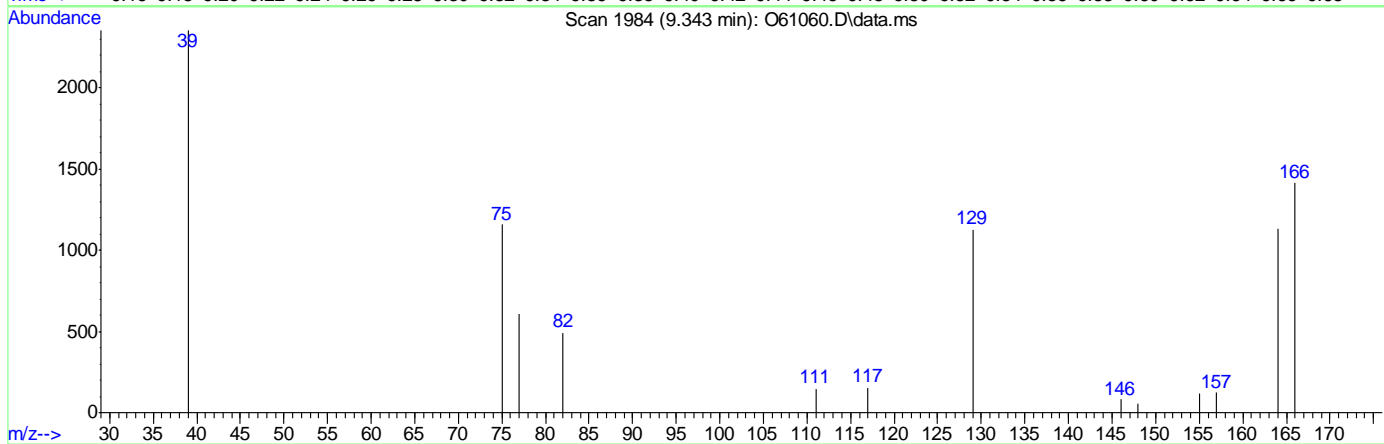
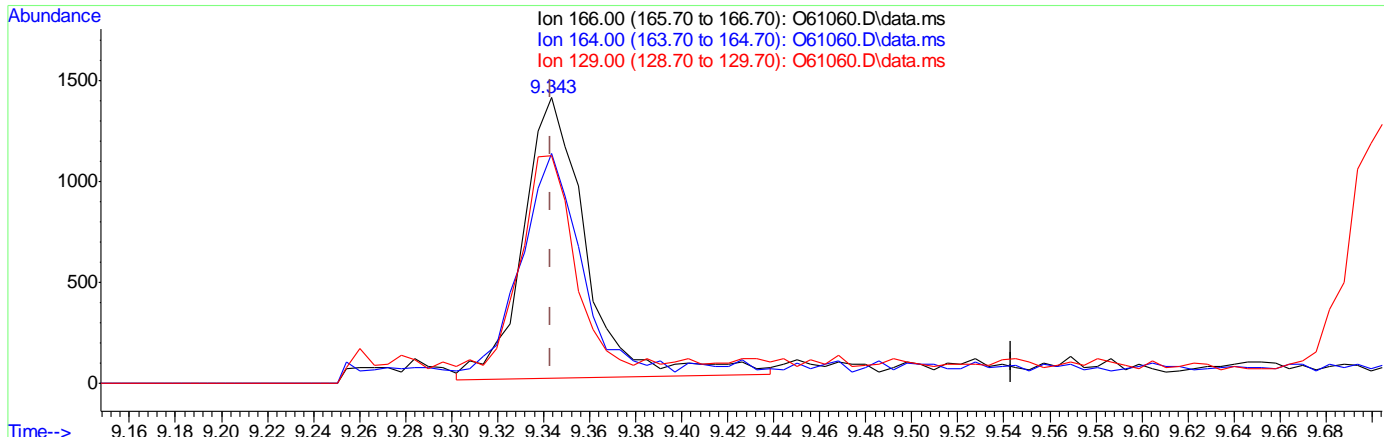
(16) 1,2-Dichloropropane  
 8.044min (+0.004) 0.08ug/L m  
 response 2642

Ion	Exp%	Act%
63.00	100	100
62.00	73.10	67.15
41.00	84.00	123.63#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 04 07:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )  
 9.343min (+0.000) 0.09ug/L  
 response 2671

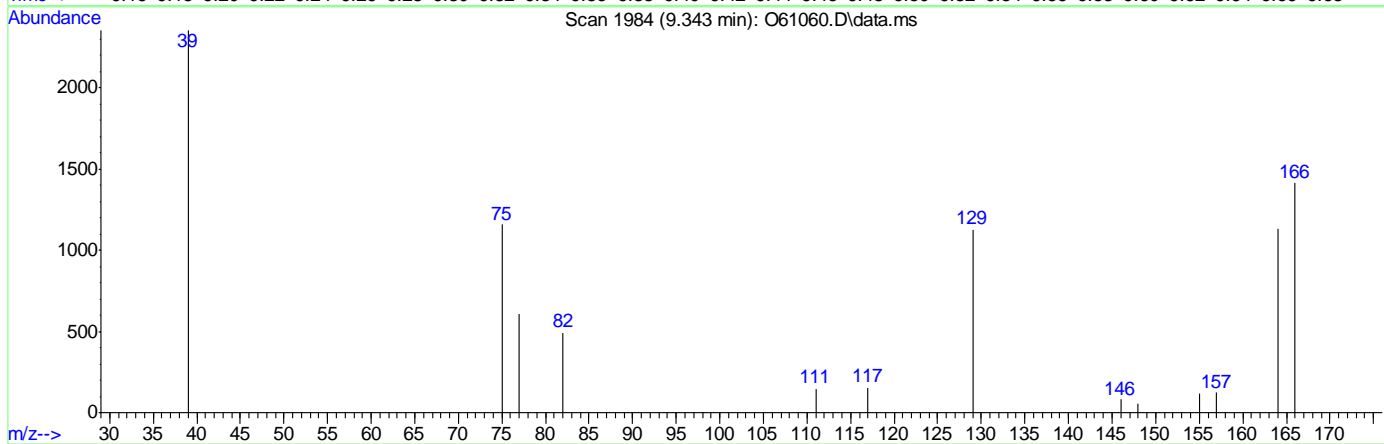
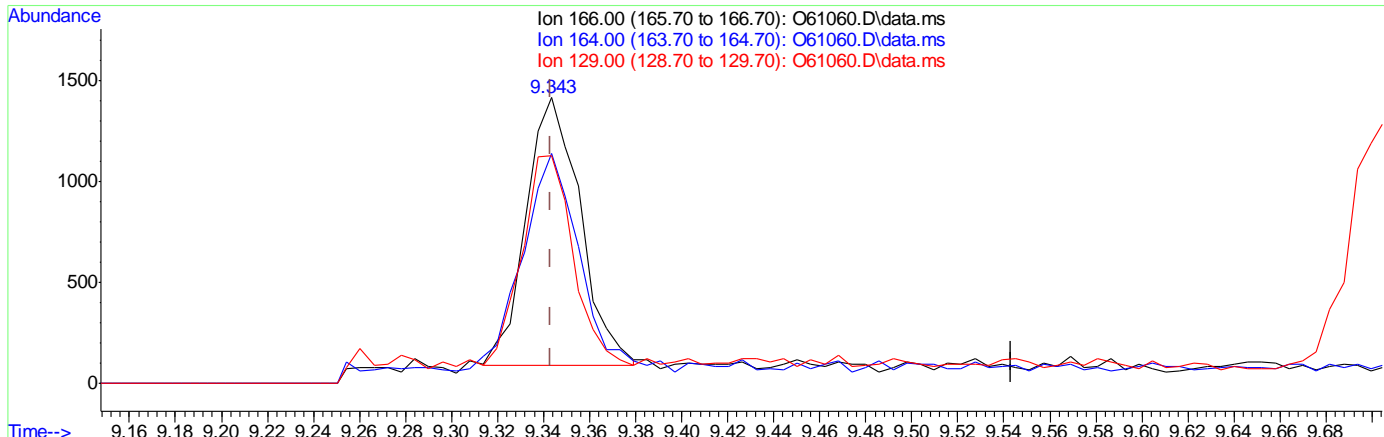
Ion	Exp%	Act%
166.00	100	100
164.00	76.80	78.87
129.00	67.20	76.89
0.00	0.00	0.00

7.6.1.6  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 04 07:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )  
 9.343min (+0.000) 0.08ug/L m  
 response 2164

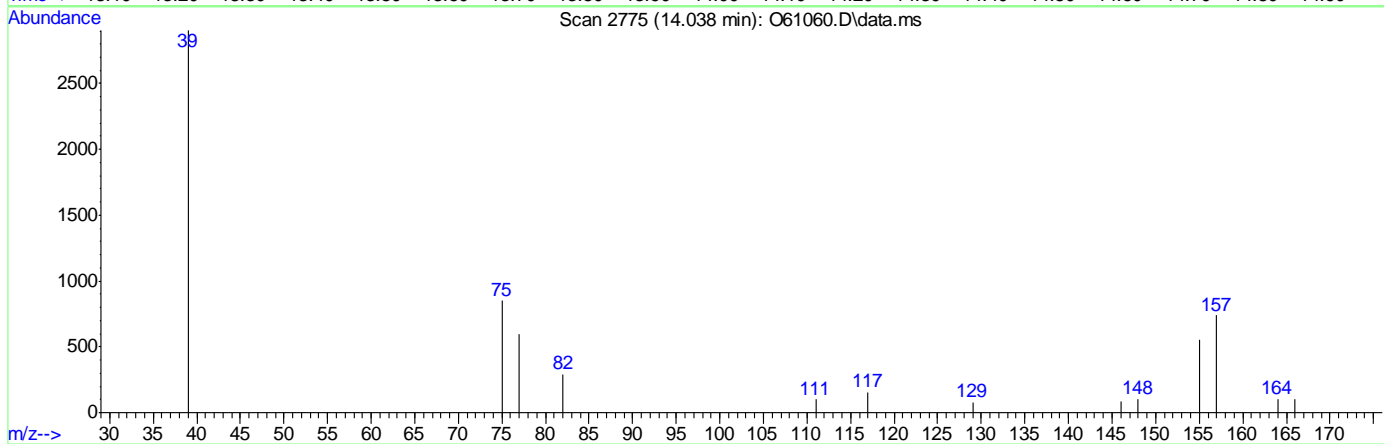
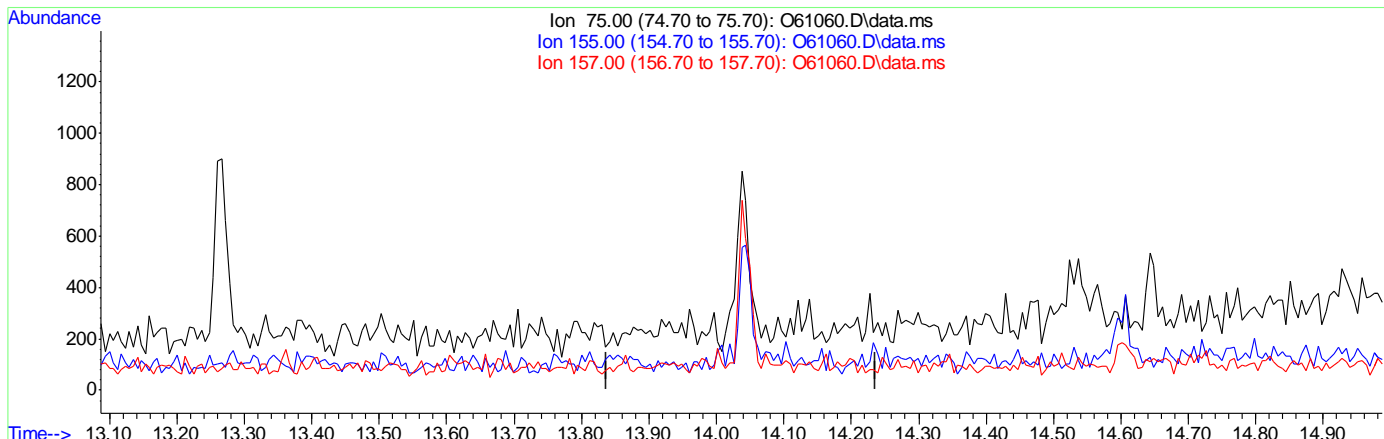
Ion	Exp%	Act%
166.00	100	100
164.00	76.80	80.25
129.00	67.20	79.83
0.00	0.00	0.00

7.6.1.7  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 04 07:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.037min (-14.037) 0.00ug/L

response 0

Ion	Exp%	Act%
75.00	100	0.00
155.00	90.10	0.00#
157.00	109.00	0.00#
0.00	0.00	0.00

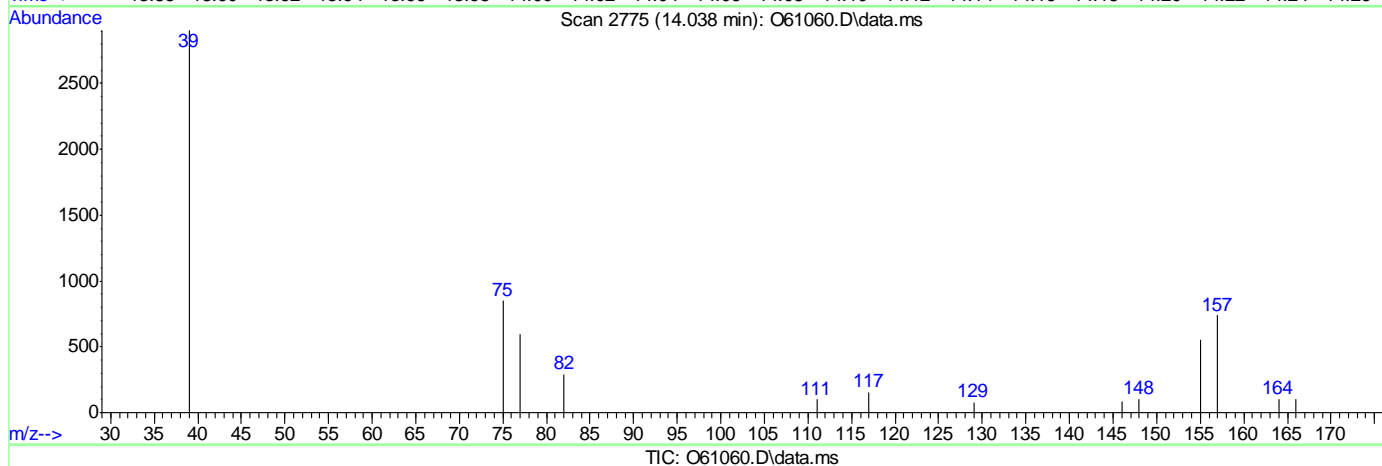
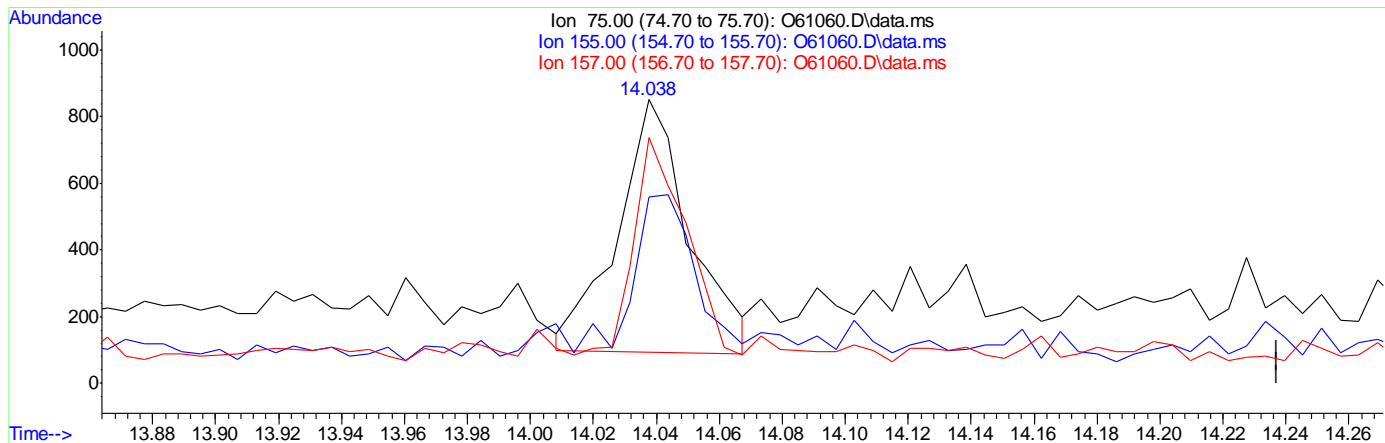
7.6.1.8  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61060.D  
 Acq On : 3 Sep 2020 12:47 pm  
 Operator : akarig  
 Sample : IC2349-1  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:17 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.038min (+0.000) 0.11ug/L m

response 1204

Ion	Exp%	Act%
75.00	100	100
155.00	90.10	65.57#
157.00	109.00	86.72#
0.00	0.00	0.00

7.6.1.9  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61061.D  
 Acq On : 3 Sep 2020 1:08 pm  
 Operator : akarig  
 Sample : IC2349-2 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 04 07:17:54 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.352	96	398033	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	259530	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.080	65	166631	5.40	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	108.00%		
19) Toluene-d8	8.900	98	295269	5.13	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	102.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.920	62	26398	0.71	ug/L		99
3) Chloromethane	2.814	50	46025m	0.76	ug/L		
4) 1,1-Dichloroethene	4.100	61	25473	0.64	ug/L		97
5) Methylene Chloride	4.711	49	97907	0.99	ug/L		94
6) trans-1,2-Dichloroethene	4.881	61	29109	0.63	ug/L		96
7) 1,1-Dichloroethane	5.518	63	37467	0.63	ug/L		95
8) cis-1,2-Dichloroethene	6.072	96	18936	0.60	ug/L		92
9) Chloroform	6.339	83	37634	0.62	ug/L		96
10) Carbon Tetrachloride	6.517	117	21399	0.61	ug/L		98
11) 1,1,1-Trichloroethane	6.582	97	25076	0.61	ug/L		95
12) Benzene	6.949	78	60554	0.61	ug/L		100
14) 1,2-Dichloroethane	7.145	62	28120	0.59	ug/L		98
15) Trichloroethene	7.524	95	19575	0.58	ug/L		96
16) 1,2-Dichloropropane	8.043	63	20232	0.59	ug/L		91
17) cis-1,3-Dichloropropene	8.715	75	17678	0.48	ug/L		93
20) trans-1,3-Dichloropropene	9.349	75	16543	0.48	ug/L		97
21) Tetrachloroethene	9.343	166	17731	0.65	ug/L		98
22) 1,4-Dichlorobenzene	12.827	146	29181	0.52	ug/L		96
23) 1,2-Dibromo-3-Chloropr...	14.038	75	5797	0.54	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

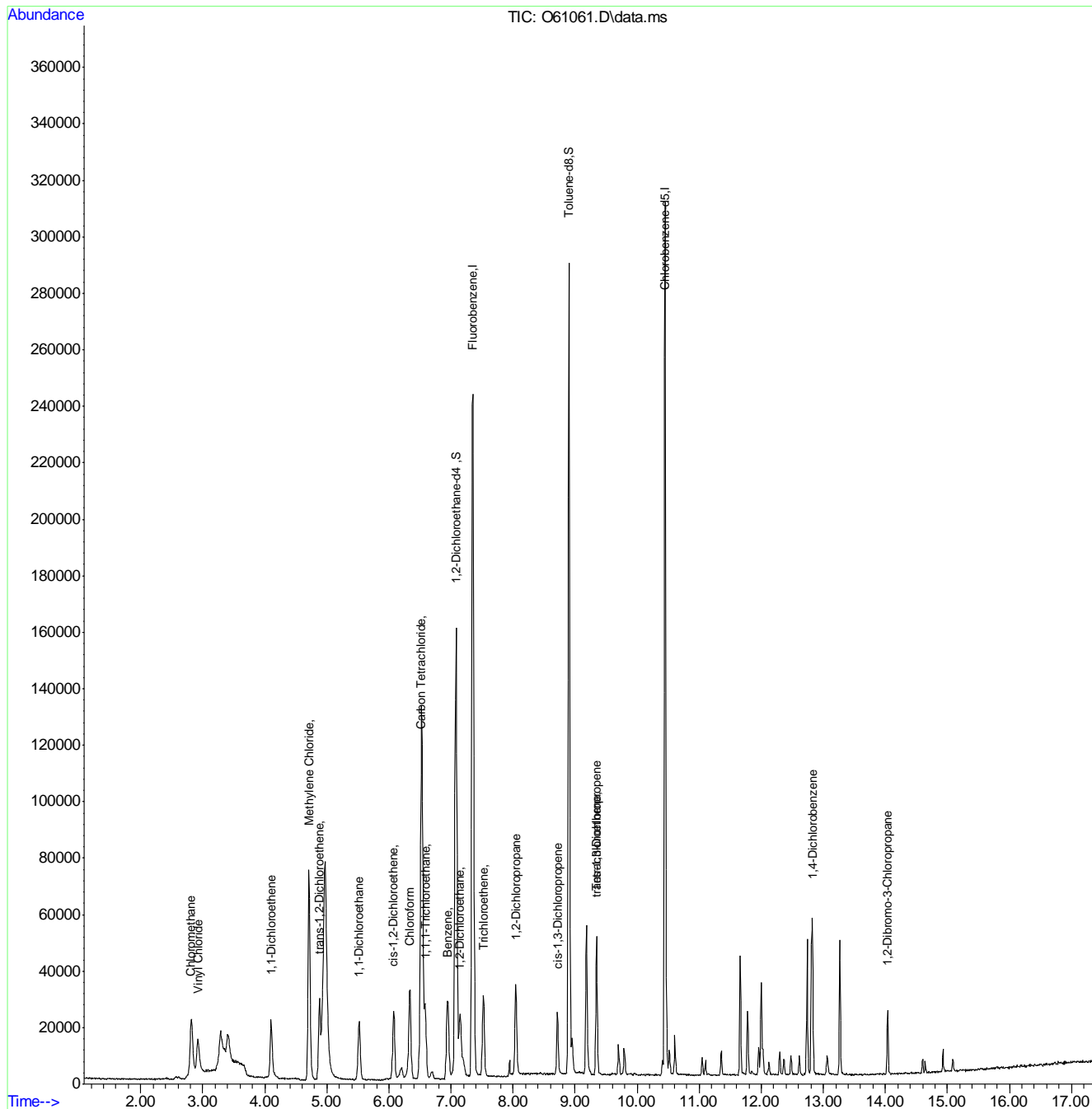


## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : 061061.D  
 Acq On : 3 Sep 2020 1:08 pm  
 Operator : akarig  
 Sample : IC2349-2  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:17:54 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2349-IC2349      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61061.D      **Analyst approved:** 09/04/20 13:57 Shanica O'Connor  
**Injection Time:** 09/03/20 13:08      **Supervisor approved:** 09/04/20 14:41 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.81	Poor instrument integration

7.6.2.1

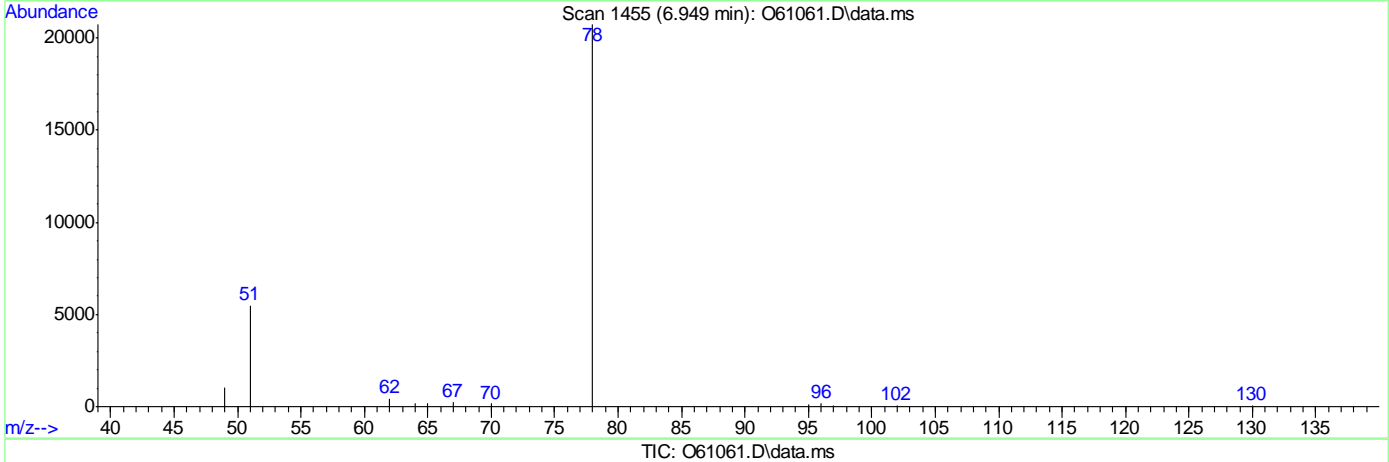
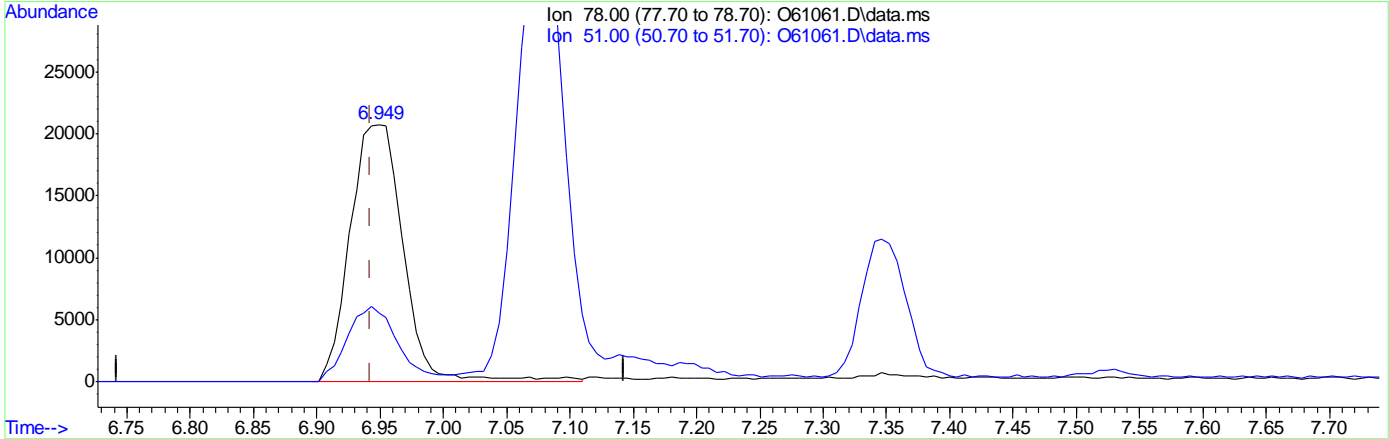
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61061.D  
 Acq On : 3 Sep 2020 1:08 pm  
 Operator : akarig  
 Sample : IC2349-2  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 06:51:45 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 06:51:45 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.949min (+0.006) 0.56ug/L  
 response 60554

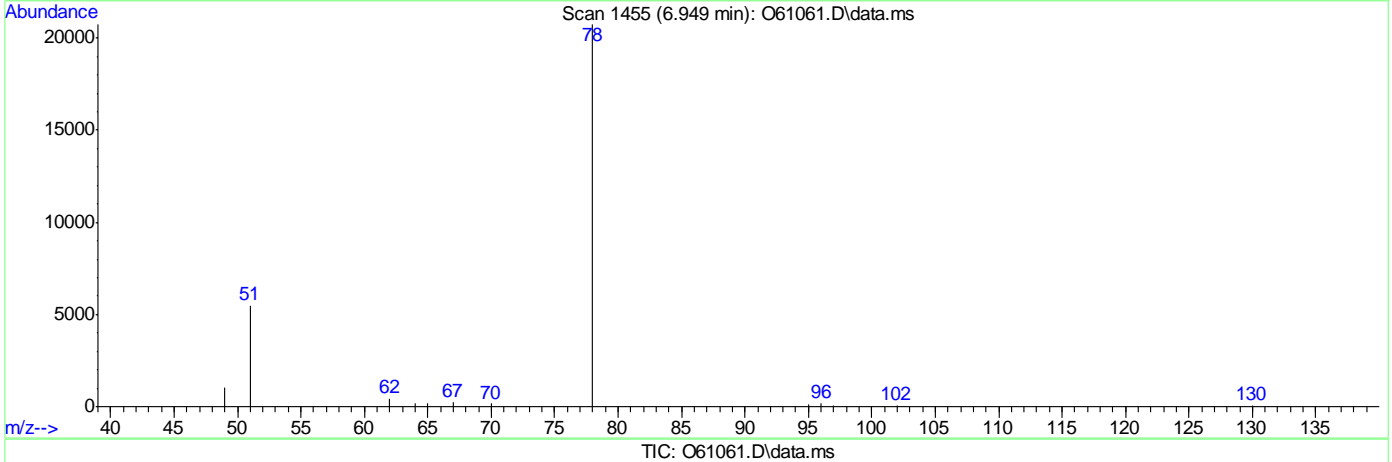
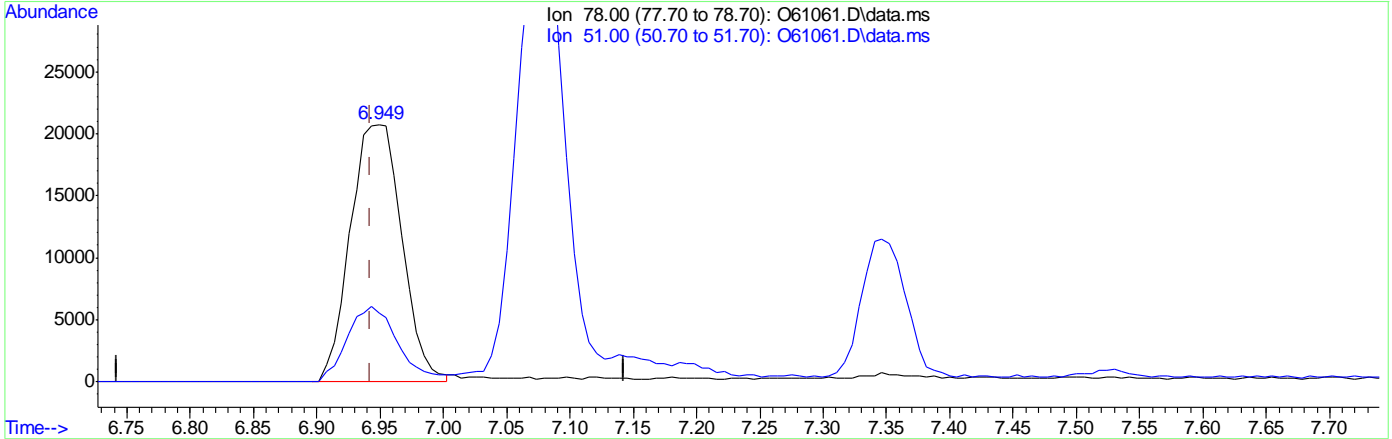
Ion	Exp%	Act%
78.00	100	100
51.00	26.50	26.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61061.D  
 Acq On : 3 Sep 2020 1:08 pm  
 Operator : akarig  
 Sample : IC2349-2  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 06:51:45 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 06:51:45 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.949min (+0.006) 0.54ug/L m  
 response 58505

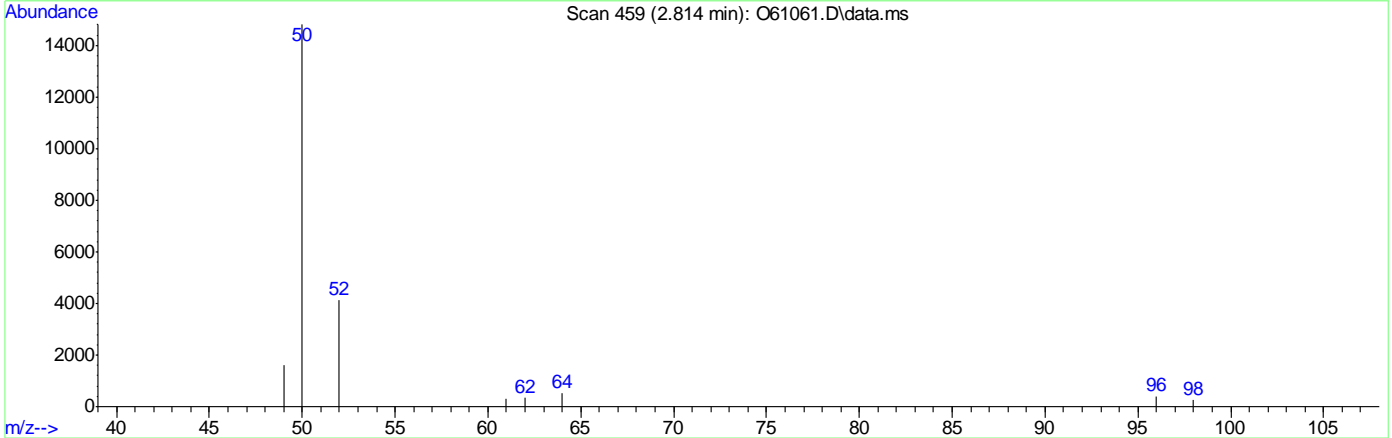
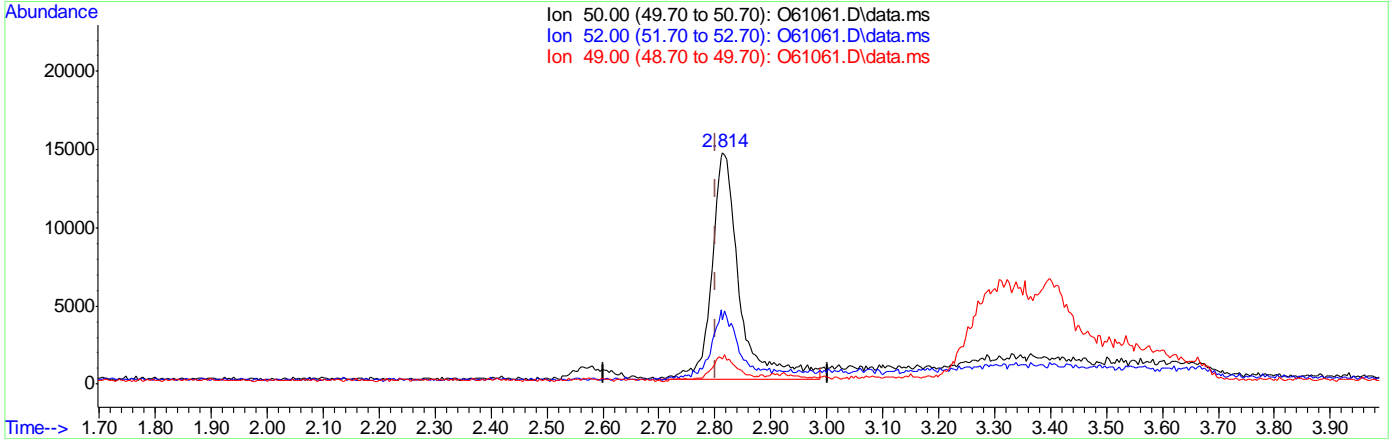
Ion	Exp%	Act%
78.00	100	100
51.00	26.50	26.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61061.D  
 Acq On : 3 Sep 2020 1:08 pm  
 Operator : akarig  
 Sample : IC2349-2  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:19 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



TIC: O61061.D\data.ms

(3) Chloromethane  
 2.814min (+0.012) 0.82ug/L  
 response 50215

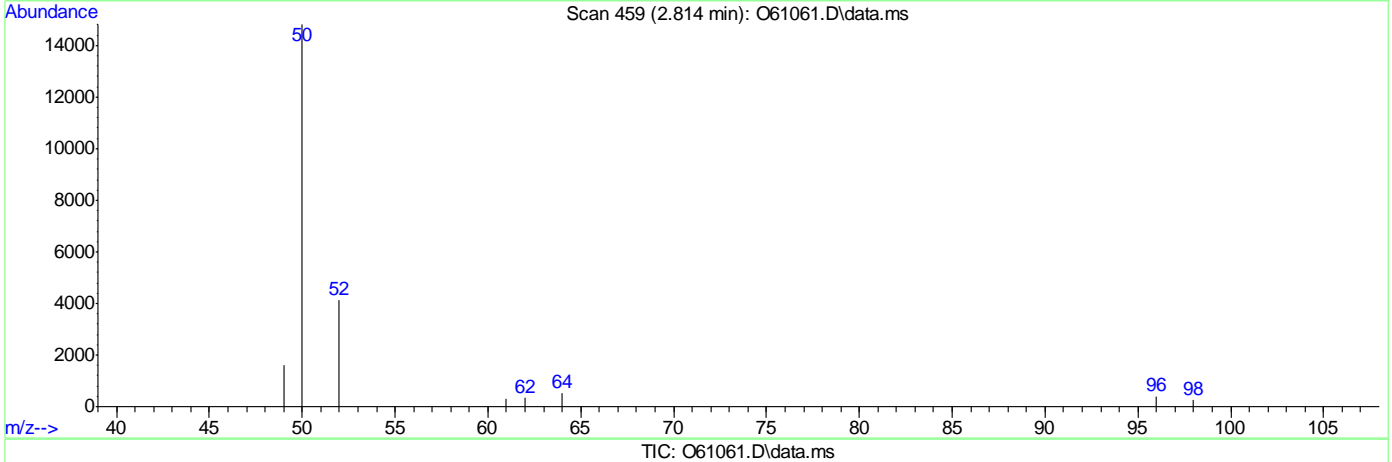
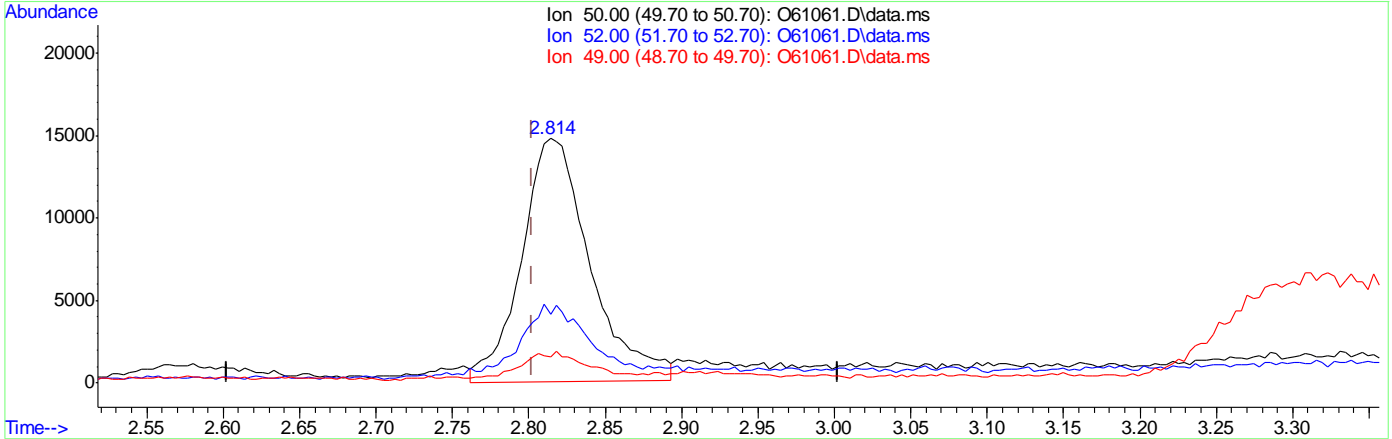
Ion	Exp%	Act%
50.00	100	100
52.00	28.70	26.17
49.00	9.90	9.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61061.D  
 Acq On : 3 Sep 2020 1:08 pm  
 Operator : akarig  
 Sample : IC2349-2  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:19 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.814min (+0.012) 0.76ug/L m

response 46025

Ion	Exp%	Act%
50.00	100	100
52.00	28.70	27.88
49.00	9.90	10.72
0.00	0.00	0.00

7.6.2.5  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61063.D  
 Acq On : 3 Sep 2020 1:58 pm  
 Operator : akarig  
 Sample : IC2349-4 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 04 07:19:21 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	460561	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	320289	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	178008m	4.99	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.80%	
19) Toluene-d8	8.900	98	338698	4.76	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.20%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.908	62	298761	7.48	ug/L	100
3) Chloromethane	2.803	50	460960	7.23	ug/L	99
4) 1,1-Dichloroethene	4.089	61	294597	6.41	ug/L	99
5) Methylene Chloride	4.703	49	581583	5.44	ug/L	98
6) trans-1,2-Dichloroethene	4.869	61	339146	6.31	ug/L	99
7) 1,1-Dichloroethane	5.510	63	422863	6.19	ug/L	99
8) cis-1,2-Dichloroethene	6.066	96	217811	5.92	ug/L	99
9) Chloroform	6.333	83	425320	6.02	ug/L	99
10) Carbon Tetrachloride	6.511	117	253244	6.24	ug/L	98
11) 1,1,1-Trichloroethane	6.576	97	299792	6.26	ug/L	96
12) Benzene	6.943	78	678615	5.94	ug/L	99
14) 1,2-Dichloroethane	7.139	62	324586	5.87	ug/L	97
15) Trichloroethene	7.518	95	240415	6.14	ug/L	97
16) 1,2-Dichloropropane	8.044	63	231790	5.83	ug/L	98
17) cis-1,3-Dichloropropene	8.715	75	237737	5.35	ug/L	99
20) trans-1,3-Dichloropropene	9.343	75	242789	5.38	ug/L	98
21) Tetrachloroethene	9.343	166	207272	6.16	ug/L	97
22) 1,4-Dichlorobenzene	12.827	146	396493	5.58	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.038	75	75733	5.42	ug/L	97

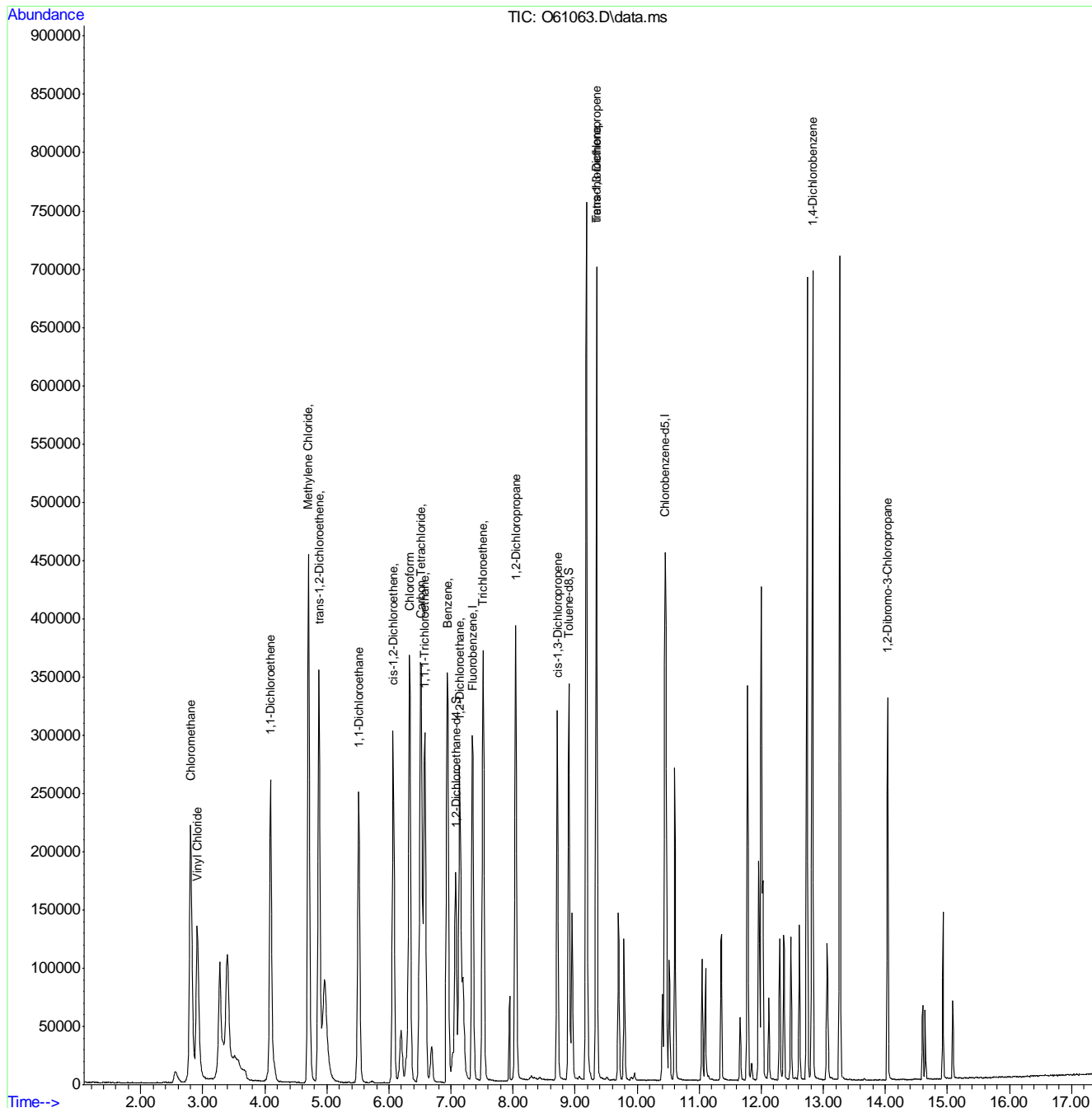
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61063.D  
 Acq On : 3 Sep 2020 1:58 pm  
 Operator : akarig  
 Sample : IC2349-4  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:19:21 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



7.6.3  
7



# Manual Integration Approval Summary

**Sample Number:** VO2349-IC2349      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61063.D      **Analyst approved:** 09/04/20 13:57 Shanica O'Connor  
**Injection Time:** 09/03/20 13:58      **Supervisor approved:** 09/04/20 14:41 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichloroethane-D4	17060-07-0		7.07	Poor instrument integration

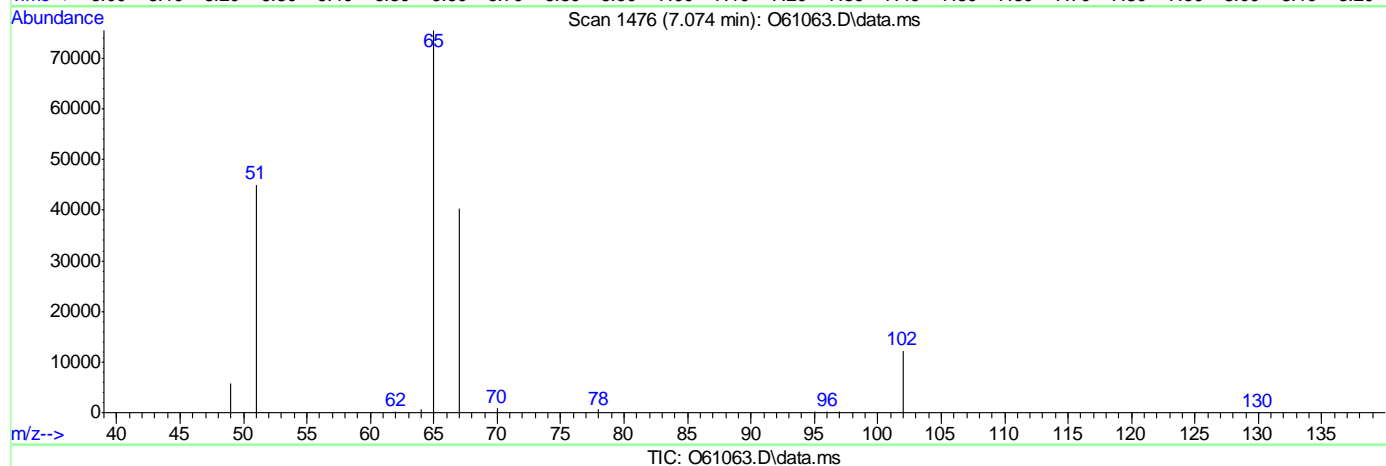
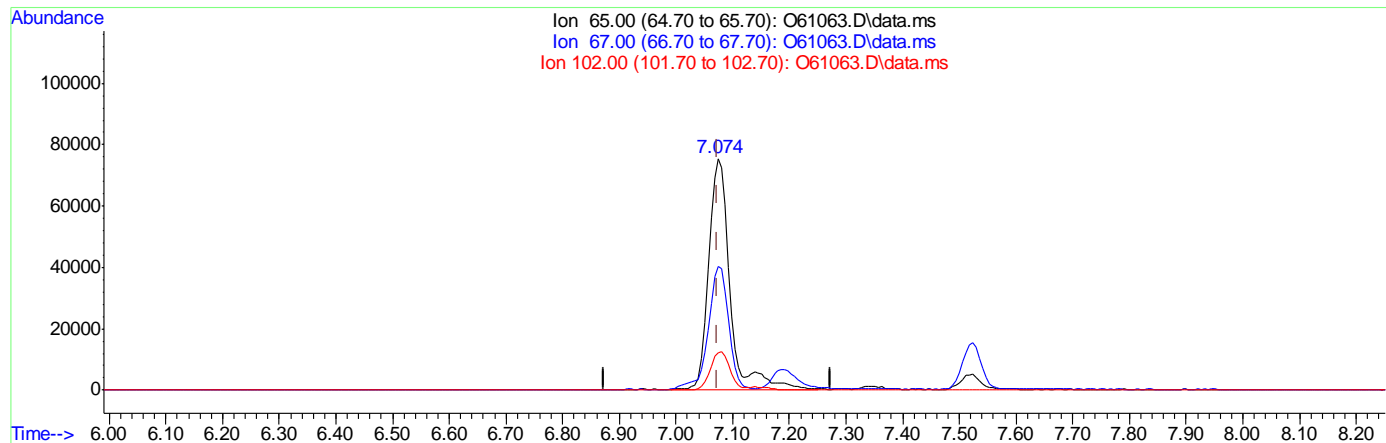
7.6.3.1

7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61063.D  
 Acq On : 3 Sep 2020 1:58 pm  
 Operator : akarig  
 Sample : IC2349-4 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 04 07:15:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.074min (+0.001) 5.53ug/L

response 197393

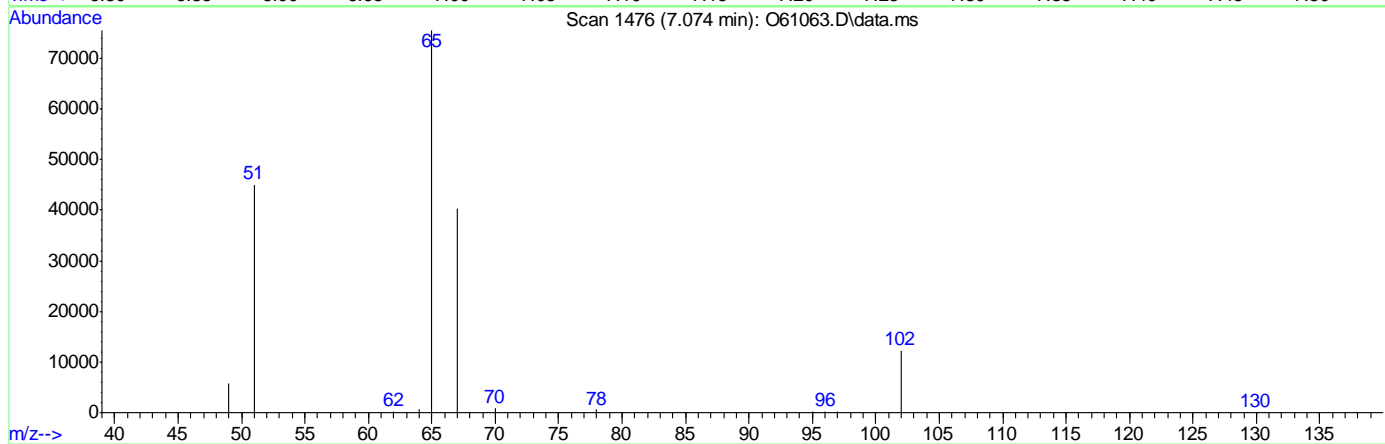
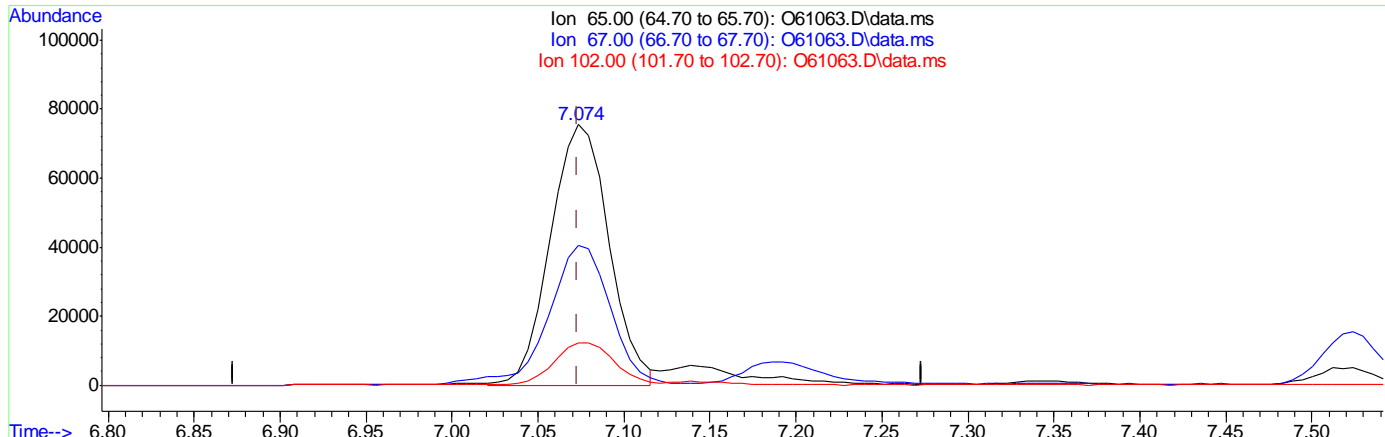
Ion	Exp%	Act%
65.00	100	100
67.00	50.80	53.10
102.00	16.90	16.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61063.D  
 Acq On : 3 Sep 2020 1:58 pm  
 Operator : akarig  
 Sample : IC2349-4  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.074min (+0.001) 4.99ug/L m

response 178008

Ion	Exp%	Act%
65.00	100	100
67.00	50.80	53.48
102.00	16.90	16.20
0.00	0.00	0.00

7.63.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61064.D  
 Acq On : 3 Sep 2020 2:24 pm  
 Operator : akarig  
 Sample : ICC2349-5 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 04 07:15:25 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration

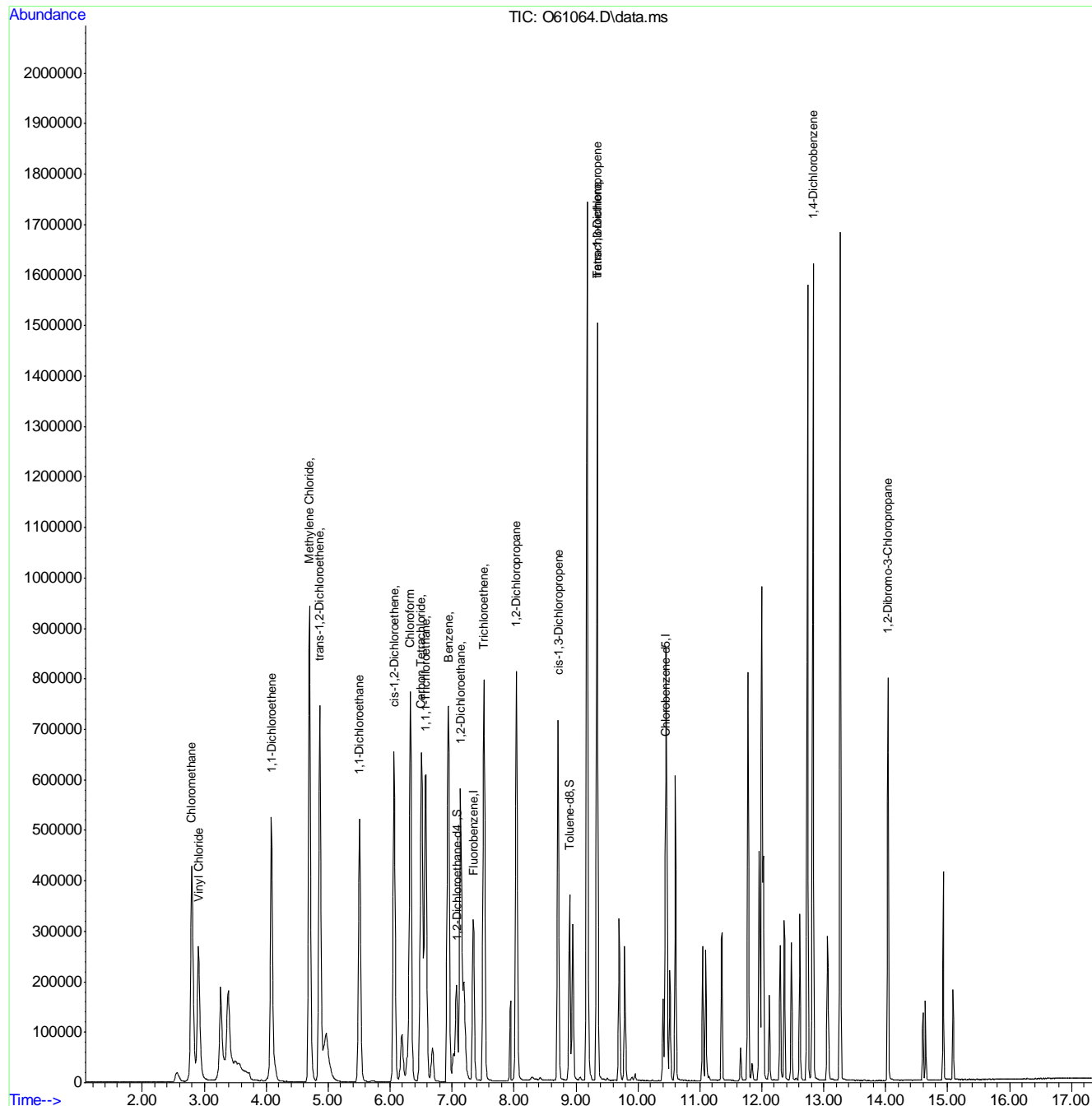
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	511497	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	358164	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	195563	4.93	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.60%	
19) Toluene-d8	8.900	98	379791	4.78	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.60%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.908	62	563756	13.72	ug/L	100
3) Chloromethane	2.799	50	877956	13.93	ug/L	98
4) 1,1-Dichloroethene	4.085	61	599143	11.73	ug/L	98
5) Methylene Chloride	4.696	49	1202693	11.18	ug/L	98
6) trans-1,2-Dichloroethene	4.865	61	710291	11.90	ug/L	98
7) 1,1-Dichloroethane	5.506	63	888513	11.71	ug/L	100
8) cis-1,2-Dichloroethene	6.066	96	476857	11.67	ug/L	99
9) Chloroform	6.327	83	906104	11.54	ug/L	98
10) Carbon Tetrachloride	6.504	117	527410	11.70	ug/L	98
11) 1,1,1-Trichloroethane	6.570	97	626465	11.77	ug/L	97
12) Benzene	6.943	78	1448322	11.41	ug/L	99
14) 1,2-Dichloroethane	7.139	62	710969	11.57	ug/L	99
15) Trichloroethene	7.512	95	522595	12.02	ug/L	99
16) 1,2-Dichloropropane	8.040	63	501199	11.34	ug/L	99
17) cis-1,3-Dichloropropene	8.711	75	556772	10.79	ug/L	98
20) trans-1,3-Dichloropropene	9.343	75	573146	10.74	ug/L	99
21) Tetrachloroethene	9.343	166	419212	11.14	ug/L	100
22) 1,4-Dichlorobenzene	12.827	146	906043	11.11	ug/L	100
23) 1,2-Dibromo-3-Chloropr...	14.037	75	183196	11.09	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : 061064.D  
 Acq On : 3 Sep 2020 2:24 pm  
 Operator : akarig  
 Sample : ICc2349-5 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 04 07:15:25 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61066.D  
 Acq On : 3 Sep 2020 3:26 pm  
 Operator : akarig  
 Sample : IC2349-7 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 04 07:15:29 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	660099	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	453800	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	246152	4.81	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	96.20%	
19) Toluene-d8	8.896	98	491744	4.88	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	97.60%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.912	62	1360715	35.59	ug/L	98
3) Chloromethane	2.807	50	2016158	Below	Cal	99
4) 1,1-Dichloroethene	4.085	61	1523948	23.12	ug/L	96
5) Methylene Chloride	4.700	49	2619287	25.45	ug/L	100
6) trans-1,2-Dichloroethene	4.865	61	1800526	23.37	ug/L	98
7) 1,1-Dichloroethane	5.510	63	2166260	22.13	ug/L	99
8) cis-1,2-Dichloroethene	6.066	96	1220508	23.14	ug/L	99
9) Chloroform	6.333	83	2239939	22.11	ug/L	98
10) Carbon Tetrachloride	6.505	117	1437110	24.70	ug/L	98
11) 1,1,1-Trichloroethane	6.576	97	1688498	24.59	ug/L	100
12) Benzene	6.943	78	3705248	22.62	ug/L	96
14) 1,2-Dichloroethane	7.139	62	1698675	21.43	ug/L	99
15) Trichloroethene	7.512	95	1401741	24.98	ug/L	100
16) 1,2-Dichloropropane	8.044	63	1247431	21.88	ug/L	95
17) cis-1,3-Dichloropropene	8.711	75	1510659	20.97	ug/L	97
20) trans-1,3-Dichloropropene	9.343	75	1553577	20.79	ug/L	94
21) Tetrachloroethene	9.338	166	1121992	23.54	ug/L	91
22) 1,4-Dichlorobenzene	12.827	146	2341242	21.62	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.038	75	470213	20.57	ug/L	99

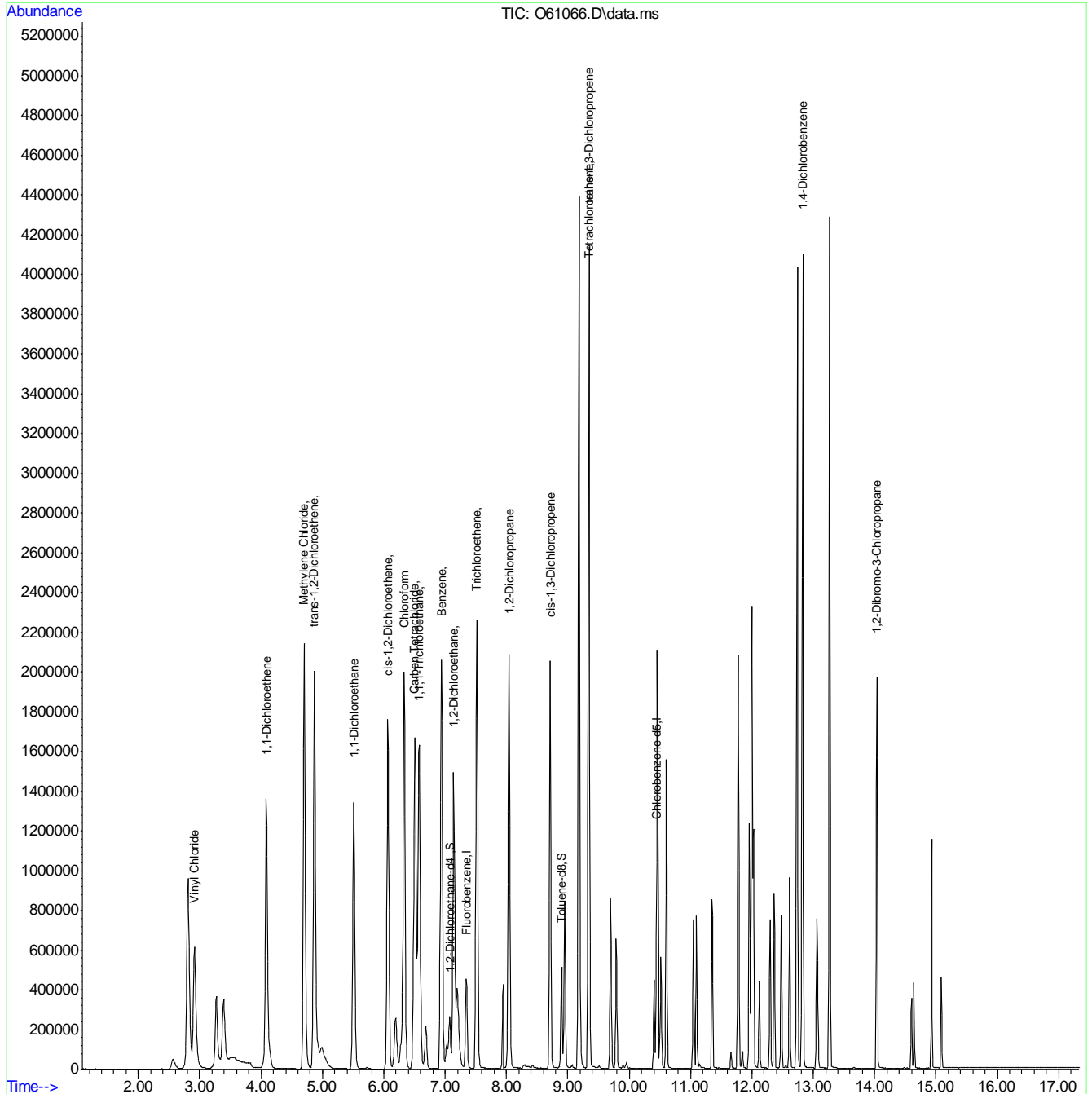
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61066.D  
 Acq On : 3 Sep 2020 3:26 pm  
 Operator : akarig  
 Sample : IC2349-7  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:29 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61067.D  
 Acq On : 3 Sep 2020 3:46 pm  
 Operator : akarig  
 Sample : IC2349-6 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 04 07:15:31 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	650622	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	439439	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	239479	4.75	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	95.00%		
19) Toluene-d8	8.900	98	489522	5.02	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	100.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	1040551	22.38	ug/L		99
3) Chloromethane	2.799	50	1572440	24.19	ug/L		98
4) 1,1-Dichloroethene	4.085	61	1131369	17.41	ug/L		97
5) Methylene Chloride	4.699	49	2044559	16.55	ug/L		97
6) trans-1,2-Dichloroethene	4.865	61	1354994	17.85	ug/L		96
7) 1,1-Dichloroethane	5.510	63	1661722	17.22	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	935644	18.00	ug/L		99
9) Chloroform	6.333	83	1708030	17.10	ug/L		98
10) Carbon Tetrachloride	6.505	117	1067668	18.62	ug/L		98
11) 1,1,1-Trichloroethane	6.576	97	1261731	18.64	ug/L		100
12) Benzene	6.943	78	2815069	17.44	ug/L		97
14) 1,2-Dichloroethane	7.139	62	1295793	16.58	ug/L		99
15) Trichloroethene	7.518	95	1048462	18.95	ug/L		97
16) 1,2-Dichloropropane	8.043	63	946661	16.84	ug/L		96
17) cis-1,3-Dichloropropene	8.711	75	1127749	16.44	ug/L		99
20) trans-1,3-Dichloropropene	9.343	75	1157829	16.65	ug/L		95
21) Tetrachloroethene	9.343	166	835648	18.11	ug/L		97
22) 1,4-Dichlorobenzene	12.827	146	1719547	16.75	ug/L		100
23) 1,2-Dibromo-3-Chloropr...	14.037	75	336674	15.87	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

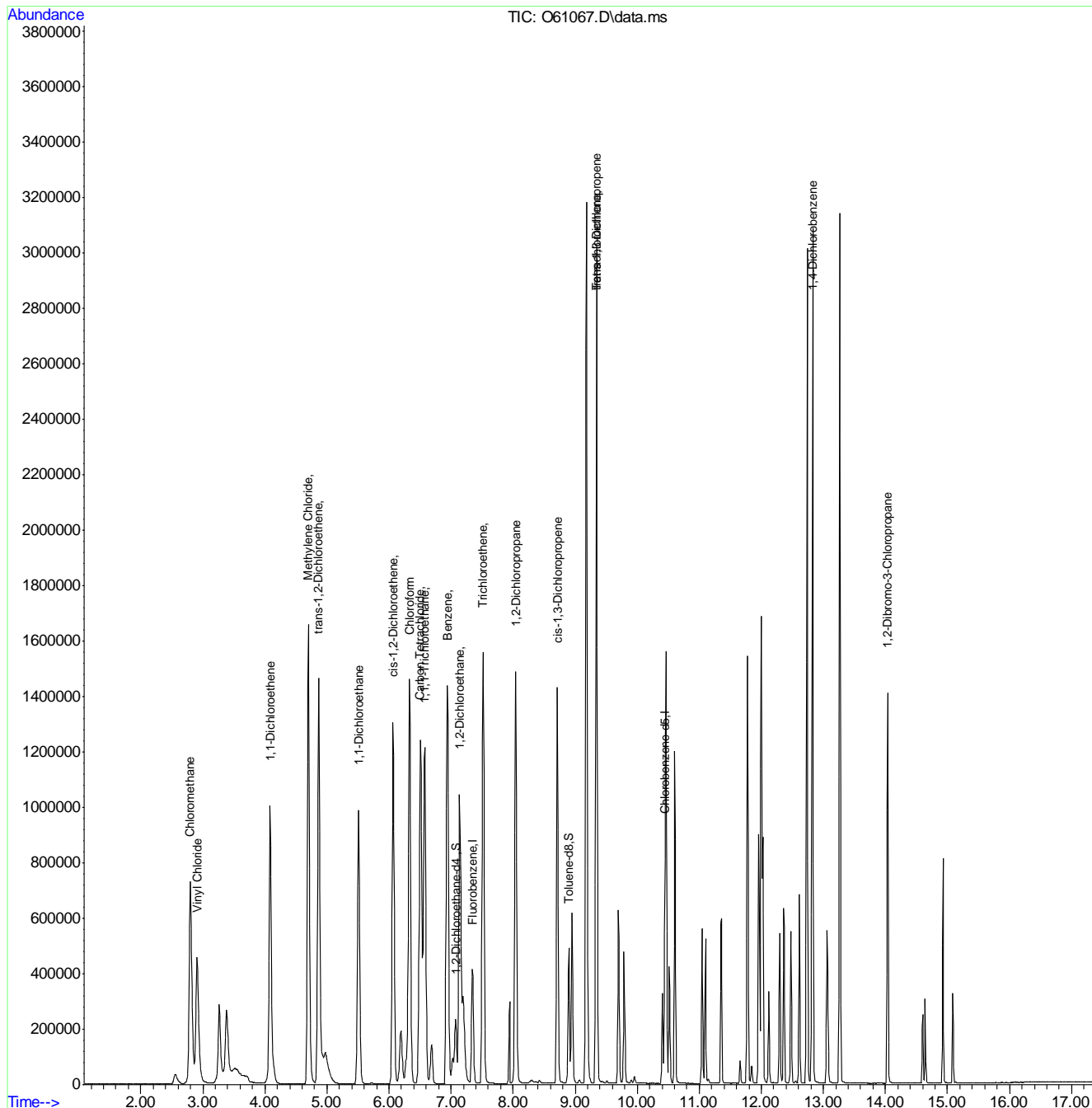


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61067.D  
 Acq On : 3 Sep 2020 3:46 pm  
 Operator : akarig  
 Sample : IC2349-6  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:15:31 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Thu Sep 03 08:04:34 2020  
 Response via : Initial Calibration



9.9.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61069.D  
 Acq On : 3 Sep 2020 5:17 pm  
 Operator : AKARIG  
 Sample : ICV2349-5 Inst : MSVOA12  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 04 07:40:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:40:34 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	564996	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	391059	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	214755	4.82	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	96.40%		
19) Toluene-d8	8.900	98	423222	4.93	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.912	62	532744	8.60	ug/L		99
3) Chloromethane	2.806	50	848788	8.03	ug/L		98
4) 1,1-Dichloroethene	4.092	61	580014	9.04	ug/L		100
5) Methylene Chloride	4.703	49	1131721	8.02	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	703543	9.36	ug/L		97
7) 1,1-Dichloroethane	5.514	63	902238	9.58	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	487844	9.74	ug/L		98
9) Chloroform	6.333	83	911251	9.35	ug/L		98
10) Carbon Tetrachloride	6.510	117	541476	9.44	ug/L		98
11) 1,1,1-Trichloroethane	6.576	97	638063	9.37	ug/L		98
12) Benzene	6.943	78	1535017	9.80	ug/L		98
14) 1,2-Dichloroethane	7.145	62	729570	9.84	ug/L		99
15) Trichloroethene	7.518	95	559500	9.53	ug/L		97
16) 1,2-Dichloropropane	8.043	63	530964	10.17	ug/L		99
17) cis-1,3-Dichloropropene	8.711	75	603779	10.02	ug/L		99
20) trans-1,3-Dichloropropene	9.343	75	625448	10.04	ug/L		100
21) Tetrachloroethene	9.343	166	439540	9.16	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	924511	9.50	ug/L		100
23) 1,2-Dibromo-3-Chloropr...	14.037	75	183292	9.77	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

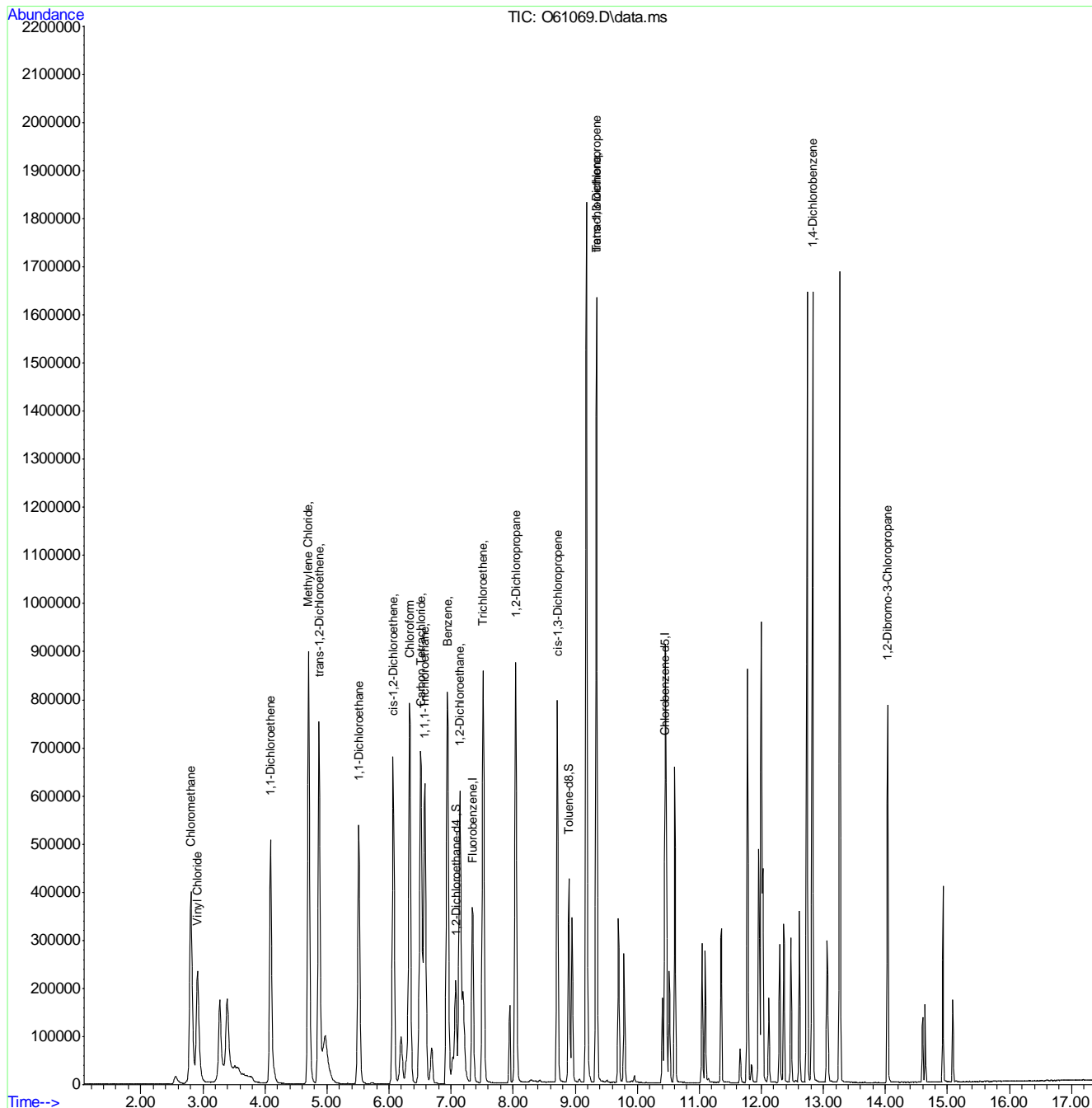
7.6.7  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\090320\  
 Data File : O61069.D  
 Acq On : 3 Sep 2020 5:17 pm  
 Operator : AKARIG  
 Sample : ICV2349-5  
 Misc : MS47088,VO2349,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 04 07:40:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:40:34 2020  
 Response via : Initial Calibration



7.6.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61074.d  
 Acq On : 3 Sep 2020 8:21 pm  
 Operator : stutip  
 Sample : cc2349-5  
 Misc : MS47088,VO2350,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 02:21:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	531794	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	376205	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	205686	4.90	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.00%		
19) Toluene-d8	8.896	98	400677	4.85	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	97.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	553166	9.48	ug/L		100
3) Chloromethane	2.799	50	869260	8.87	ug/L		99
4) 1,1-Dichloroethene	4.088	61	630458	10.44	ug/L		99
5) Methylene Chloride	4.699	49	1164598	8.92	ug/L		99
6) trans-1,2-Dichloroethene	4.865	61	727813	10.29	ug/L		98
7) 1,1-Dichloroethane	5.506	63	905773	10.22	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	483864	9.64	ug/L		97
9) Chloroform	6.327	83	915633	9.98	ug/L		98
10) Carbon Tetrachloride	6.504	117	538506	9.61	ug/L		100
11) 1,1,1-Trichloroethane	6.576	97	645432	9.65	ug/L		98
12) Benzene	6.937	78	1482467	10.06	ug/L		99
14) 1,2-Dichloroethane	7.139	62	701207	10.05	ug/L		100
15) Trichloroethene	7.512	95	537376	9.72	ug/L		98
16) 1,2-Dichloropropane	8.040	63	506763	10.31	ug/L		99
17) cis-1,3-Dichloropropene	8.711	75	564392	9.96	ug/L		99
20) trans-1,3-Dichloropropene	9.343	75	574714	9.63	ug/L		100
21) Tetrachloroethene	9.337	166	445222	9.64	ug/L		93
22) 1,4-Dichlorobenzene	12.827	146	923900	9.85	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.037	75	175548	9.73	ug/L		94

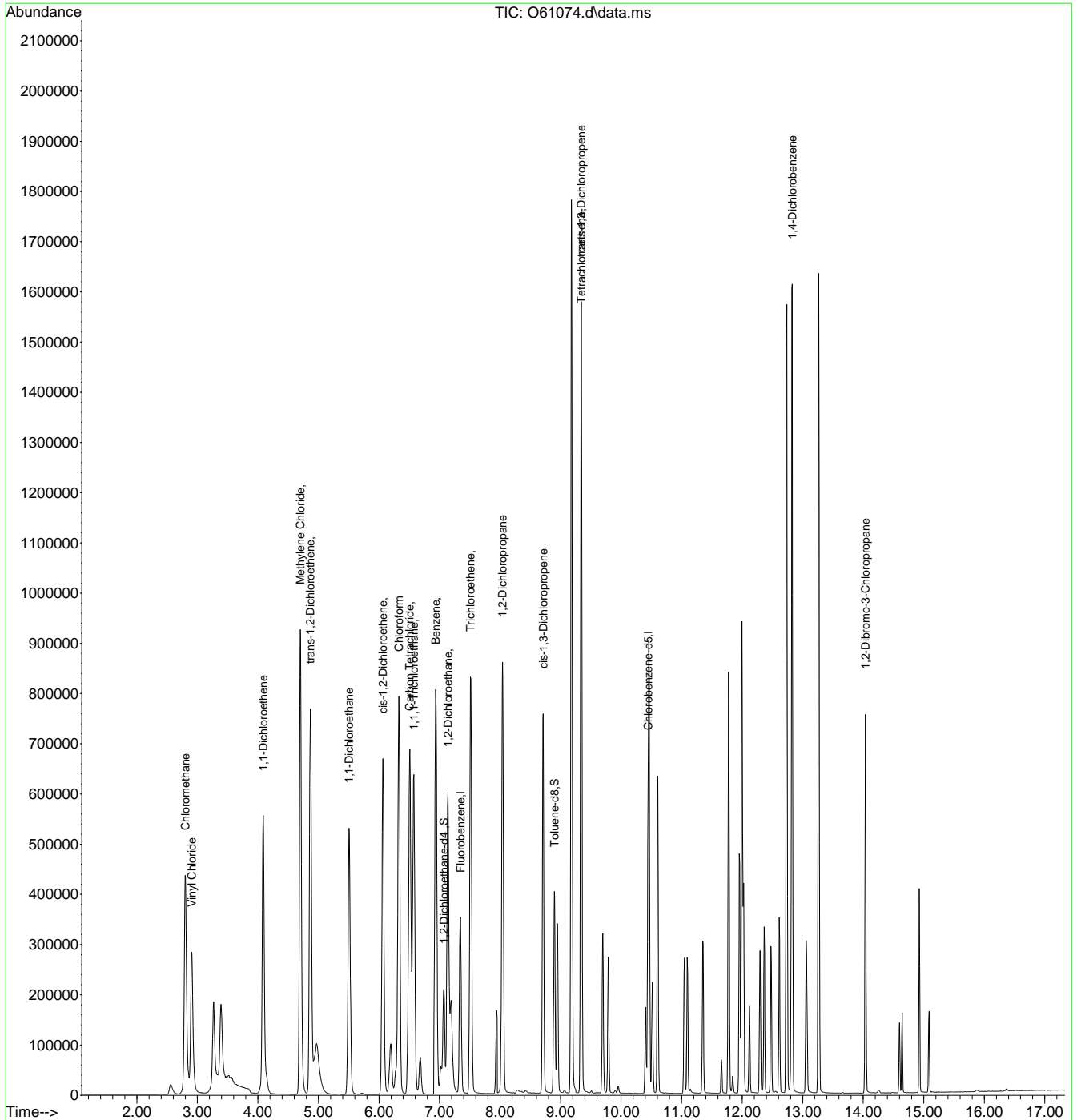
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.8  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61074.d  
 Acq On : 3 Sep 2020 8:21 pm  
 Operator : stutip  
 Sample : cc2349-5  
 Misc : MS47088,VO2350,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 02:21:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



8'9'7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61100.d  
 Acq On : 4 Sep 2020 5:14 am  
 Operator : stutip  
 Sample : ecc2349-5  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 08 02:22:25 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	375445	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	282199	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	157432	5.32	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	106.40%		
19) Toluene-d8	8.900	98	265043	4.28	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	85.60%#		
Target Compounds							Qvalue
2) Vinyl Chloride	2.901	62	422989	10.27	ug/L		99
3) Chloromethane	2.795	50	721073	10.77	ug/L		99
4) 1,1-Dichloroethene	4.085	61	520062	12.20	ug/L		98
5) Methylene Chloride	4.699	49	985293	11.18	ug/L		100
6) trans-1,2-Dichloroethene	4.865	61	580209	11.62	ug/L		99
7) 1,1-Dichloroethane	5.510	63	739102	11.81	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	371397	10.49	ug/L		98
9) Chloroform	6.333	83	756790	11.68	ug/L		97
10) Carbon Tetrachloride	6.510	117	437006	10.99	ug/L		99
11) 1,1,1-Trichloroethane	6.576	97	523452	11.05	ug/L		98
12) Benzene	6.943	78	1183424	11.38	ug/L		100
14) 1,2-Dichloroethane	7.139	62	574356	11.66	ug/L		99
15) Trichloroethene	7.518	95	433727	11.07	ug/L		95
16) 1,2-Dichloropropane	8.043	63	395677	11.40	ug/L		97
17) cis-1,3-Dichloropropene	8.711	75	384540	9.64	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	411679	9.23	ug/L		97
21) Tetrachloroethene	9.343	166	363764	10.49	ug/L		100
22) 1,4-Dichlorobenzene	12.827	146	767208	10.85	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	129479	9.57	ug/L		88

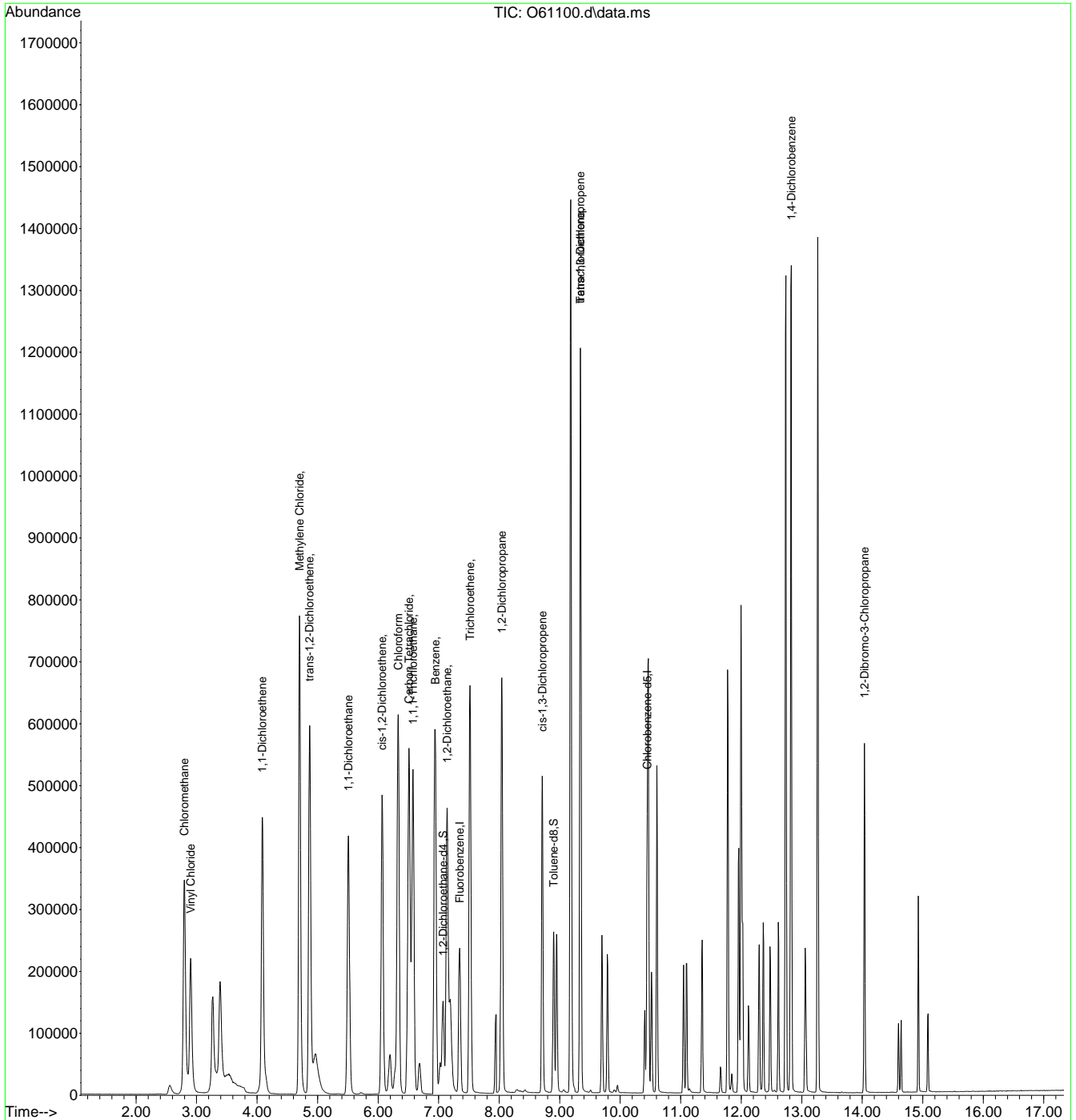
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VO2350\  
 Data File : O61100.d  
 Acq On : 4 Sep 2020 5:14 am  
 Operator : stutip  
 Sample : ecc2349-5  
 Misc : MS47137,VO2350,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 08 02:22:25 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Fri Sep 04 07:54:30 2020  
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62040.D  
 Acq On : 3 Sep 2020 9:52 am  
 Operator : shanicao  
 Sample : IC2408-1  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 03 10:46:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3804478	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2917946	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	1189054	4.66	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	93.20%		
19) Toluene-d8	8.958	98	3642217	5.53	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	110.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	60425	0.16	ppb		81
3) Chloromethane	2.730	50	66839	0.17	ppb		98
4) 1,1-Dichloroethene	4.083	96	33018	0.19	ppb		98
5) Methylene Chloride	4.713	84	235103	0.84	ppb	#	89
6) trans-1,2-Dichloroethene	4.883	96	41344	0.16	ppb		98
7) 1,1-Dichloroethane	5.543	63	70207	0.14	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	40436	0.13	ppb		93
9) Chloroform	6.371	83	77366	0.13	ppb		96
10) Carbon Tetrachloride	6.543	117	57498	0.17	ppb		99
11) 1,1,1-Trichloroethane	6.614	97	72306	0.16	ppb		92
12) Benzene	6.987	78	143997	0.15	ppb		96
14) 1,2-Dichloroethane	7.191	62	37491	0.10	ppb		99
15) Trichloroethene	7.564	95	45115	0.16	ppb		97
16) 1,2-Dichloropropane	8.101	63	31354	0.11	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	33085	0.10	ppb		95
20) trans-1,3-Dichloropropene	9.407	75	23314	0.08	ppb		99
21) Tetrachloroethene	9.399	166	50663	0.17	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10  
7

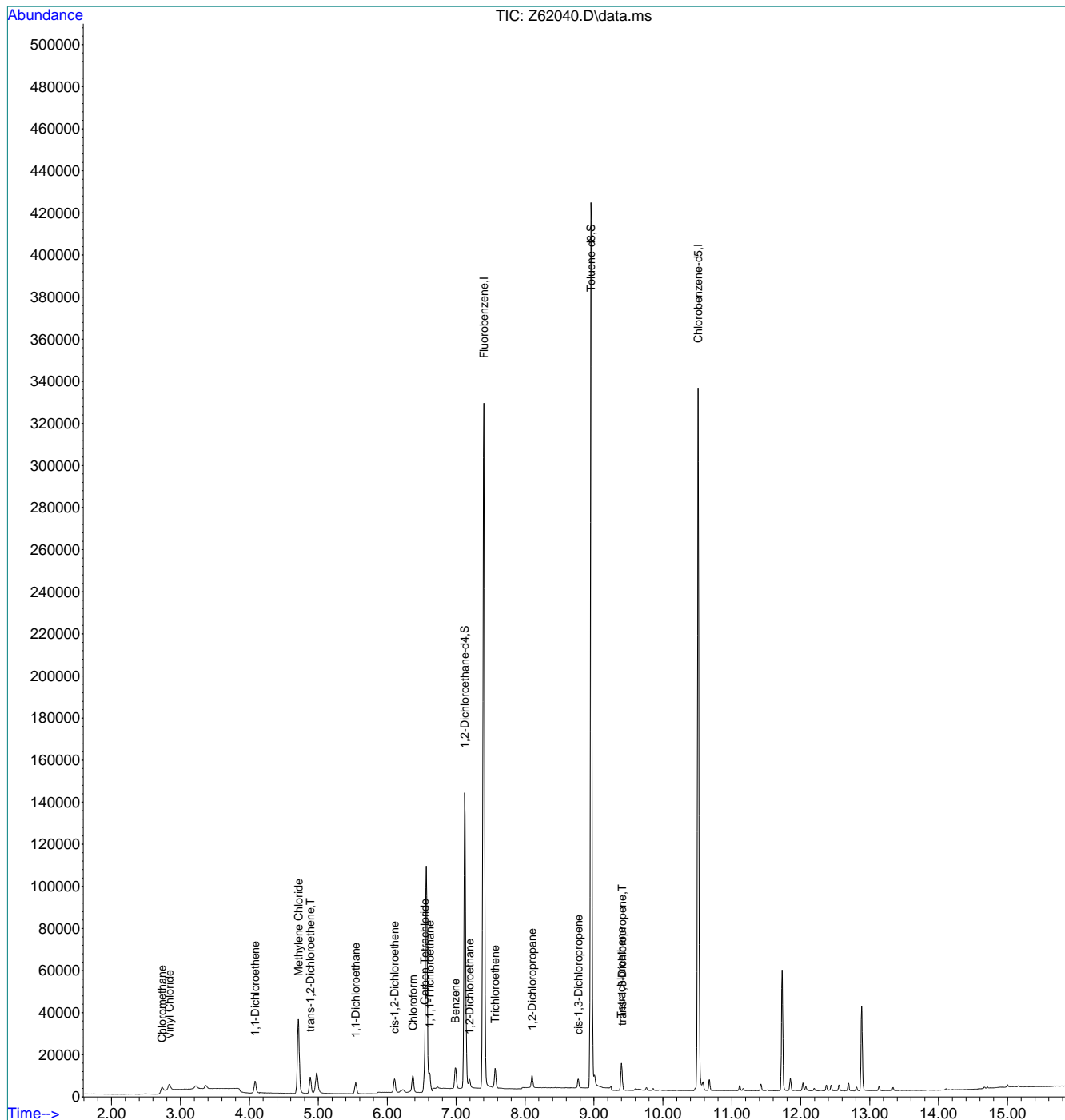




Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62040.D  
 Acq On : 3 Sep 2020 9:52 am  
 Operator : shanicao  
 Sample : IC2408-1  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 03 10:46:37 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6-10  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62041.D  
 Acq On : 3 Sep 2020 10:11 am  
 Operator : shanicao  
 Sample : IC2408-2  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 03 10:46:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

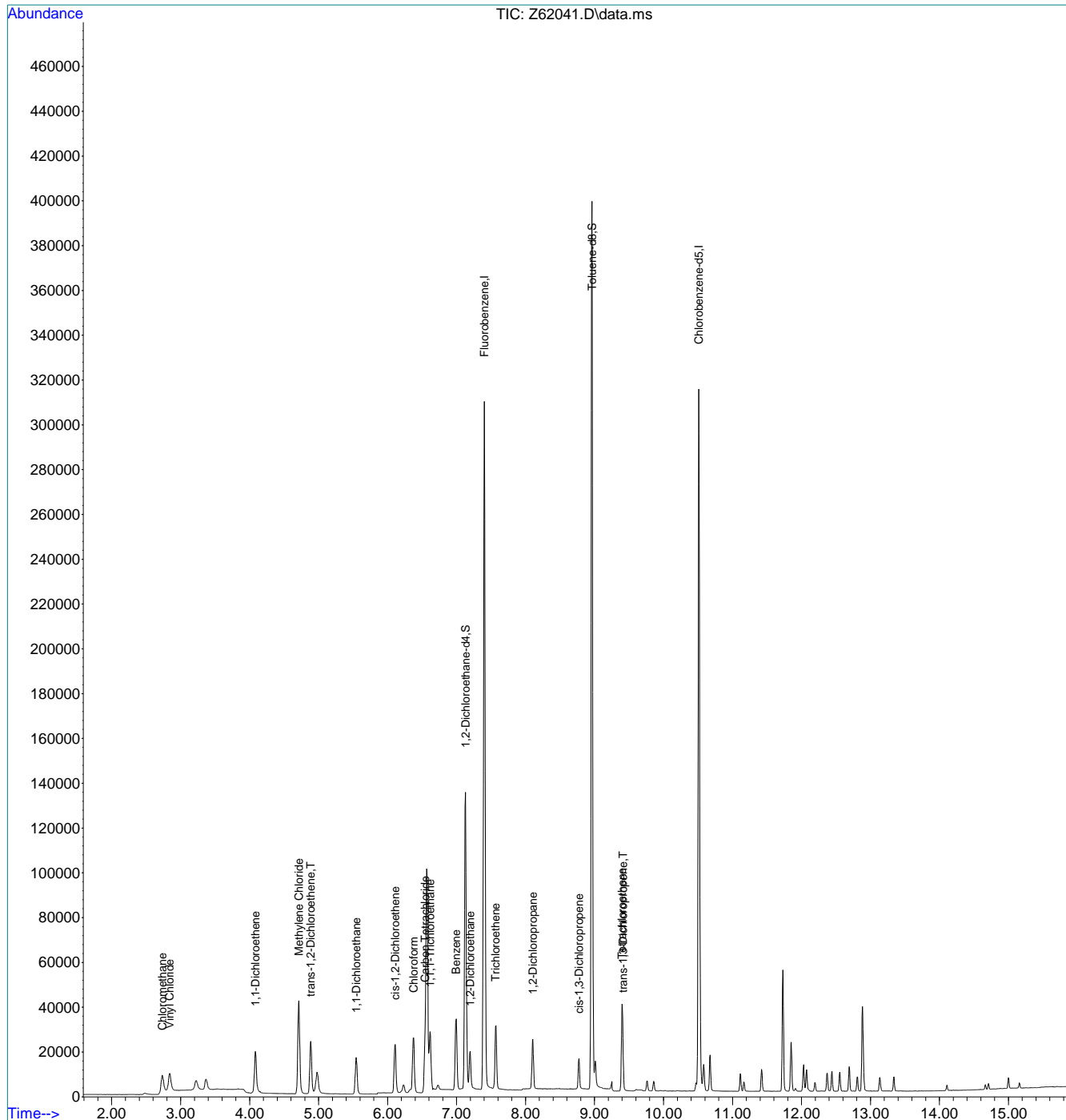
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3529389	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2691939	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1143820	4.83	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.60%	
19) Toluene-d8	8.961	98	3386795	5.57	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	163586	0.47	ppb		96
3) Chloromethane	2.733	50	169046	0.48	ppb		99
4) 1,1-Dichloroethene	4.083	96	107728	0.67	ppb		98
5) Methylene Chloride	4.713	84	277305	1.06	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	126935	0.52	ppb		100
7) 1,1-Dichloroethane	5.546	63	222785	0.48	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	136596	0.48	ppb		94
9) Chloroform	6.377	83	246283	0.45	ppb		97
10) Carbon Tetrachloride	6.543	117	169258	0.54	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	222786	0.52	ppb		98
12) Benzene	6.994	78	462224	0.50	ppb		99
14) 1,2-Dichloroethane	7.198	62	166346	0.47	ppb		98
15) Trichloroethene	7.564	95	140144	0.52	ppb		97
16) 1,2-Dichloropropane	8.105	63	118533	0.45	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	103090	0.32	ppb		99
20) trans-1,3-Dichloropropene	9.411	75	77291	0.30	ppb		99
21) Tetrachloroethene	9.399	166	151253	0.56	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62041.D  
 Acq On : 3 Sep 2020 10:11 am  
 Operator : shanicao  
 Sample : IC2408-2  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 03 10:46:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6.11  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62042.D  
 Acq On : 3 Sep 2020 10:59 am  
 Operator : shanicao  
 Sample : IC2408-3  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:30:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

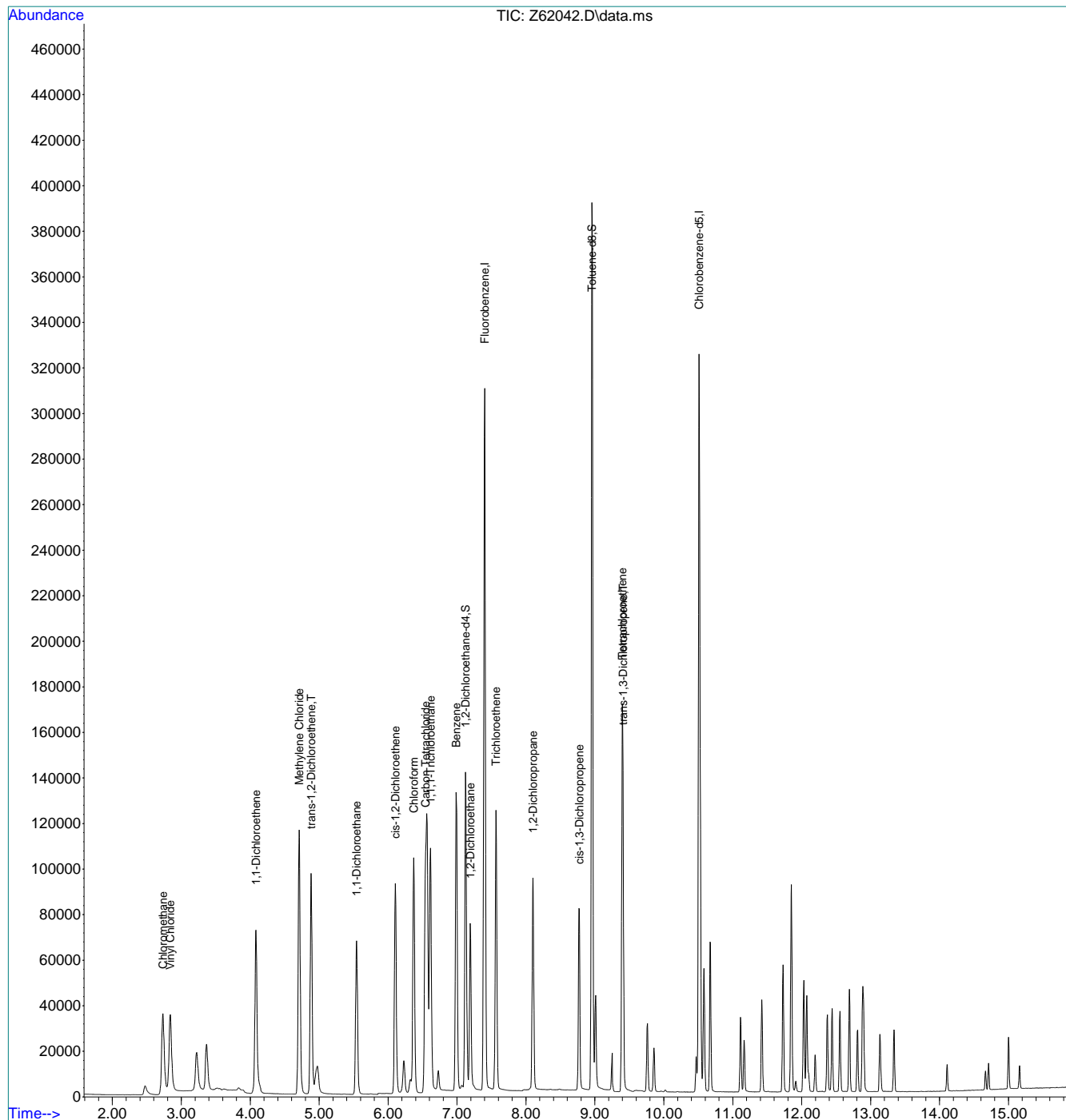
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3565081	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2721469	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	1150679	4.81	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.20%	
19) Toluene-d8	8.957	98	3395429	5.52	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	653900	1.88	ppb		96
3) Chloromethane	2.733	50	710717	1.99	ppb		99
4) 1,1-Dichloroethene	4.083	96	412798	2.56	ppb		98
5) Methylene Chloride	4.709	84	763200	2.89	ppb		94
6) trans-1,2-Dichloroethene	4.882	96	513878	2.07	ppb		98
7) 1,1-Dichloroethane	5.542	63	909896	1.95	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	548481	1.92	ppb		96
9) Chloroform	6.371	83	1017447	1.86	ppb		98
10) Carbon Tetrachloride	6.543	117	726775	2.29	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	903445	2.10	ppb		99
12) Benzene	6.987	78	1873808	2.01	ppb		97
14) 1,2-Dichloroethane	7.191	62	719288	2.00	ppb		100
15) Trichloroethene	7.564	95	585391	2.15	ppb		99
16) 1,2-Dichloropropane	8.101	63	482887	1.80	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	629327	1.93	ppb		100
20) trans-1,3-Dichloropropene	9.407	75	501903	1.92	ppb		99
21) Tetrachloroethene	9.399	166	594039	2.16	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62042.D  
 Acq On : 3 Sep 2020 10:59 am  
 Operator : shanicao  
 Sample : IC2408-3  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 03 11:30:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6.12  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62043.D  
 Acq On : 3 Sep 2020 11:18 am  
 Operator : shanicao  
 Sample : IC2408-4  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 03 11:36:06 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

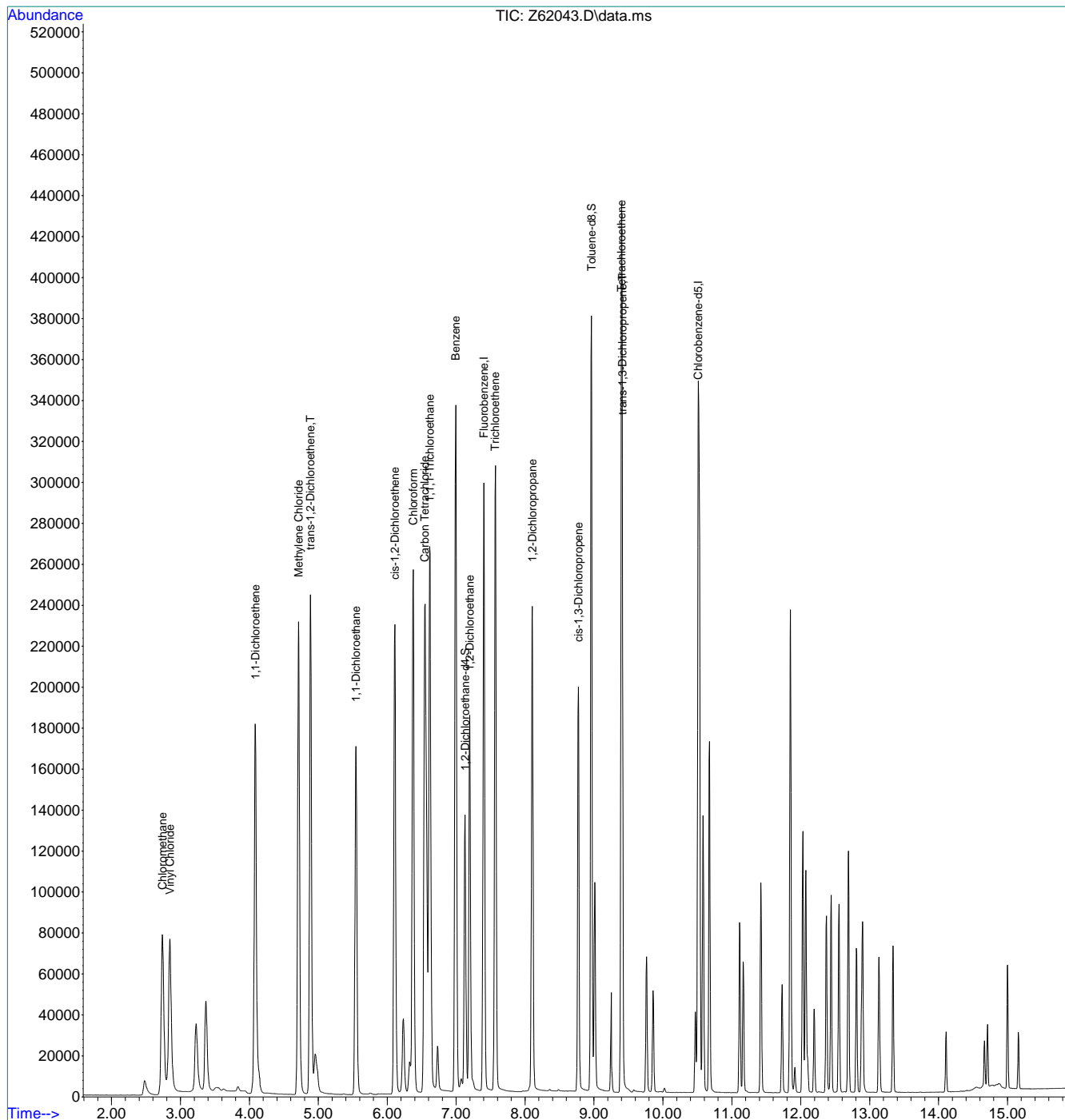
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3393850	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2594246	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1113929	4.89	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	97.80%	
19) Toluene-d8	8.961	98	3233788	5.52	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	1454957	4.39	ppb		97
3) Chloromethane	2.737	50	1592779	4.73	ppb		100
4) 1,1-Dichloroethene	4.087	96	1060060	6.90	ppb		98
5) Methylene Chloride	4.713	84	1526559	6.05	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	1301321	5.50	ppb		99
7) 1,1-Dichloroethane	5.546	63	2300012	5.12	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	1384187	5.08	ppb		94
9) Chloroform	6.377	83	2556080	4.90	ppb		99
10) Carbon Tetrachloride	6.543	117	1811545	6.00	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	2322600	5.66	ppb		100
12) Benzene	6.994	78	4756353	5.28	ppb		100
14) 1,2-Dichloroethane	7.198	62	1836620	5.31	ppb		100
15) Trichloroethene	7.564	95	1488604	5.75	ppb		97
16) 1,2-Dichloropropane	8.105	63	1251224	4.90	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	1512864	4.87	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	1229739	4.93	ppb		100
21) Tetrachloroethene	9.399	166	1518603	5.80	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62043.D  
 Acq On : 3 Sep 2020 11:18 am  
 Operator : shanicao  
 Sample : IC2408-4  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 03 11:36:06 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6.13  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62044.D  
 Acq On : 3 Sep 2020 11:40 am  
 Operator : shanicao  
 Sample : ICC2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 12:07:56 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3260477	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2497954	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1053734	4.82	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	96.40%	
19) Toluene-d8	8.961	98	3086779	5.47	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	3003337	9.44	ppb		98
3) Chloromethane	2.733	50	3004853	9.45	ppb		99
4) 1,1-Dichloroethene	4.083	96	2110416	14.31	ppb		97
5) Methylene Chloride	4.713	84	2800264	11.44	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	2623746	11.55	ppb		100
7) 1,1-Dichloroethane	5.546	63	4627710	10.55	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	2786347	10.65	ppb		94
9) Chloroform	6.377	83	5159486	10.30	ppb		99
10) Carbon Tetrachloride	6.543	117	3767946	12.99	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	4718727	11.98	ppb		100
12) Benzene	6.994	78	9454398	10.65	ppb		100
14) 1,2-Dichloroethane	7.198	62	3615367	10.71	ppb		99
15) Trichloroethene	7.564	95	2955722	11.89	ppb		98
16) 1,2-Dichloropropane	8.105	63	2485857	10.14	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	3347102	11.22	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	2827150	11.76	ppb		100
21) Tetrachloroethene	9.399	166	3036745	12.05	ppb		99

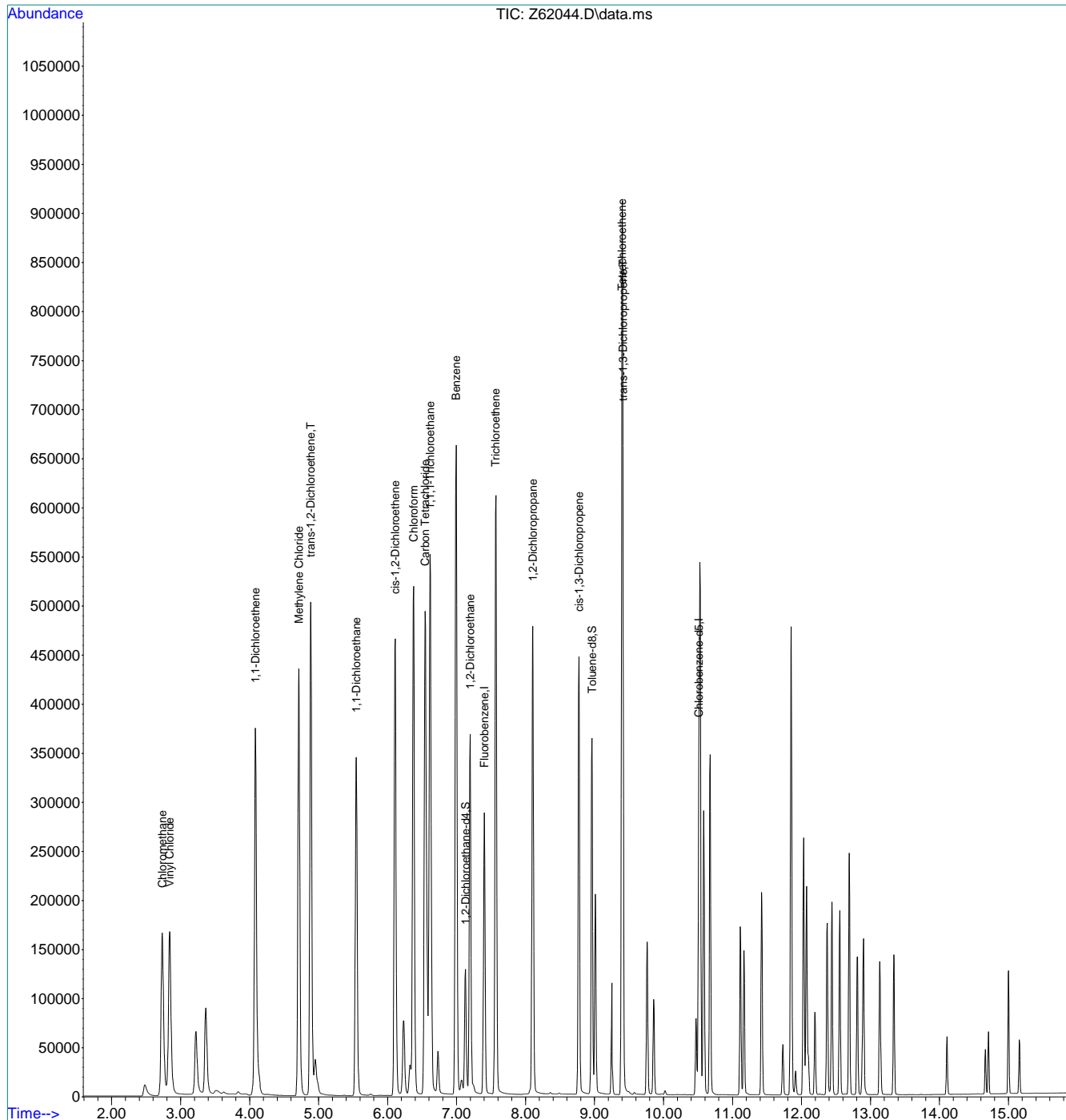
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62044.D  
 Acq On : 3 Sep 2020 11:40 am  
 Operator : shanicao  
 Sample : ICC2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 03 12:07:56 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6.14  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62045.D  
 Acq On : 3 Sep 2020 11:59 am  
 Operator : shanicao  
 Sample : IC2408-6  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 03 12:16:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

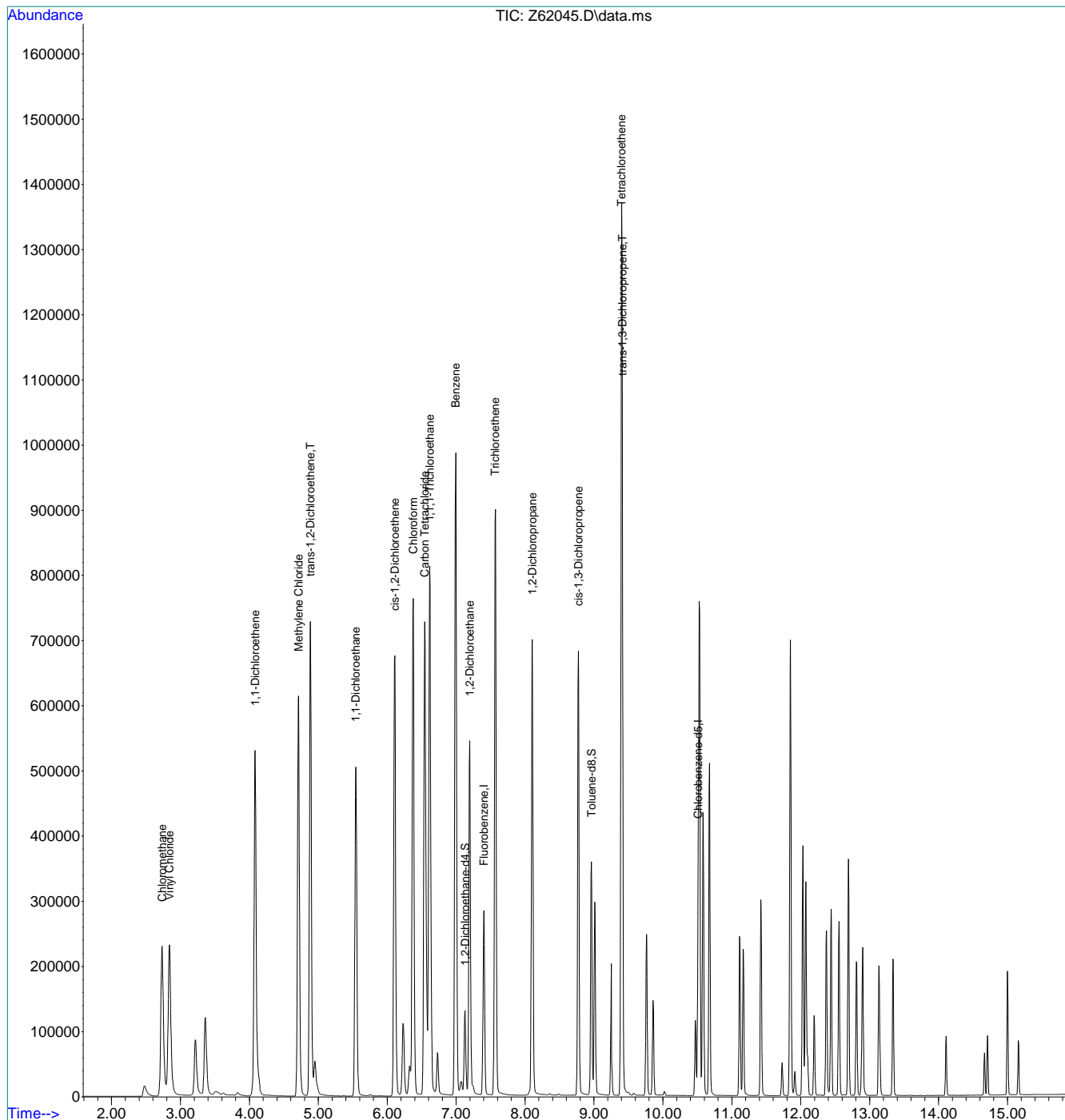
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	3196001	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2443895	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	1051841	4.90	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	98.00%	
19) Toluene-d8	8.961	98	3027479	5.48	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	4378556	14.04	ppb		98
3) Chloromethane	2.733	50	4551242	14.89	ppb		99
4) 1,1-Dichloroethene	4.083	96	3066264	21.21	ppb		99
5) Methylene Chloride	4.713	84	4012715	16.58	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	3838318	17.24	ppb		99
7) 1,1-Dichloroethane	5.543	63	6756600	15.47	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	4062378	15.85	ppb		94
9) Chloroform	6.377	83	7531102	15.34	ppb		98
10) Carbon Tetrachloride	6.543	117	5562204	19.57	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	6908579	17.89	ppb		100
12) Benzene	6.994	78	13884250	15.61	ppb		100
14) 1,2-Dichloroethane	7.198	62	5390318	16.04	ppb		99
15) Trichloroethene	7.564	95	4368807	17.93	ppb		98
16) 1,2-Dichloropropane	8.105	63	3668654	15.27	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	5087870	17.40	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	4379634	18.63	ppb		100
21) Tetrachloroethene	9.399	166	4500176	18.25	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62045.D  
 Acq On : 3 Sep 2020 11:59 am  
 Operator : shanicao  
 Sample : IC2408-6  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 03 12:16:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6.15  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:35:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration

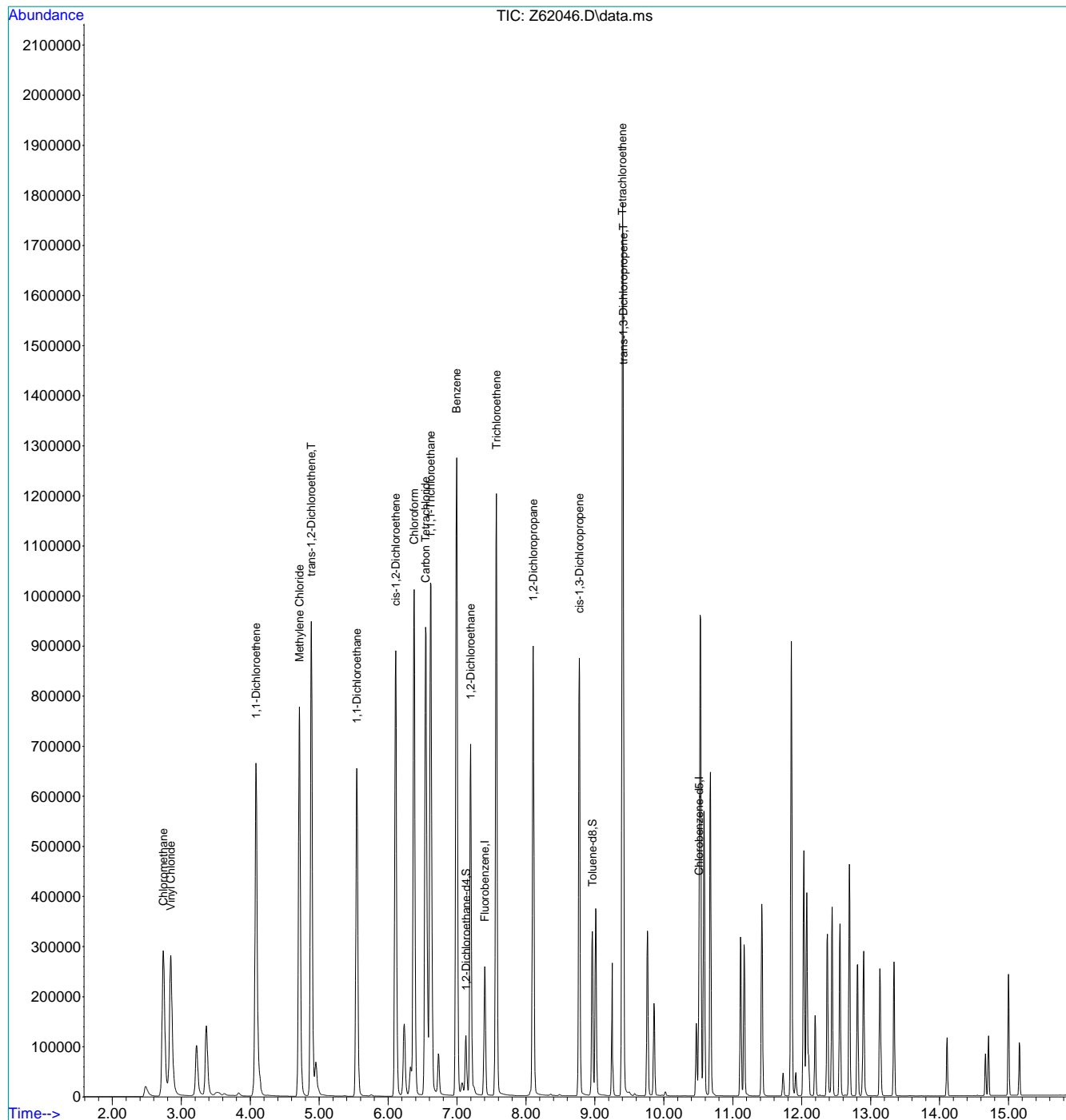
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2938110	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2256895m	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	963232	4.88	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	97.60%	
19) Toluene-d8	8.961	98	2784483	5.46	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.20%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	5627397	19.63	ppb		98
3) Chloromethane	2.737	50	5928894	21.65	ppb		100
4) 1,1-Dichloroethene	4.083	96	4008221	30.16	ppb		97
5) Methylene Chloride	4.713	84	5136689	22.86	ppb		93
6) trans-1,2-Dichloroethene	4.886	96	5027216	24.57	ppb		100
7) 1,1-Dichloroethane	5.546	63	8782985	21.49	ppb	#	98
8) cis-1,2-Dichloroethene	6.110	96	5293616	22.46	ppb		94
9) Chloroform	6.377	83	9822563	21.76	ppb		98
10) Carbon Tetrachloride	6.543	117	7287855	27.89	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	8989931	25.32	ppb		99
12) Benzene	6.994	78	17863042	21.32	ppb		99
14) 1,2-Dichloroethane	7.198	62	6887900	21.91	ppb		99
15) Trichloroethene	7.571	95	5698644	25.45	ppb		91
16) 1,2-Dichloropropane	8.105	63	4715015	21.35	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	6610083	24.59	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	5737207m	26.42	ppb		
21) Tetrachloroethene	9.399	166	5790603	25.42	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:35:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



7.6.16  
7

# Manual Integration Approval Summary

**Sample Number:** VZ2408-IC2408      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62046.D      **Analyst approved:** 09/03/20 13:54 Shanica O'Connor  
**Injection Time:** 09/03/20 12:18      **Supervisor approved:** 09/03/20 15:13 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
trans-1,3-Dichloropropene	10061-02-6		9.41	Missed peak
Chlorobenzene-D5	3114-55-4		10.51	Missed peak

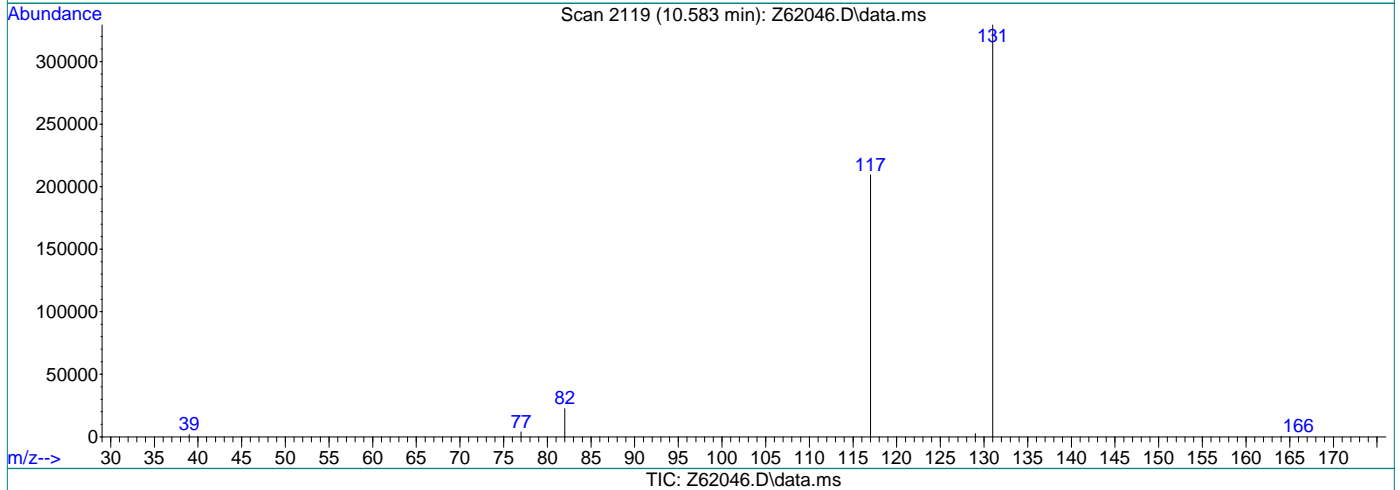
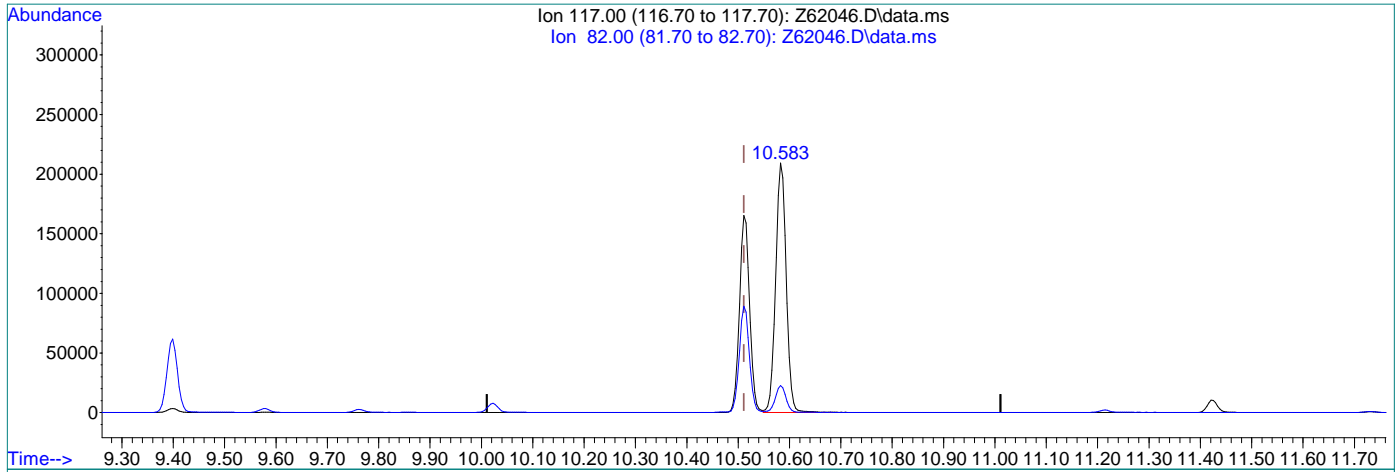
7.6.16.1

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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



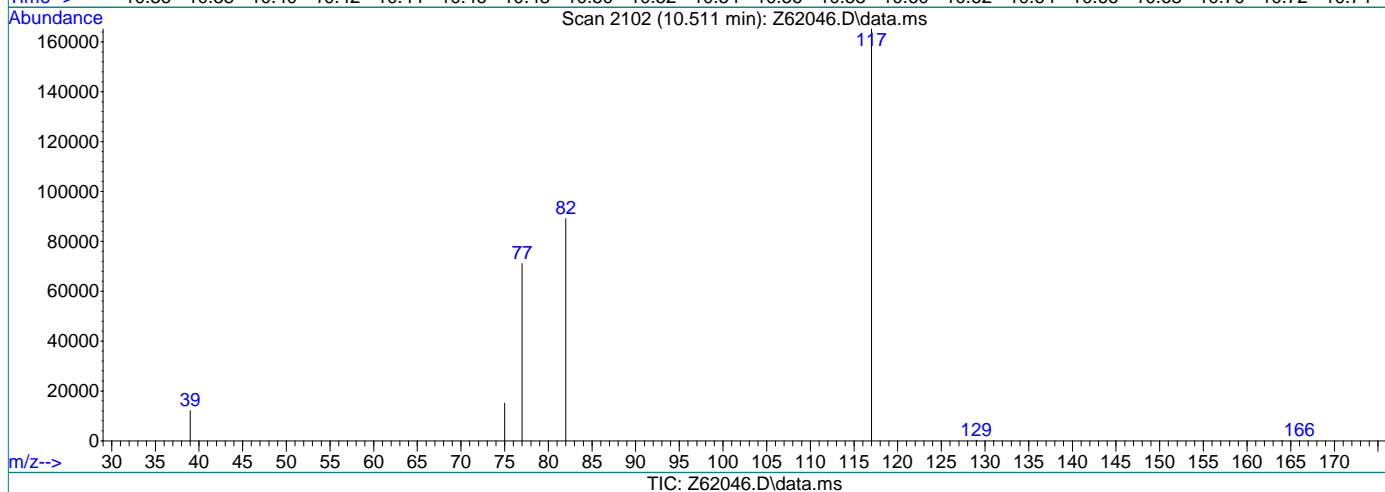
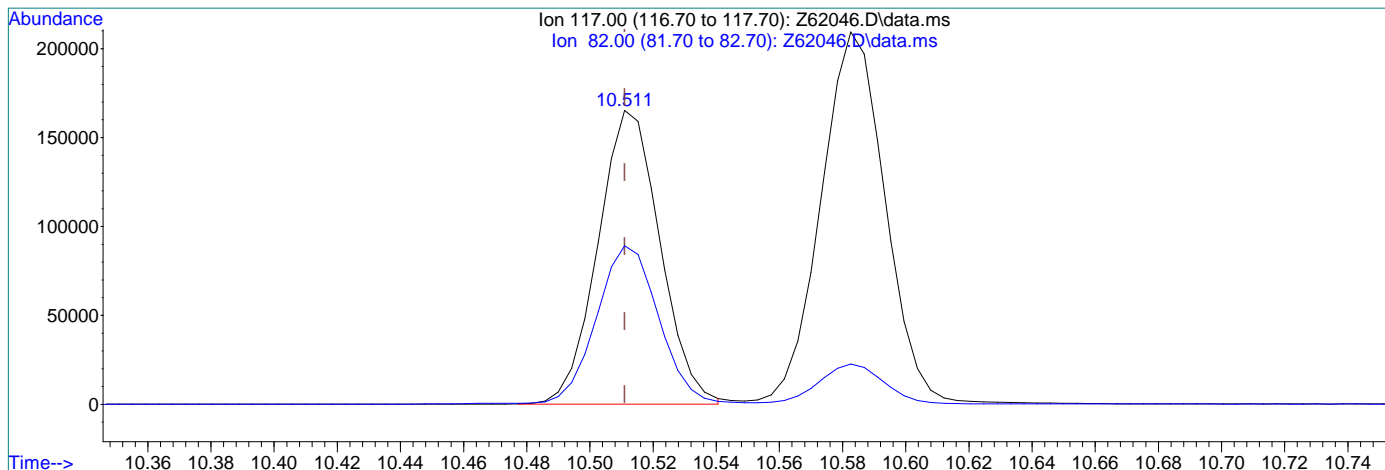
(18) Chlorobenzene-d5 (l)  
 10.583min (+0.072) 5.00ppb  
 response 2971404

Ion	Exp%	Act%
117.00	100	100
82.00	52.30	10.84#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(18) Chlorobenzene-d5 (l)

10.511min (+0.000) 5.00ppb m

response 2256895

Ion	Exp%	Act%
117.00	100	100
82.00	52.30	14.27#
0.00	0.00	0.00
0.00	0.00	0.00

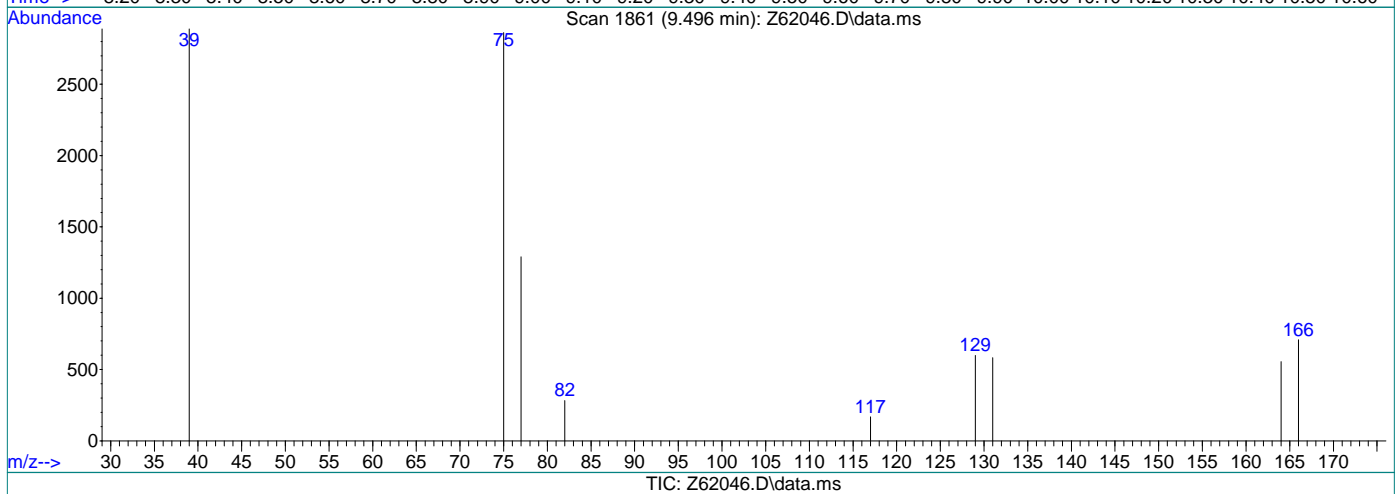
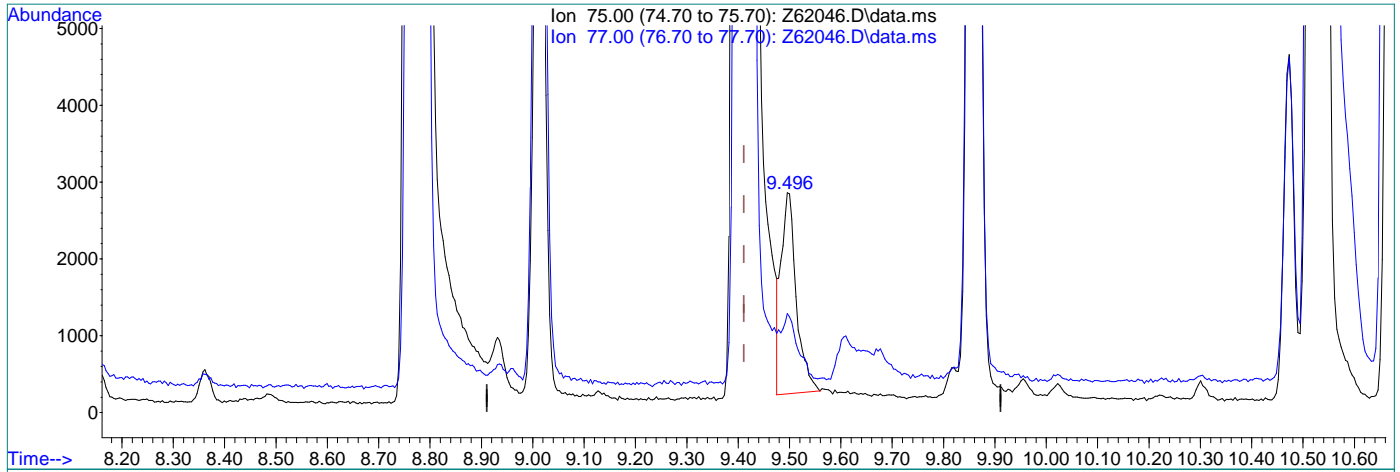
7.6.16.3  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.496min (+0.085) 0.25ppb

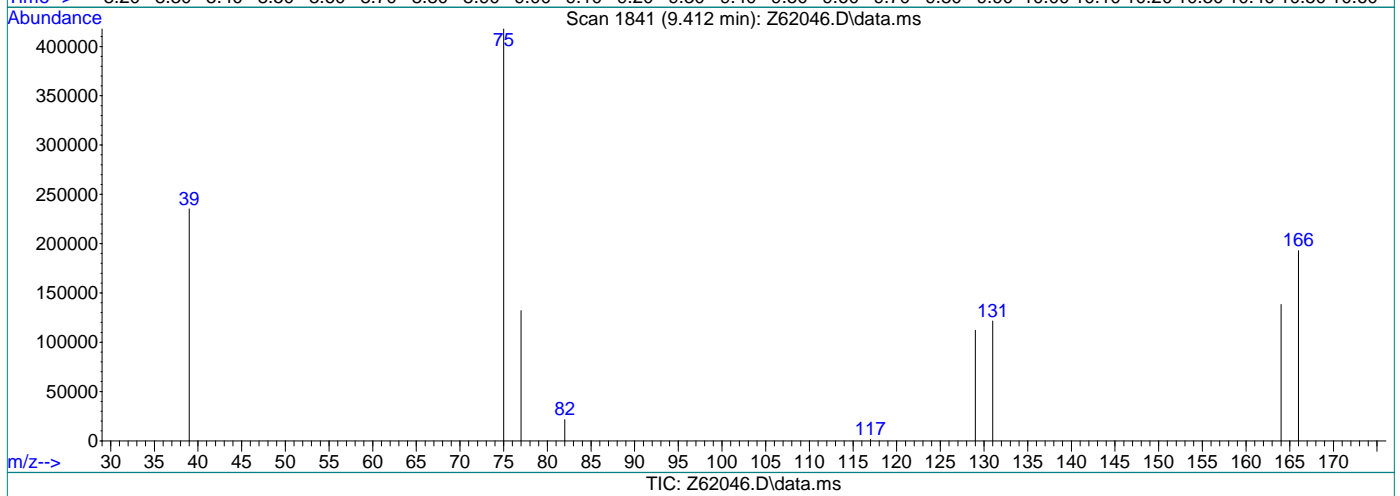
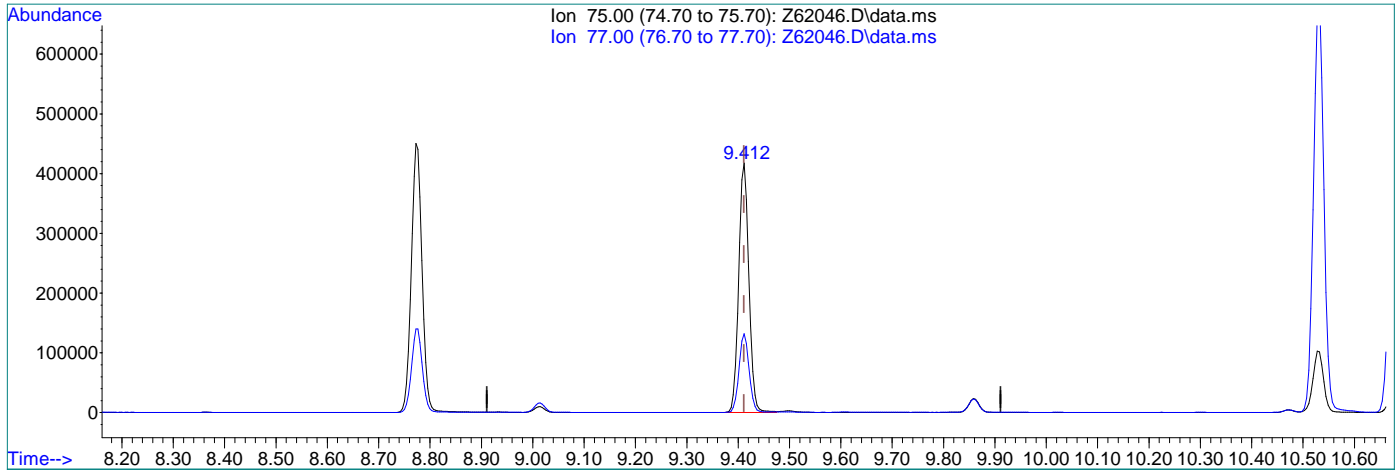
response 54281

Ion	Exp%	Act%
75.00	100	100
77.00	31.30	32.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\090320\  
 Data File : Z62046.D  
 Acq On : 3 Sep 2020 12:18 pm  
 Operator : shanicao  
 Sample : IC2408-7  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 03 12:34:55 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Mon Jun 08 12:29:45 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.412min (+0.001) 26.42ppb m

response 5737207

Ion	Exp%	Act%
75.00	100	100
77.00	31.30	31.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2408\  
 Data File : Z62048.d  
 Acq On : 3 Sep 2020 12:57 pm  
 Operator : shanicao  
 Sample : cc2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 01:01:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2703421	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	2067570	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	904830	5.17	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	103.40%		
19) Toluene-d8	8.961	98	2565152	4.99	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	2360196	9.69	ppb		100
3) Chloromethane	2.737	50	2554199	10.15	ppb		99
4) 1,1-Dichloroethene	4.083	96	1601477	9.39	ppb		99
5) Methylene Chloride	4.713	84	2264575	9.71	ppb		99
6) trans-1,2-Dichloroethene	4.886	96	2053096	9.67	ppb		100
7) 1,1-Dichloroethane	5.546	63	3757114	9.67	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	2254117	9.69	ppb		99
9) Chloroform	6.377	83	4170126	9.65	ppb		99
10) Carbon Tetrachloride	6.543	117	2909066	9.58	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	3691887	9.68	ppb		100
12) Benzene	6.994	78	7934663	9.94	ppb		99
14) 1,2-Dichloroethane	7.198	62	3100443	10.81	ppb		100
15) Trichloroethene	7.564	95	2526004	10.12	ppb		99
16) 1,2-Dichloropropane	8.105	63	2106428	10.41	ppb		99
17) cis-1,3-Dichloropropene	8.773	75	2664551	9.85	ppb		100
20) trans-1,3-Dichloropropene	9.412	75	2239218	8.90	ppb		100
21) Tetrachloroethene	9.399	166	2435376	9.82	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

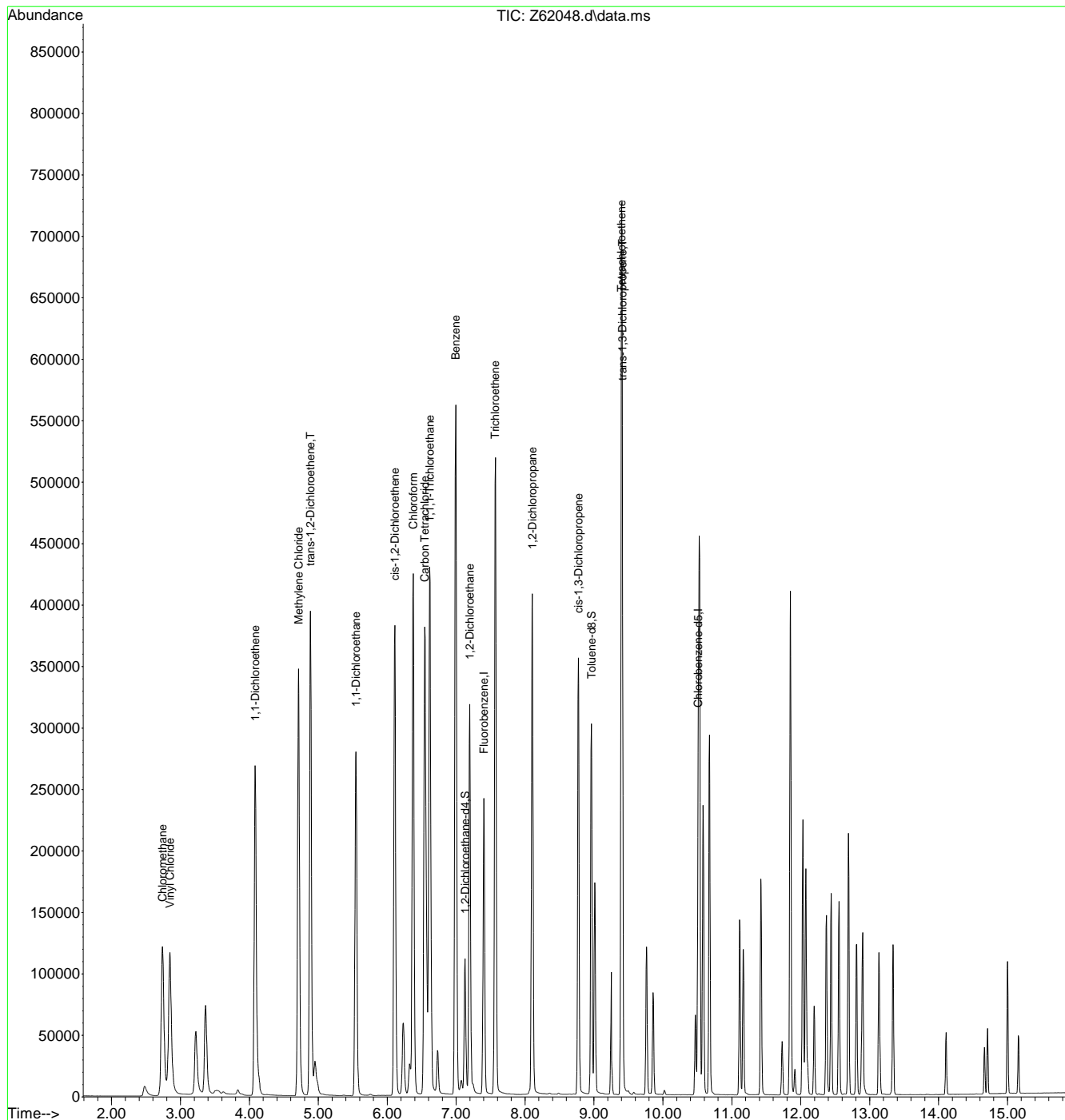
7.6.17  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-08-2020\VZ2408\  
 Data File : Z62048.d  
 Acq On : 3 Sep 2020 12:57 pm  
 Operator : shanicao  
 Sample : cc2408-5  
 Misc : MS46458,VZ2408,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 01:01:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.6.17  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\VZ2410\  
 Data File : Z62108.d  
 Acq On : 5 Sep 2020 11:24 am  
 Operator : stutip  
 Sample : cc2408-5  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 20:22:33 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	2429349	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1846856	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	865699	5.50	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	110.00%	
19) Toluene-d8	8.958	98	2272773	4.95	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	2491129	11.28	ppb		100
3) Chloromethane	2.733	50	2736504	11.94	ppb		99
4) 1,1-Dichloroethene	4.083	96	1573690	10.21	ppb		97
5) Methylene Chloride	4.713	84	2272119	10.84	ppb		97
6) trans-1,2-Dichloroethene	4.886	96	2028364	10.56	ppb		99
7) 1,1-Dichloroethane	5.543	63	3781828	10.83	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	2182356	10.44	ppb		93
9) Chloroform	6.371	83	4173697	10.75	ppb		100
10) Carbon Tetrachloride	6.543	117	2602851	9.54	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	3486888	10.14	ppb		100
12) Benzene	6.987	78	7589763	10.58	ppb		94
14) 1,2-Dichloroethane	7.191	62	3213557	12.47	ppb		100
15) Trichloroethene	7.564	95	2297967	10.24	ppb		98
16) 1,2-Dichloropropane	8.101	63	2047332	11.26	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	2538935	10.38	ppb		99
20) trans-1,3-Dichloropropene	9.407	75	2256848	10.04	ppb		99
21) Tetrachloroethene	9.399	166	2228828	10.04	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

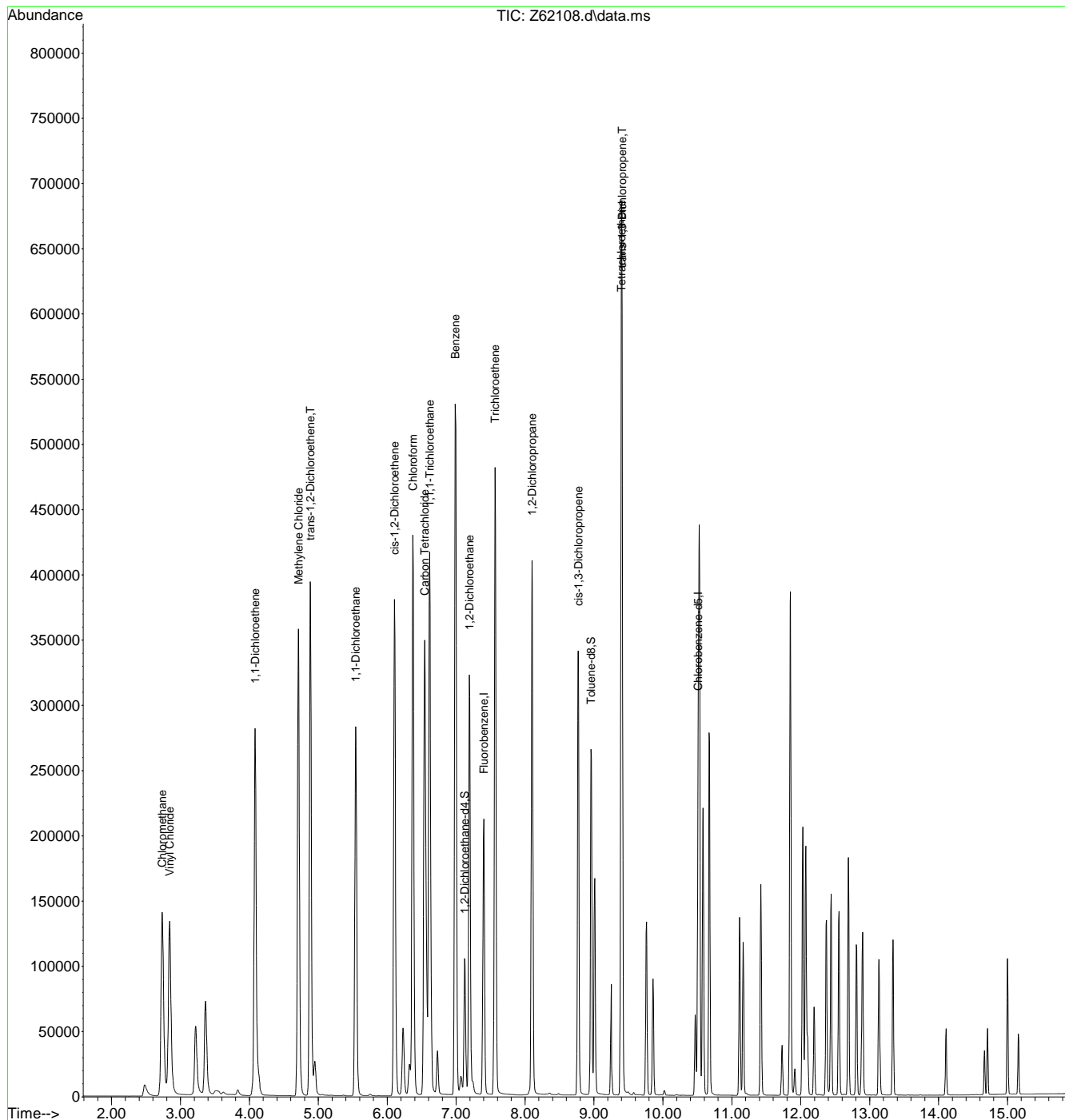
7.6.18  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
 Data File : Z62108.d  
 Acq On : 5 Sep 2020 11:24 am  
 Operator : stutip  
 Sample : cc2408-5  
 Misc : MS47134,VZ2410,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 20:22:33 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration



7.6.18  
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\ vz2410\  
 Data File : Z62132.D  
 Acq On : 5 Sep 2020 8:50 pm  
 Operator : stutip  
 Sample : ecc2408-5  
 Misc : MS47137,VZ2410,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 08 20:23:23 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1790216	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1389196	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	692932	5.97	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	119.40%	
19) Toluene-d8	8.961	98	1630401	4.72	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1913056	11.73	ppb		99
3) Chloromethane	2.733	50	1797644	10.74	ppb		99
4) 1,1-Dichloroethene	4.083	96	1088880	9.63	ppb		91
5) Methylene Chloride	4.713	84	1452600	9.41	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	1310445	9.35	ppb		92
7) 1,1-Dichloroethane	5.546	63	2534851	9.85	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	1365372	8.86	ppb		94
9) Chloroform	6.377	83	2765665	9.67	ppb		100
10) Carbon Tetrachloride	6.543	117	1753408	8.79	ppb		100
11) 1,1,1-Trichloroethane	6.614	97	2363063	9.37	ppb		100
12) Benzene	6.994	78	4928781	9.32	ppb		97
14) 1,2-Dichloroethane	7.198	62	2106996	11.10	ppb		99
15) Trichloroethene	7.564	95	1504061	9.10	ppb		98
16) 1,2-Dichloropropane	8.105	63	1329403	9.92	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	1318808	7.58	ppb		100
20) trans-1,3-Dichloropropene	9.411	75	1152745	6.82	ppb		100
21) Tetrachloroethene	9.399	166	1432807	8.66	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

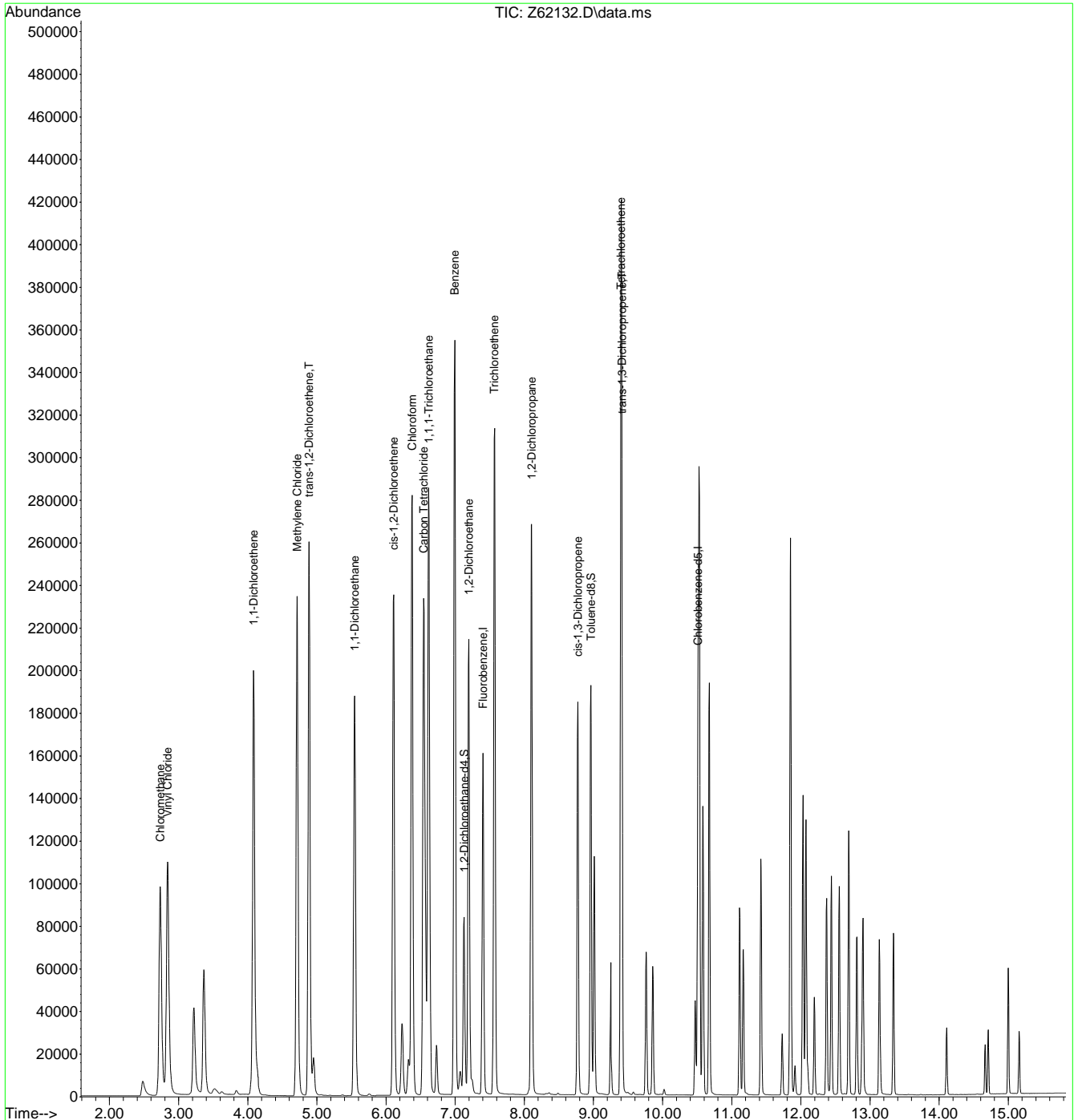
7.6.19  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-09-2020\vz2410\  
 Data File : Z62132.D  
 Acq On : 5 Sep 2020 8:50 pm  
 Operator : stutip  
 Sample : ecc2408-5  
 Misc : MS47137,VZ2410,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 08 20:23:23 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL090320.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Fri Sep 04 11:36:05 2020  
 Response via : Initial Calibration





SGS -ORLANDO

MSVOA12-O-ANALYSIS LOG

Date:	9/3/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA12-O
PURGE PRESSURE	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	akarig

METHODS:*	SIMCLm
METHOD FILE:	SIMCL082820.m
CALIB. DATE:	9/1/2020
EM VOLTAGE:	1588V
BFB RESPONSE	
RUN ID:	VO2349

BFB:	VS0726D
IC-ALI/CC:	V25934 VS0792
ISTD/SUR:	V25904
ICV/QC:	VS0793 V25907

PH LOT1-12 :230814
ph lot 0.0-3.0 : 220416a
KI PAPER LOT:030317
SAMPLE ID VERIFIED BY:
AKARIG
DATE VERIFIED: 09/03/20

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
O61050	BLK	NA	NA	w	1	ACQ_SIMCL		NA	NA		✓
O61051	BLK	NA	NA	w	2	ACQ_SIMCL		NA	NA		✓
O61052	BFB	NA	NA	w	100	BFB		NA	NA		Passed autofind 2uL ✓
O61053	BFB	NA	NA	w	100	BFB		NA	NA		
O61054	BFB	NA	NA	w	100	BFB		NA	NA		Passed autofind 2uL ✓
O61055	CC2347-5	NA	NA	w	1	ACQ_SIMCL		NA	NA		50uL ->50mL, failed low
O61056	BS	NA	NA	w	2	ACQ_SIMCL		NA	NA		20uL ->40mL
O61057	CC2347-5	NA	NA	w	3	ACQ_SIMCL		NA	NA		50uL ->50mL Failed high
O61058	BFB	NA	NA	w	100	BFB		NA	NA		Passed autofind 2uL ✓
O61059	BLANK	NA	NA	w	1	ACQ_SIMCL		NA	NA		
O61060	IC2349-1	NA	NA	w	2	ACQ_SIMCL		NA	NA		1uL ->100mL
O61061	IC2349-2	NA	NA	w	3	ACQ_SIMCL		NA	NA		5uL ->100mL
O61062	IC2349-3	NA	NA	w	4	ACQ_SIMCL		NA	NA		10uL ->50mL
O61063	IC2349-4	NA	NA	w	5	ACQ_SIMCL		NA	NA		25uL ->50mL
O61064	IC2349-5	NA	NA	w	6	ACQ_SIMCL		NA	NA		50uL ->50mL
O61065	IC2349-6	NA	NA	w	7	ACQ_SIMCL		NA	NA		75uL ->50mL will not use
O61066	IC2349-7	NA	NA	w	8	ACQ_SIMCL		NA	NA		100uL ->50mL
O61067	IC2349-6	NA	NA	w	9	ACQ_SIMCL		NA	NA		75uL ->50mL
O61068	BLANK	NA	NA	w	10	ACQ_SIMCL		NA	NA		
O61069	ICV2349-5	NA	NA	w	11	ACQ_SIMCL		NA	NA		50uL ->50mL

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PI Poor Instrument

Analyst's Signature: 

SGS -ORLANDO

MSVOA12-O-ANALYSIS LOG

Date:	9/3/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA12-O
PURGE PRESSURE:	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	stutip

METHODS:*	SIMCLM
METHOD FILE:	SIMCL090320.m
CALIB. DATE:	9/1/2020
EM VOLTAGE:	1588V
BFB RESPONSE	36987
RUN ID:	VO2350

BFB:	VS0726D
ICAL/CC:	V25934 VS0792
ISTD/SUR:	V25904
ICV/QC:	VS0793 V25907

PH LOT1-12 :230814
ph lot 0.0-3.0 : 220416a
KI PAPER LOT:030317
SAMPLE ID VERIFIED BY:
AKARIG
DATE VERIFIED: 09/03/20

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL ?	RR	COMMENTS
O61070	BLK	NA	NA	w	1	ACQ_SIMCL		NA	NA		✓
O61071	BLK	NA	NA	w	2	ACQ_SIMCL		NA	NA		✓
O61072	BFB	NA	NA	w	100	BFB		NA	NA		fail
O61073	BFB	NA	NA	w	100	BFB		NA	NA		Passed autofind 2uL✓
O61074	cc2349-5	NA	NA	w	1	ACQ_SIMCL		NA	NA		50uL ->50mL
O61075	bs	NA	NA	w	2	ACQ_SIMCL	#13(OP)	NA	NA		20uL ->40mL
O61076	mb	NA	NA	w	3	ACQ_SIMCL		NA	NA		ND✓
O61077	fa78445-1		1	w	4	ACQ_SIMCL		NA	NA	1x	IS Fail
O61078	fa78445-1ms.10		1	w	5	ACQ_SIMCL	#13(OP)	1	n		✓
O61079	fa78445-1msd.10		1	w	6	ACQ_SIMCL	#13(OP)	1	n		✓
O61080	mb		NA	w	7	ACQ_SIMCL		NA	NA		ND✓
O61081	fa78445-2		1	w	8	ACQ_SIMCL		1	n		✓
O61082	fa78445-3		1	w	9	ACQ_SIMCL		1	n		ND✓
O61083	fa78445-4		1	w	10	ACQ_SIMCL		1	n		✓
O61084	fa78445-5		1	w	11	ACQ_SIMCL		1	n		✓
O61085	fa78445-6		1	w	12	ACQ_SIMCL		1	n		✓
O61086	fa78445-7		1	w	13	ACQ_SIMCL		1	n		✓
O61087	fa78445-8		1	w	14	ACQ_SIMCL		1	n		✓
O61088	fa78445-9		1	w	15	ACQ_SIMCL		1	n	1x	SS fail for DOD QSM criteria✓
O61089	fa78445-10		1	w	16	ACQ_SIMCL		1	n	1x	SS fail for DOD QSM criteria✓
O61090	fa78445-11		1	w	17	ACQ_SIMCL		1	n	1x	IS/SS fail
O61091	fa78445-12		1	w	18	ACQ_SIMCL		1	n	1x	IS/SS fail
O61092	fa78445-13		1	w	19	ACQ_SIMCL		1	n	1x	IS/SS fail
O61093	fa78445-14		1	w	20	ACQ_SIMCL		1	n	1x	IS/SS fail
O61094	fa78445-15		1	w	21	ACQ_SIMCL		1	n	1x	IS/SS fail
O61095	fa78445-16		1	w	22	ACQ_SIMCL		1	n	1x	IS/SS fail
O61096	fa78445-17		1	w	23	ACQ_SIMCL		1	n	1x	IS/SS fail
O61097	fa78445-18		1	w	NA	ACQ_SIMCL		NA	NA	1x	IS/SS fail
O61098	fa78445-19		1	w	NA	ACQ_SIMCL		NA	NA	1x	IS/SS fail
O61099	fa78445-20		1	w	NA	ACQ_SIMCL		NA	NA	1x	IS/SS fail
O61100	ecc2349-5			w	24	ACQ_SIMCL		NA	NA		

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument



MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/03/20		METHOD FILE(s): SimCl		BFB: V25942A		PH LOT: 1 to 12 pH lot #. 200814					
COLUMN TYPE: RTX-VMS		METHOD FILE(s): simcl090320.m		ICAL/CC: VS0934, VS0792		0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD		CALIB. DATE: 09/03/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1718V		ICV/QC: VS0907, VS0793		Processed BY: SO/JF					
PURGE PRESSURE: 9.7psi		BFB Response: 38738678		AFA: VS0418A		SAMPLE ID VERIFIED BY: SO					
PURGE VOLUME: 5 mL		RUN ID: VZ2408		DATE VERIFIED: 09/03/20							
ANALYST: Shanika O.											
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62037	BLK	-	-	w	1	acq_simcl0214		-	-	-	✓
Z62038	BLK	-	-	w	2	acq_simcl0214		-	-	-	✓
Z62039	BFB	-	-	w	100	bfb		-	-	-	✓ Passed Autofind
Z62040	IC2408-1	-	-	w	1	acq_simcl0214		-	-	-	1µL→100mL ✓
Z62041	IC2408-2	-	-	w	2	acq_simcl0214		-	-	-	5µL→100mL ✓
Z62042	IC2408-3	-	-	w	3	acq_simcl0214		-	-	-	10µL→50mL ✓
Z62043	IC2408-4	-	-	w	4	acq_simcl0214		-	-	-	25µL→50mL ✓
Z62044	IC2408-5	-	-	w	5	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62045	IC2408-6	-	-	w	6	acq_simcl0214		-	-	-	75µL→50mL ✓
Z62046	IC2408-7	-	-	w	7	acq_simcl0214	#18,20(MP)	-	-	-	100µL→50mL ✓
Z62047	BLK	-	-	w	8	acq_simcl0214		-	-	-	✓
Z62048	ICV2408-5	-	-	w	9	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62049	BS	-	-	w	10	acq_simcl0214		-	-	-	✓
Z62050	MB	-	-	w	11	acq_simcl0214		-	-	-	ND✓
Z62051	FA78405-2MS	1X	2	w	12	acq_simcl0214		1	NO	-	20µL→40mL ✓
Z62052	FA78405-2MSD	1X	2	w	13	acq_simcl0214		1	NO	-	20µL→40mL ✓
Z62053	FA78153-5	1X	3	w	14	acq_simcl0214		1	NO	-	✓
Z62054	FA78405-1	1X	1	w	15	acq_simcl0214		1	NO	-	ND✓
Z62055	FA78405-2	1X	1	w	16	acq_simcl0214		1	NO	-	✓
Z62056	FA78405-3	1X	1	w	17	acq_simcl0214		1	NO	-	ND✓
Z62057	FA78406-1	1X	1	w	18	acq_simcl0214		1	NO	-	✓
Z62058	FA78398-1	1X	2	w	19	acq_simcl0214		1	NO	-	ND✓
Z62059	FA78398-2	1X	1	w	20	acq_simcl0214		1	NO	-	✓
Z62060	FA78398-3	1X	1	w	21	acq_simcl0214		1	NO	-	✓
Z62061	FA78398-4	1X	1	w	22	acq_simcl0214		1	NO	-	ND✓
Z62062	FA78398-5	1X	1	w	23	acq_simcl0214		1	NO	-	✓
Z62063	FA78398-6	1X	1	w	24	acq_simcl0214		1	NO	-	✓
Z62064	FA78398-7	1X	1	w	25	acq_simcl0214		1	NO	-	✓
Z62065	FA78398-8	1X	1	w	26	acq_simcl0214		1	NO	-	✓
Z62066	FA78398-9	1X	1	w	27	acq_simcl0214		1	NO	-	✓
Z62067	FA78398-10	1X	1	w	28	acq_simcl0214		1	NO	-	✓
Z62068	ECC2408-5	-	-	w	29	acq_simcl0214		-	-	-	50µL→50mL ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005. Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration.

Analyst's Signature: *Shanika O.*

DATE: 09/05/20		METHOD FILE(s): simcl090320.m		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814					
COLUMN TYPE: RTX-VMS		CALIB. DATE: 09/03/20		ICAL/CC: VS0934, VS0792		0 to 3 pH lot#: 220416					
DETECTOR: 5975C MSD		EM VOLTAGE: 1718V		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		BFB Response: 20985395		ICV/QC: VS0907, VS0793		Processed BY: EdessaS					
PURGE PRESSURE: 9.7psi		RUN ID: VZ2410		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL						stutip					
ANALYST: stutip						DATE VERIFIED: 09/08/20					
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62101	BLK	-	-	W	1	acq_simcl0214		-	-	-	✓
Z62102	BLK	-	-	W	2	acq_simcl0214		-	-	-	✓
Z62103	BFB	-	-	W	3	bfb		-	-	-	Passed Autofind
Z62104	cond. std	-	-	W	4	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62105	blk	-	-	W	5	acq_simcl0214		-	-	-	
Z62106	blk	-	-	W	6	acq_simcl0214		-	-	-	
Z62107	bfb	-	-	W	7	bfb		-	-	-	
Z62108	cc2408-5	-	-	W	1	acq_simcl0214		-	-	-	Passed Autofind
Z62109	bs	-	-	W	2	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62110	mb	-	-	W	3	acq_simcl0214		-	-	-	20µL→40mL
Z62111	mb	-	-	W	4	acq_simcl0214		-	-	-	xNot used
Z62112	FA78445-21	-	-	W	5	acq_simcl0214		1	n	-	ND✓
Z62113	FA78445-22	-	-	W	6	acq_simcl0214		1	n	-	✓
Z62114	FA78445-23	-	-	W	7	acq_simcl0214		1	n	-	✓
Z62115	FA78445-24	-	-	W	8	acq_simcl0214		1	n	-	✓
Z62116	FA78445-25	-	-	W	9	acq_simcl0214		1	n	-	✓
Z62117	FA78445-1	-	-	W	10	acq_simcl0214		1	n	-	✓
Z62118	FA78445-11	-	-	W	11	acq_simcl0214		1	n	-	✓
Z62119	FA78445-12	-	-	W	12	acq_simcl0214		1	n	-	ND✓
Z62120	FA78445-13	-	-	W	13	acq_simcl0214		1	n	-	✓
Z62121	FA78445-14	-	-	W	14	acq_simcl0214		1	n	-	ND✓
Z62122	FA78445-15	-	-	W	15	acq_simcl0215		1	n	-	✓
Z62123	FA78445-16	-	-	W	16	acq_simcl0216		1	n	-	✓
Z62124	FA78445-17	-	-	W	17	acq_simcl0215		1	n	1x	surr↑
Z62125	FA78445-18	-	-	W	18	acq_simcl0216		1	n	-	surr↑, ND✓
Z62126	FA78445-19	-	-	W	19	acq_simcl0217		1	n	-	surr↑, ND✓
Z62127	FA78445-20	-	-	W	20	acq_simcl0218		1	n	-	surr↑, ND✓
Z62128	fa78443-1	-	-	W	21	acq_simcl0219		1	n	-	ND✓
Z62129	fa78443-2	-	-	W	22	acq_simcl0220		1	n	-	surr↑, ND✓
Z62130	fa78445-21ms.10	-	-	W	23	acq_simcl0221	5ml-50ml	1	n	-	20µL→40mL
Z62131	fa78445-21msd.10	-	-	W	24	acq_simcl0222	5ml-50ml	1	n	-	20µL→40mL
Z62132	ecc2408-5	-	-	W	25	acq_simcl0222		-	-	-	50µL→50mL ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005. Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration.

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWMP - OUCTP Lower 180)

SGS Job Number: FA78559

Sampling Date: 09/03/20



Report to:

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Total number of pages in report: **222**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA78559

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP Lower 180)

Sample Number	Collected		Matrix Code	Received	Type	Client Sample ID
	Date	Time By				
FA78559-1	09/03/20	08:00 LHTH	AQ	09/09/20	Trip Blank Water	2036W0BW111A
FA78559-2	09/03/20	08:30 LHTH	AQ	09/09/20	Ground Water	2036W0BW112F
FA78559-3	09/03/20	08:35 LHTH	AQ	09/09/20	Ground Water	2036W0BW113D
FA78559-4	09/03/20	10:00 LHTH	AQ	09/09/20	Ground Water	2036W0BW114F
FA78559-5	09/03/20	10:25 LHTH	AQ	09/09/20	Ground Water	2036W0BW115F
FA78559-6	09/03/20	12:55 LHTH	AQ	09/09/20	Ground Water	2036WOU2119F
FA78559-7	09/03/20	13:30 LHTH	AQ	09/09/20	Ground Water	2036WOU2120F
FA78559-8	09/03/20	07:35 TSLB	AQ	09/09/20	Ground Water	2036YOU2424F
FA78559-9	09/03/20	15:10 TSLB	AQ	09/09/20	Ground Water	2036YOU2447C
FA78559-10	09/03/20	08:28 RMCG	AQ	09/09/20	Ground Water	2036X0BW235F

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78559

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/23/2020 2:35:48

9 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 09/03/2020 and were received at SGS North America Inc - Orlando on 09/09/2020 properly preserved, at 3.2 Deg. C and intact. These Samples received an SGS Orlando job number of FA78559. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ

**Batch ID:** VO2361

All samples were analyzed within the recommended method holding time.

Sample(s) FA78559-1MS, FA78559-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA78559-9 have surrogates outside control limits.

FA78559-3 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78559-4 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78559-8 for Toluene-D8: Outside DOD QSM control limits.

FA78559-9 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78559-9 for Toluene-D8: Outside DOD QSM control limits.

FA78559-10 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

**Matrix:** AQ

**Batch ID:** VO2363

Sample(s) FA78559-9 have surrogates outside control limits. Confirmation run for surrogate recoveries.

FA78559-9: Confirmation run for surrogate recoveries.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)



## Summary of Hits

**Job Number:** FA78559  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

**FA78559-1**      **2036W0BW111A**

No hits reported in this sample.

**FA78559-2**      **2036W0BW112F**

Trichloroethylene	1.3	0.50	0.25	ug/l	SW846 8260B BY SIM
-------------------	-----	------	------	------	--------------------

**FA78559-3**      **2036W0BW113D**

Trichloroethylene	0.81	0.50	0.25	ug/l	SW846 8260B BY SIM
-------------------	------	------	------	------	--------------------

**FA78559-4**      **2036W0BW114F**

No hits reported in this sample.

**FA78559-5**      **2036W0BW115F**

No hits reported in this sample.

**FA78559-6**      **2036WOU2119F**

Trichloroethylene	0.40 J	0.50	0.25	ug/l	SW846 8260B BY SIM
-------------------	--------	------	------	------	--------------------

**FA78559-7**      **2036WOU2120F**

Carbon Tetrachloride	1.1	0.50	0.25	ug/l	SW846 8260B BY SIM
----------------------	-----	------	------	------	--------------------

**FA78559-8**      **2036YOU2424F**

Trichloroethylene	4.5	0.50	0.25	ug/l	SW846 8260B BY SIM
-------------------	-----	------	------	------	--------------------

**FA78559-9**      **2036YOU2447C**

No hits reported in this sample.

**FA78559-10**      **2036X0BW235F**

Carbon Tetrachloride	0.45 J	0.50	0.25	ug/l	SW846 8260B BY SIM
Trichloroethylene	0.10 J	0.50	0.25	ug/l	SW846 8260B BY SIM

Sample Results

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Report of Analysis

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SGS North America Inc.

## Report of Analysis

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<b>Client Sample ID:</b>	2036W0BW111A		
<b>Lab Sample ID:</b>	FA78559-1	<b>Date Sampled:</b>	09/03/20
<b>Matrix:</b>	AQ - Trip Blank Water	<b>Date Received:</b>	09/09/20
<b>Method:</b>	SW846 8260B BY SIM	<b>Percent Solids:</b>	n/a
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61361.D	1	09/14/20 12:02	AG	n/a	n/a	VO2361
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%		74-125%
2037-26-5	Toluene-D8	95%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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<b>Client Sample ID:</b>	2036W0BW112F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78559-2	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61362.D	1	09/14/20 12:22	AG	n/a	n/a	VO2361
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	1.3	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%		74-125%
2037-26-5	Toluene-D8	95%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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<b>Client Sample ID:</b>	2036W0BW113D	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78559-3	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61363.D	1	09/14/20 12:42	AG	n/a	n/a	VO2361
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.81	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	119% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	95%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036W0BW114F	
<b>Lab Sample ID:</b> FA78559-4	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61364.D	1	09/14/20 13:03	AG	n/a	n/a	VO2361
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	119% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	95%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	2036W0BW115F	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78559-5	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61367.D	1	09/14/20 14:04	AG	n/a	n/a	VO2361
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	113%		74-125%
2037-26-5	Toluene-D8	96%		88-111%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036WOU2119F	
<b>Lab Sample ID:</b> FA78559-6	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61368.D	1	09/14/20 14:24	AG	n/a	n/a	VO2361
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.40	0.50	0.25	0.10	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		74-125%
2037-26-5	Toluene-D8	96%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036WOU2120F	
<b>Lab Sample ID:</b> FA78559-7	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61369.D	1	09/14/20 14:44	AG	n/a	n/a	VO2361
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	1.1	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%		74-125%
2037-26-5	Toluene-D8	90%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036YOU2424F	
<b>Lab Sample ID:</b> FA78559-8	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61370.D	1	09/14/20 15:05	AG	n/a	n/a	VO2361
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	4.5	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%		74-125%
2037-26-5	Toluene-D8	88% <sup>a</sup>		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	2036YOU2447C	<b>Date Sampled:</b>	09/03/20
<b>Lab Sample ID:</b>	FA78559-9	<b>Date Received:</b>	09/09/20
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B BY SIM		
<b>Project:</b>	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61371.D	1	09/14/20 16:25	AG	n/a	n/a	VO2361
Run #2 <sup>a</sup>	O61412.D	1	09/16/20 15:32	AG	n/a	n/a	VO2363

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

### VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	120% <sup>b</sup>	115%	74-125%
2037-26-5	Toluene-D8	72% <sup>b</sup>	80% <sup>b</sup>	88-111%

(a) Confirmation run for surrogate recoveries.

(b) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036X0BW235F	
<b>Lab Sample ID:</b> FA78559-10	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61372.D	1	09/14/20 16:45	AG	n/a	n/a	VO2361
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.45	0.50	0.25	0.10	ug/l	J
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.10	0.50	0.25	0.10	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	120% <sup>a</sup>		74-125%
2037-26-5	Toluene-D8	91%		88-111%

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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Misc. Forms

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

CAD52039  
Ahtna

CHAIN OF CUSTODY

FA78559  
WATER / SOIL

Chain of Custody #: 0133

10F3

Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:		Analysis Requested		Lab Sample Receipt	
Project Location: <u>Former Fort Ord, CA</u>	Sampler/s: <u>L. Henderson / T. Huang</u>	<input type="checkbox"/> VOCs 8260 - SIM <input type="checkbox"/> Metals 6010 C <input type="checkbox"/> Chloride 9056A			Laboratory Sample Delivery
Project Name: <u>FFO 6UMP</u>	Report To: <u>Derek Lieberman</u>				Group #:
Project Number: <u>21065.000.01.0000</u>	E-Mail: <u>dlieberman@ahntna.net</u>				Custody Seal:
Sampling Event/Site: <u>3Q2020</u>	Laboratory: <u>SGS</u>				Temp (°C):

Lab Number	Sample Number/Description	Sample Collection		Matrix			Number of Preserved Bottles											VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Notes
		Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other						
1	2036W0R1111A	9/3/20	0800	X			2	2										X			
2	2036W0R1112F	9/3/20	0830	X			3	3										X			
3	2036W0R1113D	9/3/20	0835	X			3	3										X			Time @ 0835
4	2036W0R1114F	9/3/20	1000	X			3	3										X			
5	2036W0R1115F	9/3/20	1025	X			3	3										X			
6	2036W0U2119F	9/3/20	1253	X			3	3										X			
7	2036W0U2120F	9/3/20	1330	X			3	3										X			

INITIAL ASSESSMENT HR  
LABEL VERIFICATION Do

Turnaround Time:  Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush

Shipments: Method: Tracking ID:

Comments: OUC TP-Lower 180

Chain of Custody Tracking:			
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/3/20 1900</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/3/20 1600</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/4/20 1155</u>	Received By: <u>Lee B...</u>	Date/Time: <u>9/4/20 1155</u>
Relinquished By: <u>Lee B...</u>	Date/Time: <u>9/8/20 1500</u>	Received By: <u>FedEx</u>	Date/Time: <u>9/8/20 1500</u>

Shipping 09/09/20 10:15 3.2

FA78559: Chain of Custody

Page 1 of 4



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CADS2039  
Ahtna

CHAIN OF CUSTODY

WATER / SOIL

FA78559

0113

2023

Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:										Analysis Requested					Lab Sample Receipt					
Project Location: <u>Former Fort Ord, CA</u>			Sampler/s: <u>T. Short, L. Berger</u>							VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery							
Project Name: <u>Boseville GWMP</u>			Report To: <u>Derek Lieberman</u>										Group #: _____							
Project Number: <u>21065.000.01.0000</u>			E-Mail: <u>dlieberman@ahna.net</u>										Custody Seal: _____							
Sampling Event/Site: <u>FF06WMP 302020</u>			Laboratory: <u>SGS</u>										Temp (°C): _____							
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles										Notes				
	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHCO <sub>3</sub>	None	Other						
B	2036YOU2424F	9/13/20	0735	X			3	X												
C	2036YOU2447C	9/13/20	1510	X			3	X												

Turnaround Time:  Standard \_\_\_\_\_;  3-5 Day Rush \_\_\_\_\_;  48 Hour Rush \_\_\_\_\_;  24 Hour Rush \_\_\_\_\_

Shipment Method: \_\_\_\_\_ Tracking ID: \_\_\_\_\_

Comments:

OUCTP Lower

Chain of Custody Tracking:

Relinquished By Sampler: <u>[Signature]</u>	Date/Time: <u>9/13/2020 1601</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/13/20</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/14/20 1155</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/14/20 1155</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/18/20 1500</u>	Received By Laboratory: <u>FEDEX</u>	Date/Time: <u>9/18/20 1500</u>

bucket 09/09/20 10:15

FA78559: Chain of Custody

Page 2 of 4



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## SGS Sample Receipt Summary

Job Number: FA78559

Client: AHTNA

Project: Former Fort Ord, CA - OUCTP Lower 180

Date / Time Received: 9/9/2020 10:15:00 AM

Delivery Method: FedEx

Airbill #s: 771472457105

Therm ID: IR 1;	Therm CF: -0.2;	# of Coolers: 1
Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);		
Cooler Temps (Corrected) °C: Cooler 1: (3.2);		

Cooler Information	Y	or	N
1. Custody Seals Present	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Temp criteria achieved	<input checked="" type="checkbox"/>		<input type="checkbox"/>
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

3. Type Of TB Received	W	or	S	N/A
	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Samples preserved properly	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Sufficient volume/containers recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Condition of sample	Intact			
5. Sample recvd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
6. Dates/Times/IDs on COC match Sample Label	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
7. VOCs have headspace	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Voa Soil Kits/Jars received past 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Misc. Information			
Number of Encores: 25-Gram _____	5-Gram _____	Number of 5035 Field Kits: _____	Number of Lab Filtered Metals: _____
Test Strip Lot #s: pH 0-3 _____	230315 _____	pH 10-12 _____	219813A _____
Residual Chlorine Test Strip Lot #: _____			

Comments

SM001 Rev. Date 05/24/17      Technician: JENNAK      Date: 9/9/2020 10:15:00 AM      Reviewer: PH      Date: 9/10/2020

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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78559  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VO2361 SW846 8260B BY SIM							
VO2361-BS	56-23-5	Carbon Tetrachloride	BSP	REC	100	%	72-136
VO2361-BS	107-06-2	1,2-Dichloroethane	BSP	REC	92	%	73-128
VO2361-BS	79-01-6	Trichloroethylene	BSP	REC	96	%	79-123
VO2361-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	99	%	81-118
VO2361-BS	2037-26-5	Toluene-D8	BSP	SURR	89	%	89-112
FA78559-1MS	56-23-5	Carbon Tetrachloride	MS	REC	108	%	72-136
FA78559-1MS	107-06-2	1,2-Dichloroethane	MS	REC	100	%	73-128
FA78559-1MS	79-01-6	Trichloroethylene	MS	REC	100	%	79-123
FA78559-1MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	102	%	81-118
FA78559-1MS	2037-26-5	Toluene-D8	MS	SURR	85 <sup>a</sup>	%	89-112
FA78559-1MSD	56-23-5	Carbon Tetrachloride	MSD	REC	106	%	72-136
FA78559-1MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	2	%	20
FA78559-1MSD	107-06-2	1,2-Dichloroethane	MSD	REC	98	%	73-128
FA78559-1MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	2	%	20
FA78559-1MSD	79-01-6	Trichloroethylene	MSD	REC	99	%	79-123
FA78559-1MSD	79-01-6	Trichloroethylene	MSD	RPD	1	%	20
FA78559-1MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	100	%	81-118
FA78559-1MSD	2037-26-5	Toluene-D8	MSD	SURR	87 <sup>a</sup>	%	89-112
VO2361-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	109	%	81-118
VO2361-MB	2037-26-5	Toluene-D8	MB	SURR	98	%	89-112
FA78559-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	115	%	81-118
FA78559-1	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FA78559-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	118	%	81-118
FA78559-2	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FA78559-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	119 <sup>b</sup>	%	81-118
FA78559-3	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FA78559-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	119 <sup>b</sup>	%	81-118
FA78559-4	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FA78559-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	113	%	81-118
FA78559-5	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FA78559-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	116	%	81-118
FA78559-6	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FA78559-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	118	%	81-118
FA78559-7	2037-26-5	Toluene-D8	SAMP	SURR	90	%	89-112
FA78559-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	118	%	81-118
FA78559-8	2037-26-5	Toluene-D8	SAMP	SURR	88 <sup>b</sup>	%	89-112
FA78559-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	120 <sup>b</sup>	%	81-118
FA78559-9	2037-26-5	Toluene-D8	SAMP	SURR	72 <sup>b</sup>	%	89-112
FA78559-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	120 <sup>b</sup>	%	81-118
FA78559-10	2037-26-5	Toluene-D8	SAMP	SURR	91	%	89-112

(a) Outside control limits.

\* Sample used for QC is not from job FA78559

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78559  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
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(b) Outside DOD QSM control limits.

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\* Sample used for QC is not from job FA78559

## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2361-MB	O61358.D	1	09/14/20	AG	n/a	n/a	VO2361

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78559-1, FA78559-2, FA78559-3, FA78559-4, FA78559-5, FA78559-6, FA78559-7, FA78559-8, FA78559-9, FA78559-10

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	109%	74-125%
2037-26-5	Toluene-D8	98%	88-111%

**Blank Spike Summary**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2361-BS	O61357.D	1	09/14/20	AG	n/a	n/a	VO2361

**The QC reported here applies to the following samples:**

**Method:** SW846 8260B BY SIM

FA78559-1, FA78559-2, FA78559-3, FA78559-4, FA78559-5, FA78559-6, FA78559-7, FA78559-8, FA78559-9, FA78559-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.0	100	76-136
107-06-2	1,2-Dichloroethane	5	4.6	92	75-125
79-01-6	Trichloroethylene	5	4.8	96	81-126

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	99%	74-125%
2037-26-5	Toluene-D8	89%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78559-1MS	O61365.D	20	09/14/20	AG	n/a	n/a	VO2361
FA78559-1MSD	O61366.D	20	09/14/20	AG	n/a	n/a	VO2361
FA78559-1	O61361.D	1	09/14/20	AG	n/a	n/a	VO2361

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78559-1, FA78559-2, FA78559-3, FA78559-4, FA78559-5, FA78559-6, FA78559-7, FA78559-8, FA78559-9, FA78559-10

CAS No.	Compound	FA78559-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	100	108	108	100	106	106	2	76-136/23
107-06-2	1,2-Dichloroethane	0.50 U	100	99.7	100	100	98.0	98	2	75-125/14
79-01-6	Trichloroethylene	0.50 U	100	99.7	100	100	98.9	99	1	81-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA78559-1	Limits
17060-07-0	1,2-Dichloroethane-D4	102%	100%	115%	74-125%
2037-26-5	Toluene-D8	85% * a	87% * a	95%	88-111%

(a) Outside control limits.

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2356-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61227.D	<b>Injection Time:</b> 14:01
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	105346	30.7	Pass
75	30.0 - 60.0% of mass 95	169774	49.4	Pass
95	Base peak, 100% relative abundance	343616	100.0	Pass
96	5.0 - 9.0% of mass 95	25531	7.43	Pass
173	Less than 2.0% of mass 174	1340	0.39 (0.45) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	294848	85.8	Pass
175	5.0 - 9.0% of mass 174	20565	5.98 (6.97) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	284096	82.7 (96.4) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	17677	5.14 (6.22) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2356-IC2356	O61230.D	09/11/20	15:34	01:33	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20	15:54	01:53	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20	16:14	02:13	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20	16:35	02:34	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20	16:55	02:54	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20	17:15	03:14	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20	17:36	03:35	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20	18:16	04:15	Initial cal verification 5



**Instrument Performance Check (BFB)**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2361-BFB	<b>Injection Date:</b> 09/14/20
<b>Lab File ID:</b> O61355.D	<b>Injection Time:</b> 08:40
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	127584	34.1	Pass
75	30.0 - 60.0% of mass 95	179477	48.0	Pass
95	Base peak, 100% relative abundance	374165	100.0	Pass
96	5.0 - 9.0% of mass 95	26763	7.15	Pass
173	Less than 2.0% of mass 174	2080	0.56 (0.58) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	356437	95.3	Pass
175	5.0 - 9.0% of mass 174	25859	6.91 (7.25) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	346304	92.6 (97.2) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	23328	6.23 (6.74) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2361-CC2356	O61356.D	09/14/20	09:12	00:32	Continuing cal 5
VO2361-BS	O61357.D	09/14/20	09:49	01:09	Blank Spike
VO2361-MB	O61358.D	09/14/20	10:09	01:29	Method Blank
FA78559-1	O61361.D	09/14/20	12:02	03:22	2036W0BW111A
FA78559-2	O61362.D	09/14/20	12:22	03:42	2036W0BW112F
FA78559-3	O61363.D	09/14/20	12:42	04:02	2036W0BW113D
FA78559-4	O61364.D	09/14/20	13:03	04:23	2036W0BW114F
FA78559-1MS	O61365.D	09/14/20	13:23	04:43	Matrix Spike
FA78559-1MSD	O61366.D	09/14/20	13:43	05:03	Matrix Spike Duplicate
FA78559-5	O61367.D	09/14/20	14:04	05:24	2036W0BW115F
FA78559-6	O61368.D	09/14/20	14:24	05:44	2036WOU2119F
FA78559-7	O61369.D	09/14/20	14:44	06:04	2036WOU2120F
FA78559-8	O61370.D	09/14/20	15:05	06:25	2036YOU2424F
FA78559-9	O61371.D	09/14/20	16:25	07:45	2036YOU2447C
FA78559-10	O61372.D	09/14/20	16:45	08:05	2036X0BW235F
VO2361-ECC2356	O61373.D	09/14/20	17:05	08:25	Ending cal 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2362-BFB	<b>Injection Date:</b> 09/15/20
<b>Lab File ID:</b> O61385.D	<b>Injection Time:</b> 14:52
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	96941	32.8	Pass
75	30.0 - 60.0% of mass 95	142400	48.2	Pass
95	Base peak, 100% relative abundance	295275	100.0	Pass
96	5.0 - 9.0% of mass 95	22317	7.56	Pass
173	Less than 2.0% of mass 174	1976	0.67 (0.67) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	294869	99.9	Pass
175	5.0 - 9.0% of mass 174	20685	7.01 (7.01) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	280789	95.1 (95.2) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	17438	5.91 (6.21) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2362-IC2362	O61386.D	09/15/20	15:46	00:54	Initial cal 1
VO2362-IC2362	O61387.D	09/15/20	16:06	01:14	Initial cal 2
VO2362-IC2362	O61388.D	09/15/20	16:26	01:34	Initial cal 3
VO2362-IC2362	O61389.D	09/15/20	16:47	01:55	Initial cal 4
VO2362-ICC2362	O61390.D	09/15/20	17:07	02:15	Initial cal 5
VO2362-IC2362	O61391.D	09/15/20	17:28	02:36	Initial cal 6
VO2362-IC2362	O61392.D	09/15/20	17:48	02:56	Initial cal 7
VO2362-ICV2362	O61394.D	09/15/20	18:29	03:37	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2363-BFB	<b>Injection Date:</b> 09/16/20
<b>Lab File ID:</b> O61401.D	<b>Injection Time:</b> 11:07
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	103707	33.0	Pass
75	30.0 - 60.0% of mass 95	147861	47.0	Pass
95	Base peak, 100% relative abundance	314688	100.0	Pass
96	5.0 - 9.0% of mass 95	23037	7.32	Pass
173	Less than 2.0% of mass 174	1559	0.50 (0.51) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	305045	96.9	Pass
175	5.0 - 9.0% of mass 174	21837	6.94 (7.16) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	297067	94.4 (97.4) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	18176	5.78 (6.12) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2363-CC2362	O61402.D	09/16/20	11:32	00:25	Continuing cal 5
VO2363-BS	O61403.D	09/16/20	12:11	01:04	Blank Spike
VO2363-MB	O61405.D	09/16/20	13:09	02:02	Method Blank
ZZZZZZ	O61406.D	09/16/20	13:29	02:22	(unrelated sample)
ZZZZZZ	O61407.D	09/16/20	13:50	02:43	(unrelated sample)
ZZZZZZ	O61408.D	09/16/20	14:10	03:03	(unrelated sample)
ZZZZZZ	O61409.D	09/16/20	14:30	03:23	(unrelated sample)
ZZZZZZ	O61410.D	09/16/20	14:51	03:44	(unrelated sample)
ZZZZZZ	O61411.D	09/16/20	15:11	04:04	(unrelated sample)
FA78559-9	O61412.D	09/16/20	15:32	04:25	2036YOU2447C
ZZZZZZ	O61414.D	09/16/20	16:13	05:06	(unrelated sample)
ZZZZZZ	O61415.D	09/16/20	16:33	05:26	(unrelated sample)
ZZZZZZ	O61416.D	09/16/20	16:53	05:46	(unrelated sample)
ZZZZZZ	O61417.D	09/16/20	17:14	06:07	(unrelated sample)
ZZZZZZ	O61418.D	09/16/20	17:34	06:27	(unrelated sample)
ZZZZZZ	O61419.D	09/16/20	17:55	06:48	(unrelated sample)
ZZZZZZ	O61420.D	09/16/20	18:15	07:08	(unrelated sample)
VO2363-ECC2362	O61422.D	09/17/20	08:05	20:58	Ending cal 5

# Internal Standard Area Summary

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VO2361-CC2356	<b>Injection Date:</b> 09/14/20
<b>Lab File ID:</b> O61356.D	<b>Injection Time:</b> 09:12
<b>Instrument ID:</b> GCMSO	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	367891	7.35	288681	10.45
Check Std <sup>b</sup>	353456	7.34	295261	10.44
Upper Limit <sup>c</sup>	706912	7.51	590522	10.61
Lower Limit <sup>d</sup>	176728	7.17	147631	10.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VO2361-BS	327975	7.34	264717	10.44
VO2361-MB	271935	7.35	208524	10.45
FA78559-1	225905	7.35	177539	10.45
FA78559-2	217831	7.35	171204	10.45
FA78559-3	209206	7.35	165370	10.45
FA78559-4	205699	7.35	162616	10.45
FA78559-1MS	265887	7.35	217599	10.45
FA78559-1MSD	284995	7.35	231610	10.45
FA78559-5	236118	7.35	182820	10.45
FA78559-6	217968	7.35	170674	10.45
FA78559-7	210830	7.35	174477	10.45
FA78559-8	208388	7.35	178665	10.45
FA78559-9	212284	7.34	216836	10.44
FA78559-10	210205	7.35	174075	10.45
VO2361-ECC2356309629	7.35	261813	10.45	

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2356-ICC2356 O61234.D 09/11/20 16:55
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

6.5.1  
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# Internal Standard Area Summary

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VO2363-CC2362	<b>Injection Date:</b> 09/16/20
<b>Lab File ID:</b> O61402.D	<b>Injection Time:</b> 11:32
<b>Instrument ID:</b> GCMSO	<b>Method:</b> SW846 8260B BY SIM

	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
	<b>AREA</b>		<b>AREA</b>	
Initial Cal <sup>a</sup>	305864	7.34	250755	10.44
Check Std <sup>b</sup>	325847	7.34	270075	10.44
Upper Limit <sup>c</sup>	651694	7.51	540150	10.61
Lower Limit <sup>d</sup>	162924	7.17	135038	10.27

<b>Lab</b>	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
<b>Sample ID</b>	<b>AREA</b>		<b>AREA</b>	
VO2363-BS <sup>e</sup>	320586	7.34	256344	10.44
VO2363-MB	238146	7.35	183919	10.45
ZZZZZZ	224280	7.35	182597	10.45
ZZZZZZ	216471	7.35	178619	10.45
ZZZZZZ	206526	7.35	162387	10.45
ZZZZZZ	197208	7.35	154209	10.45
ZZZZZZ	194058	7.35	193477	10.45
ZZZZZZ	188143	7.35	152706	10.45
FA78559-9 <sup>f</sup>	187324	7.35	187821	10.45
ZZZZZZ	174772	7.35	135780	10.45
ZZZZZZ	172443	7.35	135200	10.45
ZZZZZZ	172782	7.35	134116*	10.45
ZZZZZZ	165610	7.35	131594*	10.45
ZZZZZZ	167325	7.35	130941*	10.45
ZZZZZZ	217133	7.35	142690	10.45
ZZZZZZ	164510	7.35	131208*	10.45
VO2363-ECC2362264356	256344	7.34	231809	10.44

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2362-ICC2362 O61390.D 09/15/20 17:07
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
- (e) No MS/MSD available for this run.
- (f) Confirmation run for surrogate recoveries.

# Surrogate Recovery Summary

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA78559-1	O61361.D	115	95
FA78559-2	O61362.D	118	95
FA78559-3	O61363.D	119 <sup>a</sup>	95
FA78559-4	O61364.D	119 <sup>a</sup>	95
FA78559-5	O61367.D	113	96
FA78559-6	O61368.D	116	96
FA78559-7	O61369.D	118	90
FA78559-8	O61370.D	118	88 <sup>a</sup>
FA78559-9	O61412.D	115	80* <sup>a</sup>
FA78559-9	O61371.D	120 <sup>a</sup>	72* <sup>a</sup>
FA78559-10	O61372.D	120 <sup>a</sup>	91
FA78559-1MS	O61365.D	102	85* <sup>b</sup>
FA78559-1MSD	O61366.D	100	87* <sup>b</sup>
VO2361-BS	O61357.D	99	89
VO2361-MB	O61358.D	109	98

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

- (a) Outside DOD QSM control limits.
- (b) Outside control limits.

# Initial Calibration Summary

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

## Response Factor Report MSVOA12

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

### Calibration Files

1 =O61230.D 2 =O61231.D 3 =O61232.D 4 =O61233.D  
 5 =O61234.D 6 =O61235.D 7 =O61236.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
-----									
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.558	0.633	0.571	0.573	0.524	0.492	0.473	0.546	9.96
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.59060 *A + -0.03053 *A^2								
3) Chloromethane	1.395	1.093	0.857	0.828	0.737	0.682	0.649	0.892	29.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.88497 *A + -0.06257 *A^2								
4) 1,1-Dichloroethen	0.648	0.725	0.662	0.734	0.703	0.672	0.694	0.691	4.67
5) Methylene Chlorid	2.151	0.418	0.186	0.117	0.102	0.095	0.094	0.452	E1 167.87
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9916								
	Response Ratio = 0.00000 + 1.08258 *A								
6) trans-1,2-Dichlor	0.823	0.909	0.775	0.847	0.805	0.778	0.808	0.821	5.65
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.79595 *A + 0.00117 *A^2								
7) 1,1-Dichloroethan	0.920	0.983	0.903	0.972	0.919	0.884	0.906	0.927	3.97
8) cis-1,2-Dichloroe	0.471	0.472	0.435	0.472	0.454	0.444	0.460	0.458	3.24
9) Chloroform	0.840	0.844	0.764	0.827	0.779	0.754	0.774	0.798	4.79
10) Carbon Tetrachlor	0.502	0.562	0.506	0.571	0.556	0.537	0.571	0.544	5.38
11) 1,1,1-Trichloroet	0.593	0.629	0.576	0.645	0.621	0.604	0.636	0.615	4.06
12) Benzene	1.681	1.663	1.504	1.628	1.554	1.503	1.551	1.583	4.64
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 1.54480 *A + -0.00157 *A^2								
13)S 1,2-Dichloroethan	0.407	0.407	0.413	0.434	0.389	0.389	0.387	0.404	4.23
14) 1,2-Dichloroethan	0.768	0.789	0.746	0.780	0.737	0.728	0.733	0.754	3.24
15) Trichloroethene	0.466	0.487	0.444	0.487	0.472	0.461	0.476	0.470	3.22
16) 1,2-Dichloropropa	0.514	0.567	0.519	0.548	0.517	0.503	0.519	0.527	4.30
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 0.51595 *A + -0.00029 *A^2								
17) cis-1,3-Dichlorop	0.485	0.515	0.497	0.552	0.551	0.561	0.582	0.535	6.69
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.161	1.150	1.123	1.108	1.100	1.117	1.132	1.127	1.95
20) trans-1,3-Dichlor	0.576	0.606	0.611	0.681	0.682	0.706	0.738	0.657	9.10
21) Tetrachloroethene	0.563	0.631	0.539	0.583	0.555	0.541	0.566	0.568	5.54
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.54272 *A + 0.00447 *A^2								
22) 1,4-Dichlorobenze	1.098	1.175	1.110	1.205	1.177	1.154	1.188	1.158	3.46
23) 1,2-Dibromo-3-Chl	0.334	0.260	0.190	0.205	0.209	0.220	0.225	0.235	20.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								

6.7.1  
6

# Initial Calibration Summary

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

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$$\text{Response Ratio} = 0.00000 + 0.20028 *A + 0.00615 *A^2$$

-----  
(#) = Out of Range

SIMCL091120.M

Sun Sep 13 19:41:25 2020



## Initial Calibration Verification

Job Number: FA78559  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2356-ICV2356  
 Lab FileID: O61238.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\091120\O61238.D Vial: 10  
 Acq On : 11 Sep 2020 6:16 pm Operator: stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00	7.35
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	8.489	15.1	93	0.00	2.90
3	Chloromethane	10.000	8.270	17.3	94	0.00	2.80
	----- AvgRF	CCRF	%Dev	-----			
4	1,1-Dichloroethene	0.691	0.646	6.5	98	0.00	4.09
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	8.887	11.1	101	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	9.532	4.7	101	0.00	4.87
	----- AvgRF	CCRF	%Dev	-----			
7	1,1-Dichloroethane	0.927	0.885	4.5	103	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.443	3.3	104	0.00	6.07
9	Chloroform	0.798	0.745	6.6	102	0.00	6.33
10	Carbon Tetrachloride	0.544	0.522	4.0	100	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.580	5.7	100	0.00	6.58
	----- Amount	Calc.	%Drift	-----			
12	Benzene	10.000	10.095	-1.0	107	0.00	6.94
	----- AvgRF	CCRF	%Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.386	4.5	106	0.00	7.07
14	1,2-Dichloroethane	0.754	0.741	1.7	107	0.00	7.14
15	Trichloroethene	0.470	0.466	0.9	105	0.00	7.52
	----- Amount	Calc.	%Drift	-----			
16	1,2-Dichloropropane	10.000	10.102	-1.0	108	0.00	8.04
	----- AvgRF	CCRF	%Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.573	-7.1	111	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	10.45
19 S	Toluene-d8	1.127	1.117	0.9	108	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.726	-10.5	113	0.00	9.34
	----- Amount	Calc.	%Drift	-----			
21	Tetrachloroethene	10.000	9.602	4.0	101	0.00	9.34
	----- AvgRF	CCRF	%Dev	-----			

# Initial Calibration Verification

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICV2356  
**Lab FileID:** O61238.D

---

22	1,4-Dichlorobenzene	1.158	1.170	-1.0	105	0.00	12.83
	-----	Amount	Calc.	%Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	10.133	-1.3	109	0.00	14.04
	-----				-----		

---

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
061234.D    SIMCL091120.M              Sun Sep 13 19:41:09 2020

6.7.2

6

**Continuing Calibration Summary**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2361-CC2356  
**Lab FileID:** O61356.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\vo2361\O61356.d Vial: 1  
 Acq On : 14 Sep 2020 9:12 am Operator: akarig  
 Sample : cc2356-5 Inst : MSVOA12  
 Misc : MS47193,VO2361,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	96	0.00	7.34
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	8.801	12.0	87	-0.01	2.90
3	Chloromethane	10.000	8.460	15.4	86	-0.01	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.648	6.2	89	-0.01	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	8.728	12.7	89	-0.01	4.69
6	trans-1,2-Dichloroethene	10.000	8.764	12.4	83	-0.01	4.86
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.796	14.1	83	-0.01	5.50
8	cis-1,2-Dichloroethene	0.458	0.366	20.1#	78	-0.01	6.06
9	Chloroform	0.798	0.660	17.3	81	-0.01	6.32
10	Carbon Tetrachloride	0.544	0.487	10.5	84	0.00	6.50
11	1,1,1-Trichloroethane	0.615	0.517	15.9	80	-0.01	6.57
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	8.166	18.3	78	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.407	-0.7	101	0.00	7.07
14	1,2-Dichloroethane	0.754	0.614	18.6	80	-0.01	7.13
15	Trichloroethene	0.470	0.387	17.7	79	-0.01	7.51
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	8.580	14.2	82	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.425	20.6#	74	0.00	8.70
18 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.44
19 S	Toluene-d8	1.127	0.990	12.2	92	0.00	8.89
20	trans-1,3-Dichloropropene	0.657	0.498	24.2#	75	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	8.245	17.6	84	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2361-CC2356  
**Lab FileID:** O61356.D

---

22	1,4-Dichlorobenzene	1.158	0.940	18.8	82	0.00	12.82
----	---------------------	-------	-------	------	----	------	-------

	----- True	Calc.	% Drift	-----			
23	1,2-Dibromo-3-Chloropropa	10.000	8.220	17.8	85	0.00	14.03

-----  
 -----

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 22:36:55 2020

6.7.3

6

## Continuing Calibration Summary

Job Number: FA78559  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2361-ECC2356  
 Lab FileID: O61373.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ed...-2020\vo2361\O61373.d Vial: 16  
 Acq On : 14 Sep 2020 5:05 pm Operator: akarig  
 Sample : ecc2356-5 Inst : MSVOA12  
 Misc : MS47208,VO2361,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	84	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.146	-1.5	86	0.00	2.90
3	Chloromethane	10.000	10.385	-3.8	90	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.712	-3.0	85	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	10.463	-4.6	94	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	9.565	4.4	80	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.886	4.4	81	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.400	12.7	74	0.00	6.07
9	Chloroform	0.798	0.740	7.3	80	0.00	6.33
10	Carbon Tetrachloride	0.544	0.506	7.0	77	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.563	8.5	76	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	9.286	7.1	78	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.400	1.0	87	0.00	7.07
14	1,2-Dichloroethane	0.754	0.702	6.9	80	0.00	7.14
15	Trichloroethene	0.470	0.437	7.0	78	0.00	7.51
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	9.410	5.9	79	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.445	16.8	68	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00	10.45
19 S	Toluene-d8	1.127	0.951	15.6	78	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.532	19.0	71	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	9.220	7.8	83	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2361-ECC2356  
**Lab FileID:** O61373.D

22	1,4-Dichlorobenzene	1.158	1.092	5.7	84	0.00	12.83
		----- True	Calc.	% Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	7.541	24.6	68	0.00	14.04

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 22:37:25 2020

6.7.4

6

# Initial Calibration Summary

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2362-ICC2362  
**Lab FileID:** O61390.D

Response Factor Report MSVOA12

Method : C:\msdchem\2\methods\SIMCL091520.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

Calibration Files

1 =O61386.D 2 =O61387.D 3 =O61388.D 4 =O61389.D  
 5 =O61390.D 6 =O61391.D 7 =O61392.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
-----									
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.763	0.768	0.679	0.572	0.569	0.550	0.488	0.627	17.55
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985								
	Response Ratio = 0.00000 + 0.65691 *A + -0.04089 *A^2								
3) Chloromethane	2.259	1.295	1.010	0.835	0.807	0.761	0.666	1.090	50.89
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981								
	Response Ratio = 0.00000 + 0.99722 *A + -0.08338 *A^2								
4) 1,1-Dichloroethen	0.821	0.811	0.741	0.728	0.742	0.702	0.699	0.749	6.52
5) Methylene Chlorid	5.223	2.011	1.397	1.209	1.137	1.053	0.989	1.860	81.86
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9969								
	Response Ratio = 0.00000 + 1.42164 *A + -0.11581 *A^2								
6) trans-1,2-Dichlor	0.954	0.958	0.829	0.807	0.833	0.807	0.798	0.855	8.18
7) 1,1-Dichloroethan	1.081	1.055	0.985	0.946	0.951	0.914	0.889	0.975	7.29
8) cis-1,2-Dichloroe	0.475	0.456	0.421	0.420	0.438	0.435	0.435	0.440	4.42
9) Chloroform	0.996	0.901	0.817	0.787	0.786	0.759	0.739	0.827	11.00
10) Carbon Tetrachlor	0.654	0.607	0.558	0.535	0.553	0.539	0.536	0.569	7.98
11) 1,1,1-Trichloroet	0.648	0.689	0.643	0.627	0.644	0.627	0.624	0.643	3.50
12) Benzene	1.647	1.578	1.507	1.517	1.551	1.517	1.494	1.545	3.47
13)S 1,2-Dichloroethan	0.468	0.460	0.429	0.412	0.402	0.394	0.385	0.421	7.62
14) 1,2-Dichloroethan	0.840	0.814	0.770	0.741	0.740	0.717	0.695	0.760	6.86
15) Trichloroethene	0.496	0.473	0.443	0.446	0.460	0.456	0.449	0.461	4.05
16) 1,2-Dichloropropa	0.548	0.540	0.512	0.505	0.510	0.499	0.489	0.515	4.18
17) cis-1,3-Dichlorop	0.441	0.434	0.421	0.448	0.489	0.509	0.525	0.467	8.67
-----									
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.082	1.040	1.015	0.980	0.985	0.989	1.052	1.020	3.82
20) trans-1,3-Dichlor	0.509	0.514	0.533	0.554	0.597	0.619	0.657	0.569	9.93
21) Tetrachloroethene	0.641	0.626	0.582	0.552	0.545	0.527	0.534	0.573	7.93
22) 1,4-Dichlorobenze	0.981	1.015	1.117	1.110	1.134	1.161	1.129	1.092	6.15
23) 1,2-Dibromo-3-Chl	0.200	0.180	0.182	0.180	0.189	0.198	0.202	0.190	5.13

(#) = Out of Range

SIMCL091520.M

Wed Sep 16 09:06:27 2020

6.7.5

6

## Initial Calibration Verification

Job Number: FA78559  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2362-ICV2362  
 Lab FileID: O61394.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\091520\O61394.D Vial: 15  
 Acq On : 15 Sep 2020 6:29 pm Operator: AKARIG  
 Sample : ICV2362-5 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091520.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Wed Sep 16 09:02:25 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	115	0.00	7.34
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	8.114	18.9	97	0.00	2.90
3	Chloromethane	10.000	7.698	23.0#	95	-0.01	2.80
	----- AvgRF	CCRF	%Dev	-----			
4	1,1-Dichloroethene	0.749	0.691	7.7	107	-0.01	4.08
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	8.784	12.2	108	-0.01	4.70
	----- AvgRF	CCRF	%Dev	-----			
6	trans-1,2-Dichloroethene	0.855	0.802	6.2	111	0.00	4.87
7	1,1-Dichloroethane	0.975	0.925	5.1	112	0.00	5.51
8	cis-1,2-Dichloroethene	0.440	0.440	0.0	115	0.00	6.06
9	Chloroform	0.827	0.757	8.5	111	0.00	6.33
10	Carbon Tetrachloride	0.569	0.530	6.9	110	0.00	6.50
11	1,1,1-Trichloroethane	0.643	0.615	4.4	110	0.00	6.57
12	Benzene	1.545	1.581	-2.3	117	0.00	6.94
13 S	1,2-Dichloroethane-d4	0.421	0.394	6.4	113	0.00	7.07
14	1,2-Dichloroethane	0.760	0.740	2.6	115	0.00	7.14
15	Trichloroethene	0.461	0.462	-0.2	115	0.00	7.51
16	1,2-Dichloropropane	0.515	0.520	-1.0	117	0.00	8.04
17	cis-1,3-Dichloropropene	0.467	0.526	-12.6	123	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00	10.44
19 S	Toluene-d8	1.020	1.039	-1.9	117	0.00	8.90
20	trans-1,3-Dichloropropene	0.569	0.665	-16.9	123	0.00	9.34
21	Tetrachloroethene	0.573	0.534	6.8	108	0.00	9.34
22	1,4-Dichlorobenzene	1.092	1.144	-4.8	112	0.00	12.82
23	1,2-Dibromo-3-Chloropropa	0.190	0.200	-5.3	117	0.00	14.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 O61390.D SIMCL091520.M Wed Sep 16 09:06:17 2020



**Continuing Calibration Summary**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2363-CC2362  
**Lab FileID:** O61402.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vo2363\O61402.d Vial: 3  
 Acq On : 16 Sep 2020 11:32 am Operator: akarig  
 Sample : cc2362-5 Inst : MSVOA12  
 Misc : MS47193,VO2363,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091520.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Wed Sep 16 09:02:25 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00	7.34
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	8.736	12.6	96	0.00	2.90
3	Chloromethane	10.000	8.417	15.8	95	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.749	0.676	9.7	97	-0.01	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	8.267	17.3	95	0.00	4.70
	----- AvgRF	CCRF	% Dev	-----			
6	trans-1,2-Dichloroethene	0.855	0.749	12.4	96	0.00	4.87
7	1,1-Dichloroethane	0.975	0.857	12.1	96	0.00	5.51
8	cis-1,2-Dichloroethene	0.440	0.402	8.6	98	-0.01	6.06
9	Chloroform	0.827	0.709	14.3	96	0.00	6.33
10	Carbon Tetrachloride	0.569	0.497	12.7	96	0.00	6.50
11	1,1,1-Trichloroethane	0.643	0.549	14.6	91	0.00	6.58
12	Benzene	1.545	1.395	9.7	96	0.00	6.94
13 S	1,2-Dichloroethane-d4	0.421	0.396	5.9	105	0.00	7.07
14	1,2-Dichloroethane	0.760	0.666	12.4	96	0.00	7.14
15	Trichloroethene	0.461	0.409	11.3	95	0.00	7.51
16	1,2-Dichloropropane	0.515	0.469	8.9	98	0.00	8.04
17	cis-1,3-Dichloropropene	0.467	0.460	1.5	100	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	10.44
19 S	Toluene-d8	1.020	1.001	1.9	109	0.00	8.90
20	trans-1,3-Dichloropropene	0.569	0.545	4.2	98	0.00	9.34
21	Tetrachloroethene	0.573	0.477	16.8	94	0.00	9.34
22	1,4-Dichlorobenzene	1.092	1.005	8.0	95	0.00	12.82
23	1,2-Dibromo-3-Chloropropa	0.190	0.171	10.0	98	0.00	14.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 O61390.D SIMCL091520.M Thu Sep 17 04:58:34 2020

**Continuing Calibration Summary**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2363-ECC2362  
**Lab FileID:** O61422.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\091620\O61422.D Vial: 2  
 Acq On : 17 Sep 2020 8:05 am Operator: JuanG  
 Sample : ecc2362-5 Inst : MSVOA12  
 Misc : MS47193,VO2363,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091520.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Wed Sep 16 09:02:25 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	86	0.00	7.34
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	9.533	4.7	84	-0.01	2.90
3	Chloromethane	10.000	9.590	4.1	86	-0.01	2.80
	----- AvgRF	CCRF	%Dev	-----			
4	1,1-Dichloroethene	0.749	0.831	-10.9	97	-0.02	4.08
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	9.888	1.1	90	-0.02	4.69
	----- AvgRF	CCRF	%Dev	-----			
6	trans-1,2-Dichloroethene	0.855	0.827	3.3	86	-0.02	4.86
7	1,1-Dichloroethane	0.975	0.946	3.0	86	-0.01	5.50
8	cis-1,2-Dichloroethene	0.440	0.415	5.7	82	-0.01	6.06
9	Chloroform	0.827	0.794	4.0	87	-0.01	6.32
10	Carbon Tetrachloride	0.569	0.559	1.8	87	-0.01	6.50
11	1,1,1-Trichloroethane	0.643	0.608	5.4	82	-0.01	6.57
12	Benzene	1.545	1.469	4.9	82	-0.02	6.93
13 S	1,2-Dichloroethane-d4	0.421	0.426	-1.2	92	0.00	7.07
14	1,2-Dichloroethane	0.760	0.742	2.4	87	0.00	7.13
15	Trichloroethene	0.461	0.450	2.4	85	0.00	7.51
16	1,2-Dichloropropane	0.515	0.503	2.3	85	0.00	8.04
17	cis-1,3-Dichloropropene	0.467	0.445	4.7	79	0.00	8.70
18 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00	10.44
19 S	Toluene-d8	1.020	0.890	12.7	83	0.00	8.89
20	trans-1,3-Dichloropropene	0.569	0.525	7.7	81	0.00	9.34
21	Tetrachloroethene	0.573	0.519	9.4	88	0.00	9.34
22	1,4-Dichlorobenzene	1.092	1.093	-0.1	89	0.00	12.82
23	1,2-Dibromo-3-Chloropropa	0.190	0.183	3.7	90	0.00	14.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 O61390.D SIMCL091520.M Thu Sep 17 15:56:42 2020

**Run Sequence Report**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2356	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VO2356-BFB	O61227.D	09/11/20 14:01	n/a	BFB Tune
VO2356-IC2356	O61230.D	09/11/20 15:34	n/a	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20 15:54	n/a	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20 16:14	n/a	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20 16:35	n/a	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20 16:55	n/a	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20 17:15	n/a	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20 17:36	n/a	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20 18:16	n/a	Initial cal verification 5

**Run Sequence Report**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2361	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2361-BFB	O61355.D	09/14/20 08:40	n/a	BFB Tune
VO2361-CC2356	O61356.D	09/14/20 09:12	n/a	Continuing cal 5
VO2361-BS	O61357.D	09/14/20 09:49	n/a	Blank Spike
VO2361-MB	O61358.D	09/14/20 10:09	n/a	Method Blank
FA78559-1	O61361.D	09/14/20 12:02	n/a	2036W0BW111A
FA78559-2	O61362.D	09/14/20 12:22	n/a	2036W0BW112F
FA78559-3	O61363.D	09/14/20 12:42	n/a	2036W0BW113D
FA78559-4	O61364.D	09/14/20 13:03	n/a	2036W0BW114F
FA78559-1MS	O61365.D	09/14/20 13:23	n/a	Matrix Spike
FA78559-1MSD	O61366.D	09/14/20 13:43	n/a	Matrix Spike Duplicate
FA78559-5	O61367.D	09/14/20 14:04	n/a	2036W0BW115F
FA78559-6	O61368.D	09/14/20 14:24	n/a	2036WOU2119F
FA78559-7	O61369.D	09/14/20 14:44	n/a	2036WOU2120F
FA78559-8	O61370.D	09/14/20 15:05	n/a	2036YOU2424F
FA78559-9	O61371.D	09/14/20 16:25	n/a	2036YOU2447C
FA78559-10	O61372.D	09/14/20 16:45	n/a	2036X0BW235F
VO2361-ECC2356	O61373.D	09/14/20 17:05	n/a	Ending cal 5

**Run Sequence Report**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2362	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
-----------------------	-----------------------------------	-----------------------------

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2362-BFB	O61385.D	09/15/20 14:52	n/a	BFB Tune
VO2362-IC2362	O61386.D	09/15/20 15:46	n/a	Initial cal 1
VO2362-IC2362	O61387.D	09/15/20 16:06	n/a	Initial cal 2
VO2362-IC2362	O61388.D	09/15/20 16:26	n/a	Initial cal 3
VO2362-IC2362	O61389.D	09/15/20 16:47	n/a	Initial cal 4
VO2362-ICC2362	O61390.D	09/15/20 17:07	n/a	Initial cal 5
VO2362-IC2362	O61391.D	09/15/20 17:28	n/a	Initial cal 6
VO2362-IC2362	O61392.D	09/15/20 17:48	n/a	Initial cal 7
VO2362-ICV2362	O61394.D	09/15/20 18:29	n/a	Initial cal verification 5

**Run Sequence Report**

**Job Number:** FA78559  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2363	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2363-BFB	O61401.D	09/16/20 11:07	n/a	BFB Tune
VO2363-CC2362	O61402.D	09/16/20 11:32	n/a	Continuing cal 5
VO2363-BS	O61403.D	09/16/20 12:11	n/a	Blank Spike
VO2363-MB	O61405.D	09/16/20 13:09	n/a	Method Blank
ZZZZZZ	O61406.D	09/16/20 13:29	n/a	(unrelated sample)
ZZZZZZ	O61407.D	09/16/20 13:50	n/a	(unrelated sample)
ZZZZZZ	O61408.D	09/16/20 14:10	n/a	(unrelated sample)
ZZZZZZ	O61409.D	09/16/20 14:30	n/a	(unrelated sample)
ZZZZZZ	O61410.D	09/16/20 14:51	n/a	(unrelated sample)
ZZZZZZ	O61411.D	09/16/20 15:11	n/a	(unrelated sample)
FA78559-9	O61412.D	09/16/20 15:32	n/a	2036YOU2447C
ZZZZZZ	O61414.D	09/16/20 16:13	n/a	(unrelated sample)
ZZZZZZ	O61415.D	09/16/20 16:33	n/a	(unrelated sample)
ZZZZZZ	O61416.D	09/16/20 16:53	n/a	(unrelated sample)
ZZZZZZ	O61417.D	09/16/20 17:14	n/a	(unrelated sample)
ZZZZZZ	O61418.D	09/16/20 17:34	n/a	(unrelated sample)
ZZZZZZ	O61419.D	09/16/20 17:55	n/a	(unrelated sample)
ZZZZZZ	O61420.D	09/16/20 18:15	n/a	(unrelated sample)
VO2363-ECC2362	O61422.D	09/17/20 08:05	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61361.d  
Acq On : 14 Sep 2020 12:02 pm  
Operator : akarig  
Sample : fa78559-1  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 22:24:40 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	225905	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	177539	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	105188	5.76	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	115.20%	
19) Toluene-d8	8.896	98	190709	4.76	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.20%	
Target Compounds						
5) Methylene Chloride	4.703	49	2182	0.04	ug/L	Qvalue 93
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

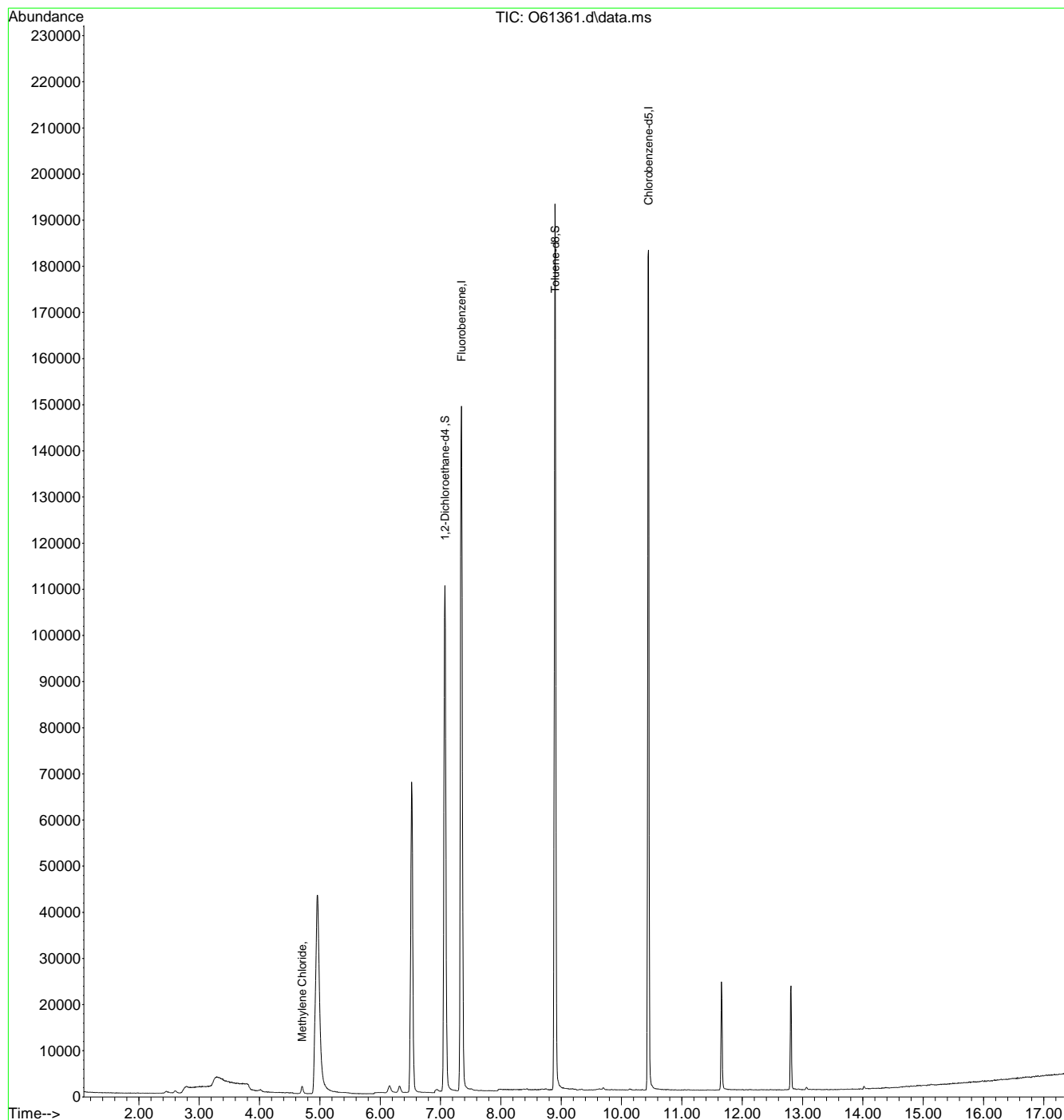
7.1.1  
7



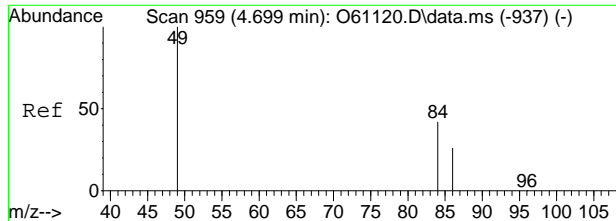
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61361.d  
 Acq On : 14 Sep 2020 12:02 pm  
 Operator : akarig  
 Sample : fa78559-1  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 22:24:40 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

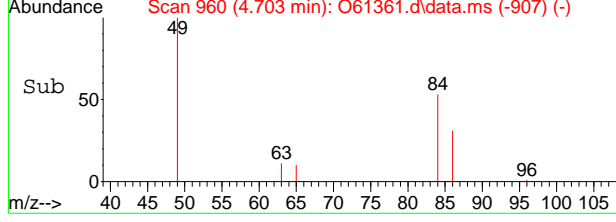
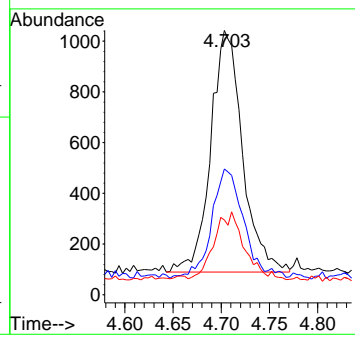
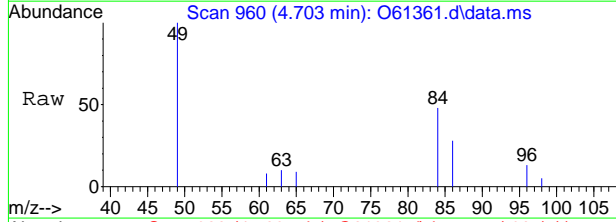


7.1.1  
7



#5  
 Methylene Chloride  
 Concen: 0.04 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.000 min  
 Lab File: O61361.d  
 Acq: 14 Sep 2020 12:02 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	44.7	17.9	77.9
86	24.6	0.0	59.8



7.1.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61362.d  
Acq On : 14 Sep 2020 12:22 pm  
Operator : akarig  
Sample : fa78559-2  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 22:26:02 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	217831	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	171204	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	103641	5.89	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	117.80%	
19) Toluene-d8	8.896	98	184011	4.77	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.40%	
Target Compounds						
15) Trichloroethene	7.512	95	26115	1.27	ug/L	Qvalue 86
21) Tetrachloroethene	9.343	166	2192m	0.12	ug/L	
-----						

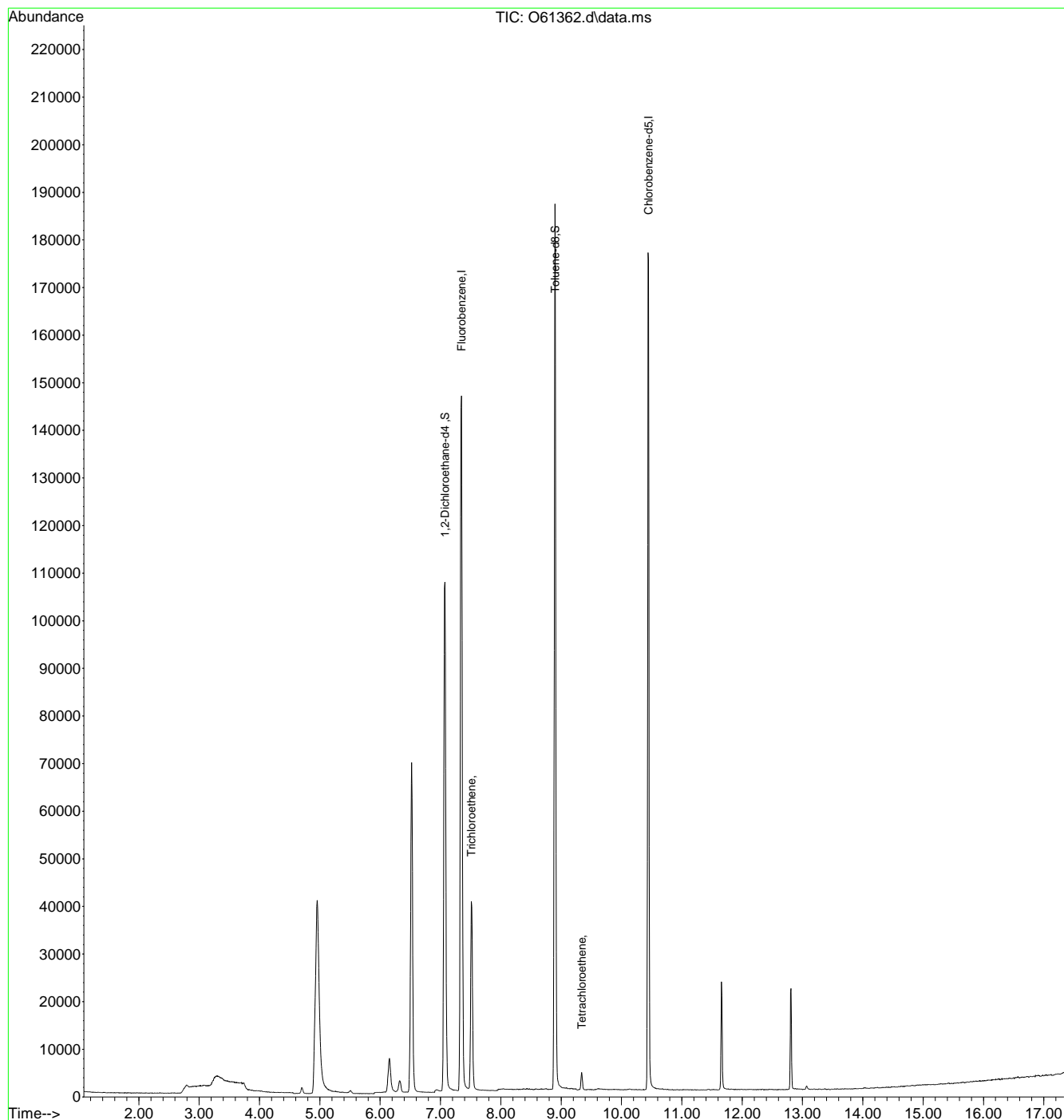
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.12  
7

Quantitation Report (QT Reviewed)

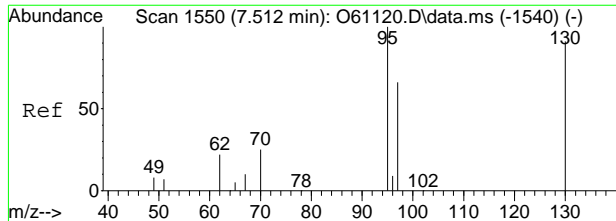
Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61362.d  
 Acq On : 14 Sep 2020 12:22 pm  
 Operator : akarig  
 Sample : fa78559-2  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 22:26:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



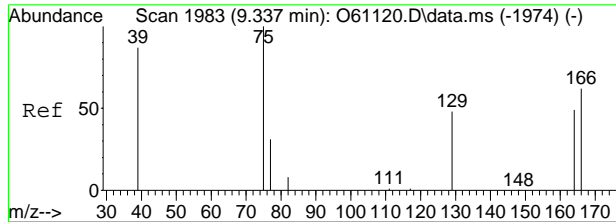
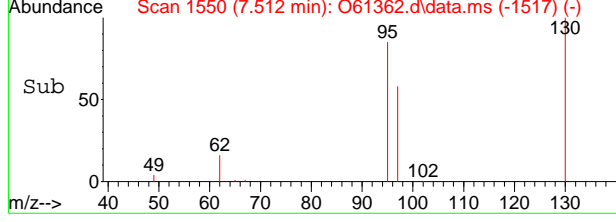
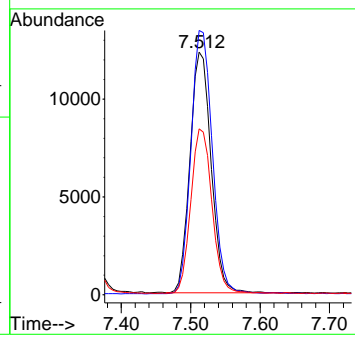
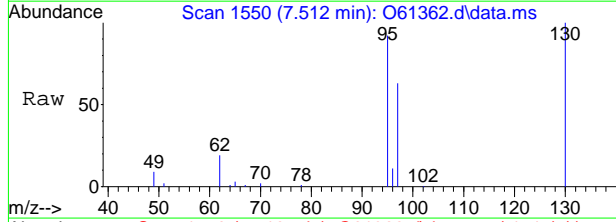
7.1.2  
7





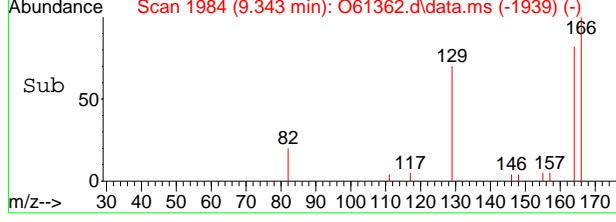
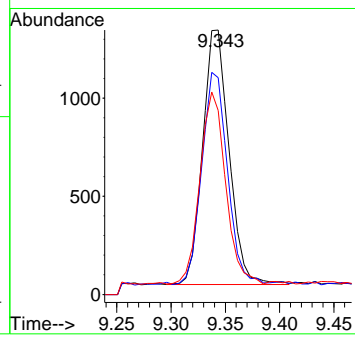
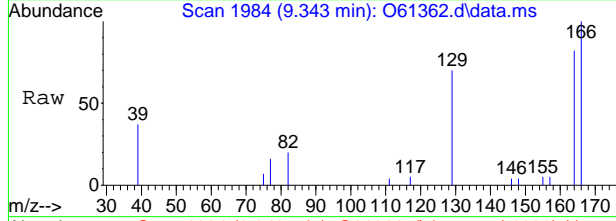
#15  
 Trichloroethene  
 Concen: 1.27 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61362.d  
 Acq: 14 Sep 2020 12:22 pm

Tgt Ion	Resp	Lower	Upper
95	26115		
130	109.4	60.4	120.4
97	68.3	34.6	94.6



#21  
 Tetrachloroethene  
 Concen: 0.12 ug/L m  
 RT: 9.343 min Scan# 1984  
 Delta R.T. 0.000 min  
 Lab File: O61362.d  
 Acq: 14 Sep 2020 12:22 pm

Tgt Ion	Resp	Lower	Upper
166	2192		
164	81.9	47.3	107.3
129	69.6	37.5	97.5



7.12  
7



# Manual Integration Approval Summary

**Sample Number:** FA78559-2      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61362.D      **Analyst approved:** 09/15/20 11:14 Akari Giraldo  
**Injection Time:** 09/14/20 12:22      **Supervisor approved:** 09/15/20 11:34 Melissa Mangual

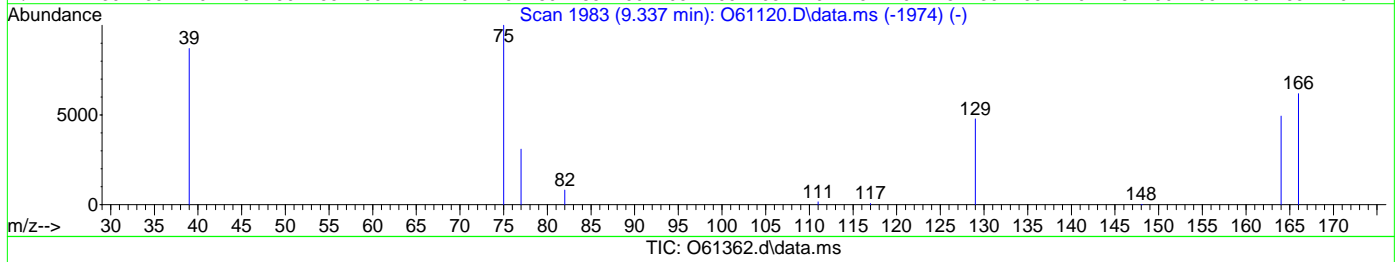
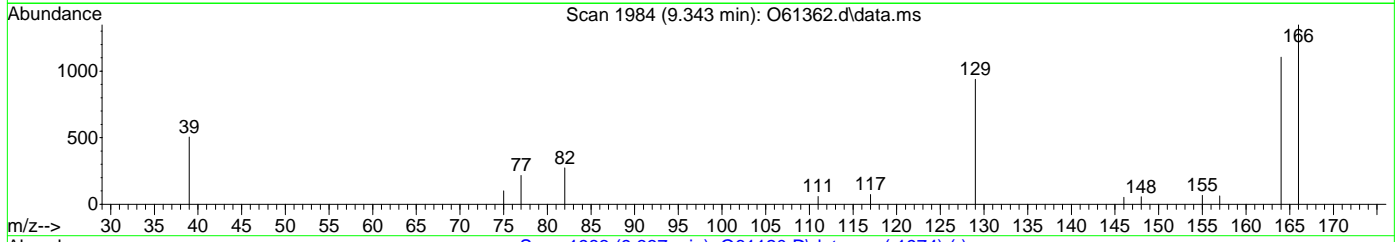
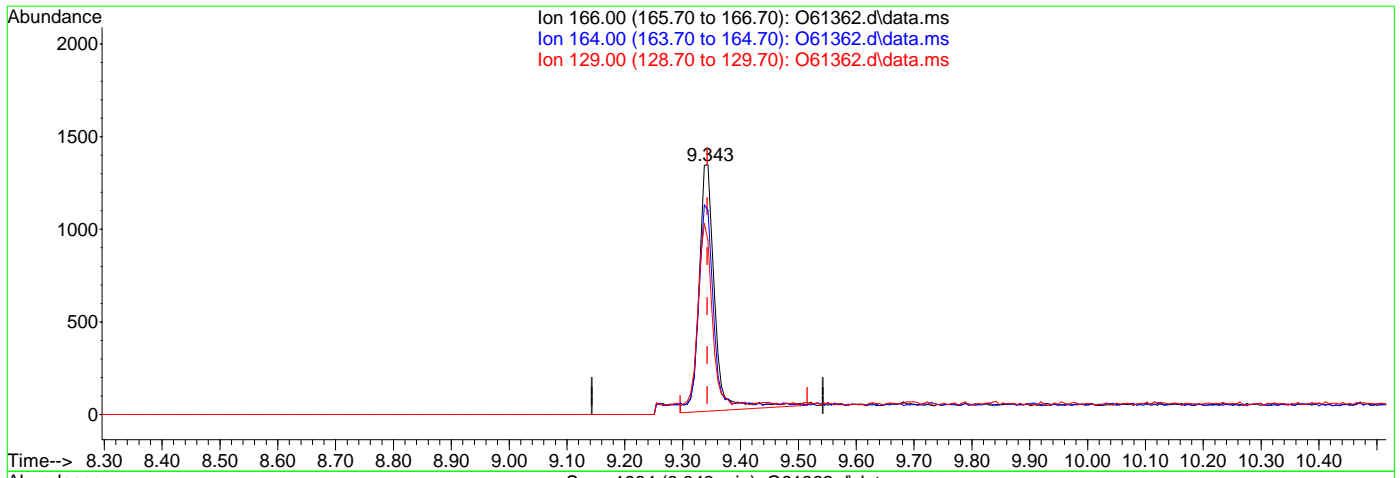
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration

7.1.2.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61362.d  
Acq On : 14 Sep 2020 12:22 pm  
Operator : akarig  
Sample : fa78559-2  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 22:19:10 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(21) Tetrachloroethene ( )  
9.343min (+0.000) 0.13ug/L  
response 2502

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	80.88
129.00	67.50	68.16
0.00	0.00	0.00

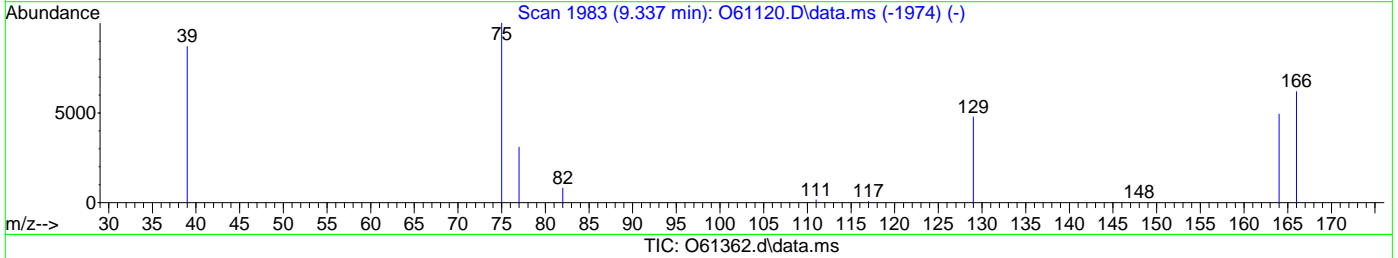
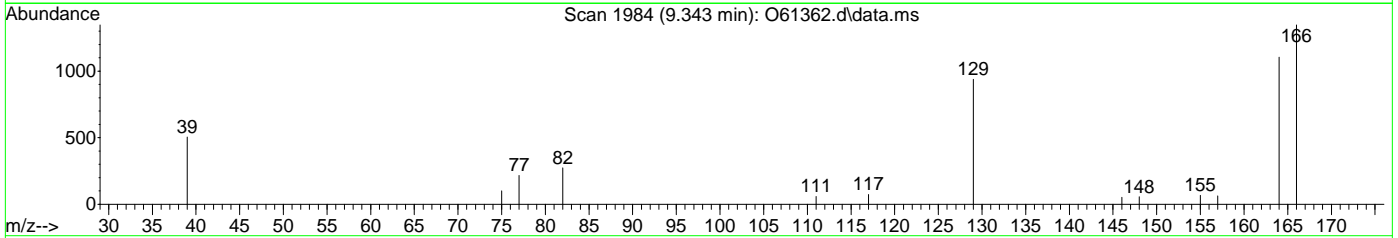
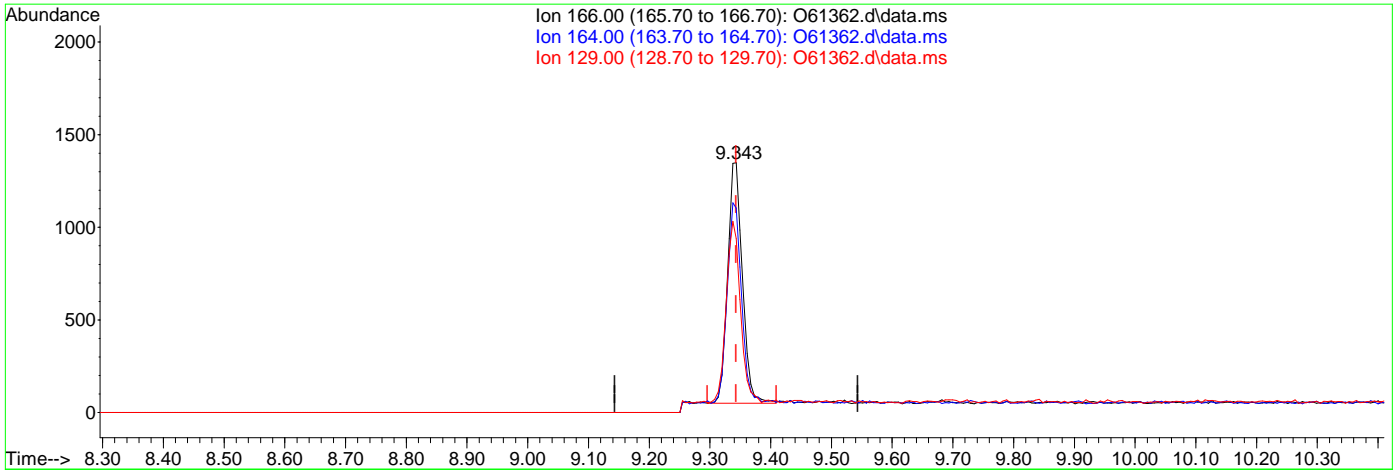


7.1.2.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61362.d  
 Acq On : 14 Sep 2020 12:22 pm  
 Operator : akarig  
 Sample : fa78559-2  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 22:19:10 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.12ug/L m

response 2192

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	81.90
129.00	67.50	69.58
0.00	0.00	0.00

7.1.2.3  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61363.d  
Acq On : 14 Sep 2020 12:42 pm  
Operator : akarig  
Sample : fa78559-3  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 22:26:41 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	209206	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	165370	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	100776	5.96	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	119.20%	
19) Toluene-d8	8.896	98	177511	4.76	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.20%	
Target Compounds						
9) Chloroform	6.327	83	1471	0.04	ug/L #	48
15) Trichloroethene	7.512	95	15911	0.81	ug/L	86
-----						

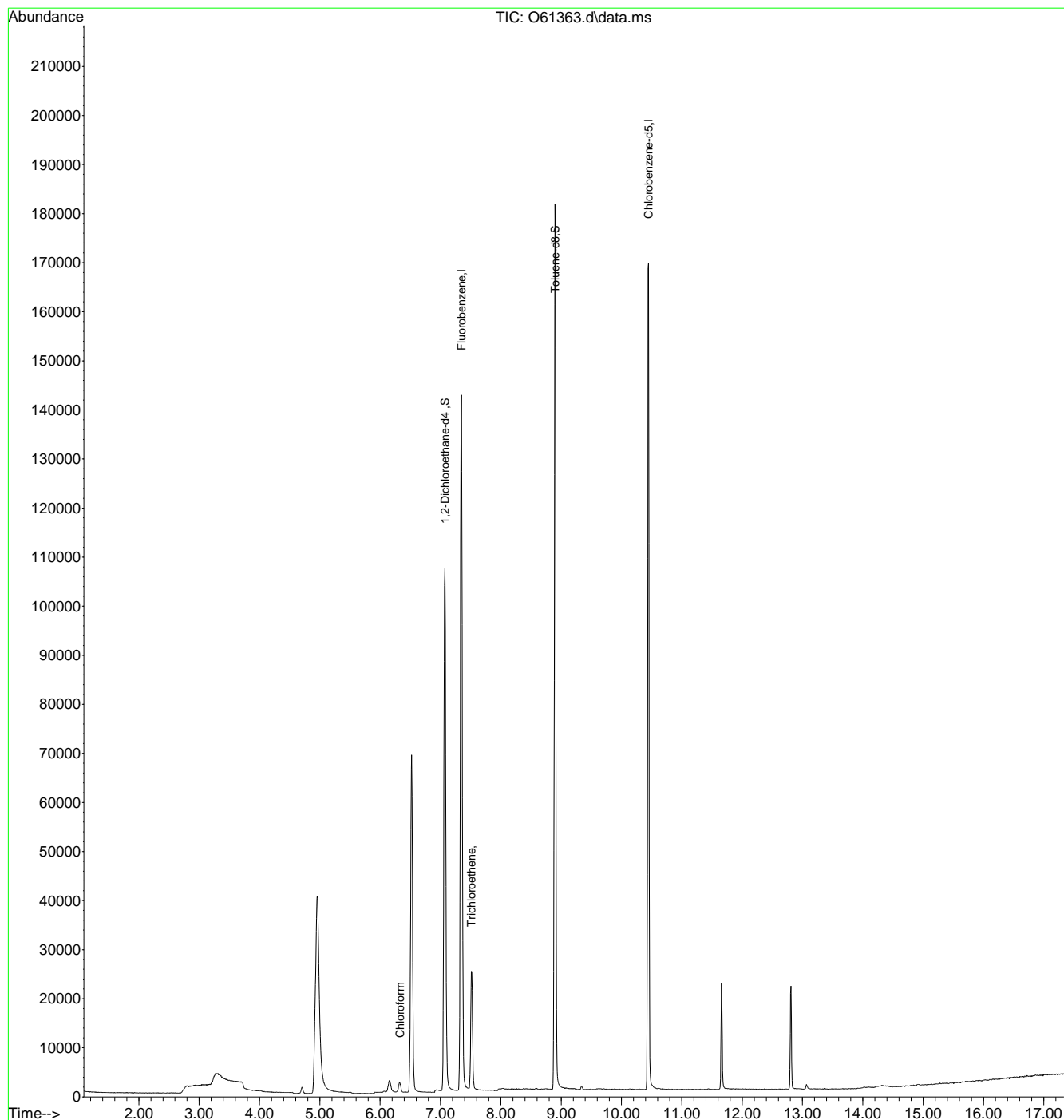
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.3  
7

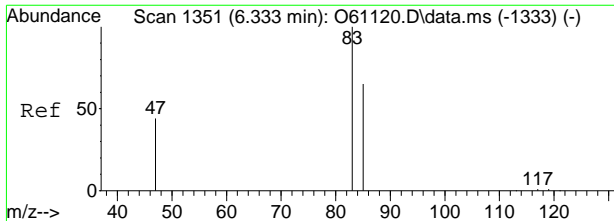
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61363.d  
 Acq On : 14 Sep 2020 12:42 pm  
 Operator : akarig  
 Sample : fa78559-3  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 22:26:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

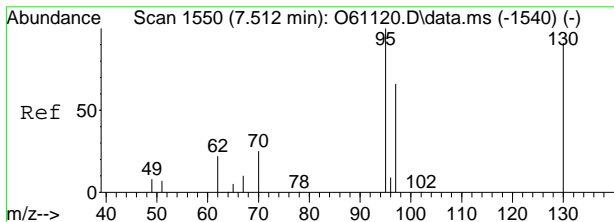
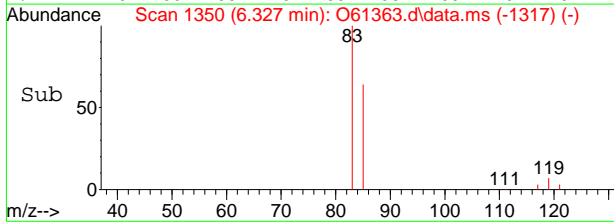
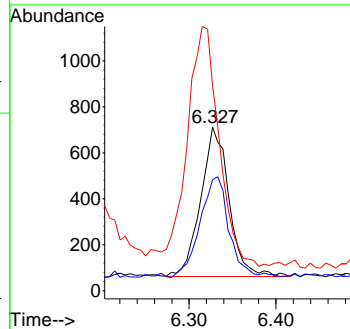
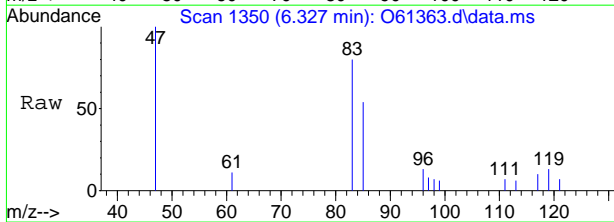


7.1.3  
7



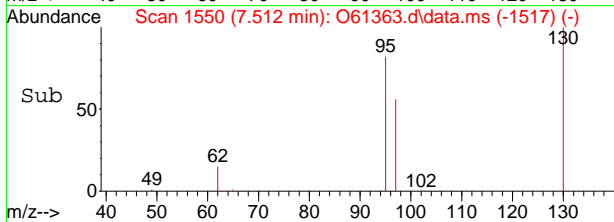
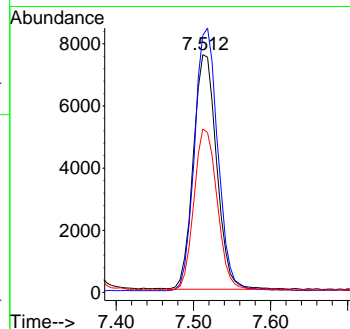
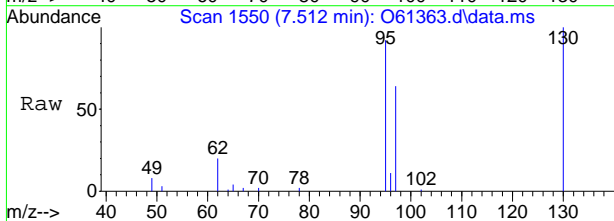
#9  
 Chloroform  
 Concen: 0.04 ug/L  
 RT: 6.327 min Scan# 1350  
 Delta R.T. -0.006 min  
 Lab File: O61363.d  
 Acq: 14 Sep 2020 12:42 pm

Tgt Ion	Resp	Lower	Upper
83	1471		
85	64.9	33.0	93.0
47	118.5	8.1	68.1#



#15  
 Trichloroethene  
 Concen: 0.81 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61363.d  
 Acq: 14 Sep 2020 12:42 pm

Tgt Ion	Resp	Lower	Upper
95	15911		
95	100		
130	108.9	60.4	120.4
97	68.7	34.6	94.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61364.d  
Acq On : 14 Sep 2020 1:03 pm  
Operator : akarig  
Sample : fa78559-4  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 14 22:27:09 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	205699	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	162616	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	99212	5.97	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	119.40%	
19) Toluene-d8	8.896	98	173351	4.73	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.60%	
Target Compounds						
5) Methylene Chloride	4.707	49	1888	0.04	ug/L	Qvalue 90
-----						

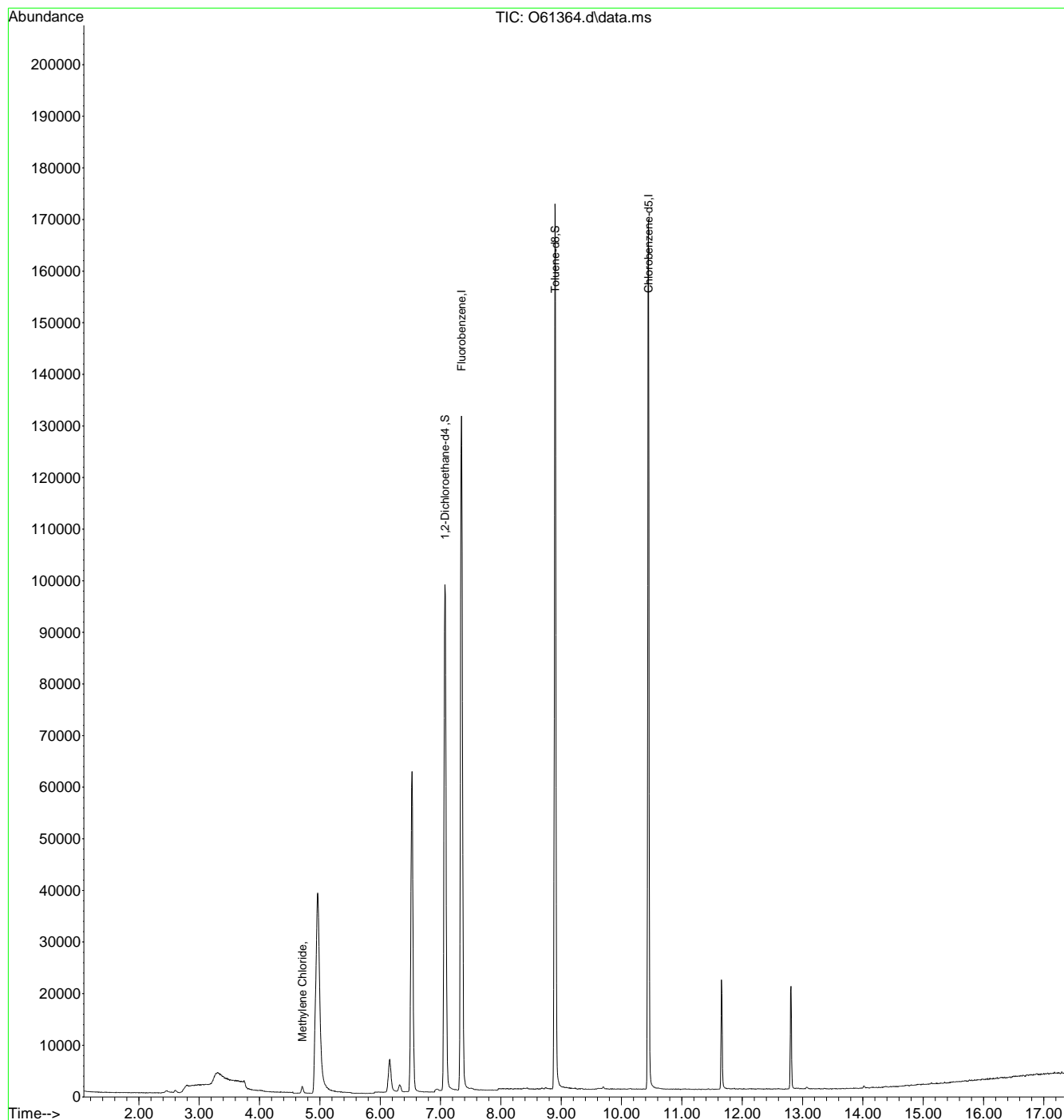
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.14  
7

Quantitation Report (QT Reviewed)

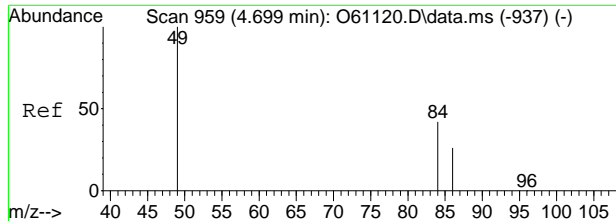
Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61364.d  
 Acq On : 14 Sep 2020 1:03 pm  
 Operator : akarig  
 Sample : fa78559-4  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 14 22:27:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



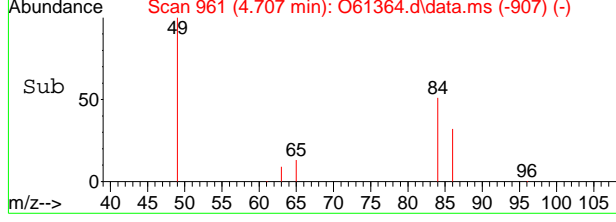
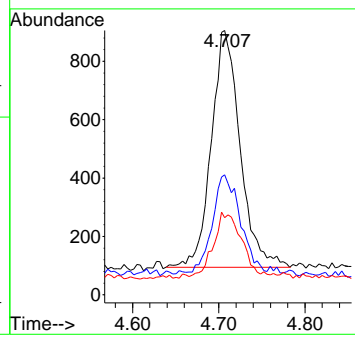
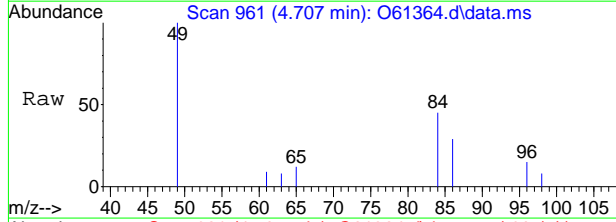
7.1.4  
7





#5  
 Methylene Chloride  
 Concen: 0.04 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61364.d  
 Acq: 14 Sep 2020 1:03 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	40.5	17.9	77.9
86	25.1	0.0	59.8



7.14  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61367.d  
 Acq On : 14 Sep 2020 2:04 pm  
 Operator : akarig  
 Sample : fa78559-5  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 22:30:27 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	236118	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	182820	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	107745	5.65	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	113.00%		
19) Toluene-d8	8.896	98	198148	4.81	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	96.20%		
Target Compounds							
2) Vinyl Chloride	2.904	62	1652	0.06	ug/L		78
3) Chloromethane	2.791	50	7764m	0.19	ug/L		
5) Methylene Chloride	4.699	49	1665	0.03	ug/L		89
7) 1,1-Dichloroethane	5.518	63	4883	0.11	ug/L		97
-----							

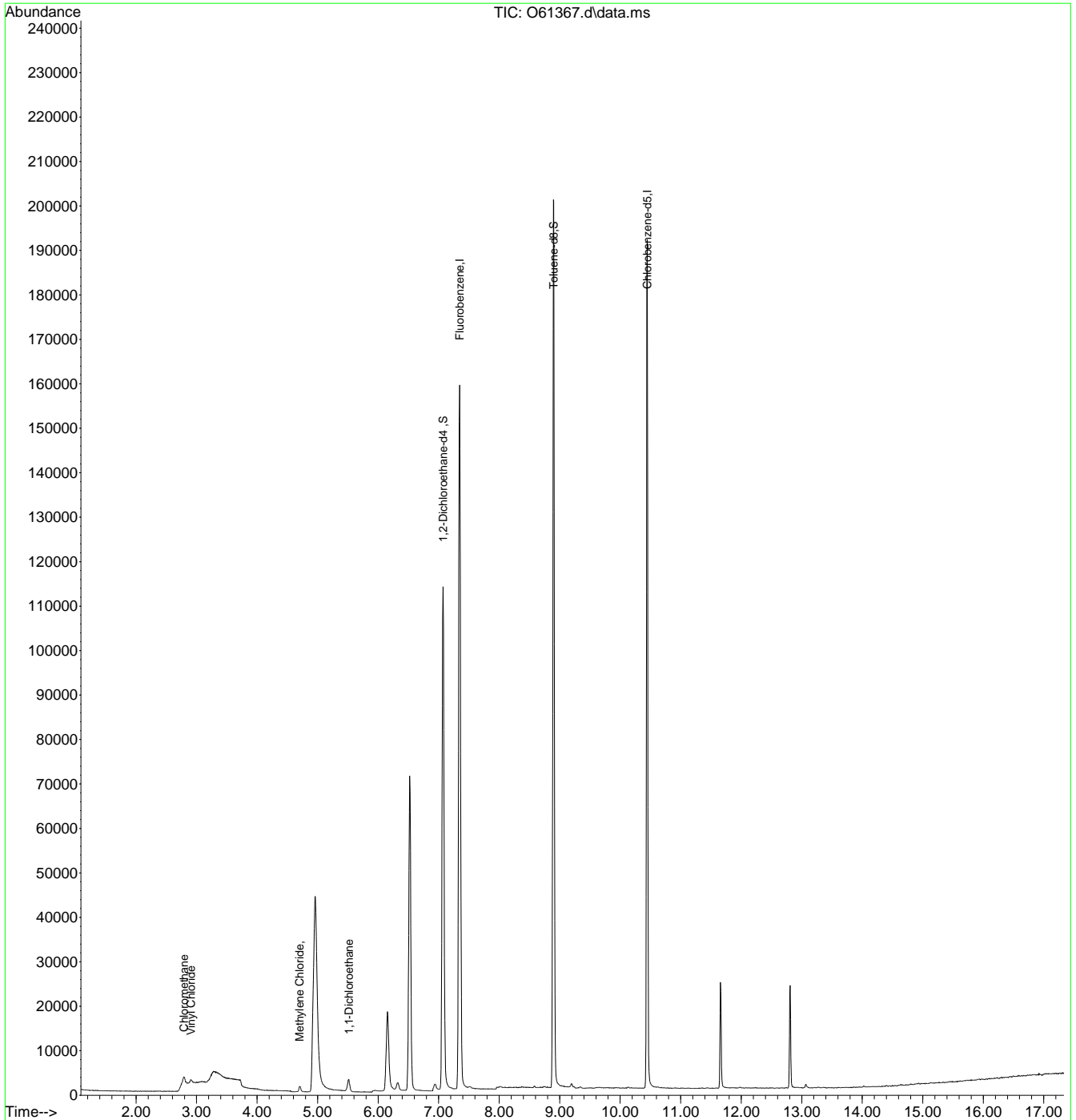
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.15  
7

Quantitation Report (QT Reviewed)

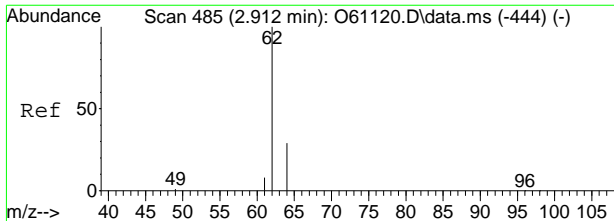
Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61367.d  
 Acq On : 14 Sep 2020 2:04 pm  
 Operator : akarig  
 Sample : fa78559-5  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 22:30:27 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.15  
7

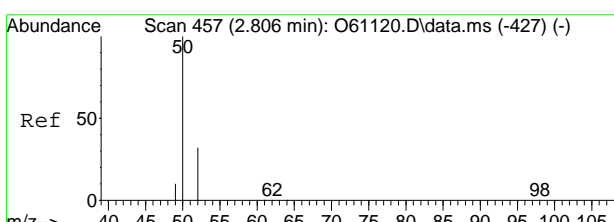
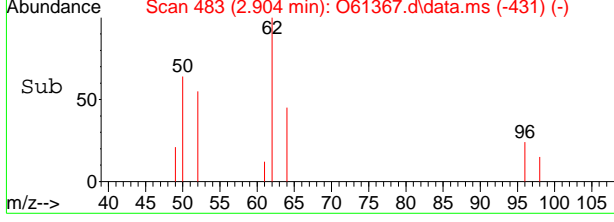
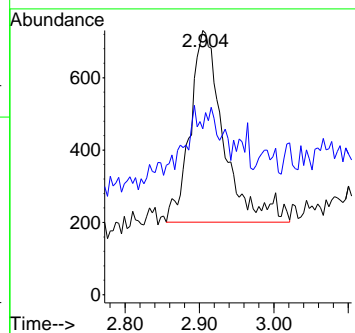
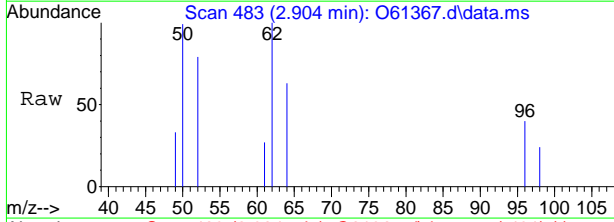




#2  
 Vinyl Chloride  
 Concen: 0.06 ug/L  
 RT: 2.904 min Scan# 483  
 Delta R.T. -0.004 min  
 Lab File: O61367.d  
 Acq: 14 Sep 2020 2:04 pm

Tgt Ion: 62 Resp: 1652

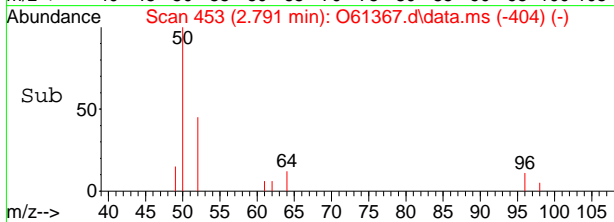
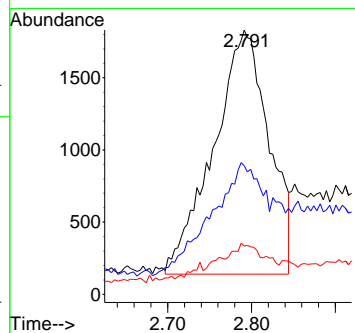
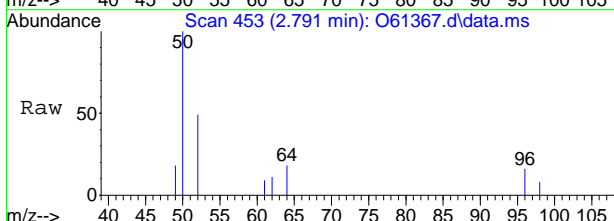
Ion	Ratio	Lower	Upper
62	100		
64	19.1	0.9	60.9



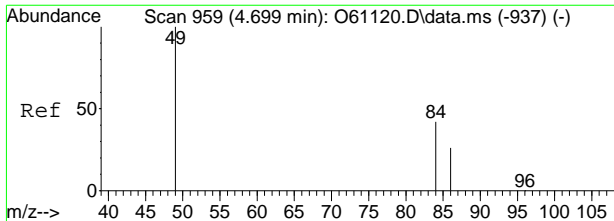
#3  
 Chloromethane  
 Concen: 0.19 ug/L m  
 RT: 2.791 min Scan# 453  
 Delta R.T. -0.016 min  
 Lab File: O61367.d  
 Acq: 14 Sep 2020 2:04 pm

Tgt Ion: 50 Resp: 7764

Ion	Ratio	Lower	Upper
50	100		
52	48.7	7.8	47.8#
49	18.2	0.0	30.5

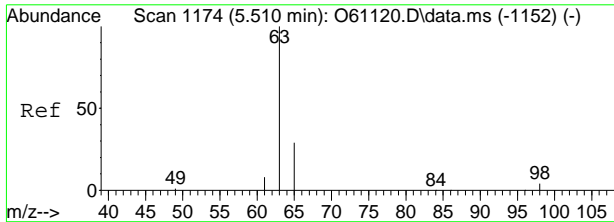
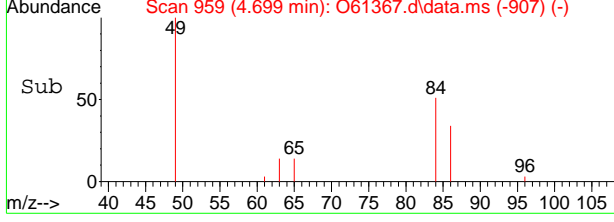
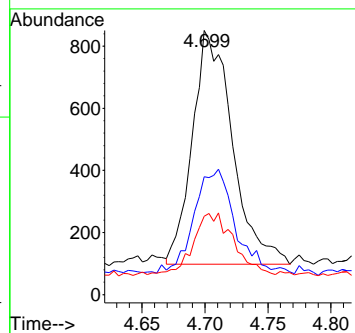
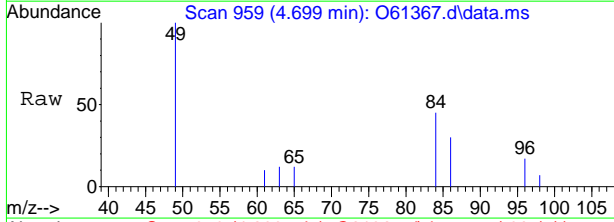


7.15  
7



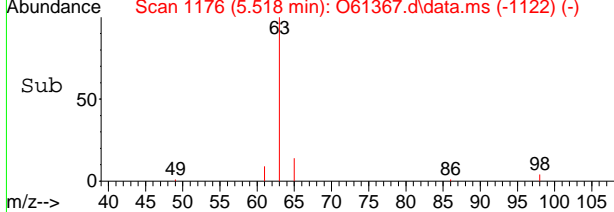
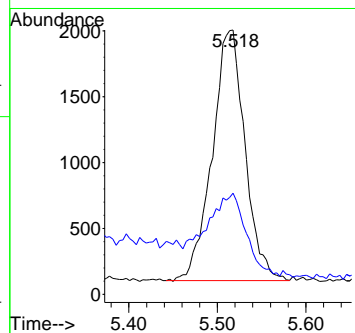
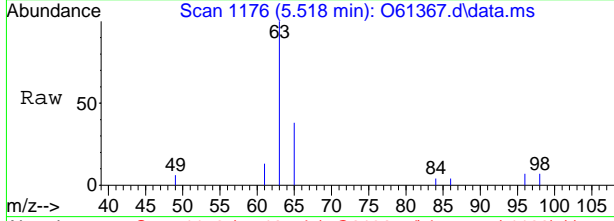
#5  
 Methylene Chloride  
 Concen: 0.03 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.004 min  
 Lab File: O61367.d  
 Acq: 14 Sep 2020 2:04 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	40.6	17.9	77.9
86	24.0	0.0	59.8



#7  
 1,1-Dichloroethane  
 Concen: 0.11 ug/L  
 RT: 5.518 min Scan# 1176  
 Delta R.T. 0.004 min  
 Lab File: O61367.d  
 Acq: 14 Sep 2020 2:04 pm

Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.5	0.7	60.7



7.15  
7

# Manual Integration Approval Summary

**Sample Number:** FA78559-5      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61367.D      **Analyst approved:** 09/15/20 11:14 Akari Giraldo  
**Injection Time:** 09/14/20 14:04      **Supervisor approved:** 09/15/20 11:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.79	Poor instrument integration

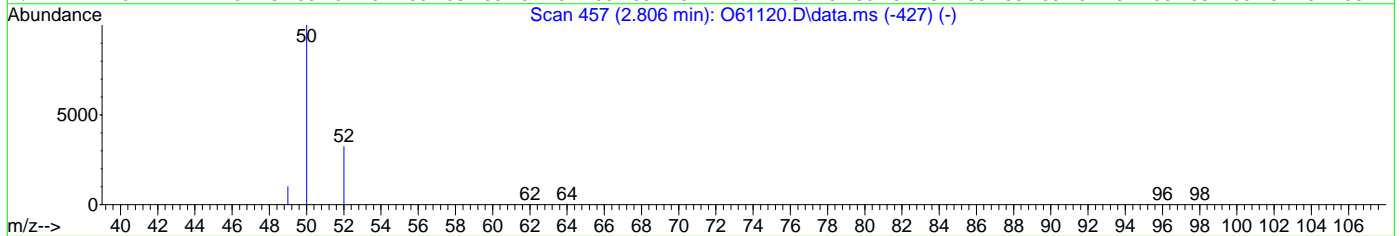
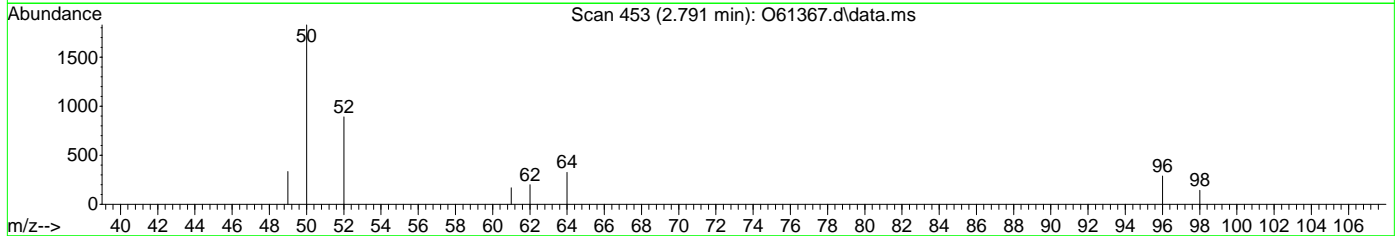
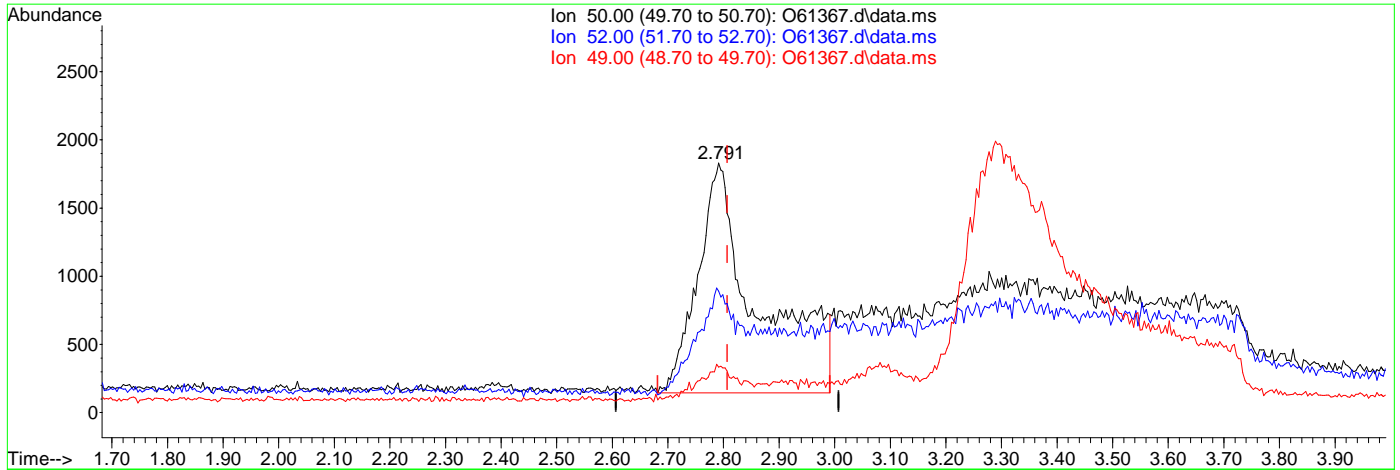
7.1.5.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61367.d  
Acq On : 14 Sep 2020 2:04 pm  
Operator : akarig  
Sample : fa78559-5  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 22:19:20 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



TIC: O61367.d\data.ms

(3) Chloromethane

2.791min (-0.016) 0.31ug/L

response 12755

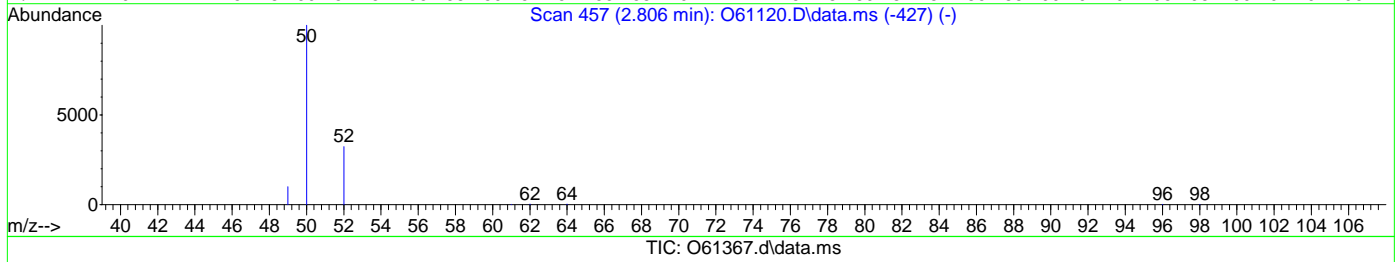
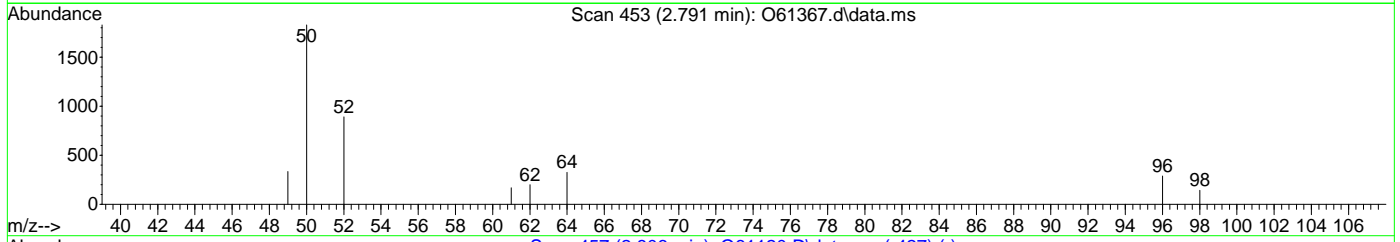
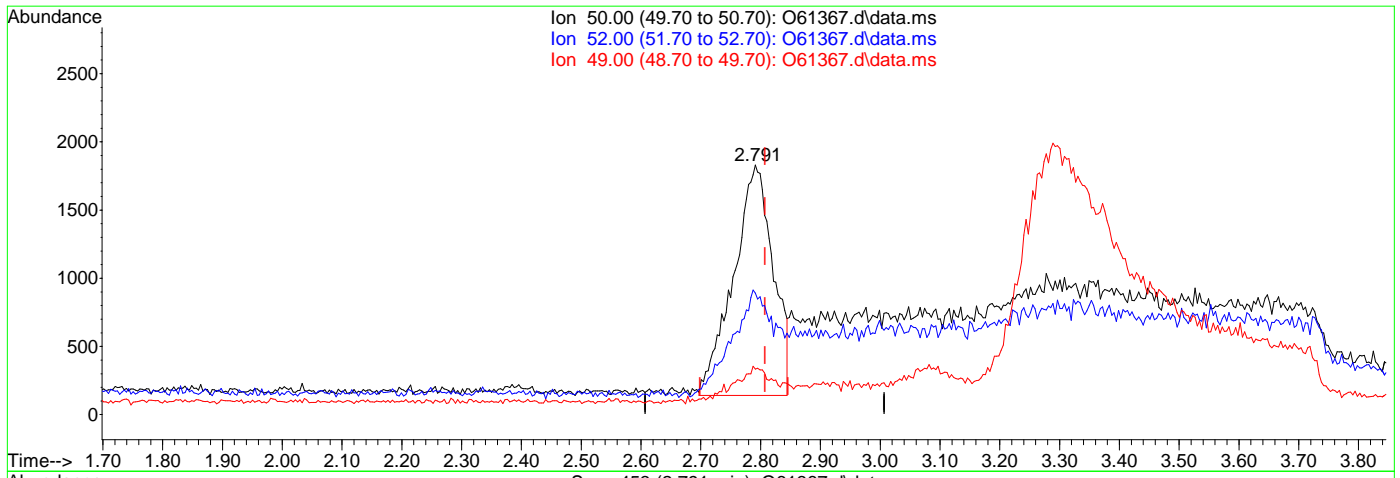
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	45.05
49.00	10.50	14.23
0.00	0.00	0.00

7.1.5.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61367.d  
Acq On : 14 Sep 2020 2:04 pm  
Operator : akarig  
Sample : fa78559-5  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 14 22:19:20 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(3) Chloromethane  
2.791min (-0.016) 0.19ug/L m  
response 7764  
lon Exp% Act%  
50.00 100 100  
52.00 27.80 48.66#  
49.00 10.50 18.24  
0.00 0.00 0.00



7.1.5.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61368.d  
Acq On : 14 Sep 2020 2:24 pm  
Operator : akarig  
Sample : fa78559-6  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 22:33:16 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	217968	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	170674	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	102084	5.80	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	116.00%	
19) Toluene-d8	8.896	98	184022	4.78	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.60%	
Target Compounds						
3) Chloromethane	2.776	50	4325m	0.11	ug/L	Qvalue
5) Methylene Chloride	4.703	49	1571	0.03	ug/L	91
7) 1,1-Dichloroethane	5.510	63	833	0.02	ug/L	56
8) cis-1,2-Dichloroethene	6.066	96	3838	0.19	ug/L #	79
9) Chloroform	6.333	83	2093	0.06	ug/L #	67
10) Carbon Tetrachloride	6.510	117	818	0.03	ug/L	90
15) Trichloroethene	7.512	95	8265	0.40	ug/L	87
21) Tetrachloroethene	9.343	166	770m	0.04	ug/L	
-----						

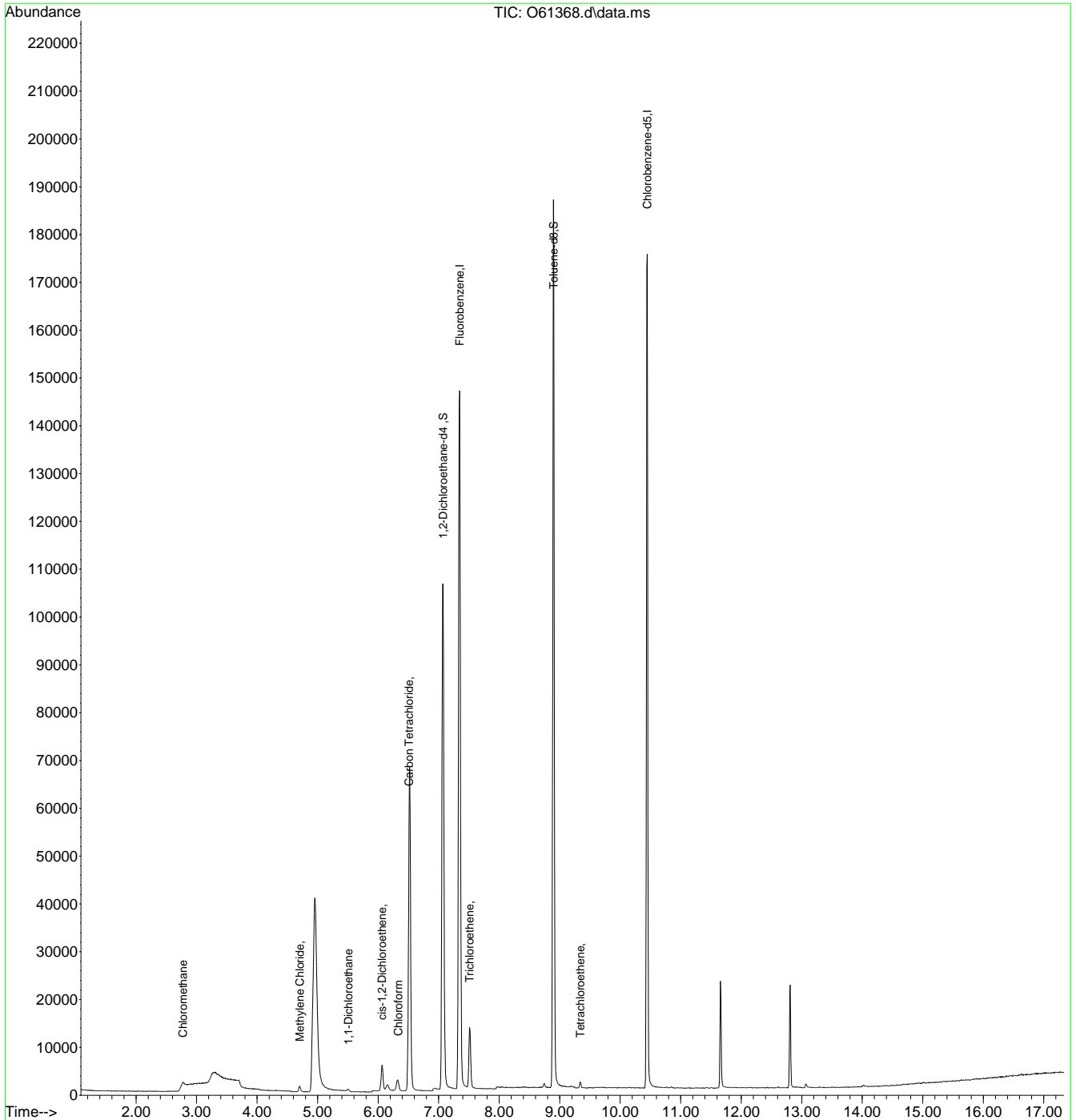
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.6  
7

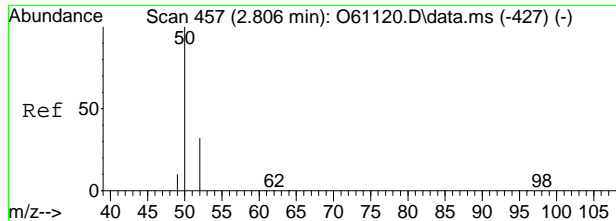
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61368.d  
 Acq On : 14 Sep 2020 2:24 pm  
 Operator : akarig  
 Sample : fa78559-6  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

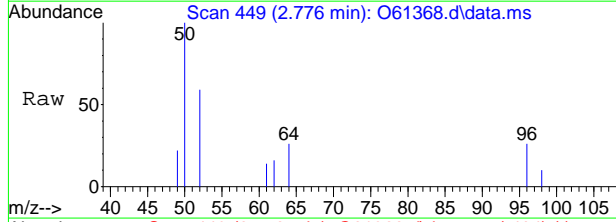
Quant Time: Sep 14 22:33:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.1.7

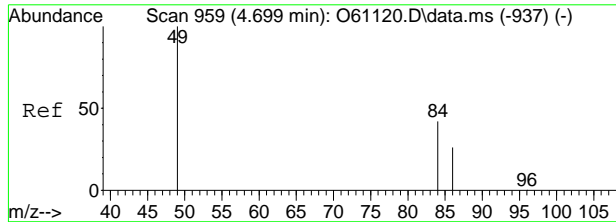
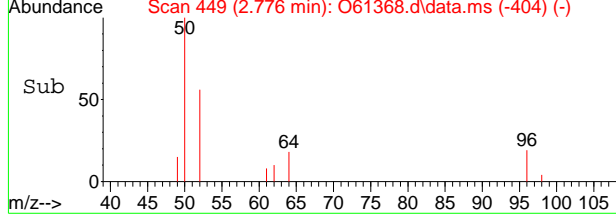
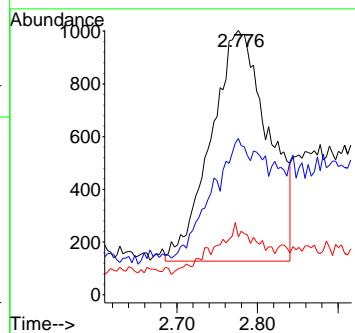


#3  
 Chloromethane  
 Concen: 0.11 ug/L m  
 RT: 2.776 min Scan# 449  
 Delta R.T. -0.031 min  
 Lab File: O61368.d  
 Acq: 14 Sep 2020 2:24 pm

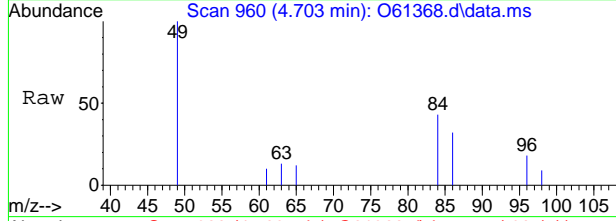


Tgt Ion: 50 Resp: 4325

Ion	Ratio	Lower	Upper
50	100		
52	59.1	7.8	47.8#
49	21.8	0.0	30.5

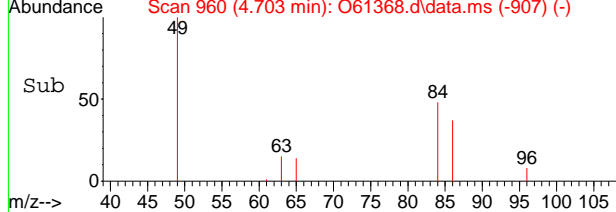
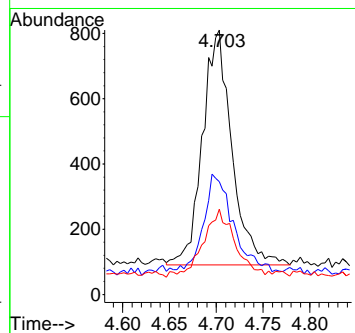


#5  
 Methylene Chloride  
 Concen: 0.03 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. 0.000 min  
 Lab File: O61368.d  
 Acq: 14 Sep 2020 2:24 pm



Tgt Ion: 49 Resp: 1571

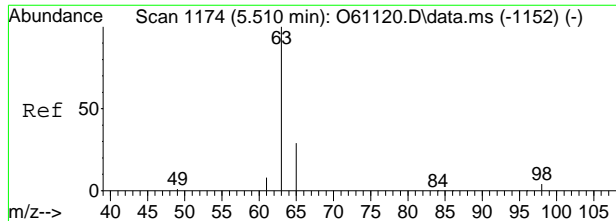
Ion	Ratio	Lower	Upper
49	100		
84	38.2	17.9	77.9
86	29.0	0.0	59.8



7.16  
7

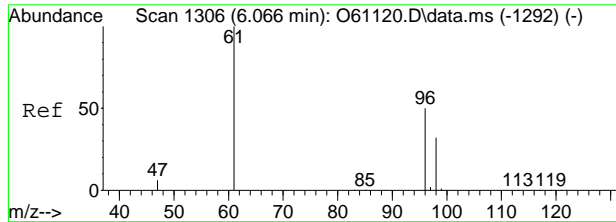
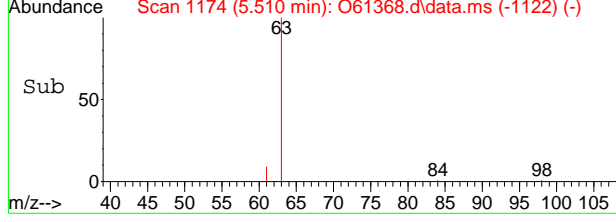
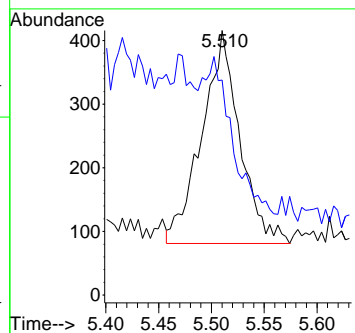
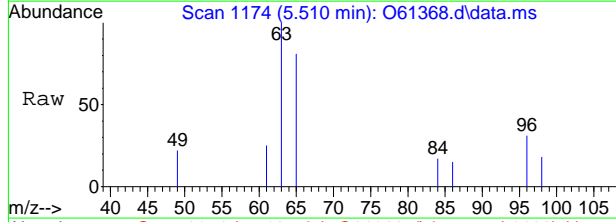






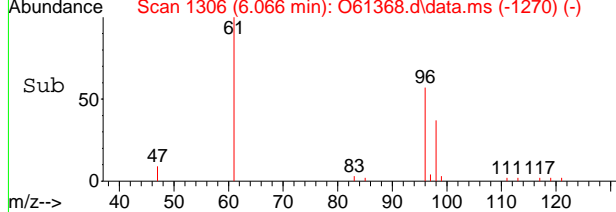
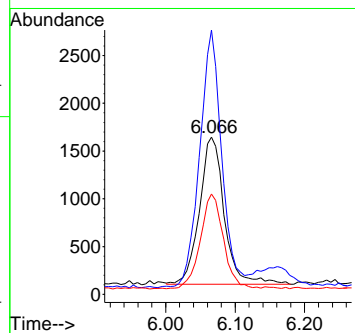
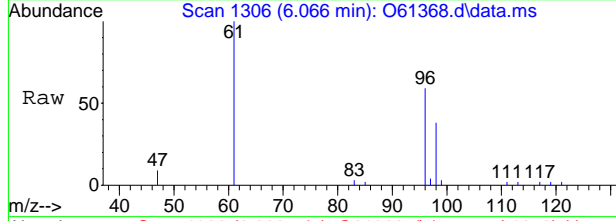
#7  
 1,1-Dichloroethane  
 Concen: 0.02 ug/L  
 RT: 5.510 min Scan# 1174  
 Delta R.T. -0.004 min  
 Lab File: O61368.d  
 Acq: 14 Sep 2020 2:24 pm

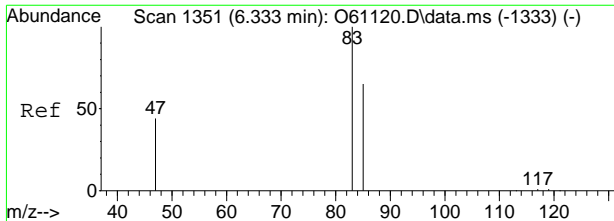
Tgt Ion	Resp	Lower	Upper
63	833		
65	54.6	0.7	60.7



#8  
 cis-1,2-Dichloroethene  
 Concen: 0.19 ug/L  
 RT: 6.066 min Scan# 1306  
 Delta R.T. -0.006 min  
 Lab File: O61368.d  
 Acq: 14 Sep 2020 2:24 pm

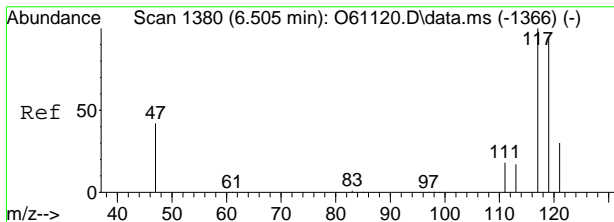
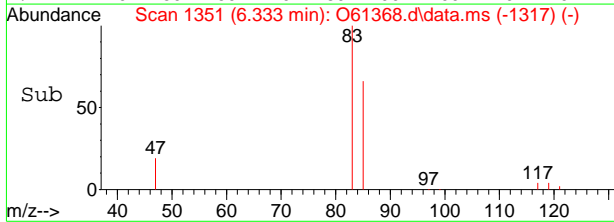
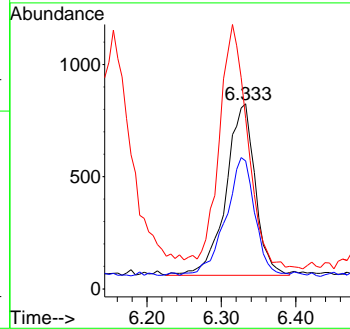
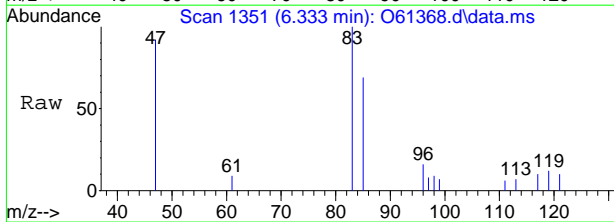
Tgt Ion	Resp	Lower	Upper
96	3838		
61	174.1	107.0	167.0#
98	64.4	34.1	94.1





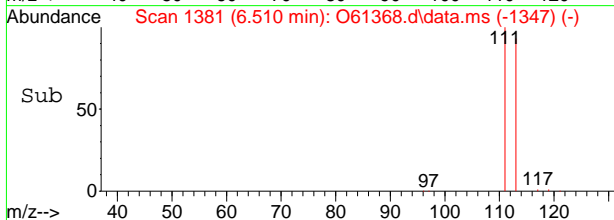
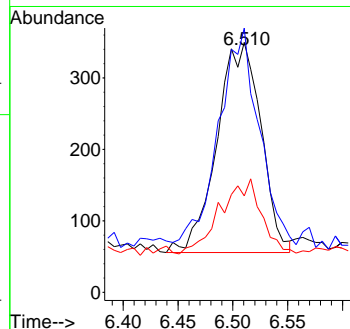
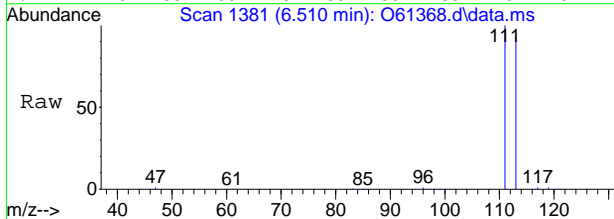
#9  
 Chloroform  
 Concen: 0.06 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61368.d  
 Acq: 14 Sep 2020 2:24 pm

Tgt Ion	Resp	Lower	Upper
83	2093		
85	66.1	33.0	93.0
47	86.1	8.1	68.1#

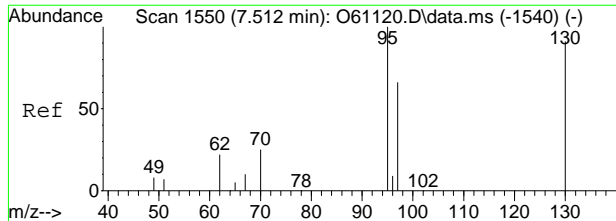


#10  
 Carbon Tetrachloride  
 Concen: 0.03 ug/L  
 RT: 6.510 min Scan# 1381  
 Delta R.T. -0.001 min  
 Lab File: O61368.d  
 Acq: 14 Sep 2020 2:24 pm

Tgt Ion	Resp	Lower	Upper
117	818		
117	100		
119	101.4	80.9	140.9
121	25.5	4.1	64.1

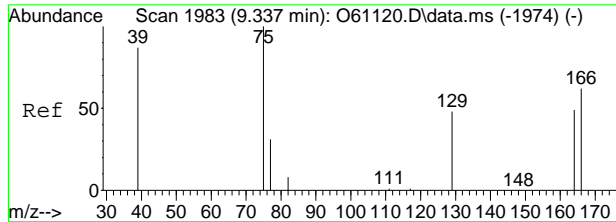
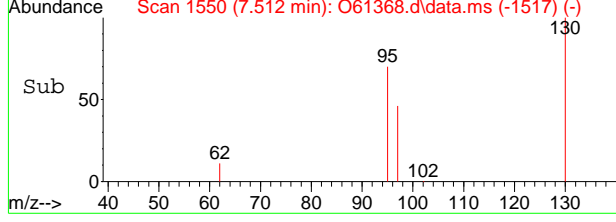
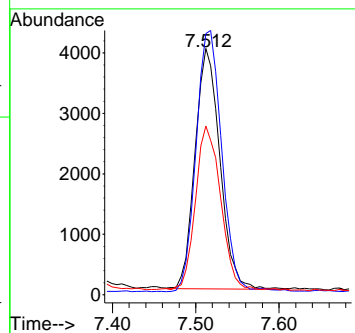
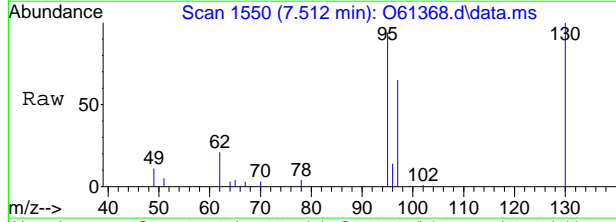


7.16  
7



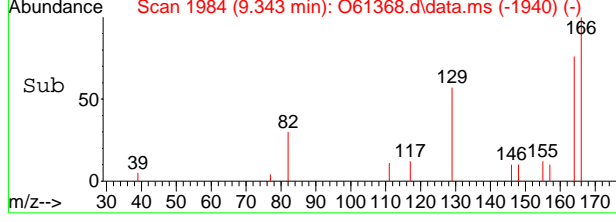
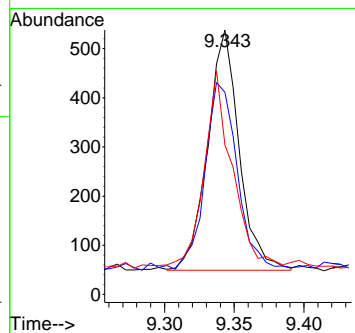
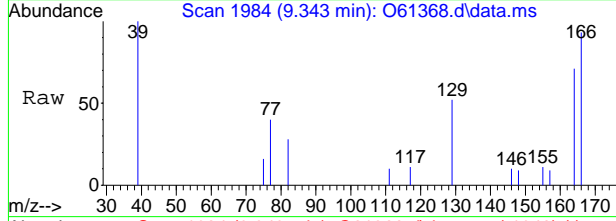
#15  
 Trichloroethene  
 Concen: 0.40 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61368.d  
 Acq: 14 Sep 2020 2:24 pm

Tgt Ion	Resp	Lower	Upper
95	8265		
95	100		
130	107.5	60.4	120.4
97	68.4	34.6	94.6



#21  
 Tetrachloroethene  
 Concen: 0.04 ug/L m  
 RT: 9.343 min Scan# 1984  
 Delta R.T. 0.000 min  
 Lab File: O61368.d  
 Acq: 14 Sep 2020 2:24 pm

Tgt Ion	Resp	Lower	Upper
166	770		
166	100		
164	76.4	47.3	107.3
129	56.5	37.5	97.5



7.1.6  
7

# Manual Integration Approval Summary

**Sample Number:** FA78559-6      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61368.D      **Analyst approved:** 09/15/20 11:14 Akari Giraldo  
**Injection Time:** 09/14/20 14:24      **Supervisor approved:** 09/15/20 11:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.78	Poor instrument integration
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration

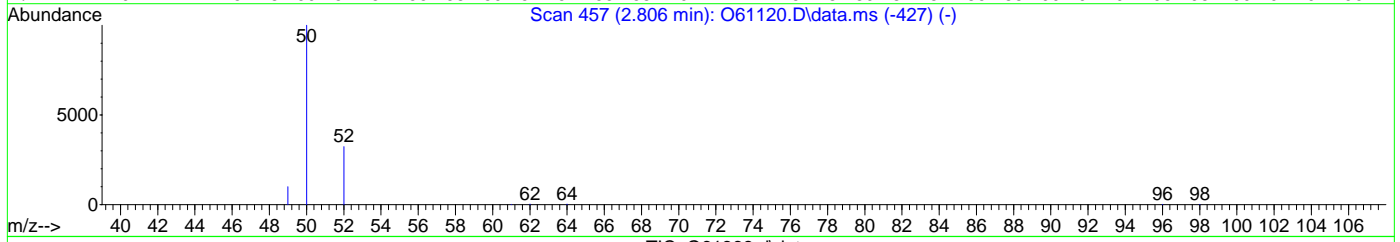
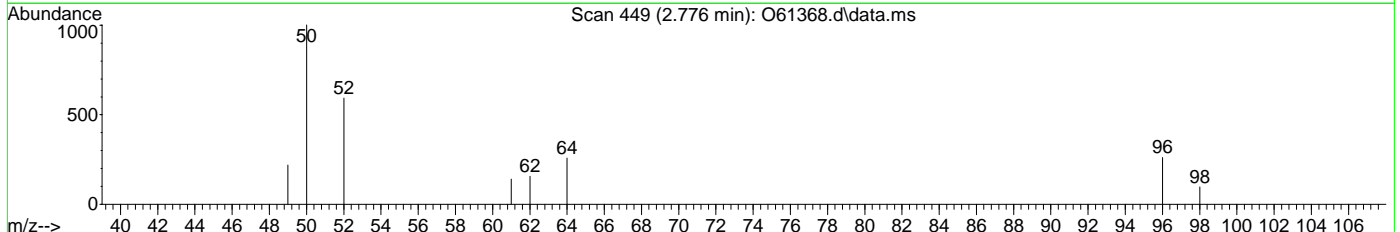
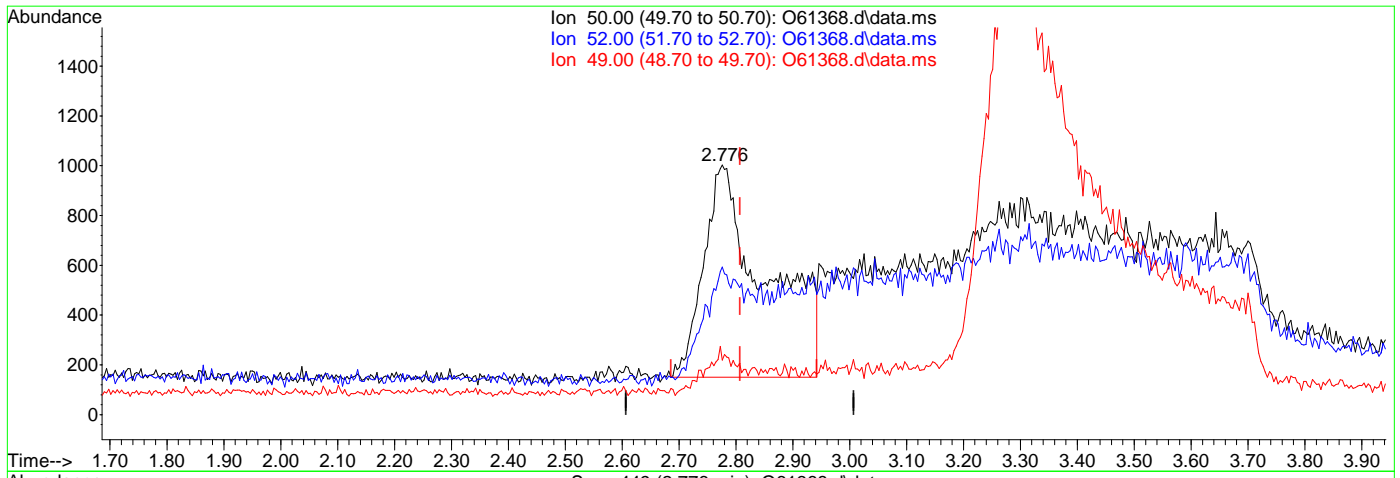
7.1.6.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61368.d  
Acq On : 14 Sep 2020 2:24 pm  
Operator : akarig  
Sample : fa78559-6  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 22:19:22 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



TIC: O61368.d\data.ms

(3) Chloromethane

2.776min (-0.031) 0.17ug/L

response 6466

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	52.11#
49.00	10.50	13.38
0.00	0.00	0.00

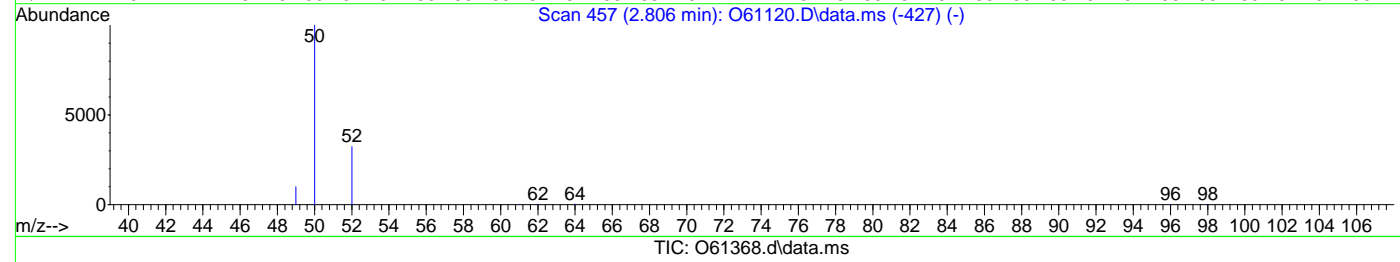
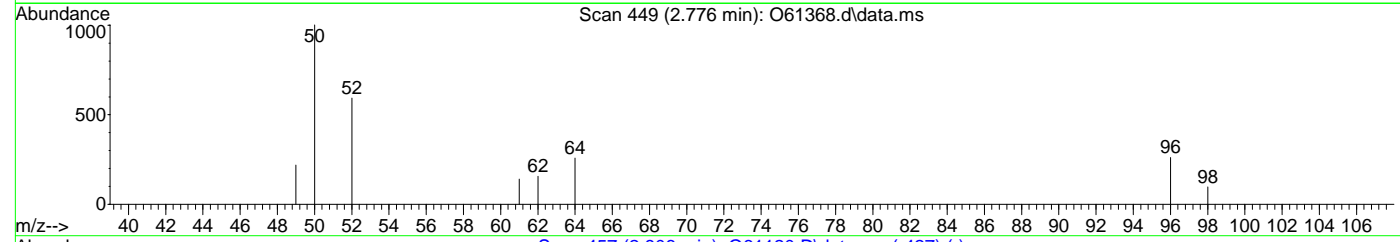
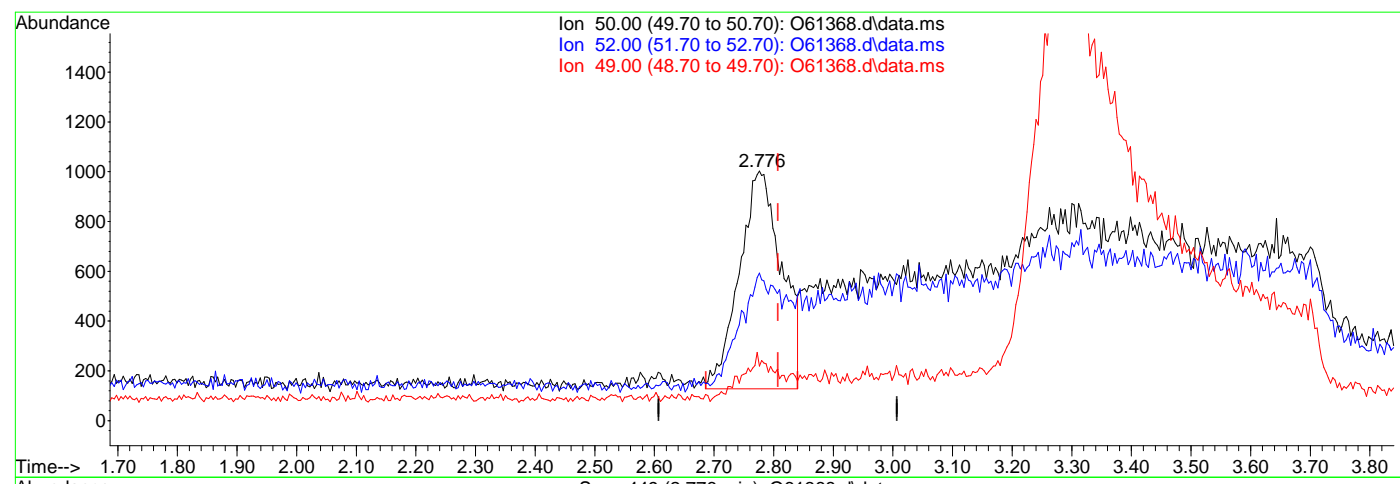
7.1.6.2  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61368.d  
Acq On : 14 Sep 2020 2:24 pm  
Operator : akarig  
Sample : fa78559-6  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 22:19:22 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(3) Chloromethane  
2.776min (-0.031) 0.11ug/L m  
response 4325  
Ion Exp% Act%  
50.00 100 100  
52.00 27.80 59.12#  
49.00 10.50 21.83  
0.00 0.00 0.00

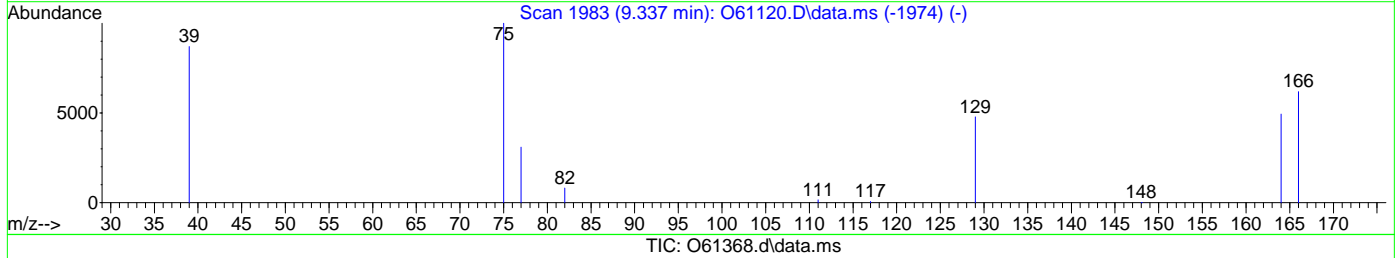
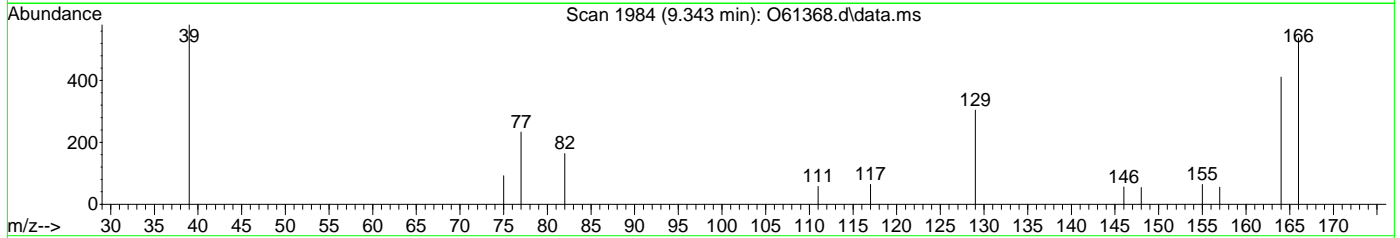
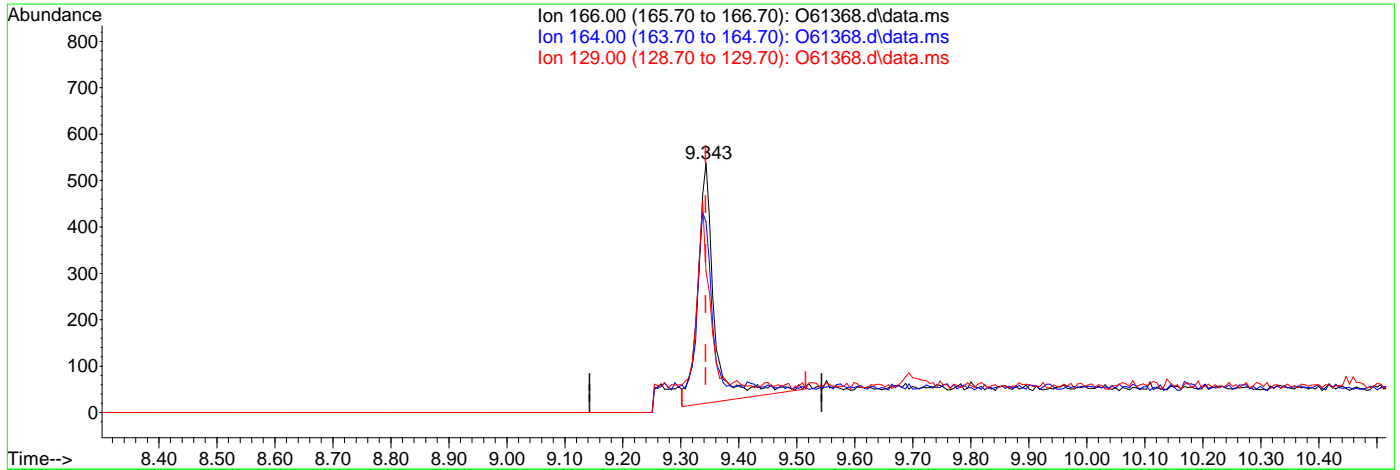


7.1.6.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61368.d  
 Acq On : 14 Sep 2020 2:24 pm  
 Operator : akarig  
 Sample : fa78559-6  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 22:19:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.06ug/L

response 1026

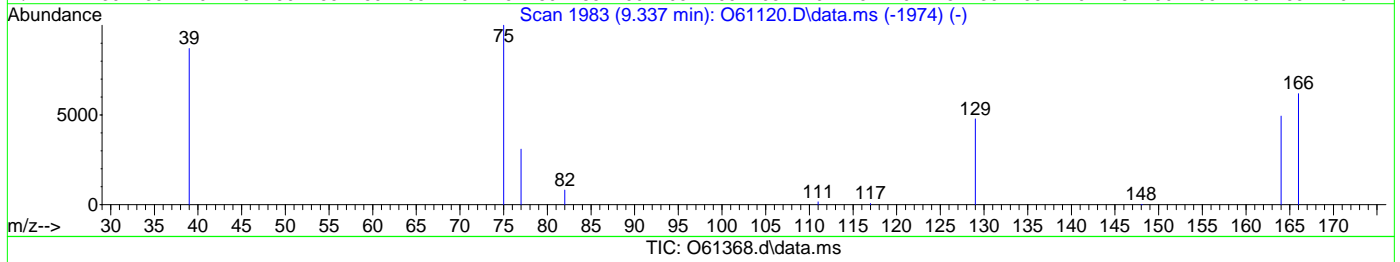
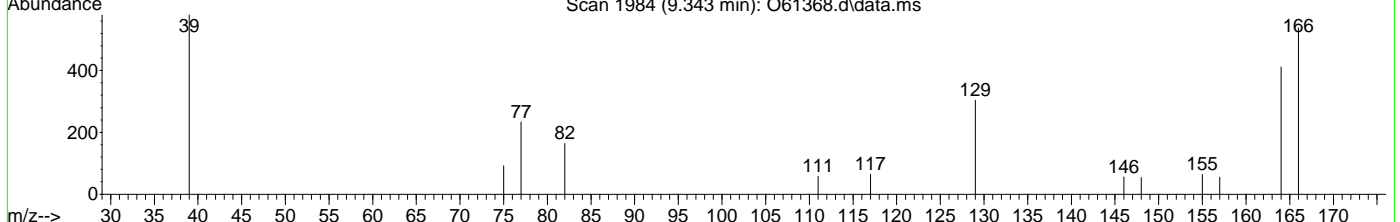
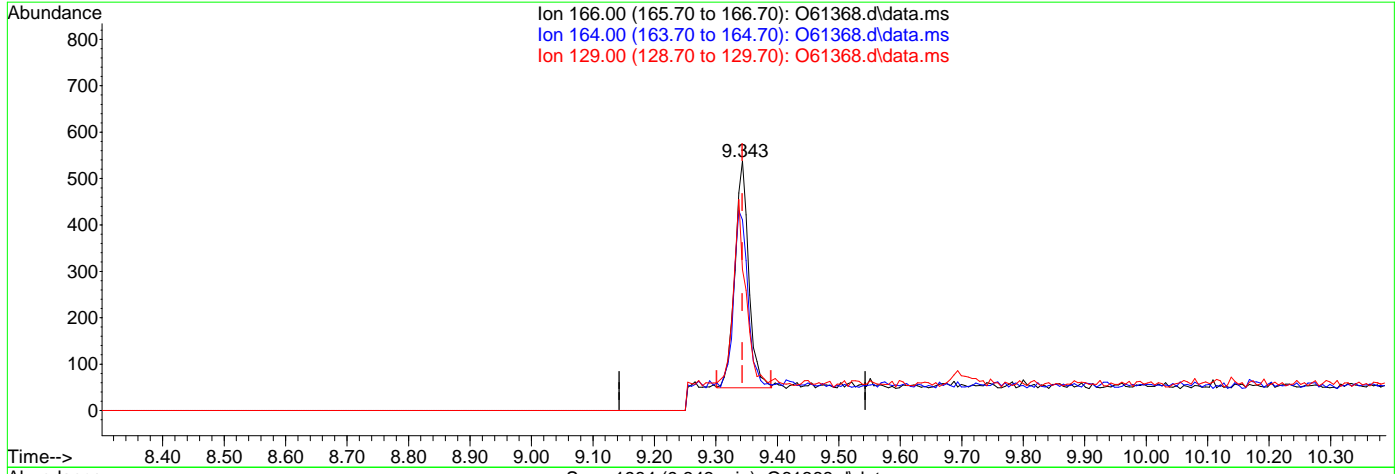
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	73.51
129.00	67.50	51.75
0.00	0.00	0.00

7.1.6.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61368.d  
Acq On : 14 Sep 2020 2:24 pm  
Operator : akarig  
Sample : fa78559-6  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 14 22:19:22 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.000) 0.04ug/L m

response 770

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	76.39
129.00	67.50	56.51
0.00	0.00	0.00



7.1.6.5  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61369.d  
Acq On : 14 Sep 2020 2:44 pm  
Operator : akarig  
Sample : fa78559-7  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 22:33:50 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	210830	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	174477	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	100611	5.91	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	118.20%	
19) Toluene-d8	8.896	98	177608	4.51	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.20%	
Target Compounds						
5) Methylene Chloride	4.707	49	1595	0.03	ug/L	90
9) Chloroform	6.327	83	5272	0.16	ug/L #	75
10) Carbon Tetrachloride	6.505	117	24110	1.05	ug/L	87
15) Trichloroethene	7.512	95	1554	0.08	ug/L	88
-----						

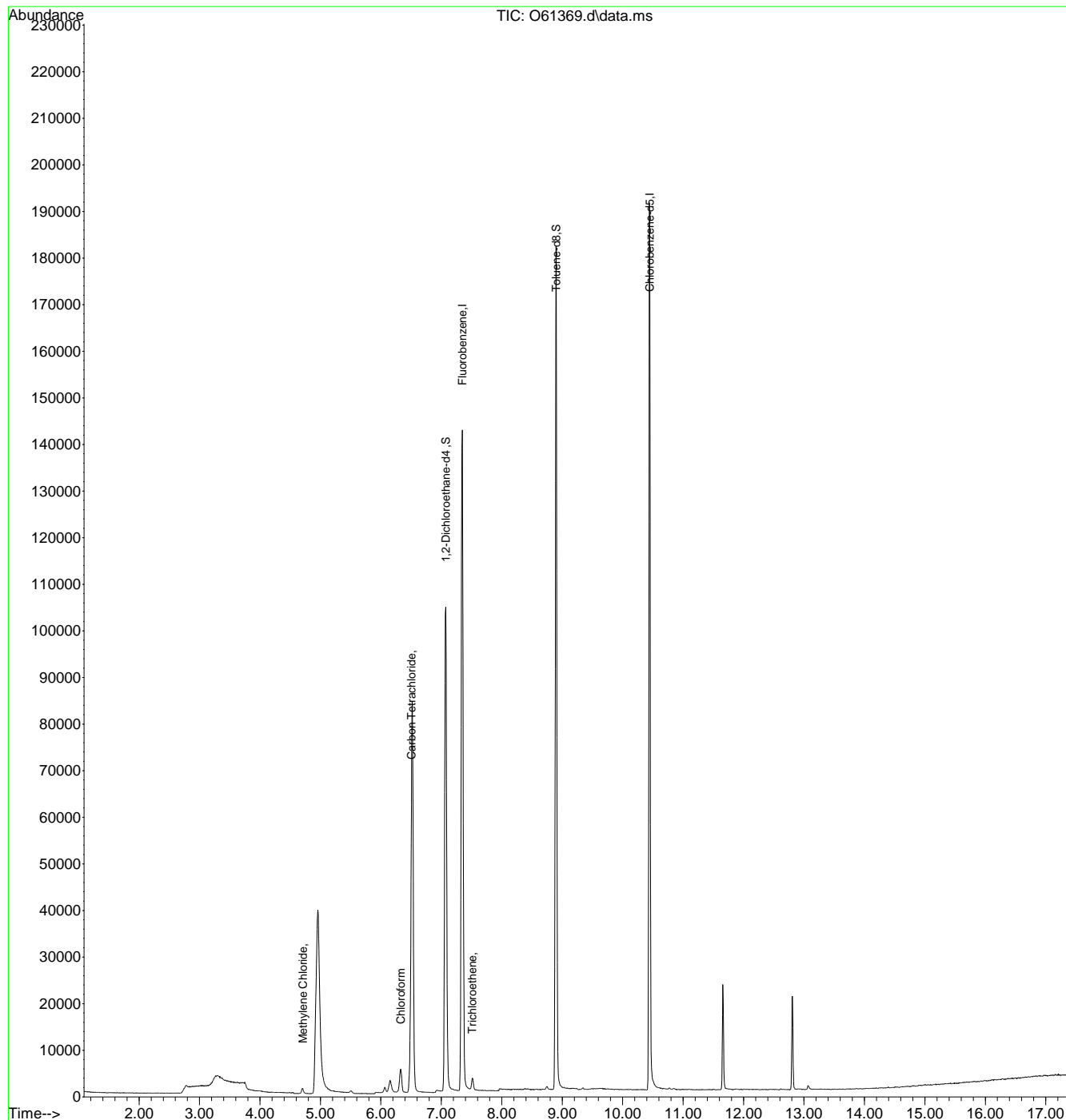
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.17  
7

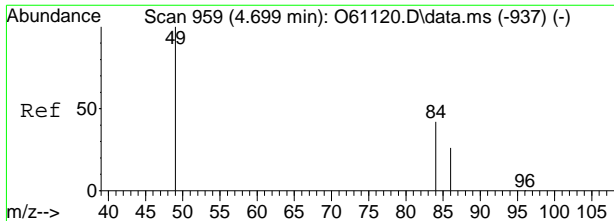
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61369.d  
 Acq On : 14 Sep 2020 2:44 pm  
 Operator : akarig  
 Sample : fa78559-7  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 22:33:50 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

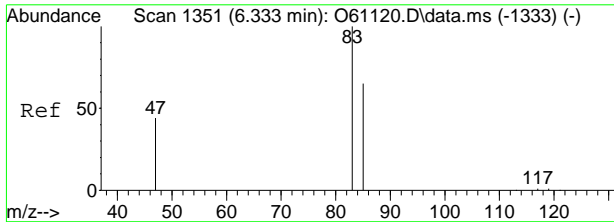
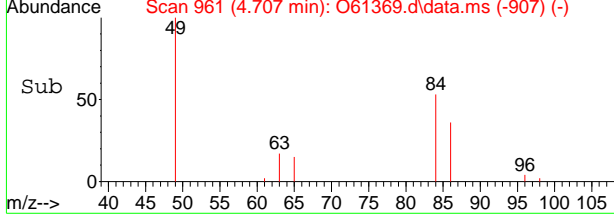
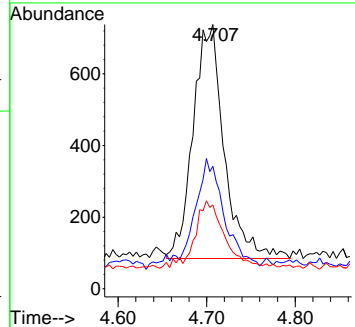
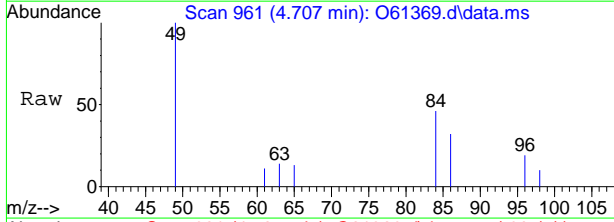


7.17  
7



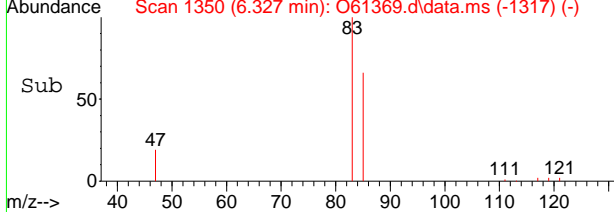
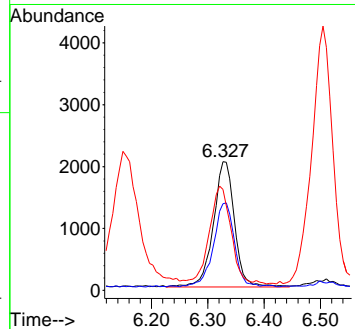
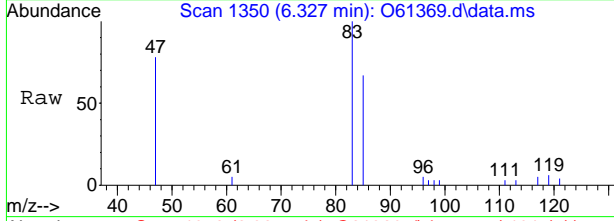
#5  
 Methylene Chloride  
 Concen: 0.03 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61369.d  
 Acq: 14 Sep 2020 2:44 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	40.0	17.9	77.9
86	25.6	0.0	59.8

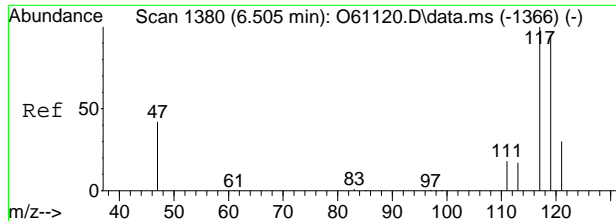


#9  
 Chloroform  
 Concen: 0.16 ug/L  
 RT: 6.327 min Scan# 1350  
 Delta R.T. -0.006 min  
 Lab File: O61369.d  
 Acq: 14 Sep 2020 2:44 pm

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	33.0	93.0
47	73.6	8.1	68.1#

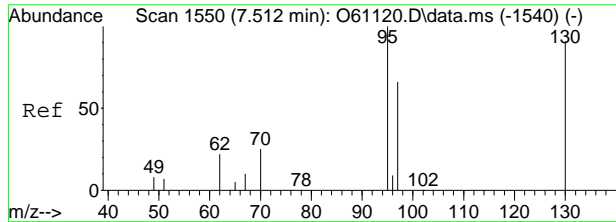
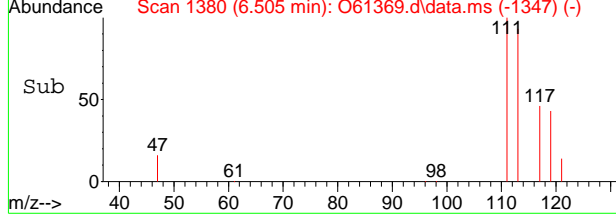
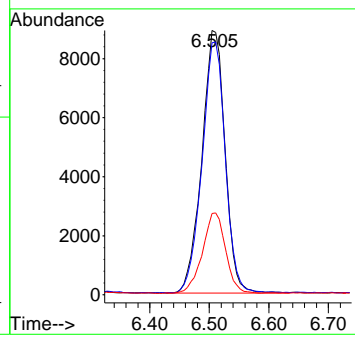
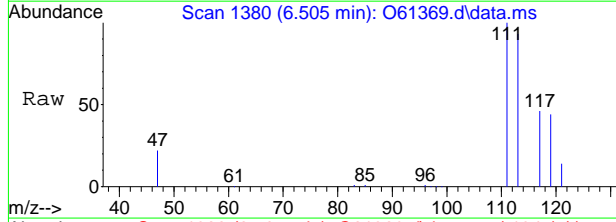


7.17  
7



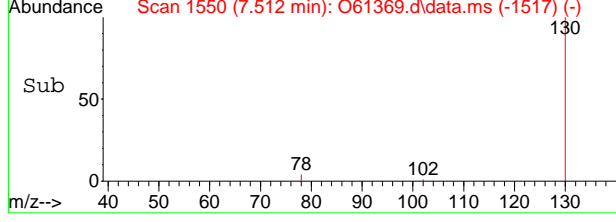
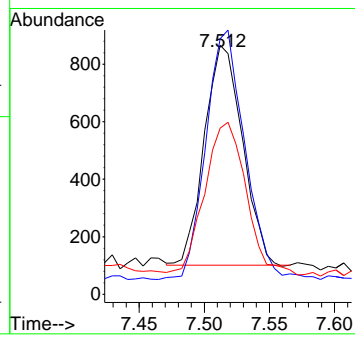
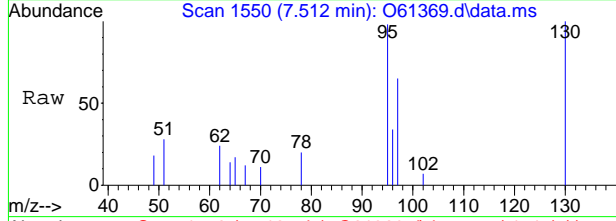
#10  
 Carbon Tetrachloride  
 Concen: 1.05 ug/L  
 RT: 6.505 min Scan# 1380  
 Delta R.T. -0.006 min  
 Lab File: O61369.d  
 Acq: 14 Sep 2020 2:44 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.1	80.9	140.9
121	30.3	4.1	64.1



#15  
 Trichloroethene  
 Concen: 0.08 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61369.d  
 Acq: 14 Sep 2020 2:44 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
130	108.5	60.4	120.4
97	65.6	34.6	94.6



7.17  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61370.d  
Acq On : 14 Sep 2020 3:05 pm  
Operator : akarig  
Sample : fa78559-8  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 22:34:17 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	208388	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	178665	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	99635	5.92	ug/L	0.00	
Spiked Amount	5.000	Range	74 - 125	Recovery	=	118.40%	
19) Toluene-d8	8.896	98	176347	4.38	ug/L	0.00	
Spiked Amount	5.000	Range	88 - 111	Recovery	=	87.60%#	
Target Compounds							
5) Methylene Chloride	4.699	49	1590	0.04	ug/L	94	
8) cis-1,2-Dichloroethene	6.066	96	5162	0.27	ug/L	85	
9) Chloroform	6.327	83	6387	0.19	ug/L	83	
10) Carbon Tetrachloride	6.505	117	1134	0.05	ug/L	90	
15) Trichloroethene	7.512	95	88893	4.54	ug/L	88	
21) Tetrachloroethene	9.337	166	21033	1.08	ug/L	95	
-----							

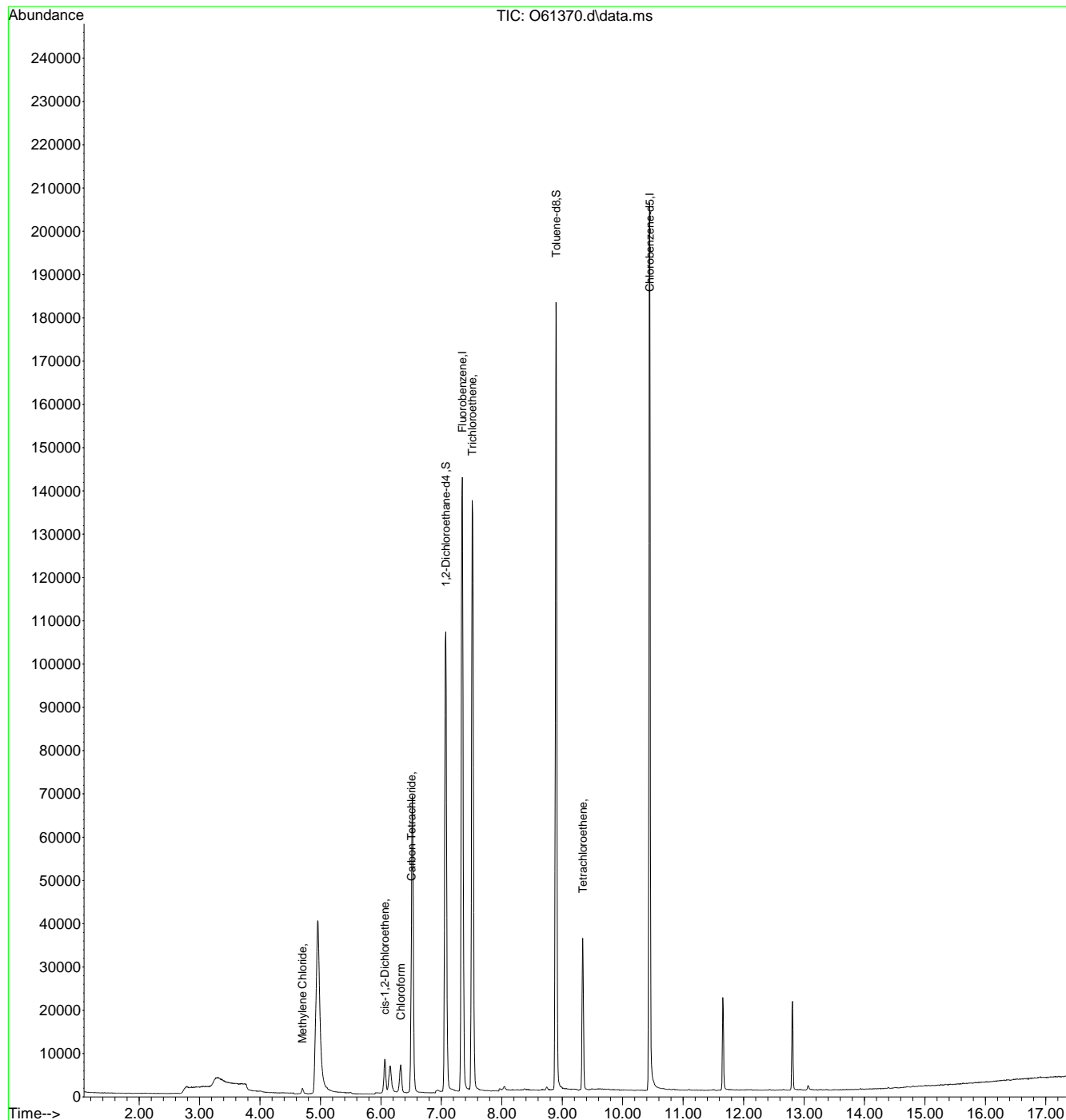
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.8  
7

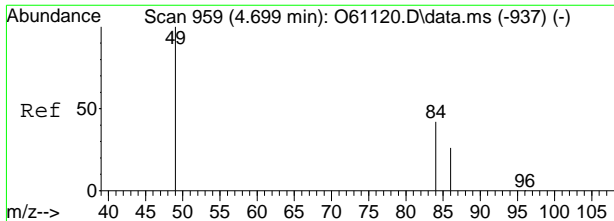
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61370.d  
 Acq On : 14 Sep 2020 3:05 pm  
 Operator : akarig  
 Sample : fa78559-8  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 22:34:17 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



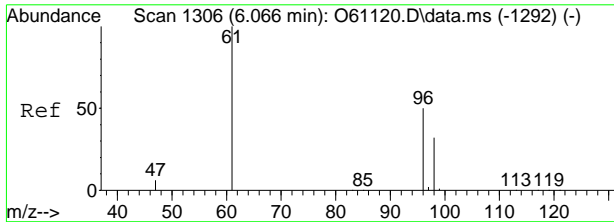
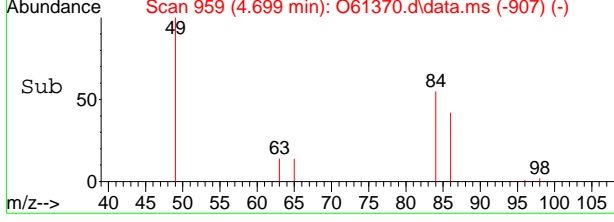
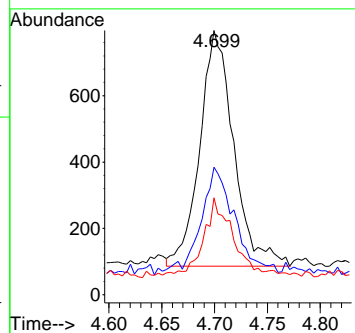
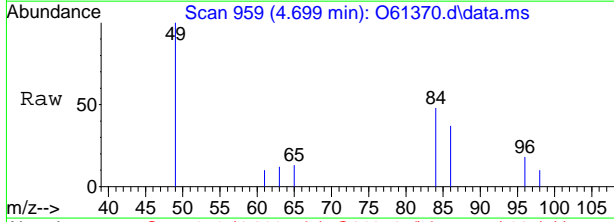
7.18



#5  
 Methylene Chloride  
 Concen: 0.04 ug/L  
 RT: 4.699 min Scan# 959  
 Delta R.T. -0.004 min  
 Lab File: O61370.d  
 Acq: 14 Sep 2020 3:05 pm

Tgt Ion: 49 Resp: 1590

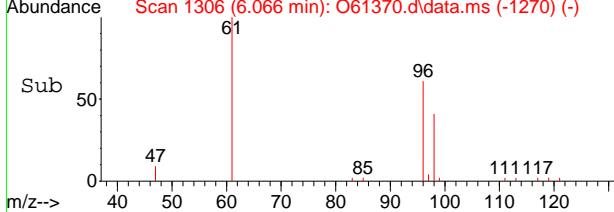
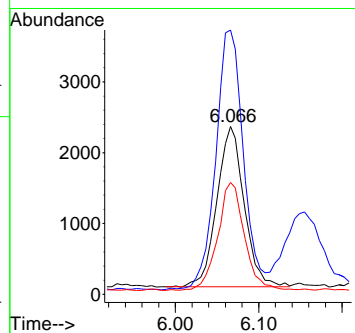
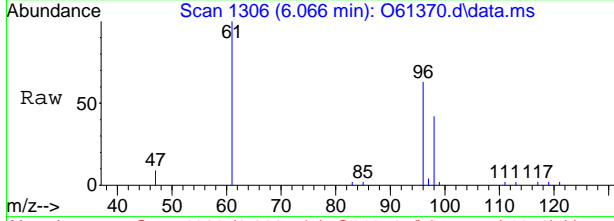
Ion	Ratio	Lower	Upper
49	100		
84	43.3	17.9	77.9
86	32.5	0.0	59.8

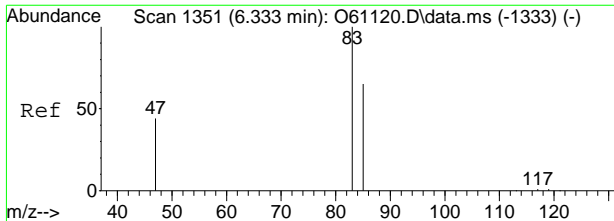


#8  
 cis-1,2-Dichloroethene  
 Concen: 0.27 ug/L  
 RT: 6.066 min Scan# 1306  
 Delta R.T. -0.006 min  
 Lab File: O61370.d  
 Acq: 14 Sep 2020 3:05 pm

Tgt Ion: 96 Resp: 5162

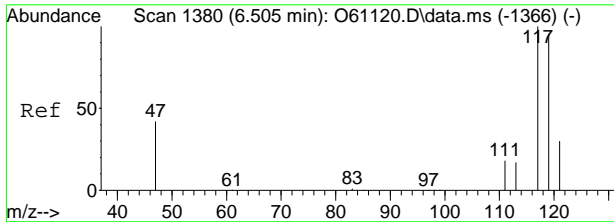
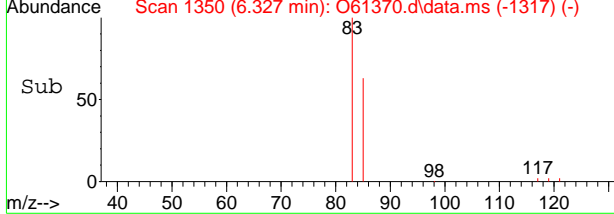
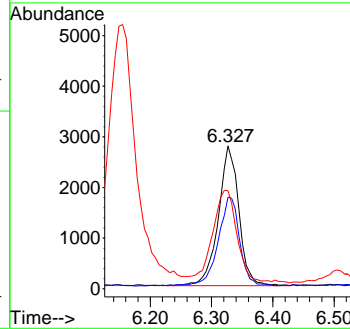
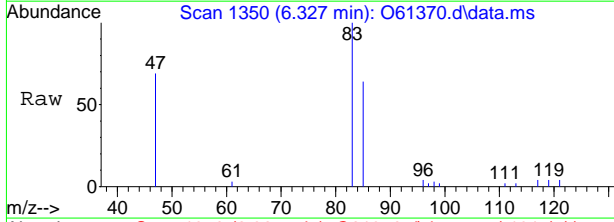
Ion	Ratio	Lower	Upper
96	100		
61	161.7	107.0	167.0
98	67.1	34.1	94.1





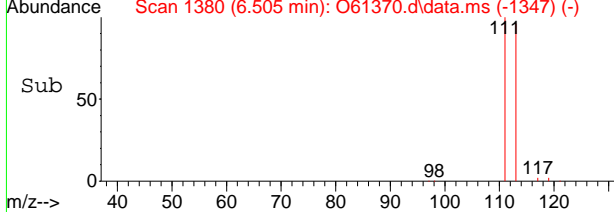
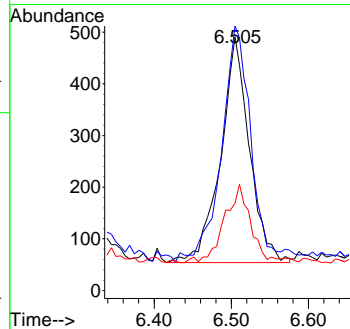
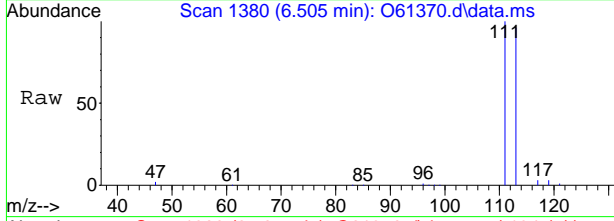
#9  
 Chloroform  
 Concen: 0.19 ug/L  
 RT: 6.327 min Scan# 1350  
 Delta R.T. -0.006 min  
 Lab File: O61370.d  
 Acq: 14 Sep 2020 3:05 pm

Tgt Ion	Resp	Lower	Upper
83	6387		
85	63.0	33.0	93.0
47	65.9	8.1	68.1



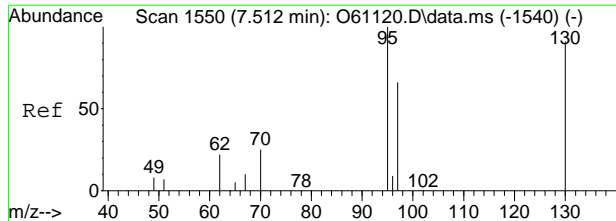
#10  
 Carbon Tetrachloride  
 Concen: 0.05 ug/L  
 RT: 6.505 min Scan# 1380  
 Delta R.T. -0.006 min  
 Lab File: O61370.d  
 Acq: 14 Sep 2020 3:05 pm

Tgt Ion	Resp	Lower	Upper
117	1134		
119	101.4	80.9	140.9
121	26.3	4.1	64.1



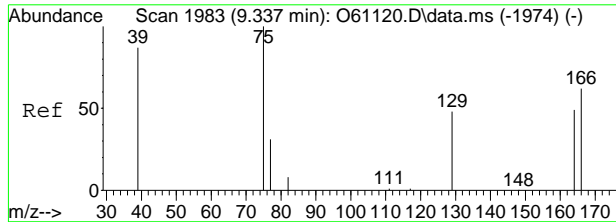
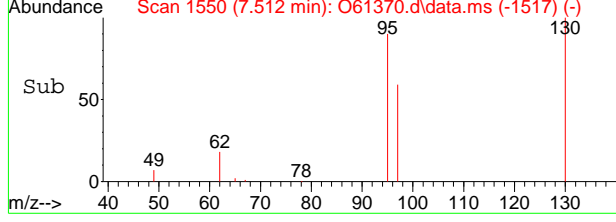
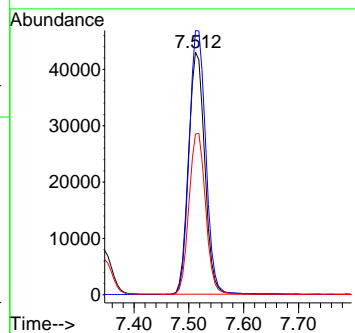
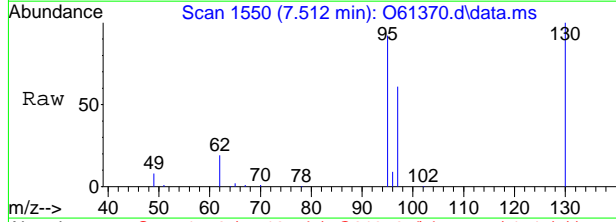
7.18  
7





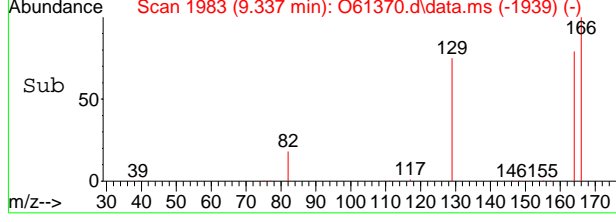
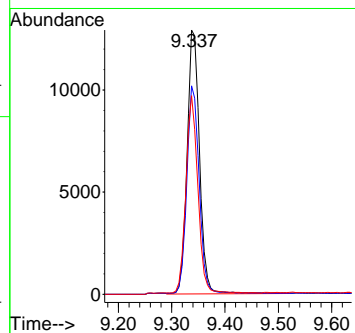
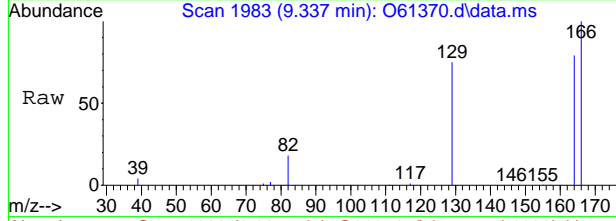
#15  
 Trichloroethene  
 Concen: 4.54 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61370.d  
 Acq: 14 Sep 2020 3:05 pm

Tgt Ion	Resp	Lower	Upper
95	88893		
130	109.0	60.4	120.4
97	66.2	34.6	94.6



#21  
 Tetrachloroethene  
 Concen: 1.08 ug/L  
 RT: 9.337 min Scan# 1983  
 Delta R.T. -0.006 min  
 Lab File: O61370.d  
 Acq: 14 Sep 2020 3:05 pm

Tgt Ion	Resp	Lower	Upper
166	21033		
164	78.8	47.3	107.3
129	74.9	37.5	97.5



7.1.8  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61371.d  
 Acq On : 14 Sep 2020 4:25 pm  
 Operator : akarig  
 Sample : fa78559-9  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 22:34:40 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.340	96	212284	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.441	117	216836	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.068	65	103083	6.01	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	120.20%	
19) Toluene-d8	8.892	98	175365	3.59	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	71.80%#	
Target Compounds						
5) Methylene Chloride	4.696	49	2602	0.06	ug/L	Qvalue 90
-----						

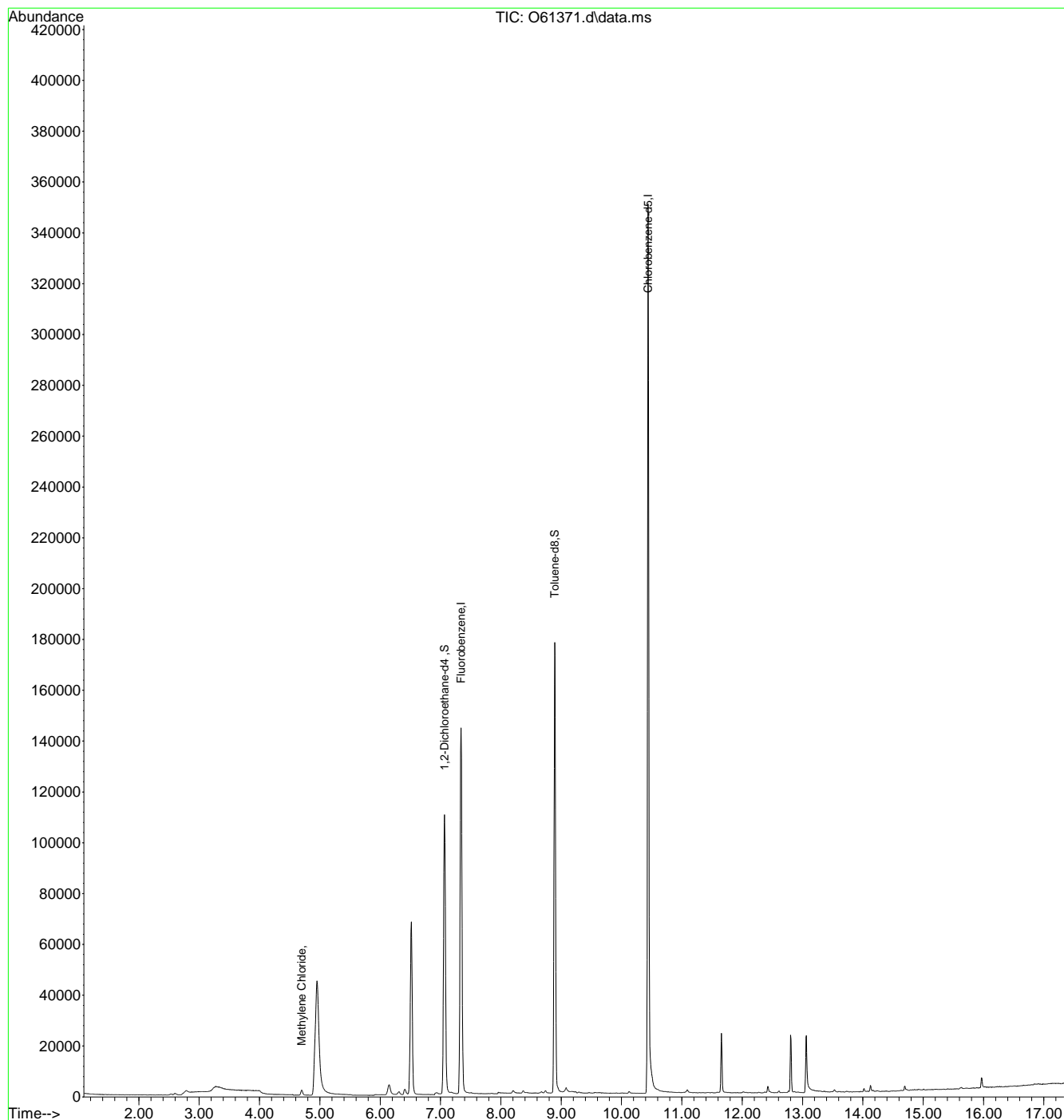
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.9  
7

Quantitation Report (QT Reviewed)

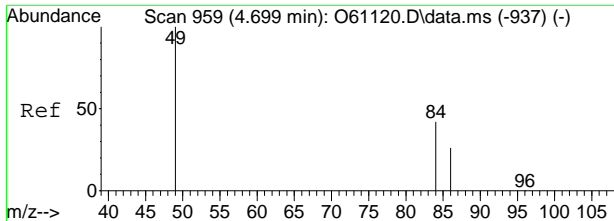
Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61371.d  
 Acq On : 14 Sep 2020 4:25 pm  
 Operator : akarig  
 Sample : fa78559-9  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 22:34:40 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



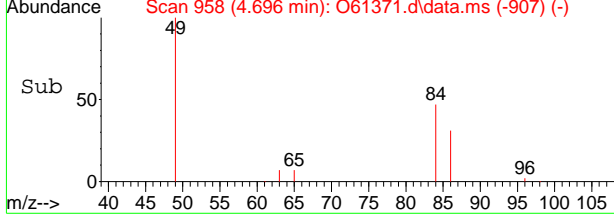
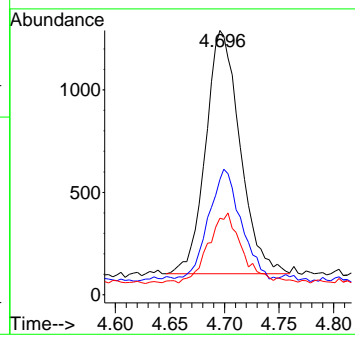
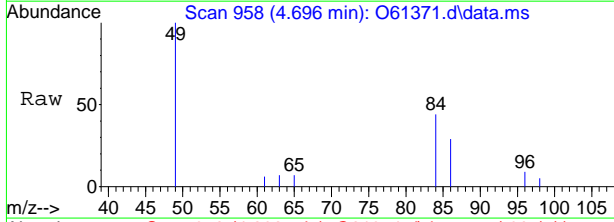
7.19  
7





#5  
 Methylene Chloride  
 Concen: 0.06 ug/L  
 RT: 4.696 min Scan# 958  
 Delta R.T. -0.007 min  
 Lab File: O61371.d  
 Acq: 14 Sep 2020 4:25 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	39.9	17.9	77.9
86	25.7	0.0	59.8



7.1.9  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-17-2020\vo2363\  
 Data File : O61412.d  
 Acq On : 16 Sep 2020 3:32 pm  
 Operator : akarig  
 Sample : FA78559-9  
 Misc : MS47193,VO2363,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 04:52:14 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

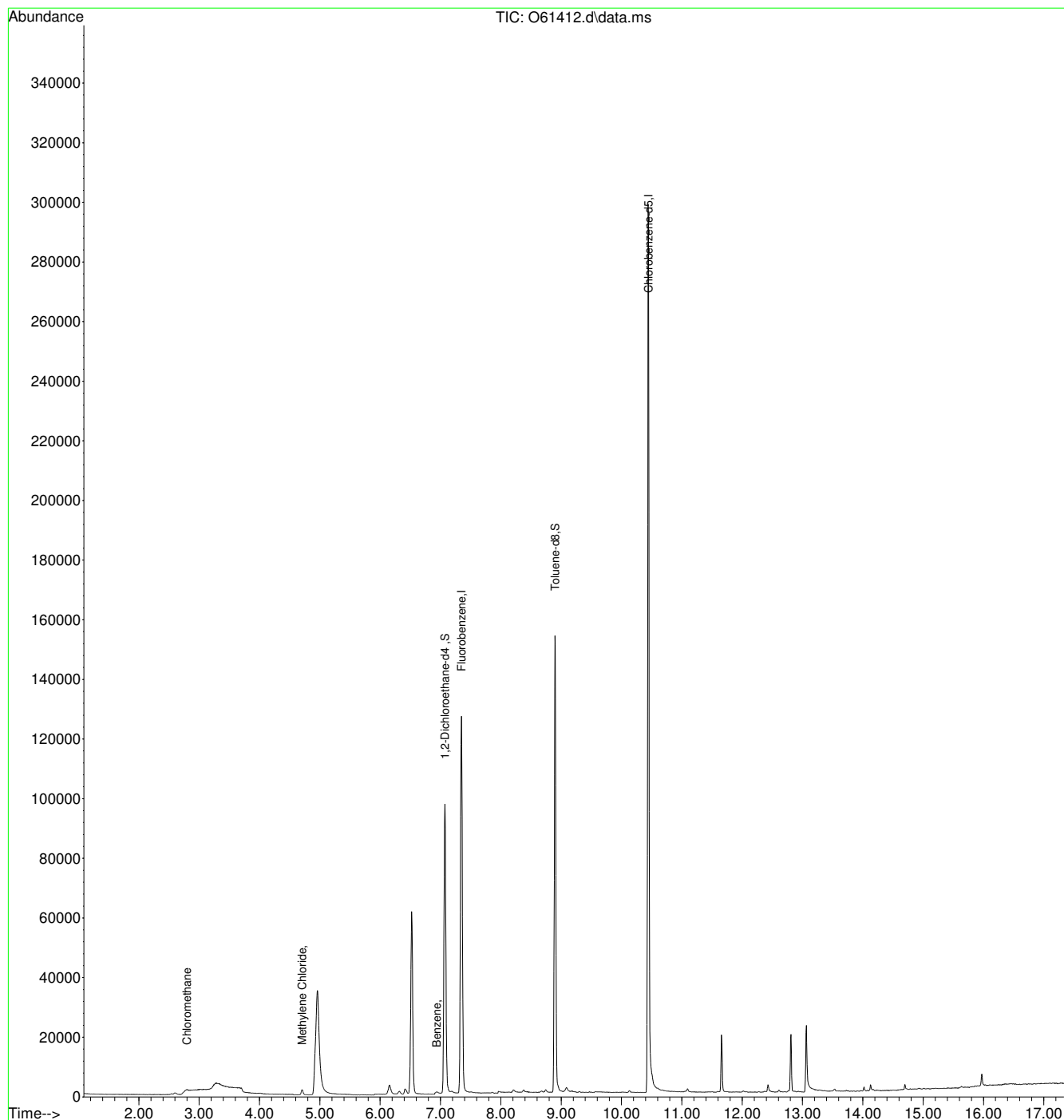
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	187324	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	187821	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	90464	5.73	ug/L	0.00
Spiked Amount	5.000	Range	74 - 125	Recovery	=	114.60%
19) Toluene-d8	8.896	98	152974	3.99	ug/L	0.00
Spiked Amount	5.000	Range	88 - 111	Recovery	=	79.80%#
Target Compounds						
3) Chloromethane	2.795	50	6756	0.18	ug/L #	60
5) Methylene Chloride	4.703	49	2197	0.04	ug/L	98
12) Benzene	6.937	78	1491m	0.03	ug/L	
-----						

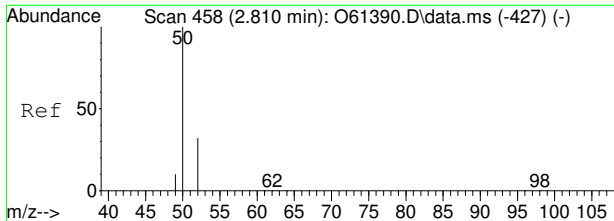
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

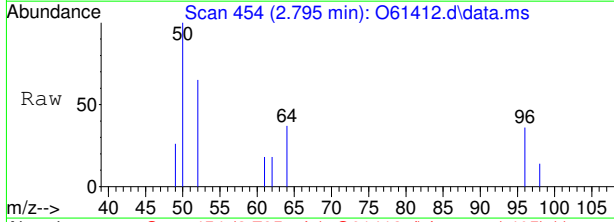
Data Path : C:\msdchem\1\data\johnm\September 2020\09-17-2020\vo2363\  
Data File : O61412.d  
Acq On : 16 Sep 2020 3:32 pm  
Operator : akarig  
Sample : FA78559-9  
Misc : MS47193,VO2363,,,,,  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 04:52:14 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091520.M  
Quant Title : Standard Methods 6200B  
QLast Update : Wed Sep 16 09:02:25 2020  
Response via : Initial Calibration



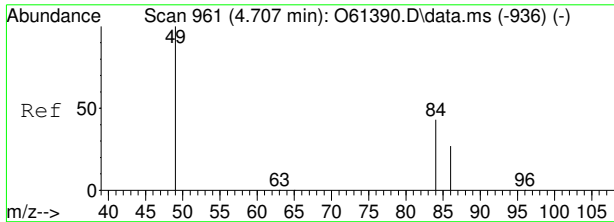
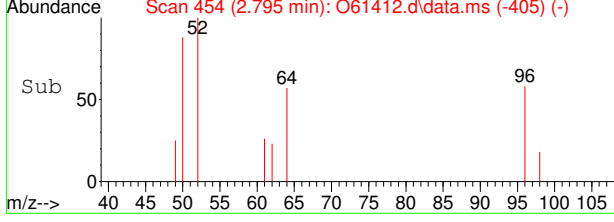
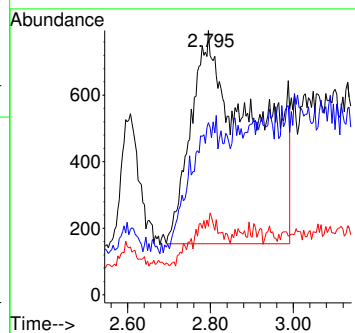


#3  
 Chloromethane  
 Concen: 0.18 ug/L  
 RT: 2.795 min Scan# 454  
 Delta R.T. -0.015 min  
 Lab File: O61412.d  
 Acq: 16 Sep 2020 3:32 pm

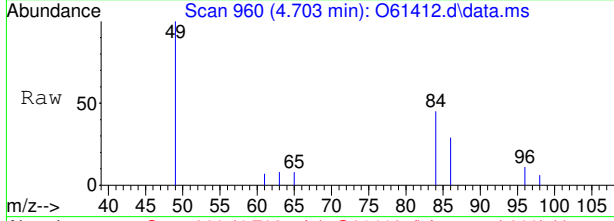


Tgt Ion: 50 Resp: 6756

Ion	Ratio	Lower	Upper
50	100		
52	58.3	12.1	52.1#
49	17.1	0.0	30.3

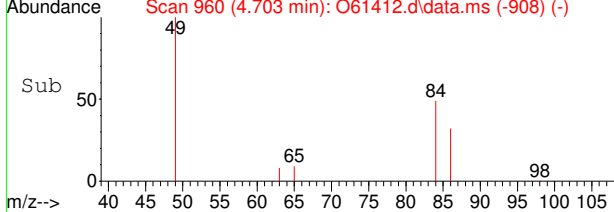
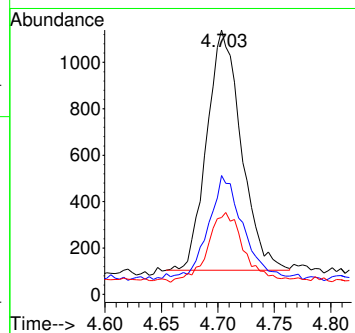


#5  
 Methylene Chloride  
 Concen: 0.04 ug/L  
 RT: 4.703 min Scan# 960  
 Delta R.T. -0.004 min  
 Lab File: O61412.d  
 Acq: 16 Sep 2020 3:32 pm

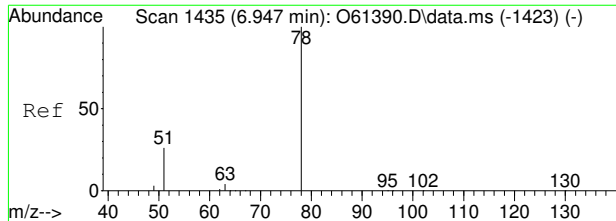


Tgt Ion: 49 Resp: 2197

Ion	Ratio	Lower	Upper
49	100		
84	41.8	13.2	73.2
86	25.9	0.0	57.3



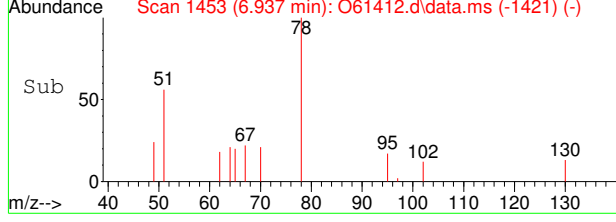
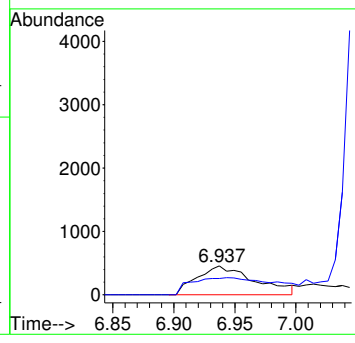
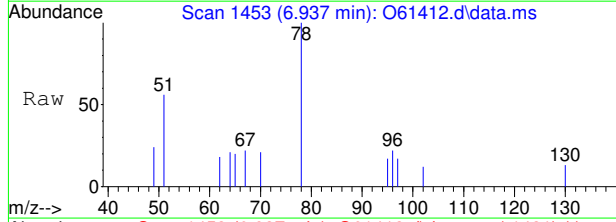
7.1.10  
7



#12  
 Benzene  
 Concen: 0.03 ug/L m  
 RT: 6.937 min Scan# 1453  
 Delta R.T. -0.010 min  
 Lab File: O61412.d  
 Acq: 16 Sep 2020 3:32 pm

Tgt Ion: 78 Resp: 1491

Ion	Ratio	Lower	Upper
78	100		
51	55.9	0.0	56.0



7.1.10  
7



# Manual Integration Approval Summary

**Sample Number:** FA78559-9      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61412.D      **Analyst approved:** 09/17/20 15:36 Juan Garcia  
**Injection Time:** 09/16/20 15:32      **Supervisor approved:** 09/18/20 14:37 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

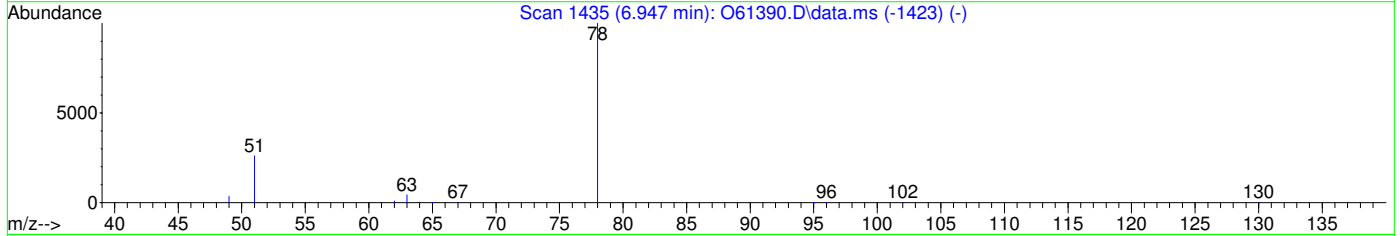
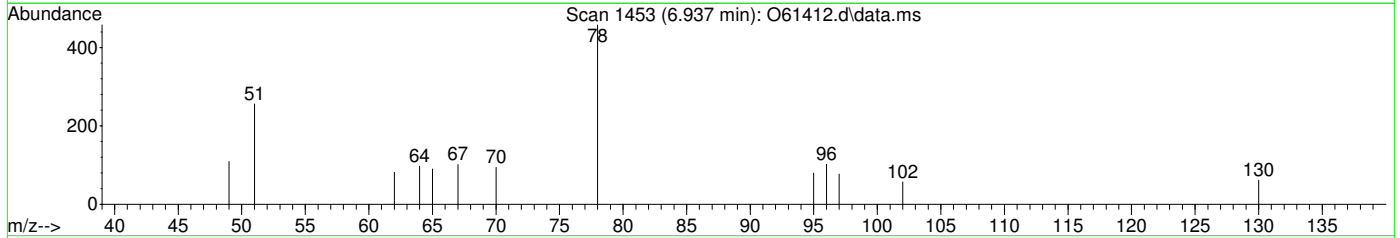
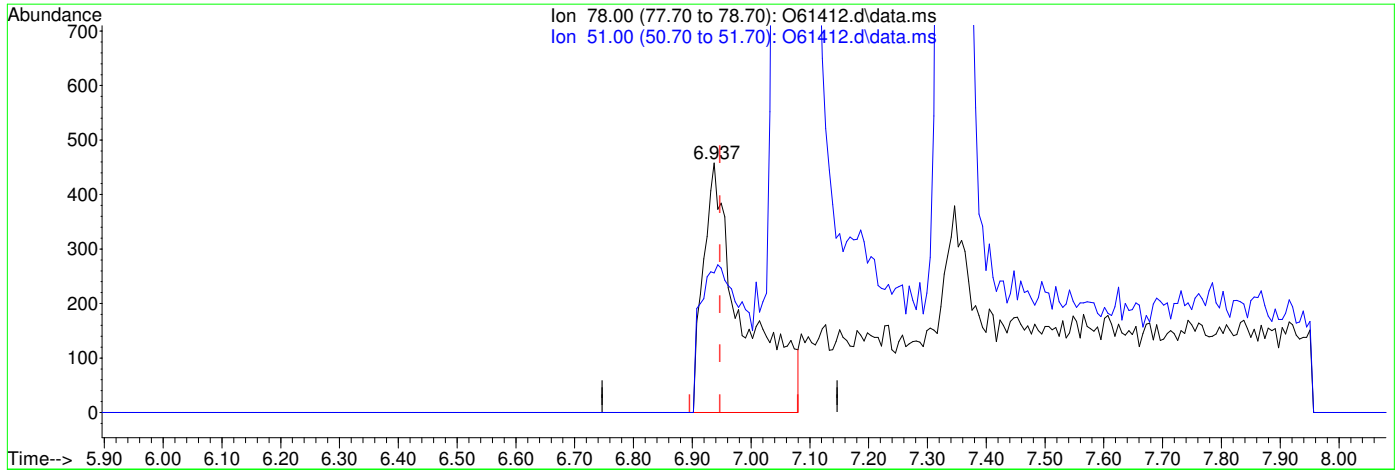
7.1.10.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-17-2020\vo2363\  
 Data File : O61412.d  
 Acq On : 16 Sep 2020 3:32 pm  
 Operator : akarig  
 Sample : FA78559-9  
 Misc : MS47193,VO2363,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 04:42:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration



TIC: O61412.d\data.ms

(12) Benzene ( )

6.937min (-0.010) 0.04ug/L

response 2165

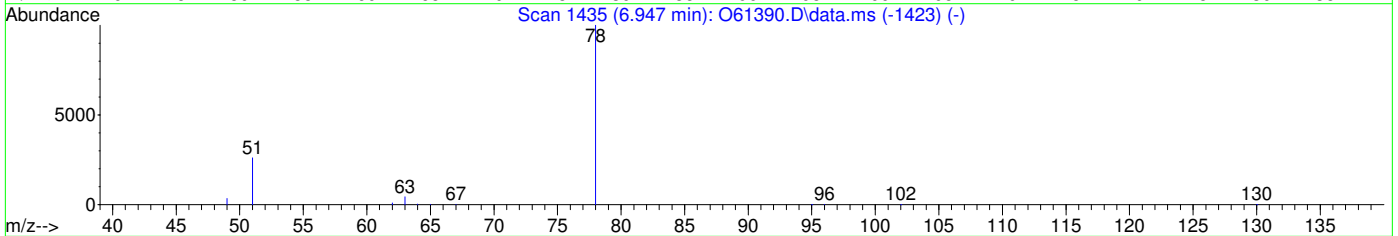
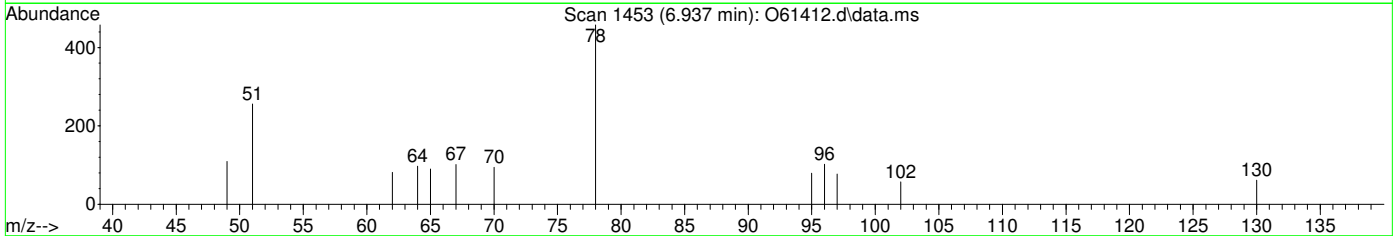
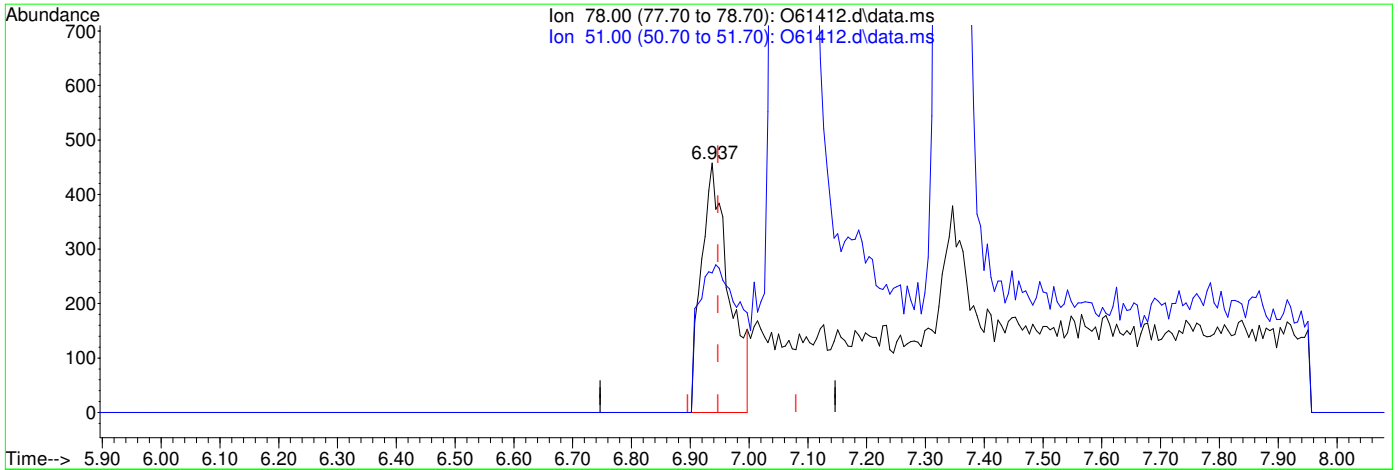
Ion	Exp%	Act%
78.00	100	100
51.00	26.00	55.90
0.00	0.00	0.00
0.00	0.00	0.00

7.1.102  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-17-2020\vo2363\  
 Data File : O61412.d  
 Acq On : 16 Sep 2020 3:32 pm  
 Operator : akarig  
 Sample : FA78559-9  
 Misc : MS47193,VO2363,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 04:42:46 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.010) 0.03ug/L m

response 1491

Ion	Exp%	Act%
78.00	100	100
51.00	26.00	55.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61372.d  
Acq On : 14 Sep 2020 4:45 pm  
Operator : akarig  
Sample : fa78559-10  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 22:35:40 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	210205	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	174075	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	102224	6.02	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	120.40%		
19) Toluene-d8	8.896	98	178929	4.56	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.20%		
Target Compounds							
3) Chloromethane	2.784	50	6985m	0.19	ug/L		Qvalue
5) Methylene Chloride	4.707	49	2002	0.04	ug/L		88
9) Chloroform	6.333	83	2549	0.08	ug/L #		64
10) Carbon Tetrachloride	6.516	117	10210	0.45	ug/L		88
15) Trichloroethene	7.512	95	2028	0.10	ug/L		94
-----							

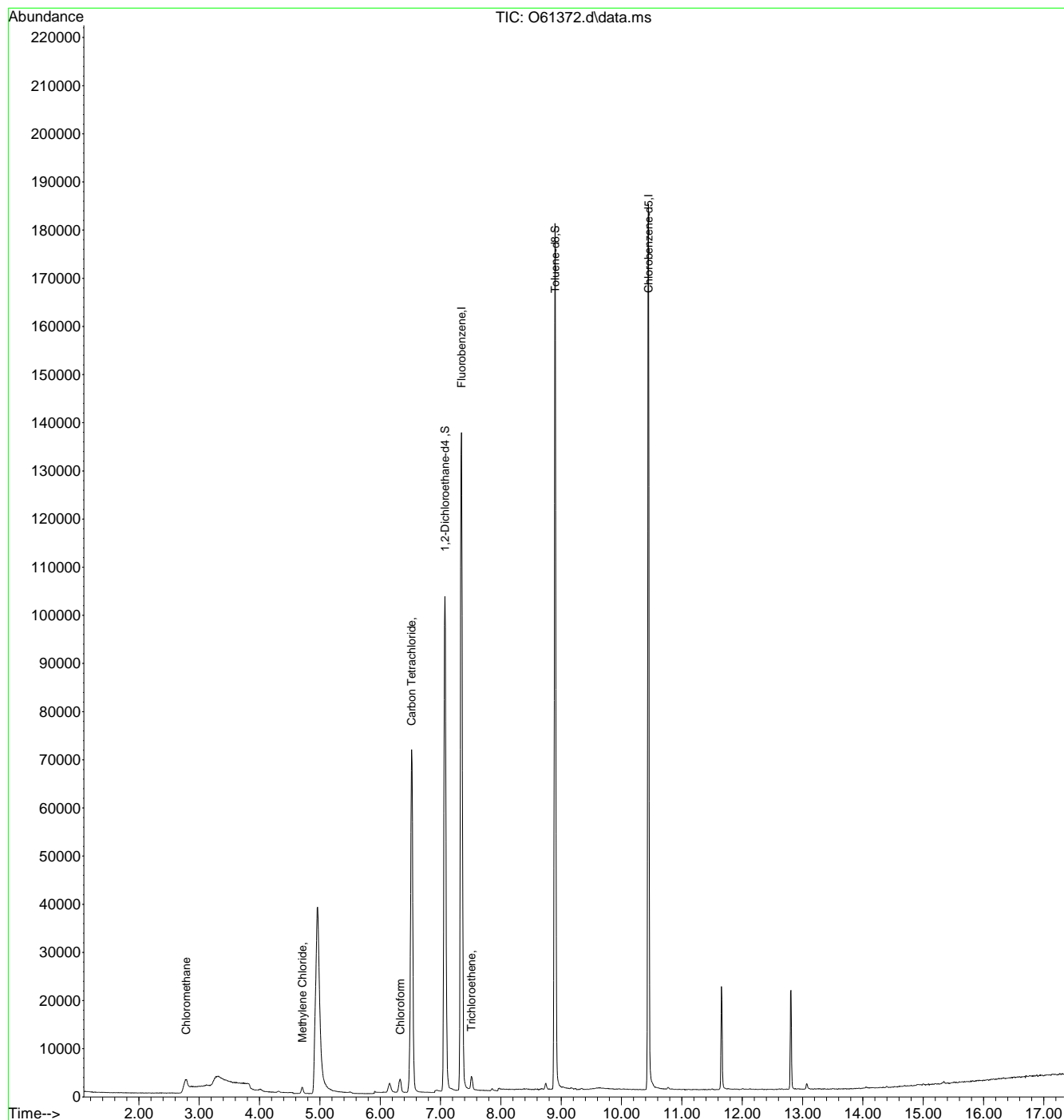
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.11  
7

Quantitation Report (QT Reviewed)

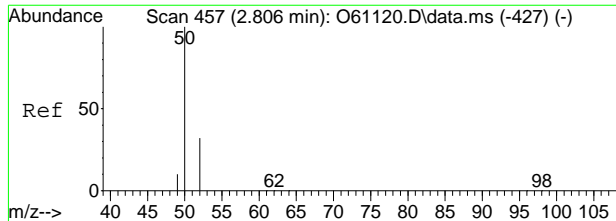
Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61372.d  
 Acq On : 14 Sep 2020 4:45 pm  
 Operator : akarig  
 Sample : fa78559-10  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 22:35:40 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



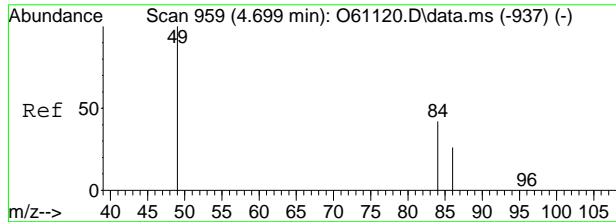
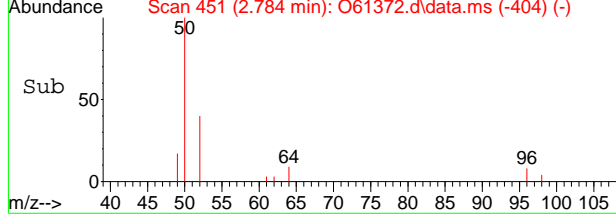
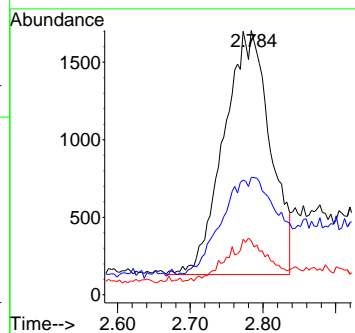
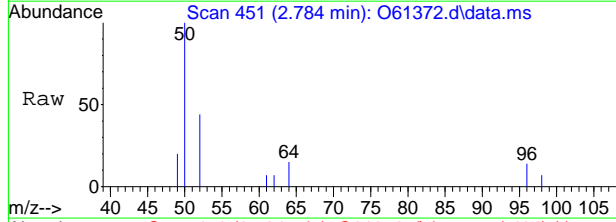
7.1.11  
7





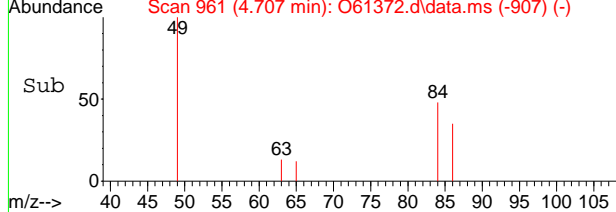
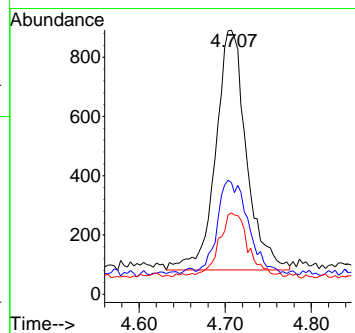
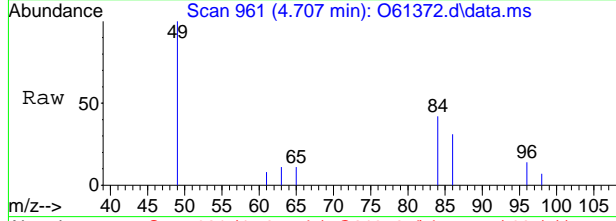
#3  
 Chloromethane  
 Concen: 0.19 ug/L m  
 RT: 2.784 min Scan# 451  
 Delta R.T. -0.023 min  
 Lab File: O61372.d  
 Acq: 14 Sep 2020 4:45 pm

Tgt Ion	Resp	Lower	Upper
50	6985		
52	44.4	7.8	47.8
49	20.4	0.0	30.5



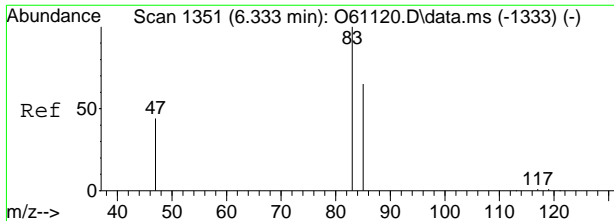
#5  
 Methylene Chloride  
 Concen: 0.04 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61372.d  
 Acq: 14 Sep 2020 4:45 pm

Tgt Ion	Resp	Lower	Upper
49	2002		
49	100		
84	37.9	17.9	77.9
86	26.0	0.0	59.8



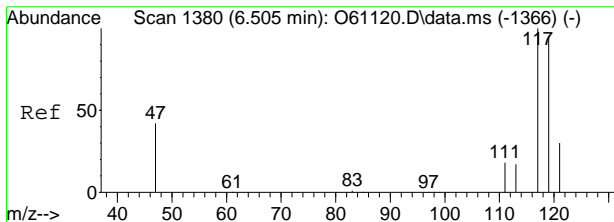
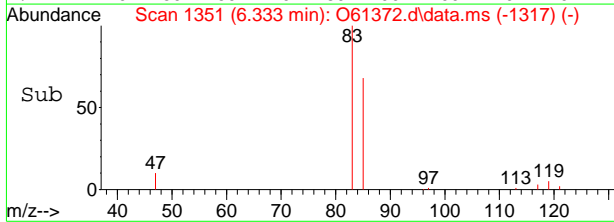
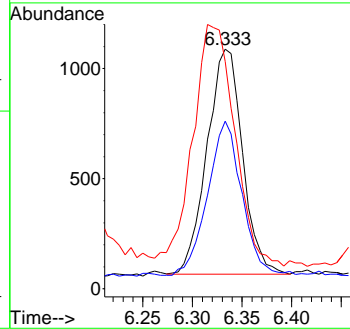
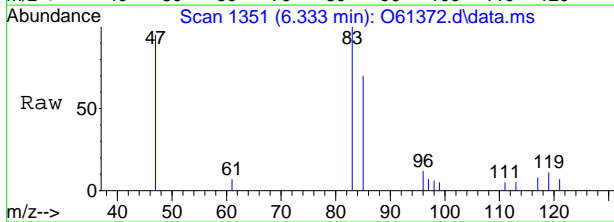
7.1.11  
7





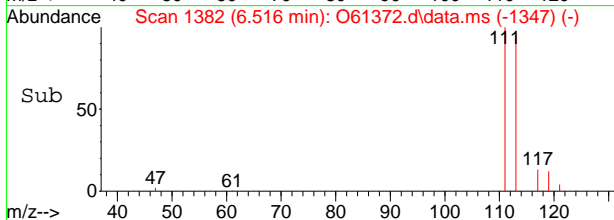
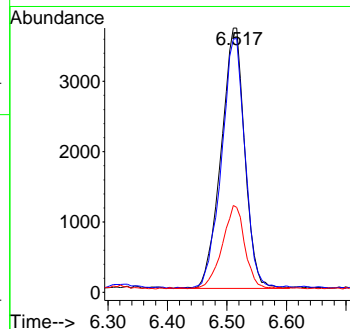
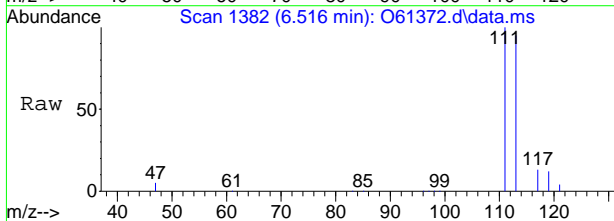
#9  
 Chloroform  
 Concen: 0.08 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61372.d  
 Acq: 14 Sep 2020 4:45 pm

Tgt Ion	Resp	Lower	Upper
83	2549		
85	68.4	33.0	93.0
47	88.6	8.1	68.1#

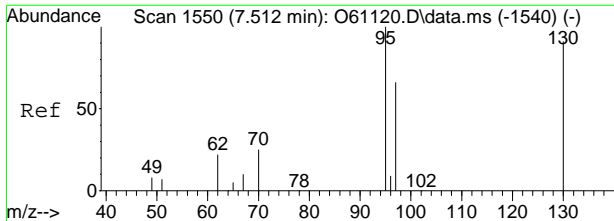


#10  
 Carbon Tetrachloride  
 Concen: 0.45 ug/L  
 RT: 6.516 min Scan# 1382  
 Delta R.T. 0.005 min  
 Lab File: O61372.d  
 Acq: 14 Sep 2020 4:45 pm

Tgt Ion	Resp	Lower	Upper
117	10210		
119	95.9	80.9	140.9
121	31.1	4.1	64.1

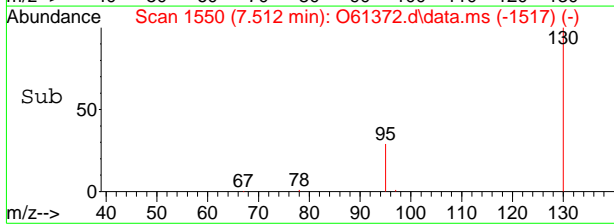
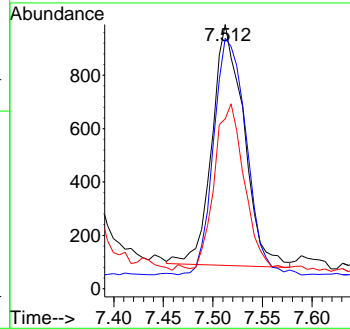
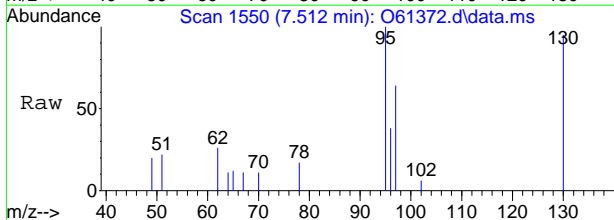


7.1.11  
7



#15  
 Trichloroethene  
 Concen: 0.10 ug/L  
 RT: 7.512 min Scan# 1550  
 Delta R.T. -0.006 min  
 Lab File: O61372.d  
 Acq: 14 Sep 2020 4:45 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
130	98.8	60.4	120.4
97	62.4	34.6	94.6



7.1.11  
7



# Manual Integration Approval Summary

**Sample Number:** FA78559-10      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61372.D      **Analyst approved:** 09/15/20 11:14 Akari Giraldo  
**Injection Time:** 09/14/20 16:45      **Supervisor approved:** 09/15/20 11:35 Melissa Mangual

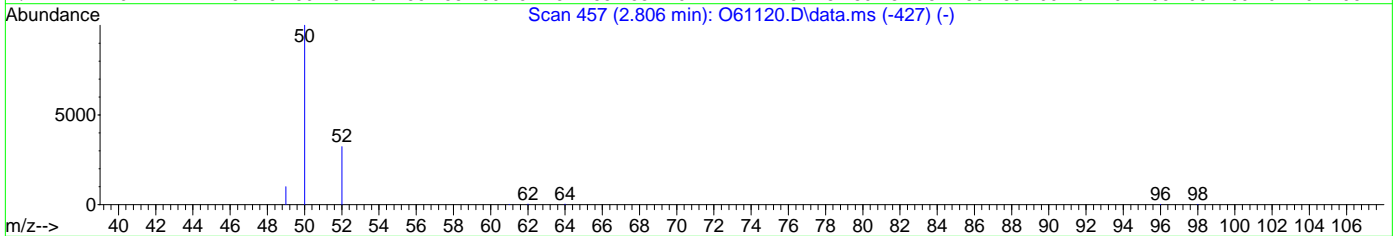
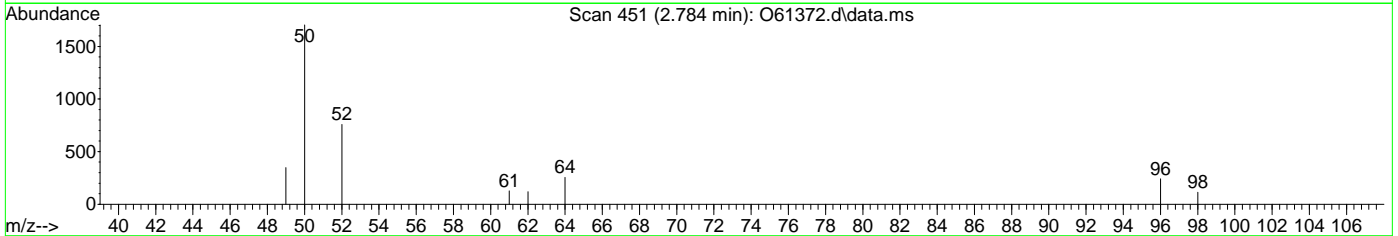
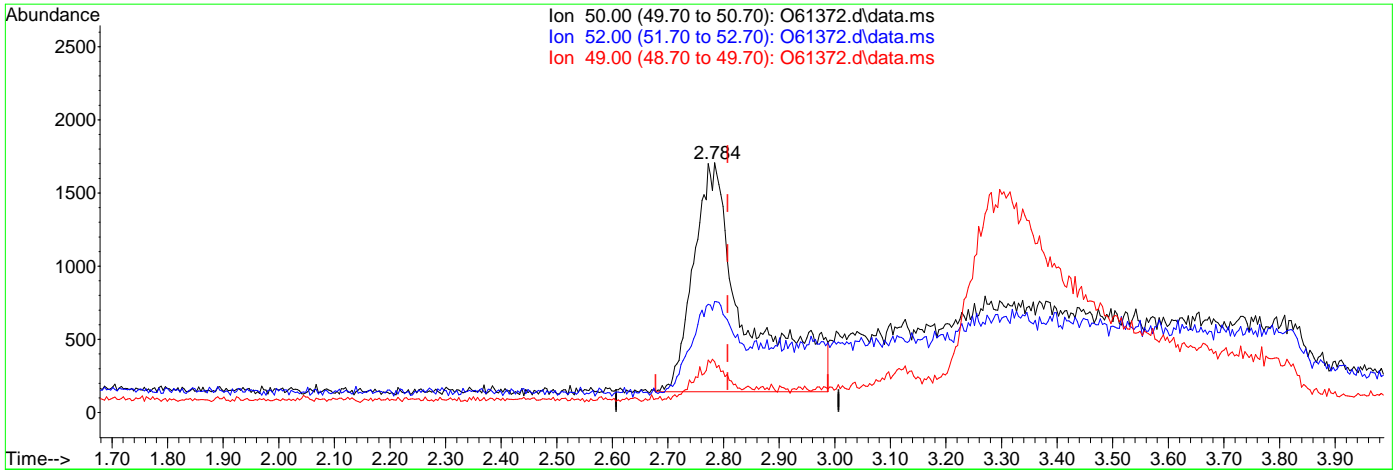
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.78	Poor instrument integration

7.1.11.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61372.d  
 Acq On : 14 Sep 2020 4:45 pm  
 Operator : akarig  
 Sample : fa78559-10  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 22:19:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.784min (-0.023) 0.28ug/L

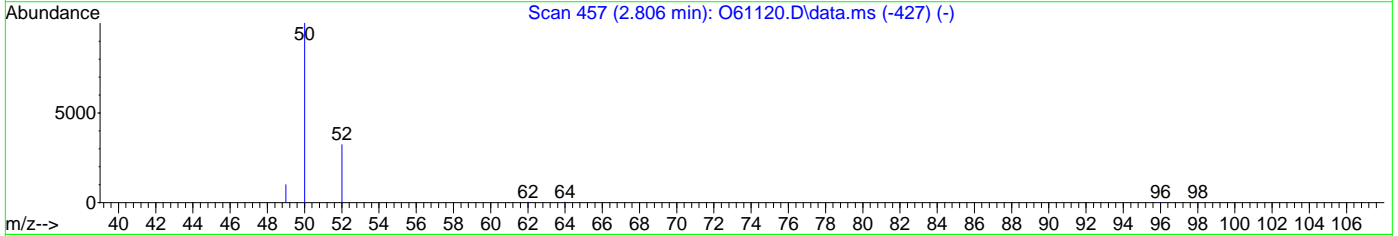
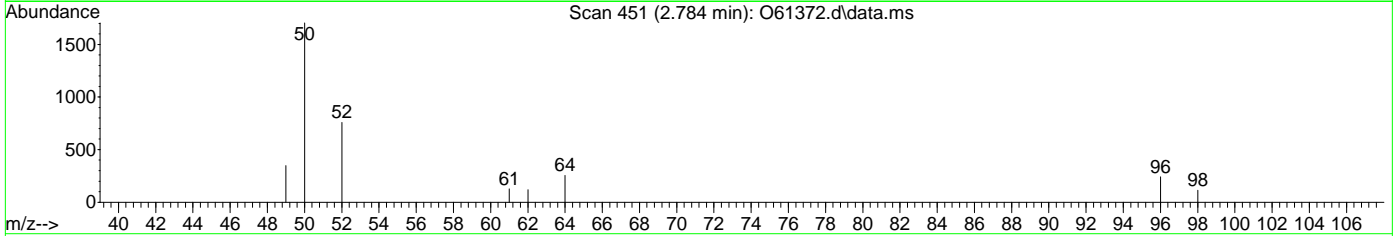
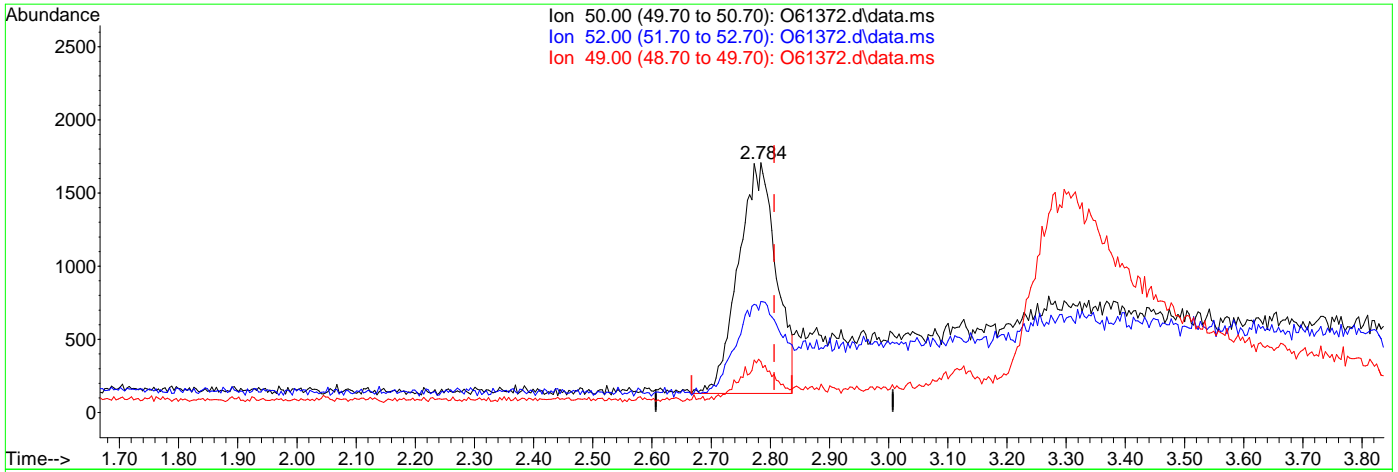
response 10239

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	39.60
49.00	10.50	16.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61372.d  
 Acq On : 14 Sep 2020 4:45 pm  
 Operator : akarig  
 Sample : fa78559-10  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 22:19:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.784min (-0.023) 0.19ug/L m

response 6985

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	44.43
49.00	10.50	20.40
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61358.d  
 Acq On : 14 Sep 2020 10:09 am  
 Operator : akarig  
 Sample : mb  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 22:23:42 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	271935	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	208524	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	120025	5.46	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	109.20%	
19) Toluene-d8	8.896	98	230063	4.89	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	97.80%	
Target Compounds						
5) Methylene Chloride	4.707	49	11503	0.20	ug/L	Qvalue 97
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

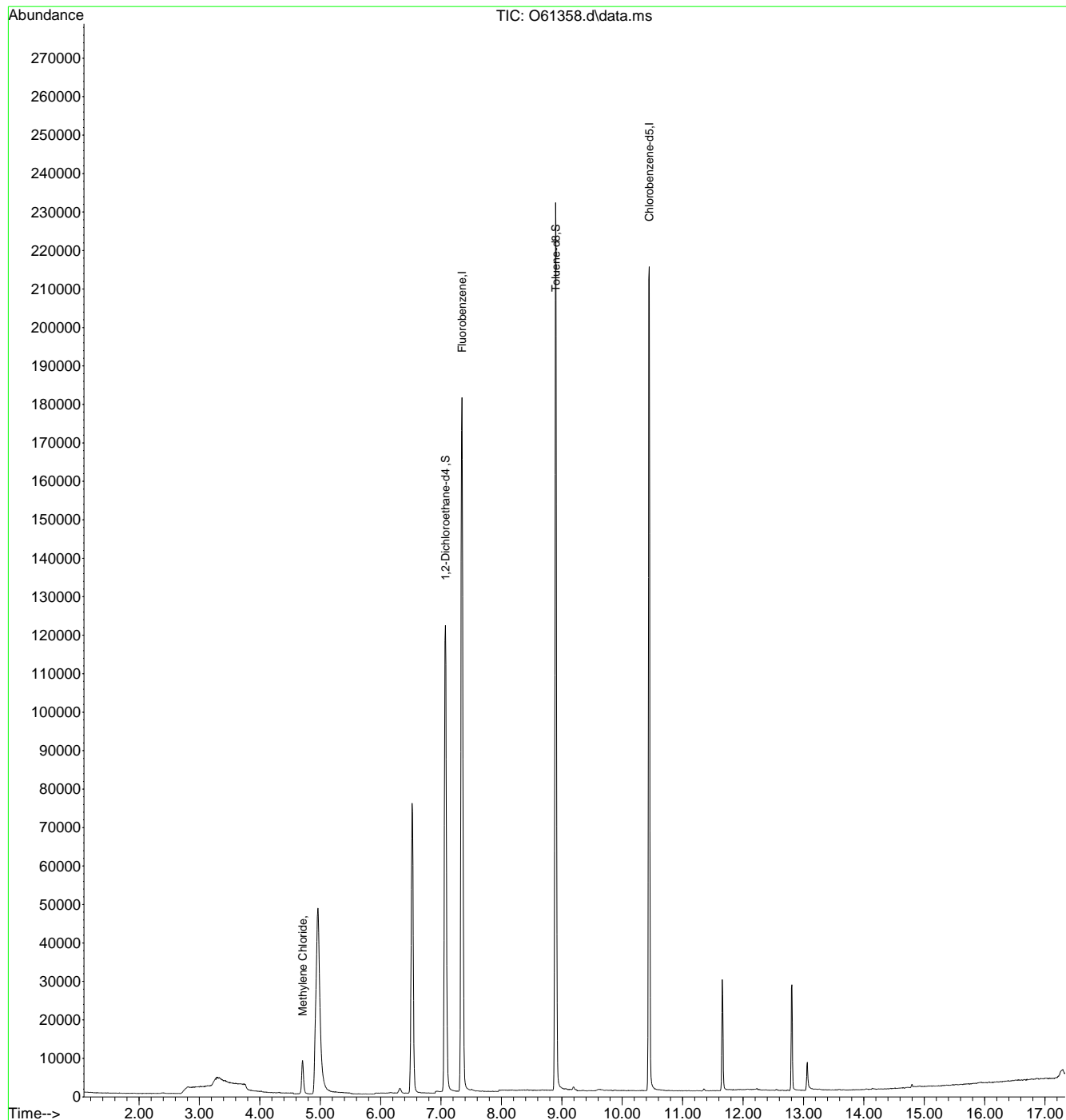
7.2.1  
7



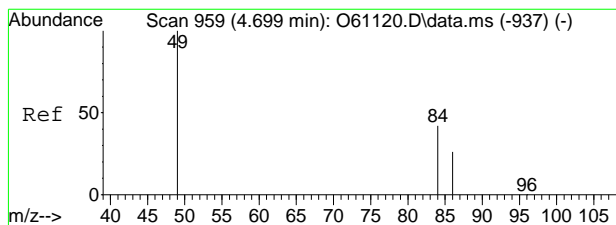
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
Data File : O61358.d  
Acq On : 14 Sep 2020 10:09 am  
Operator : akarig  
Sample : mb  
Misc : MS47208,VO2361,,,,,  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 22:23:42 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

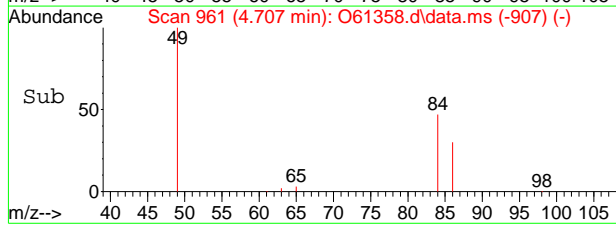
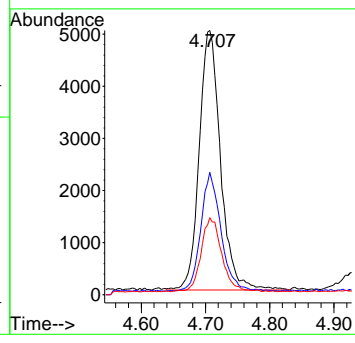
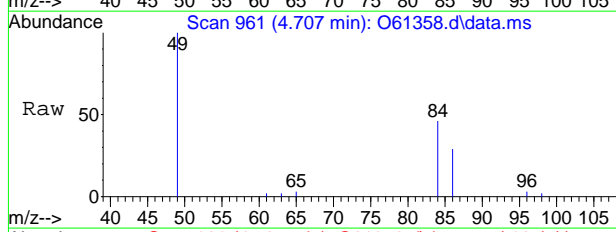


7.2.1  
7



#5  
 Methylene Chloride  
 Concen: 0.20 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61358.d  
 Acq: 14 Sep 2020 10:09 am

Tgt Ion	Ratio	Lower	Upper
49	100		
84	45.7	17.9	77.9
86	28.5	0.0	59.8



7.2.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61357.d  
 Acq On : 14 Sep 2020 9:49 am  
 Operator : akarig  
 Sample : bs  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 22:23:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

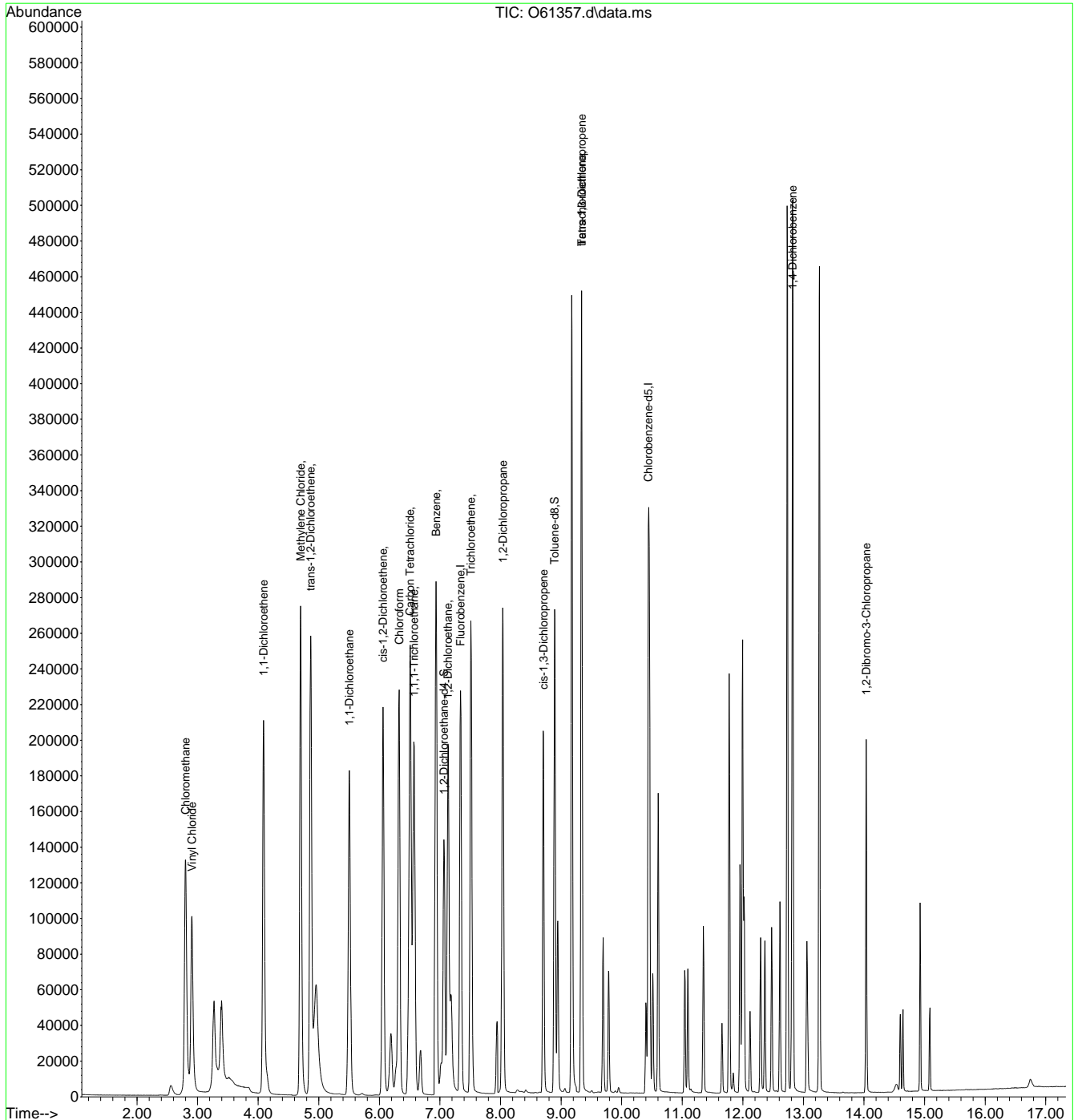
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	327975	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	264717	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	131273	4.96	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.20%		
19) Toluene-d8	8.892	98	266095	4.46	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	89.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.905	62	190171	5.19	ug/L		98
3) Chloromethane	2.799	50	258334	4.77	ug/L		94
4) 1,1-Dichloroethene	4.089	61	248919	5.49	ug/L		91
5) Methylene Chloride	4.699	49	351167	4.95	ug/L		95
6) trans-1,2-Dichloroethene	4.865	61	265826	5.08	ug/L		85
7) 1,1-Dichloroethane	5.506	63	305014	5.02	ug/L		100
8) cis-1,2-Dichloroethene	6.060	96	137536	4.58	ug/L		83
9) Chloroform	6.327	83	246560	4.71	ug/L		95
10) Carbon Tetrachloride	6.505	117	179819	5.04	ug/L		87
11) 1,1,1-Trichloroethane	6.570	97	191843	4.76	ug/L		90
12) Benzene	6.937	78	490098m	4.84	ug/L		
14) 1,2-Dichloroethane	7.133	62	229098	4.63	ug/L		93
15) Trichloroethene	7.512	95	147999	4.80	ug/L		85
16) 1,2-Dichloropropane	8.036	63	163516	4.83	ug/L		95
17) cis-1,3-Dichloropropene	8.707	75	152315	4.34	ug/L		97
20) trans-1,3-Dichloropropene	9.337	75	148713	4.27	ug/L		99
21) Tetrachloroethene	9.337	166	141705	4.89	ug/L		98
22) 1,4-Dichlorobenzene	12.821	146	287318	4.69	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	46393	4.26	ug/L #		81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61357.d  
 Acq On : 14 Sep 2020 9:49 am  
 Operator : akarig  
 Sample : bs  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 22:23:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration





# Manual Integration Approval Summary

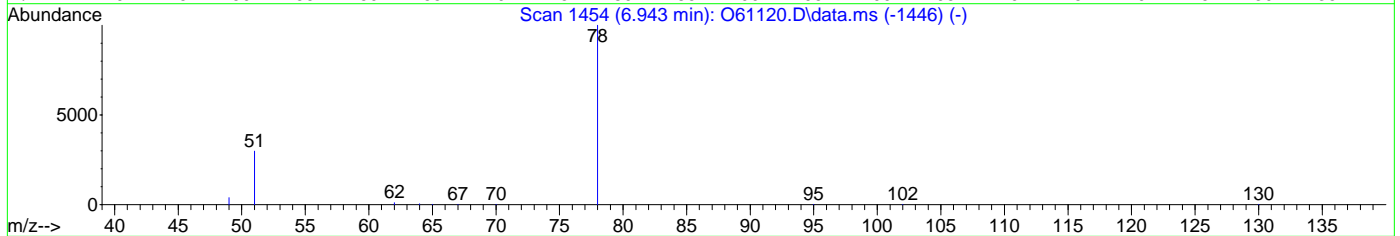
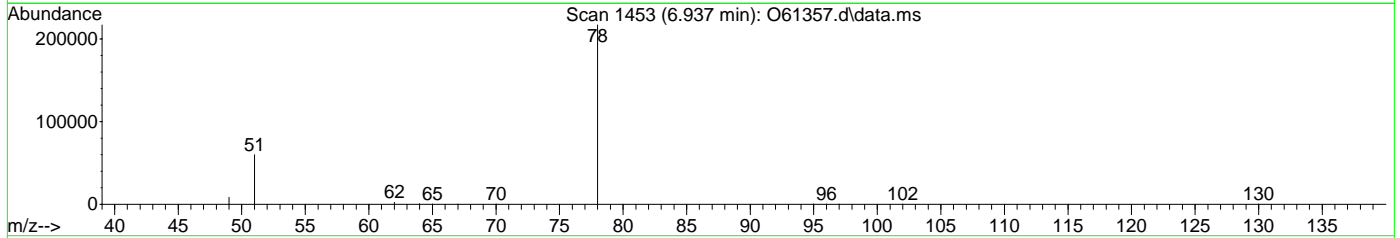
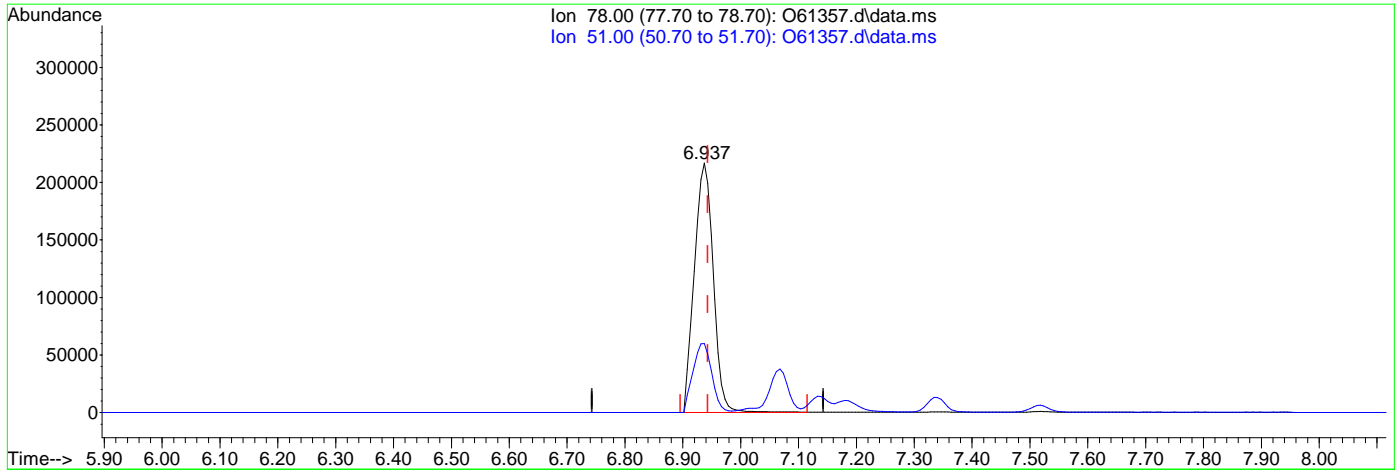
**Sample Number:** VO2361-BS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61357.D      **Analyst approved:** 09/14/20 22:48 Edessa Sumagaysay  
**Injection Time:** 09/14/20 09:49      **Supervisor approved:** 09/15/20 11:08 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61357.d  
 Acq On : 14 Sep 2020 9:49 am  
 Operator : akarig  
 Sample : bs  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 22:19:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61357.d\data.ms

(12) Benzene ( )

6.937min (-0.006) 4.89ug/L

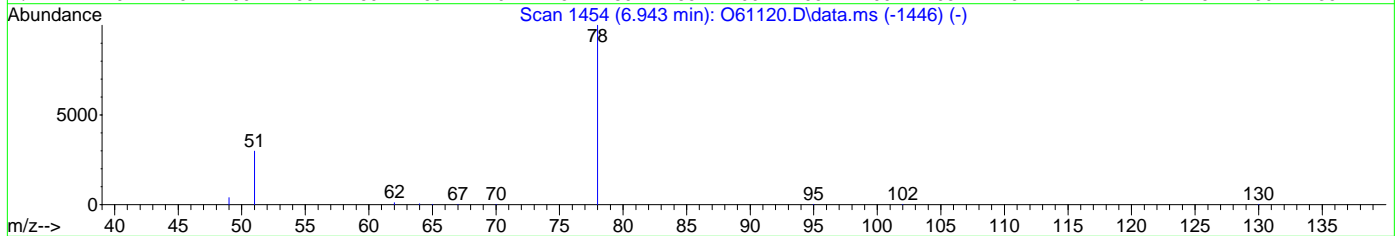
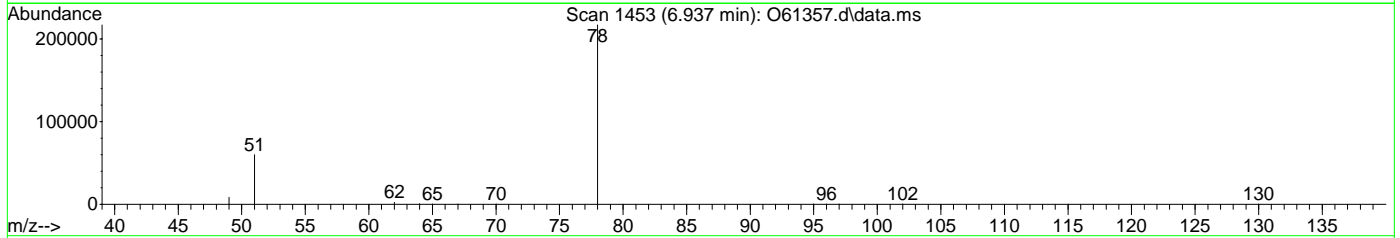
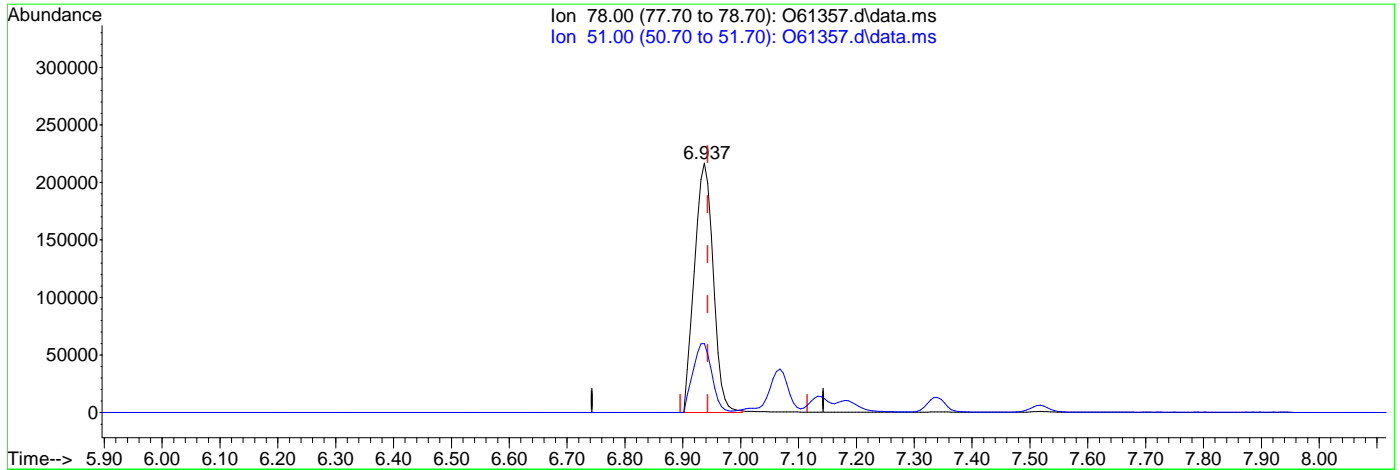
response 494782

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61357.d  
 Acq On : 14 Sep 2020 9:49 am  
 Operator : akarig  
 Sample : bs  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 22:19:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61357.d\data.ms

(12) Benzene ( )

6.937min (-0.006) 4.84ug/L m

response 490098

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

7.3.1.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61365.d  
 Acq On : 14 Sep 2020 1:23 pm  
 Operator : akarig  
 Sample : FA78559-1MS,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 22:28:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

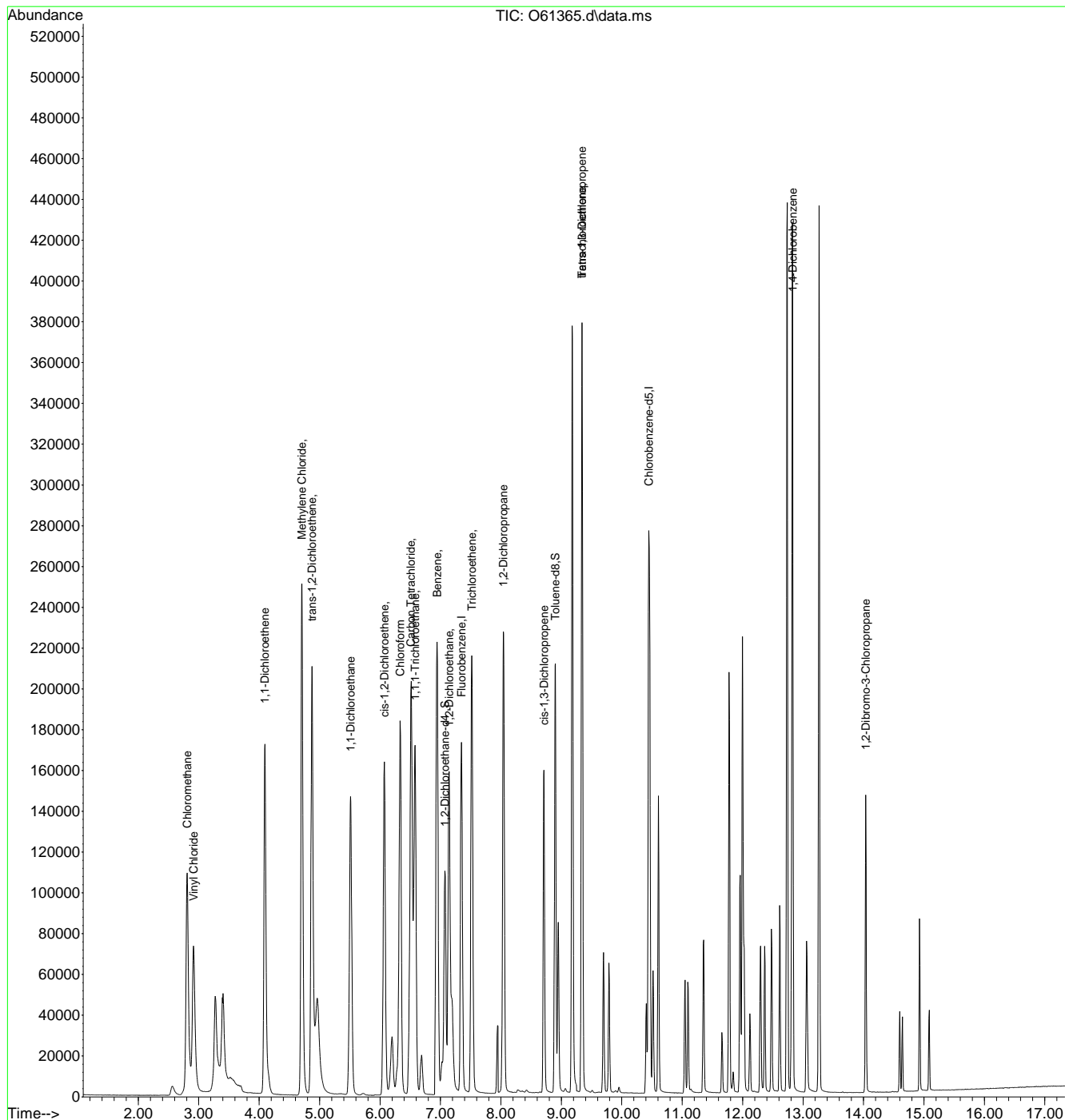
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	265887	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	217599	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	109965m	5.12	ug/L	0.00	
Spiked Amount	5.000	Range	74 - 125	Recovery	=	102.40%	
19) Toluene-d8	8.896	98	209418	4.27	ug/L	0.00	
Spiked Amount	5.000	Range	88 - 111	Recovery	=	85.40%#	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.912	62	161726	5.46	ug/L		96
3) Chloromethane	2.810	50	232342	5.34	ug/L		93
4) 1,1-Dichloroethene	4.092	61	210211	5.72	ug/L		91
5) Methylene Chloride	4.703	49	337698	5.87	ug/L		94
6) trans-1,2-Dichloroethene	4.873	61	224869	5.30	ug/L		87
7) 1,1-Dichloroethane	5.514	63	263099	5.34	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	114774	4.71	ug/L		86
9) Chloroform	6.333	83	215952	5.09	ug/L		94
10) Carbon Tetrachloride	6.510	117	156001	5.40	ug/L		88
11) 1,1,1-Trichloroethane	6.582	97	167082	5.11	ug/L		90
12) Benzene	6.943	78	424147m	5.17	ug/L		
14) 1,2-Dichloroethane	7.145	62	199953	4.98	ug/L		94
15) Trichloroethene	7.518	95	124663	4.99	ug/L		85
16) 1,2-Dichloropropane	8.040	63	141536	5.16	ug/L		96
17) cis-1,3-Dichloropropene	8.711	75	119236	4.19	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	118438	4.14	ug/L		98
21) Tetrachloroethene	9.343	166	126515	5.31	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	254738	5.05	ug/L		96
23) 1,2-Dibromo-3-Chloropr...	14.037	75	34143	3.83	ug/L		85
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61365.d  
 Acq On : 14 Sep 2020 1:23 pm  
 Operator : akarig  
 Sample : FA78559-1MS,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 22:28:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.4.1  
7

# Manual Integration Approval Summary

**Sample Number:** FA78559-1MS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61365.D      **Analyst approved:** 09/15/20 11:14 Akari Giraldo  
**Injection Time:** 09/14/20 13:23      **Supervisor approved:** 09/15/20 11:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloroethane-D4	17060-07-0		7.07	Overlapping peak

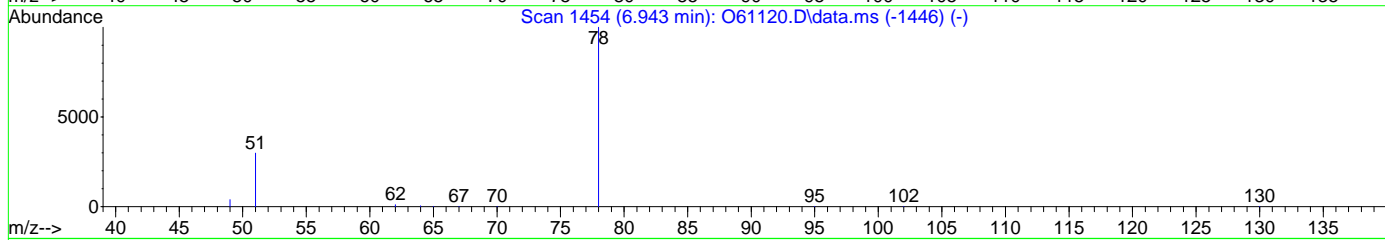
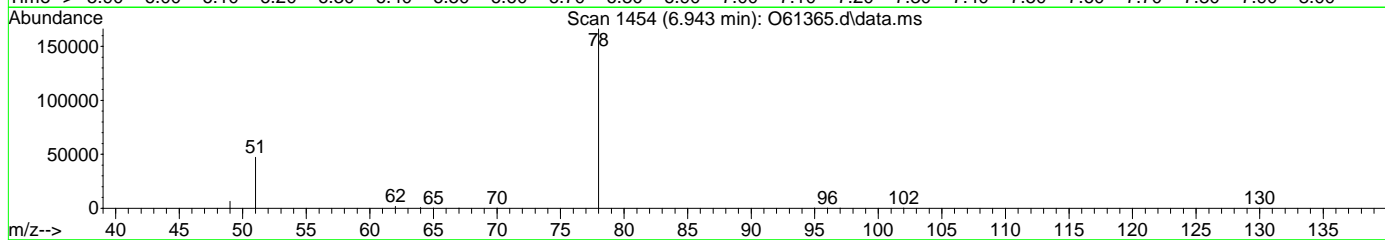
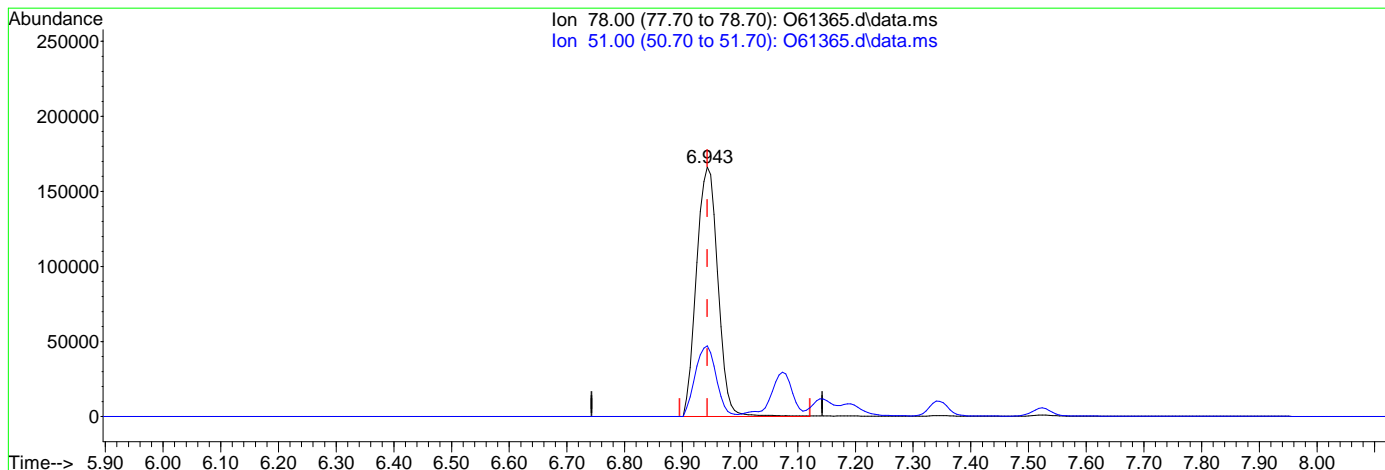
7.4.1.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61365.d  
 Acq On : 14 Sep 2020 1:23 pm  
 Operator : akarig  
 Sample : FA78559-1MS,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 22:19:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.22ug/L

response 428405

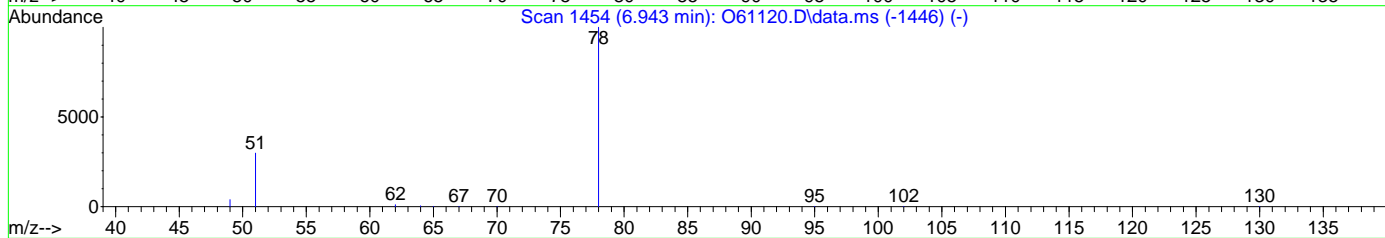
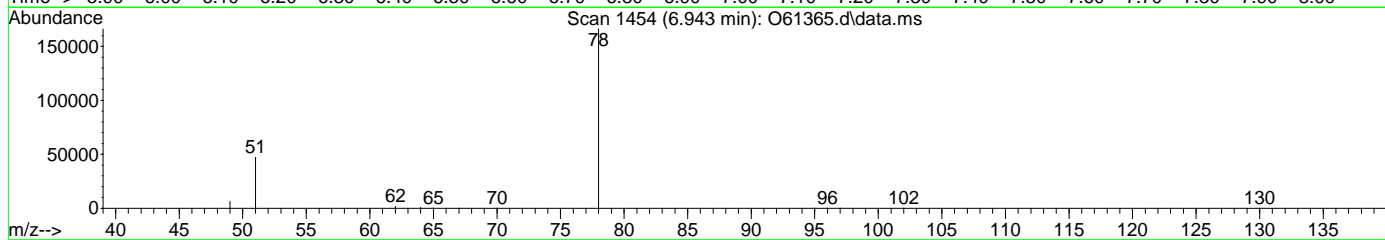
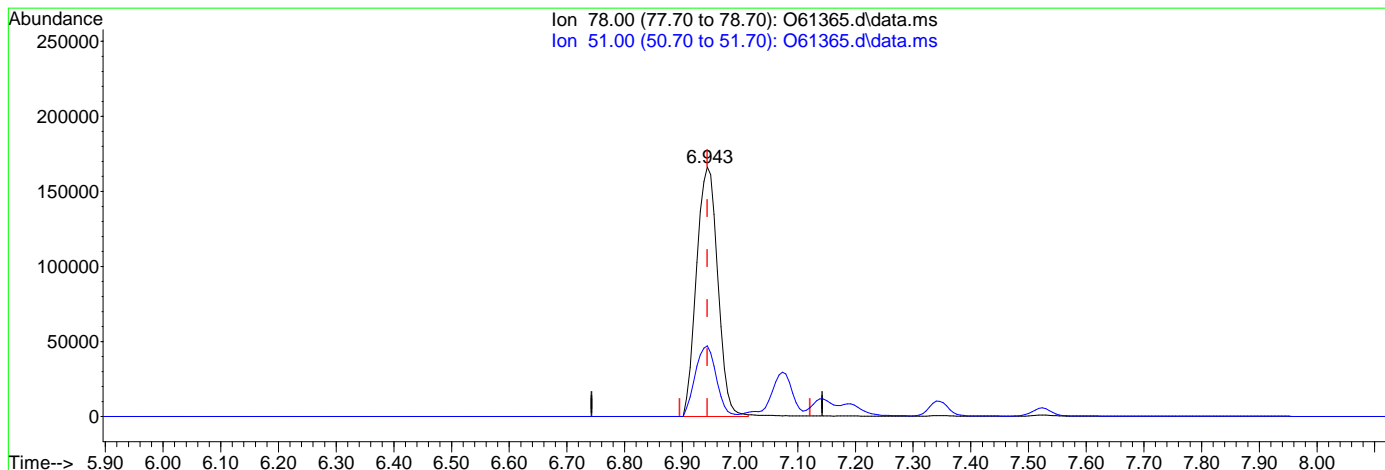
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.37
0.00	0.00	0.00
0.00	0.00	0.00

7.4.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61365.d  
 Acq On : 14 Sep 2020 1:23 pm  
 Operator : akarig  
 Sample : FA78559-1MS,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 22:19:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.17ug/L m

response 424147

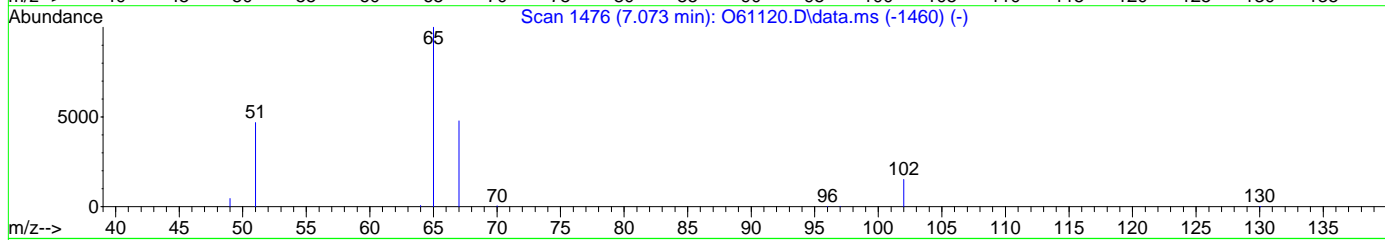
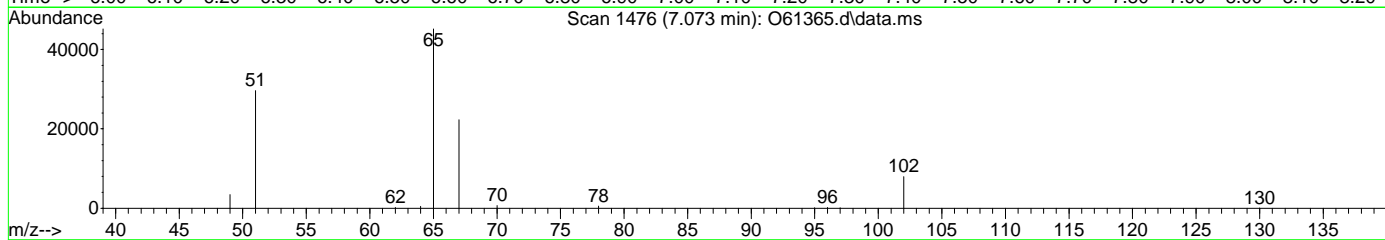
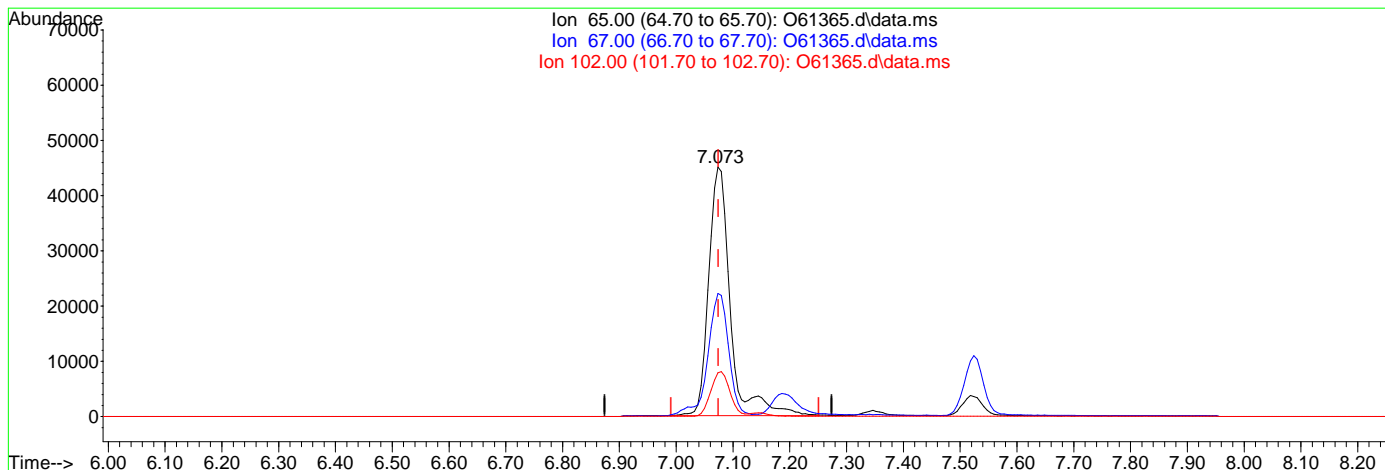
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.37
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61365.d  
 Acq On : 14 Sep 2020 1:23 pm  
 Operator : akarig  
 Sample : FA78559-1MS,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 22:19:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.073min (-0.001) 5.57ug/L

response 119691

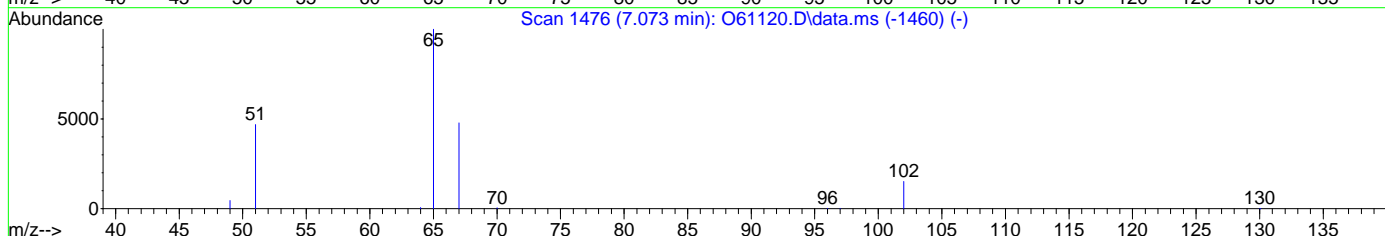
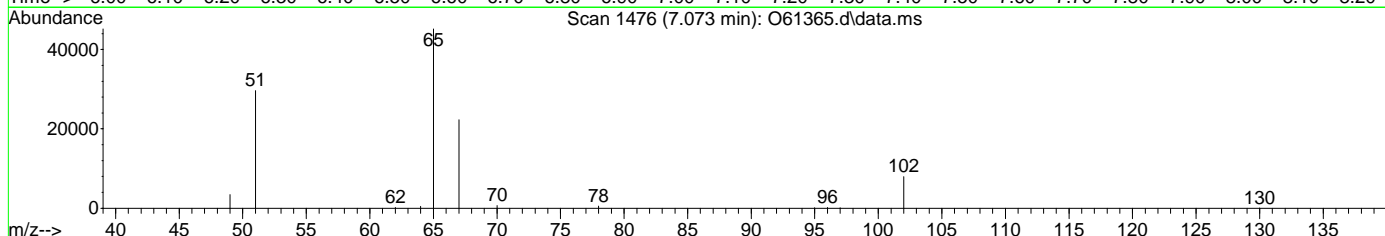
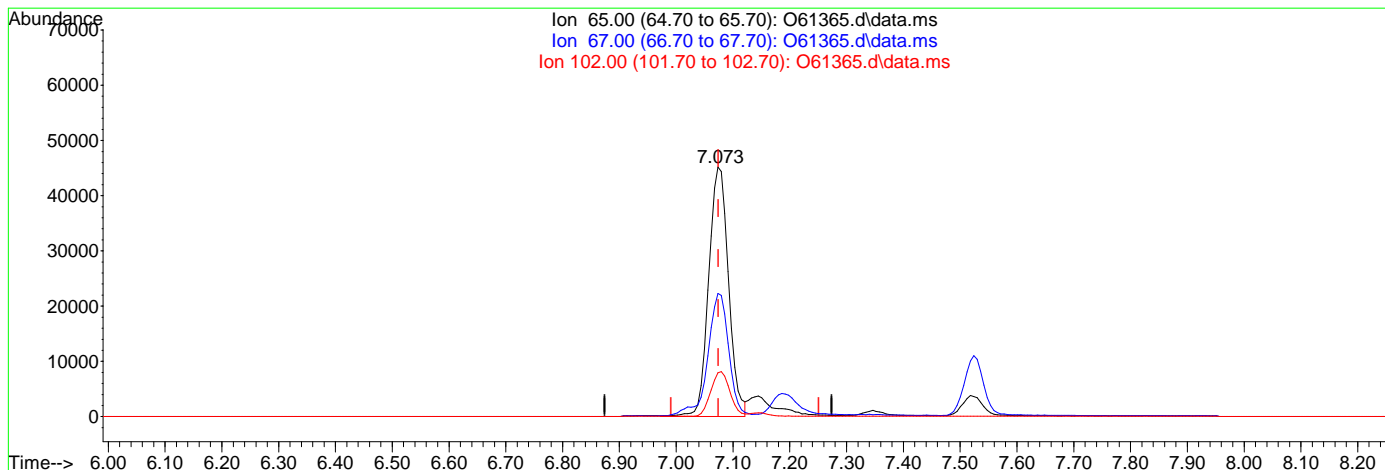
Ion	Exp%	Act%
65.00	100	100
67.00	53.50	48.89
102.00	16.10	17.44
0.00	0.00	0.00

7.4.1.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61365.d  
 Acq On : 14 Sep 2020 1:23 pm  
 Operator : akarig  
 Sample : FA78559-1MS,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 14 22:19:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.073min (-0.001) 5.12ug/L m

response 109965

Ion	Exp%	Act%
65.00	100	100
67.00	53.50	49.37
102.00	16.10	17.51
0.00	0.00	0.00

7.4.1.5  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61366.d  
 Acq On : 14 Sep 2020 1:43 pm  
 Operator : akarig  
 Sample : FA78559-1MSD,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 22:28:54 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

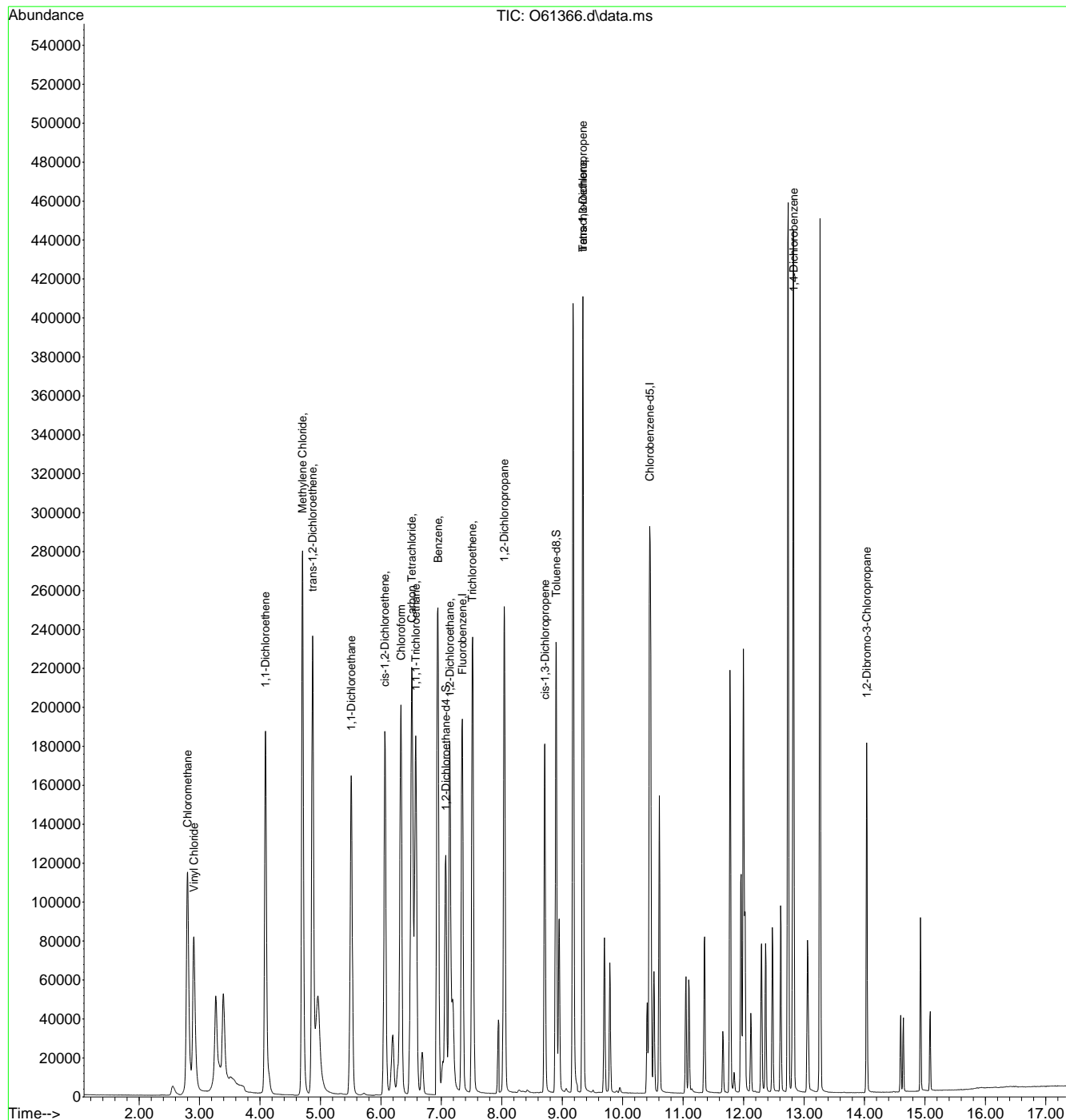
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	284995	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	231610	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	114941	4.99	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.80%		
19) Toluene-d8	8.896	98	227720	4.36	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	87.20%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	173536	5.46	ug/L		97
3) Chloromethane	2.803	50	241171	5.16	ug/L		93
4) 1,1-Dichloroethene	4.088	61	222720	5.65	ug/L		91
5) Methylene Chloride	4.699	49	362399	5.87	ug/L		92
6) trans-1,2-Dichloroethene	4.869	61	240141	5.28	ug/L		85
7) 1,1-Dichloroethane	5.510	63	277979	5.26	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	122651	4.70	ug/L #		82
9) Chloroform	6.333	83	226502	4.98	ug/L		95
10) Carbon Tetrachloride	6.510	117	164997	5.32	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	176180	5.03	ug/L		92
12) Benzene	6.943	78	451112m	5.13	ug/L		
14) 1,2-Dichloroethane	7.139	62	210763	4.90	ug/L		95
15) Trichloroethene	7.512	95	132521	4.95	ug/L		87
16) 1,2-Dichloropropane	8.040	63	150475	5.12	ug/L		95
17) cis-1,3-Dichloropropene	8.711	75	133843	4.39	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	134186	4.41	ug/L		98
21) Tetrachloroethene	9.343	166	133021	5.25	ug/L		98
22) 1,4-Dichlorobenzene	12.827	146	266262	4.96	ug/L		96
23) 1,2-Dibromo-3-Chloropr...	14.037	75	42051	4.41	ug/L		86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61366.d  
 Acq On : 14 Sep 2020 1:43 pm  
 Operator : akarig  
 Sample : FA78559-1MSD,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 22:28:54 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.4.2  
7

# Manual Integration Approval Summary

**Sample Number:** FA78559-1MSD      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61366.D      **Analyst approved:** 09/15/20 11:14 Akari Giraldo  
**Injection Time:** 09/14/20 13:43      **Supervisor approved:** 09/15/20 11:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

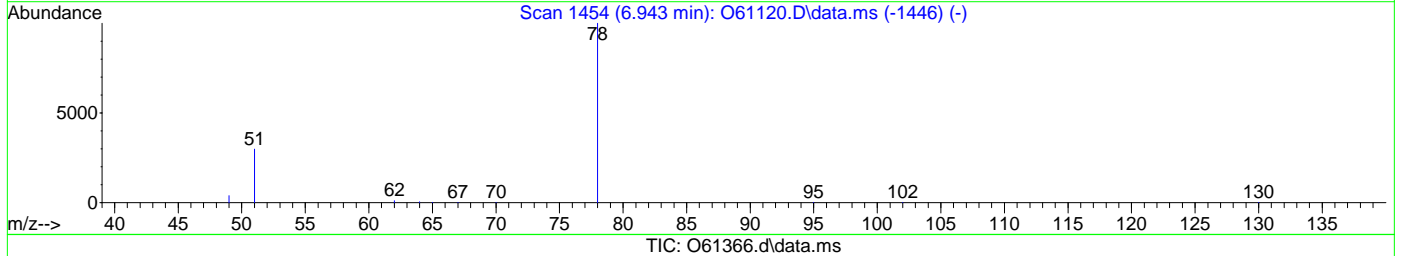
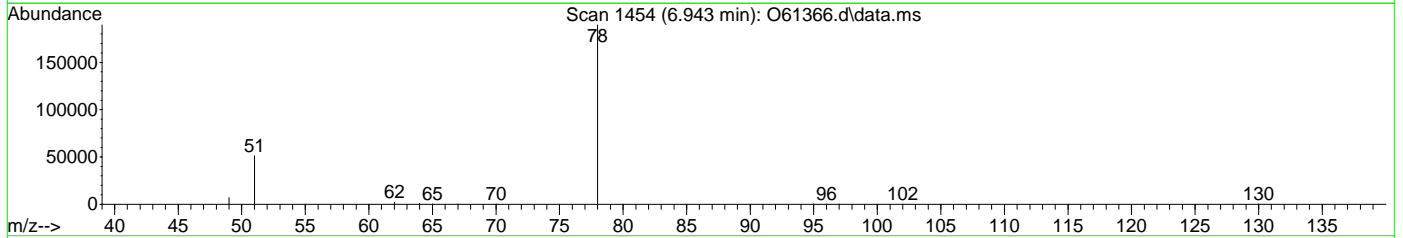
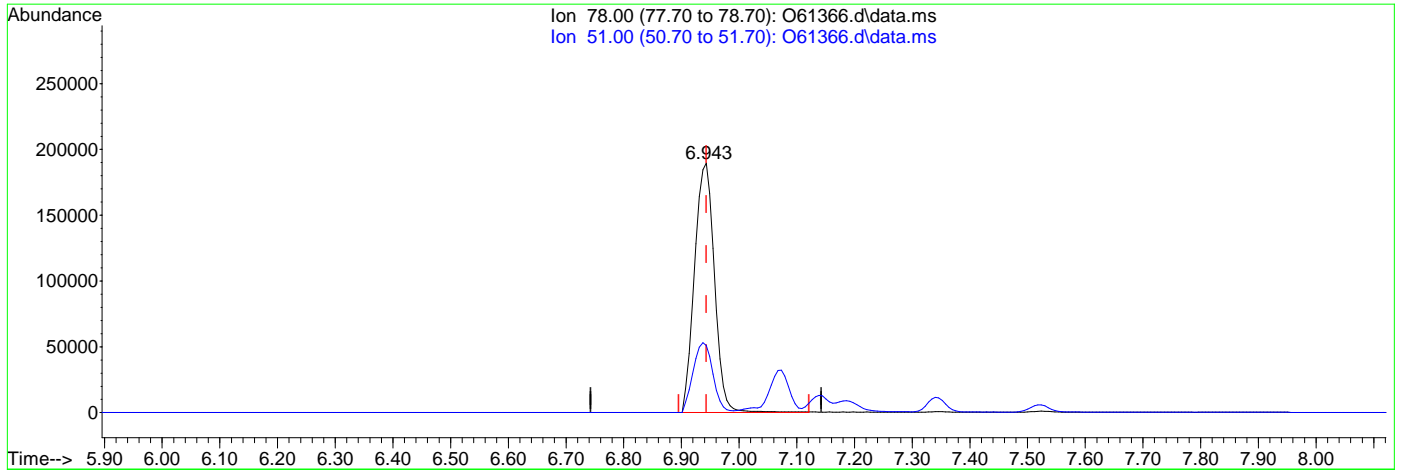
7.4.2.1

7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61366.d  
 Acq On : 14 Sep 2020 1:43 pm  
 Operator : akarig  
 Sample : FA78559-1MSD,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 22:19:18 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.18ug/L

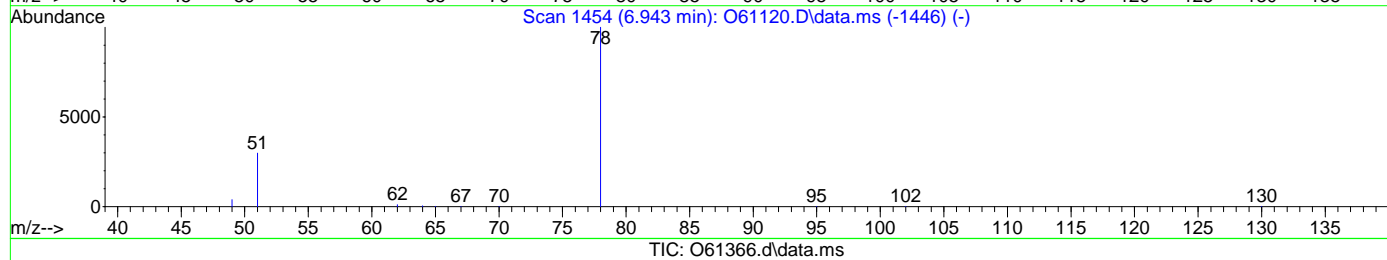
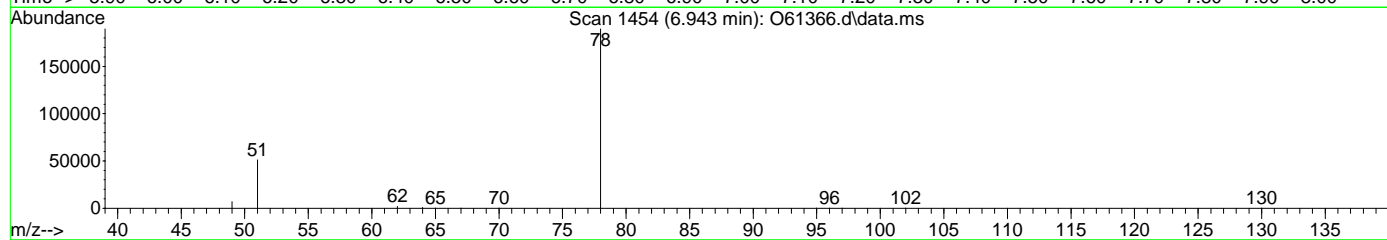
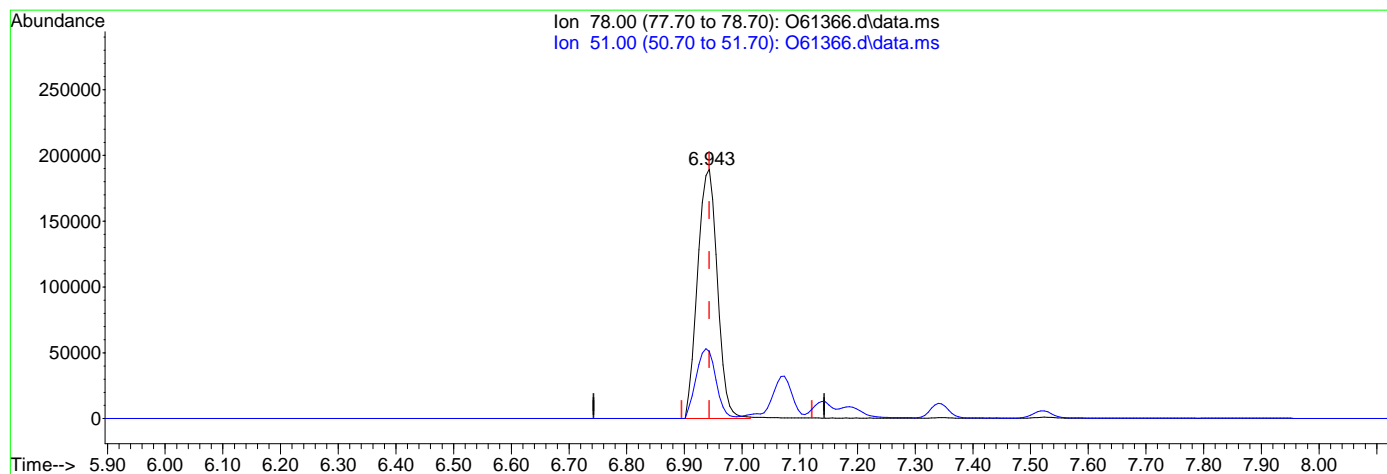
response 455318

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.88
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61366.d  
 Acq On : 14 Sep 2020 1:43 pm  
 Operator : akarig  
 Sample : FA78559-1MSD,20x  
 Misc : MS47208,VO2361,,,,,20  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 14 22:19:18 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

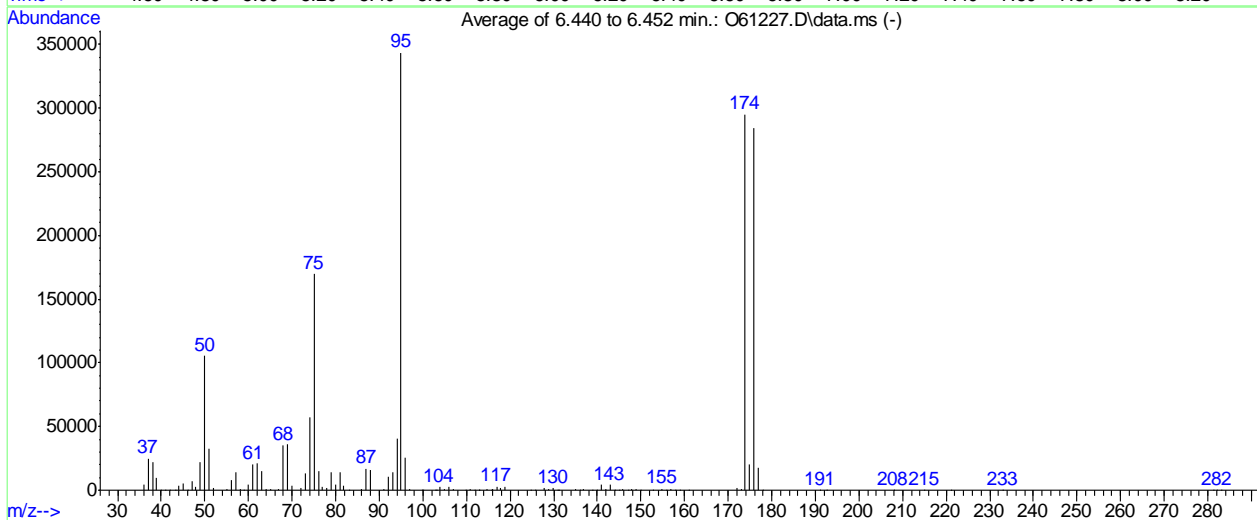
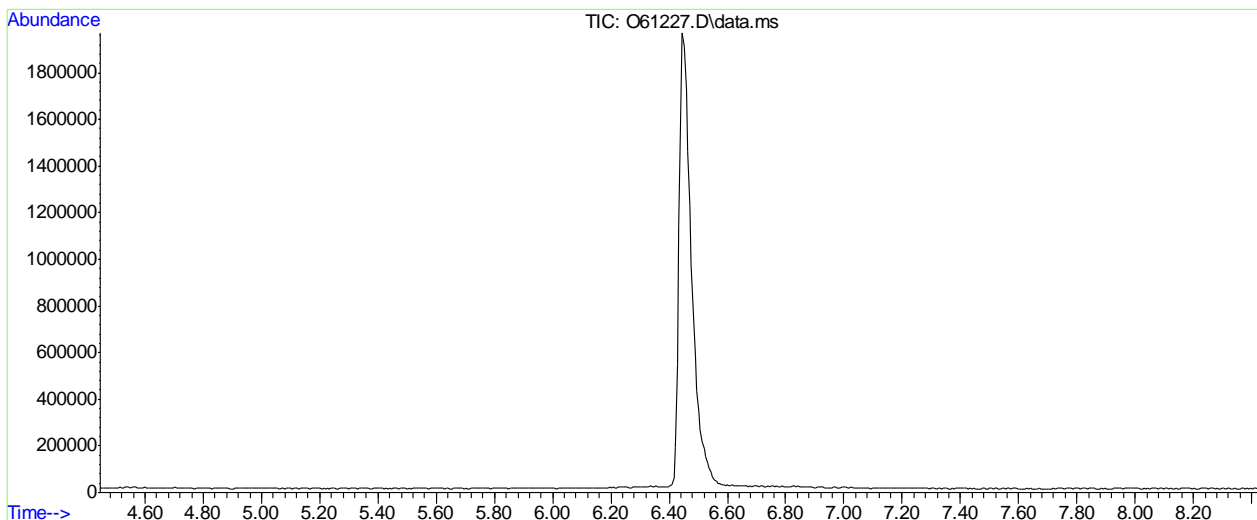
6.943min (+0.000) 5.13ug/L m

response 451112

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.88
0.00	0.00	0.00
0.00	0.00	0.00

Methods: SW-846 8260B  
 Data File : C:\msdchem\2\data\091120\O61227.D Vial: 100  
 Acq On : 11 Sep 2020 2:01 pm Operator: stutip  
 Sample : BFB Inst : MSVOA12  
 Misc : MS47183,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 460

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.7	105346	PASS
75	95	30	60	49.4	169774	PASS
95	95	100	100	100.0	343616	PASS
96	95	5	9	7.4	25531	PASS
173	174	0.00	2	0.5	1340	PASS
174	95	50	100	85.8	294848	PASS
175	174	5	9	7.0	20565	PASS
176	174	95	101	96.4	284096	PASS
177	176	5	9	6.2	17677	PASS

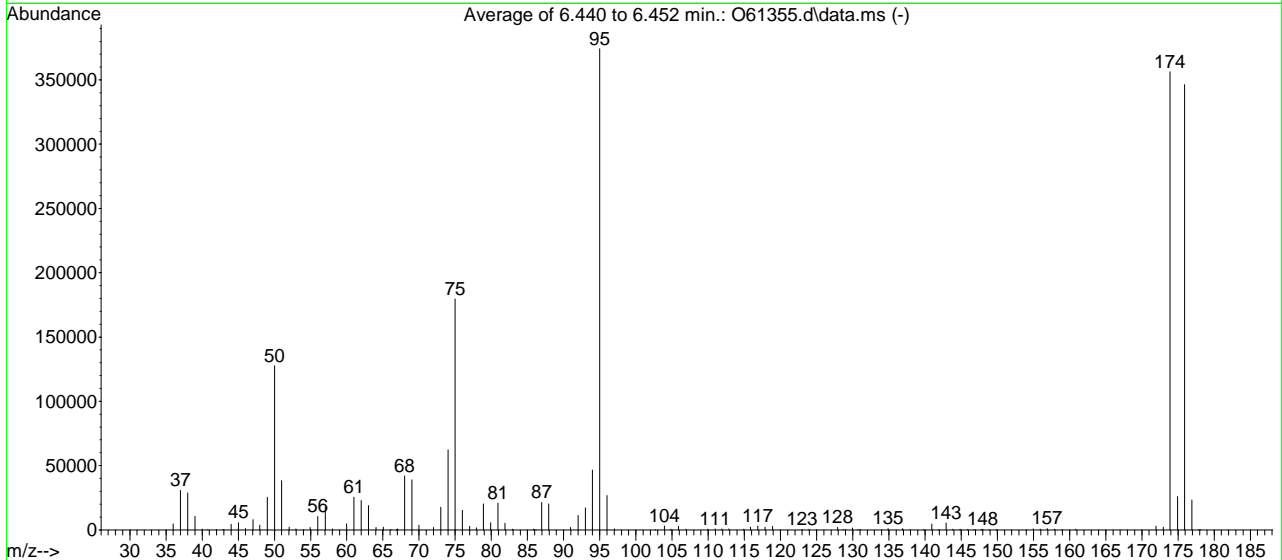
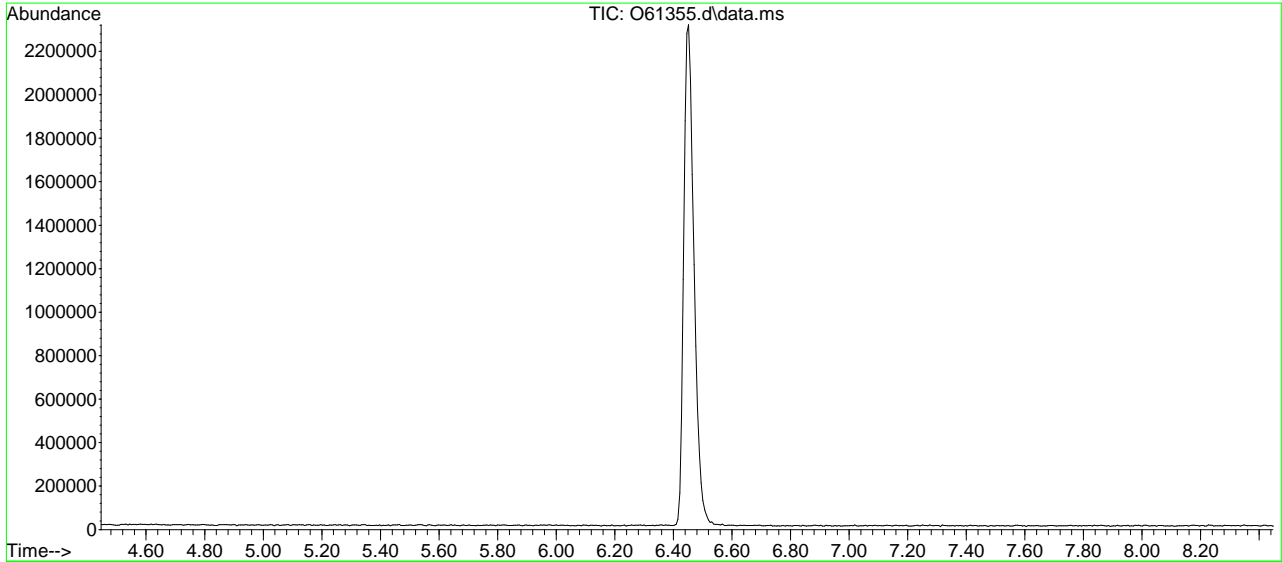
7.5.1  
7



Methods: SW-846 8260B

Data File : C:\msdchem\1\data\ed...-2020\vo2361\O61355.d Vial: 100  
 Acq On : 14 Sep 2020 8:40 am Operator: akarig  
 Sample : bfb Inst : MSVOA12  
 Misc : MS47193,VO2361,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



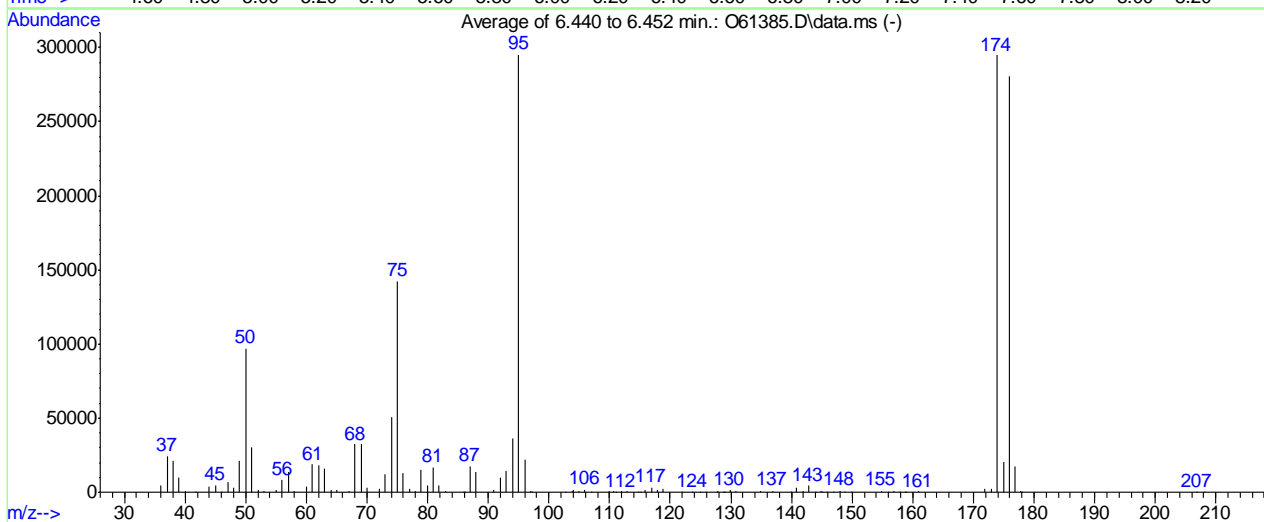
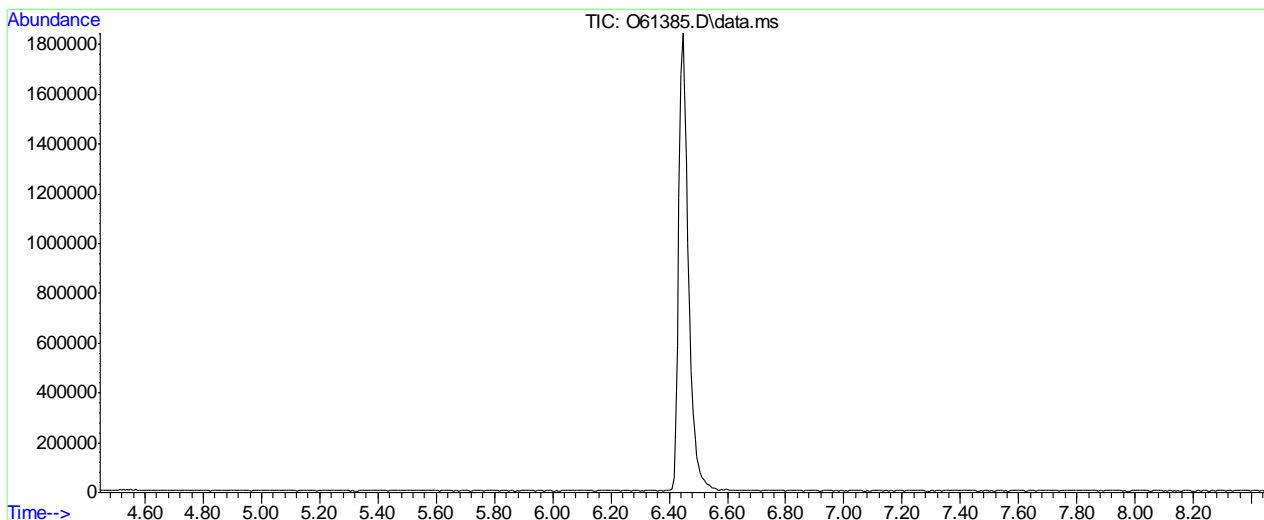
AutoFind: Scans 468, 469, 470; Background Corrected with Scan 459

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	34.1	127584	PASS
75	95	30	60	48.0	179477	PASS
95	95	100	100	100.0	374165	PASS
96	95	5	9	7.2	26763	PASS
173	174	0.00	2	0.6	2080	PASS
174	95	50	100	95.3	356437	PASS
175	174	5	9	7.3	25859	PASS
176	174	95	101	97.2	346304	PASS
177	176	5	9	6.7	23328	PASS

O61355.d SIMCL091120.M Mon Sep 14 22:18:14 2020

Methods: SW-846 8260B  
 Data File : C:\msdchem\2\data\091520\O61385.D Vial: 4  
 Acq On : 15 Sep 2020 2:52 pm Operator: manager  
 Sample : bfb Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091520.M (RTE Integrator)  
 Title : Standard Methods 6200B



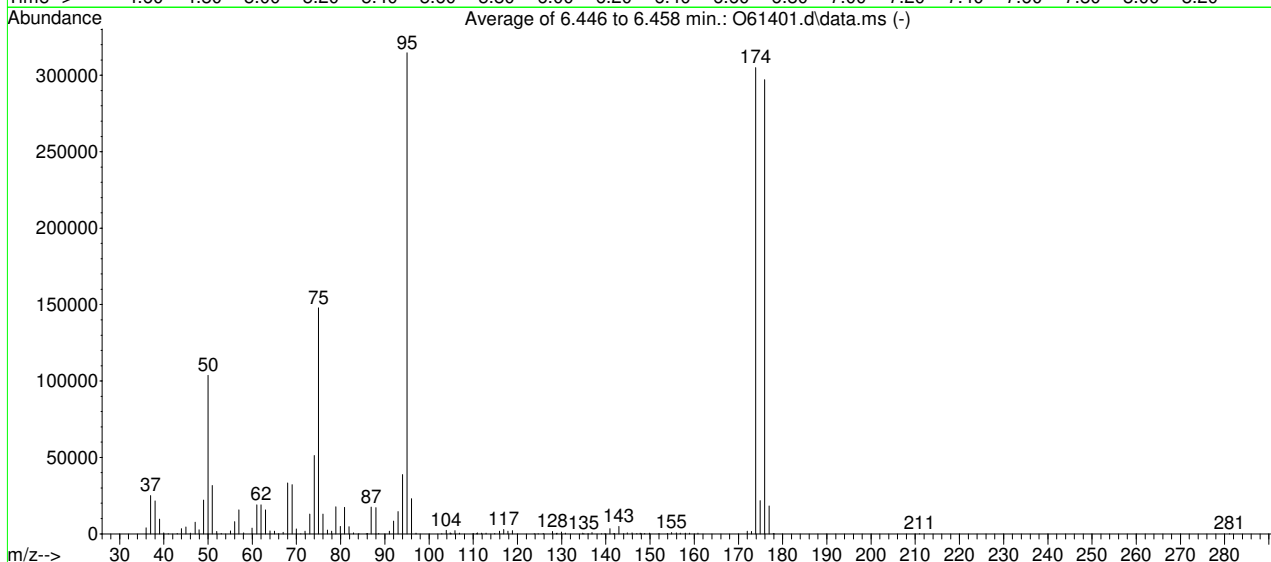
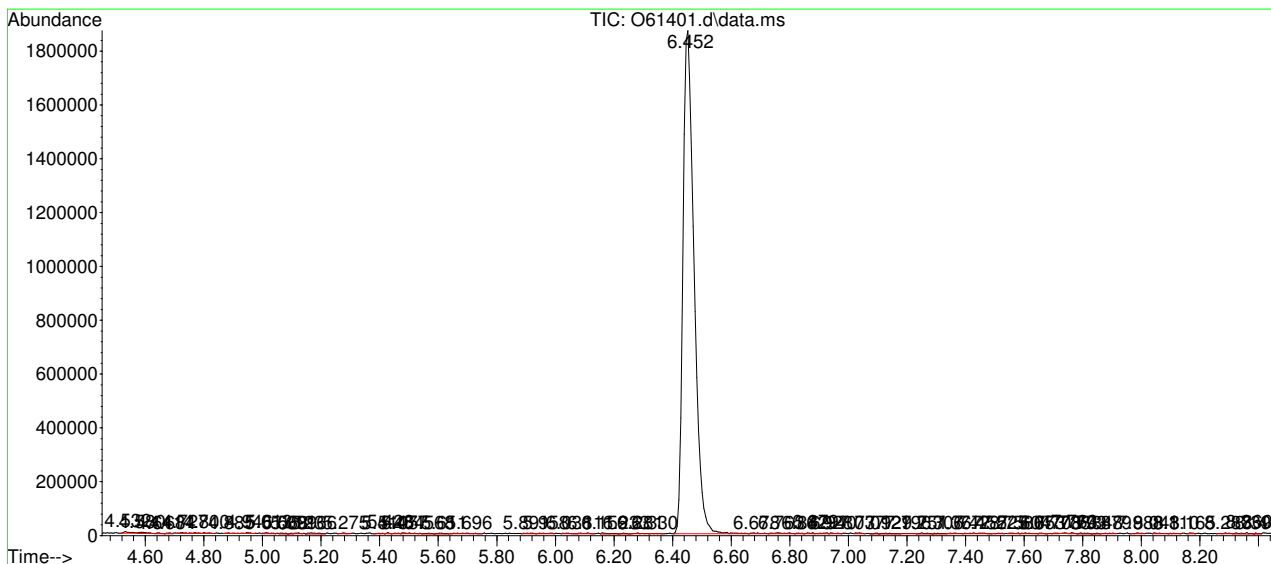
AutoFind: Scans 468, 469, 470; Background Corrected with Scan 459

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.8	96941	PASS
75	95	30	60	48.2	142400	PASS
95	95	100	100	100.0	295275	PASS
96	95	5	9	7.6	22317	PASS
173	174	0.00	2	0.7	1976	PASS
174	95	50	100	99.9	294869	PASS
175	174	5	9	7.0	20685	PASS
176	174	95	101	95.2	280789	PASS
177	176	5	9	6.2	17438	PASS

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\jo...-2020\vo2363\O61401.d Vial: 100  
 Acq On : 16 Sep 2020 11:07 am Operator: akarig  
 Sample : bfb Inst : MSVOA12  
 Misc : MS47193,VO2363,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091520.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 469, 470, 471; Background Corrected with Scan 460

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	33.0	103707	PASS
75	95	30	60	47.0	147861	PASS
95	95	100	100	100.0	314688	PASS
96	95	5	9	7.3	23037	PASS
173	174	0.00	2	0.5	1559	PASS
174	95	50	100	96.9	305045	PASS
175	174	5	9	7.2	21837	PASS
176	174	95	101	97.4	297067	PASS
177	176	5	9	6.1	18176	PASS

7.5.4  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	316238	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.441	117	240066	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	128832	4.64	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%	
19) Toluene-d8	8.896	98	278677	4.75	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.00%	
Target Compounds						
2) Vinyl Chloride	2.905	62	3529	0.11	ug/L	100
3) Chloromethane	2.799	50	8825m	0.19	ug/L	
4) 1,1-Dichloroethene	4.089	61	4096	0.10	ug/L	83
5) Methylene Chloride	4.700	49	136057	1.74	ug/L	97
6) trans-1,2-Dichloroethene	4.869	61	5203	0.10	ug/L	83
7) 1,1-Dichloroethane	5.514	63	5816	0.10	ug/L	97
8) cis-1,2-Dichloroethene	6.072	96	2981	0.11	ug/L	88
9) Chloroform	6.333	83	5313	0.11	ug/L	81
10) Carbon Tetrachloride	6.505	117	3177	0.11	ug/L	80
11) 1,1,1-Trichloroethane	6.576	97	3749	0.11	ug/L	92
12) Benzene	6.943	78	10630m	0.11	ug/L	
14) 1,2-Dichloroethane	7.139	62	4857	0.09	ug/L	92
15) Trichloroethene	7.512	95	2945	0.11	ug/L	89
16) 1,2-Dichloropropane	8.040	63	3248m	0.09	ug/L	
17) cis-1,3-Dichloropropene	8.711	75	3070	0.08	ug/L	97
20) trans-1,3-Dichloropropene	9.343	75	2765	0.08	ug/L	91
21) Tetrachloroethene	9.343	166	2702m	0.12	ug/L	
22) 1,4-Dichlorobenzene	12.827	146	5272	0.10	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.038	75	1605m	0.12	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

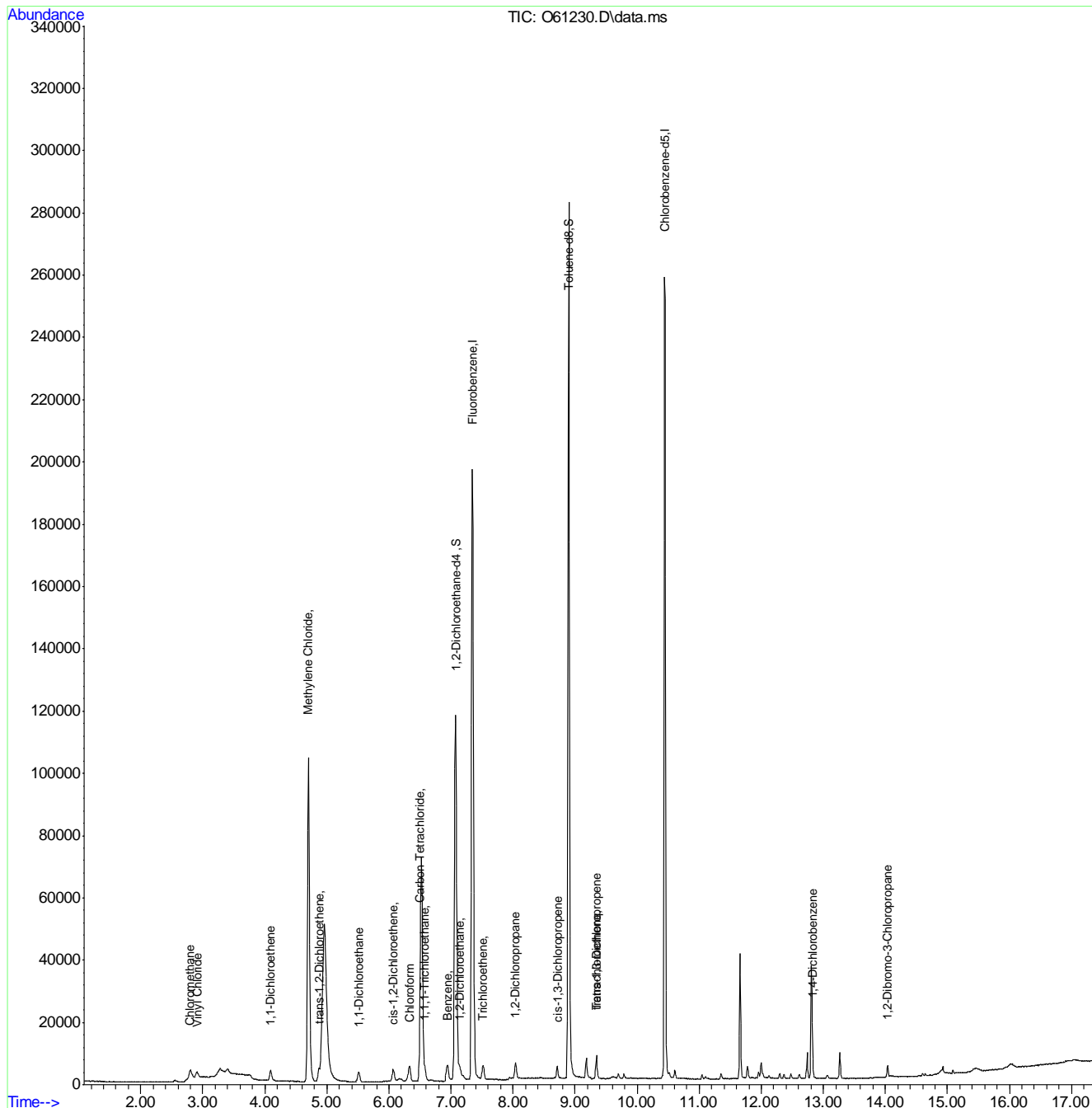
7.6.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



1.9.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61230.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:34      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.80	Poor instrument integration
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloropropane	78-87-5		8.04	Poor instrument integration
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration
1,2-Dibromo-3-chloropropane	96-12-8		14.04	Poor instrument integration

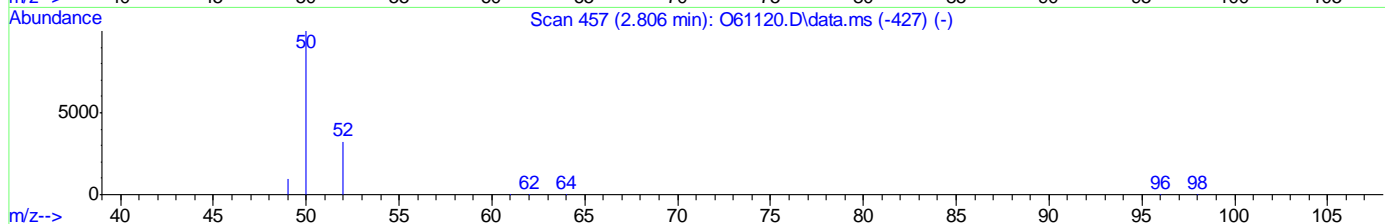
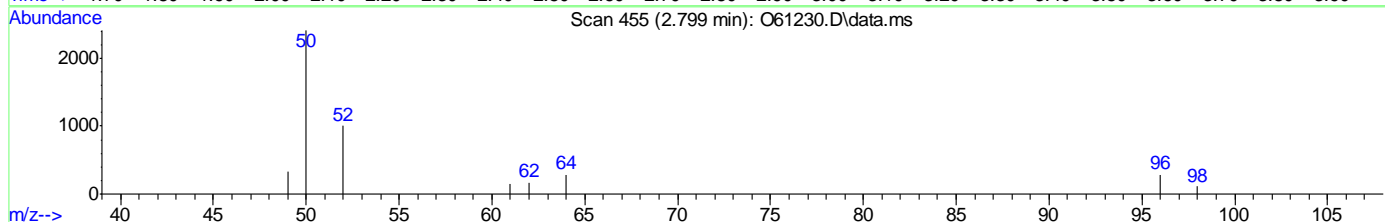
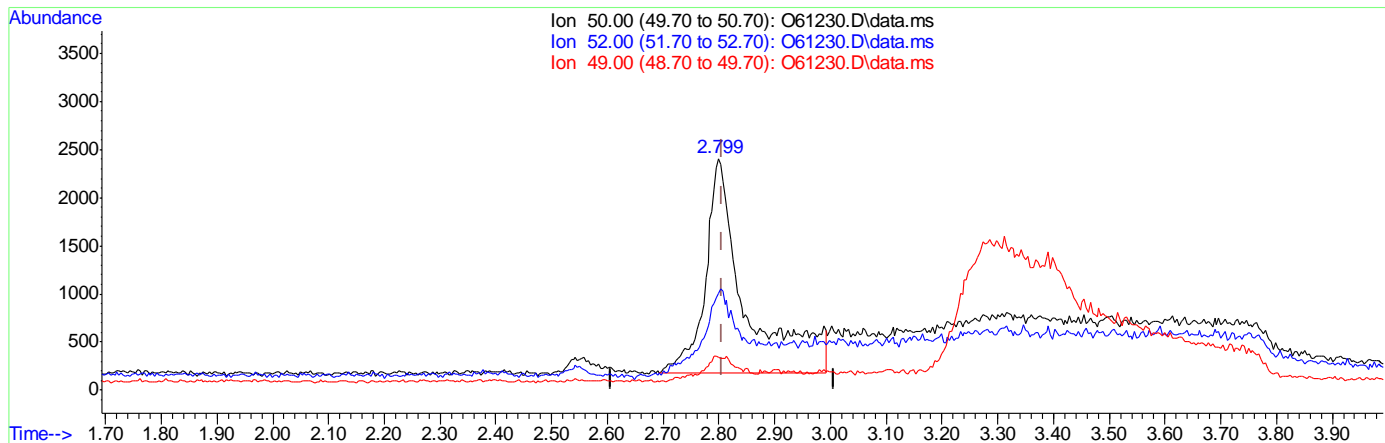
7.6.1.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.24ug/L

response 11047

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	37.05
49.00	10.50	11.15
0.00	0.00	0.00

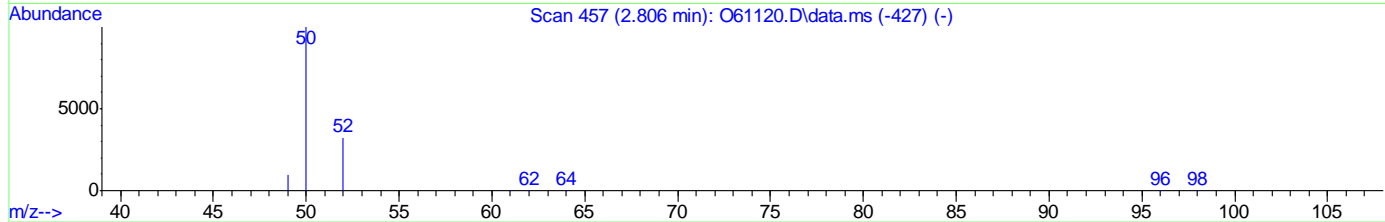
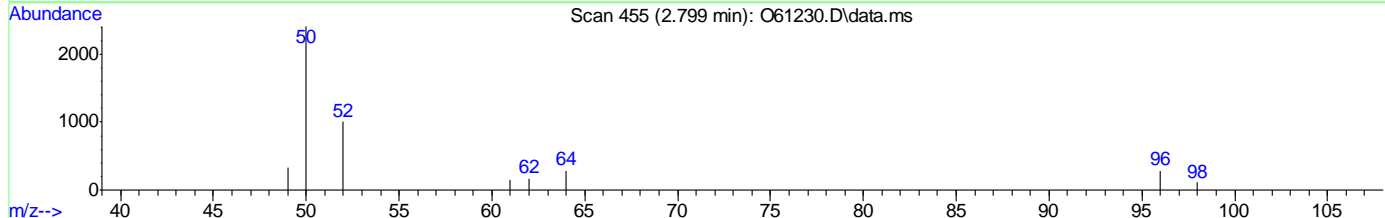
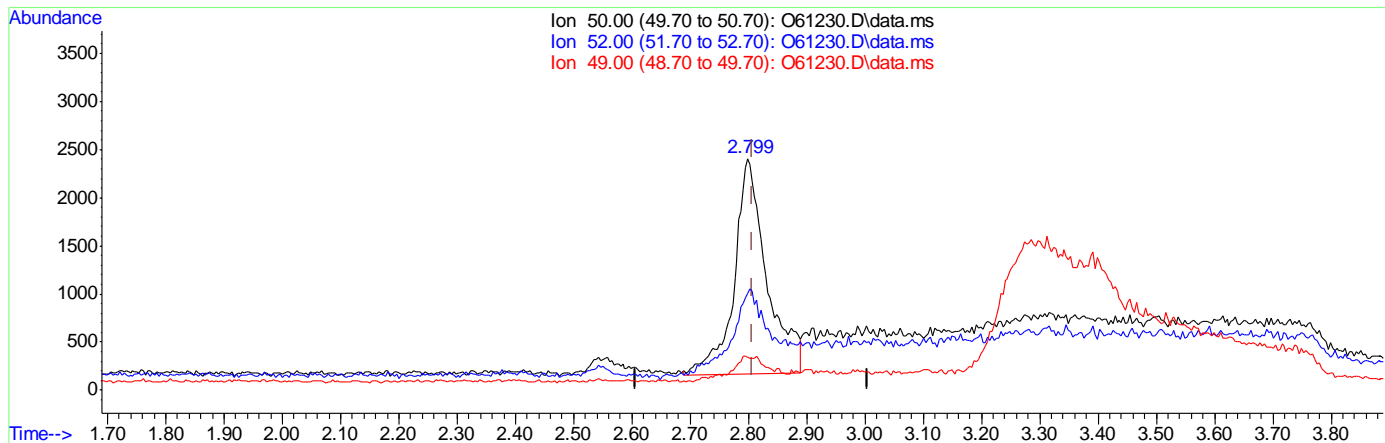
7.6.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.19ug/L m

response 8787

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

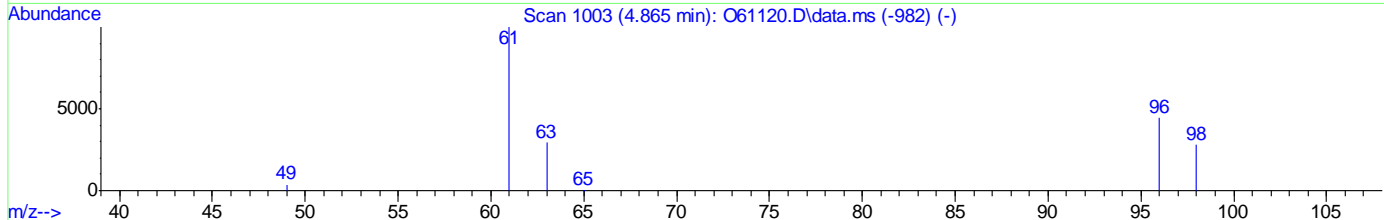
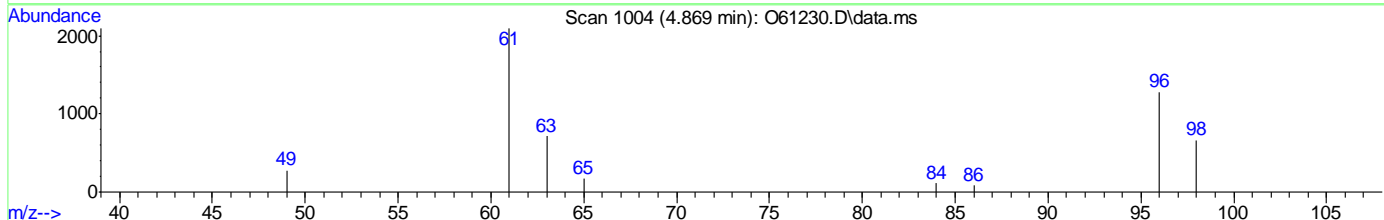
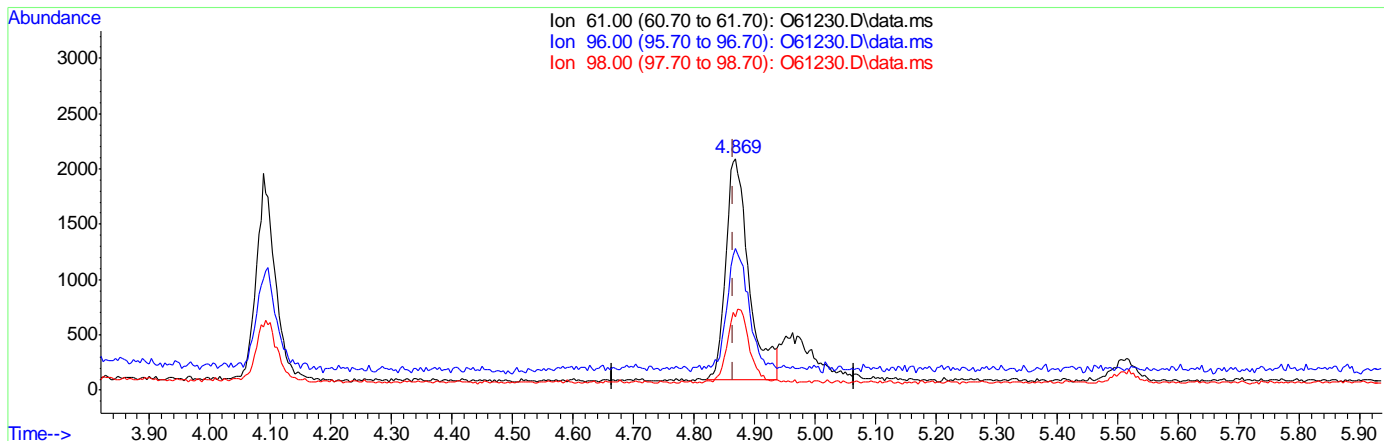
7.6.1.3  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(6) trans-1,2-Dichloroethene ( )

4.869min (+0.004) 0.10ug/L

response 5203

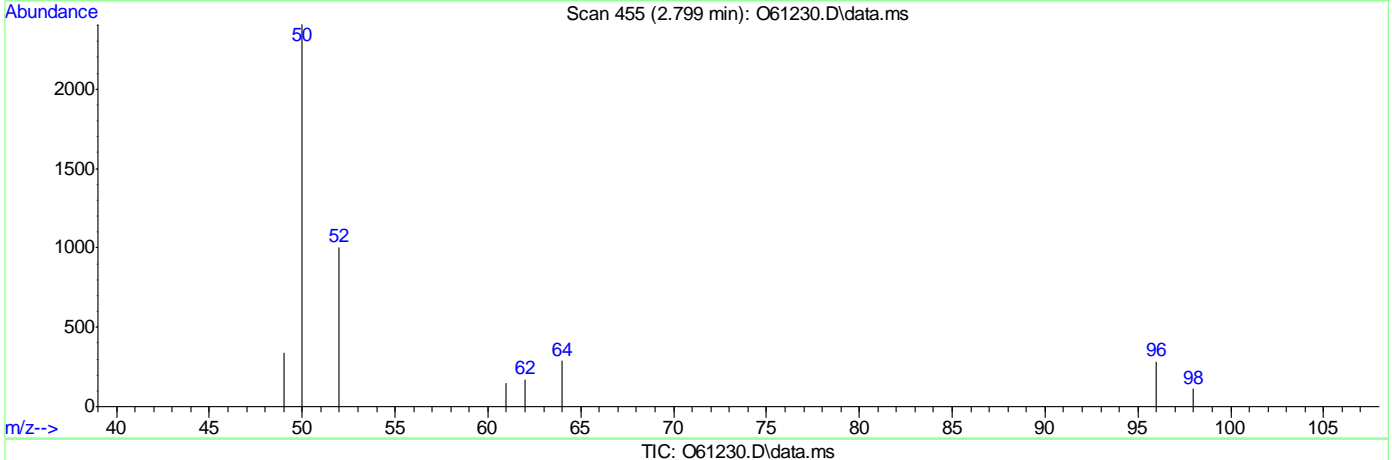
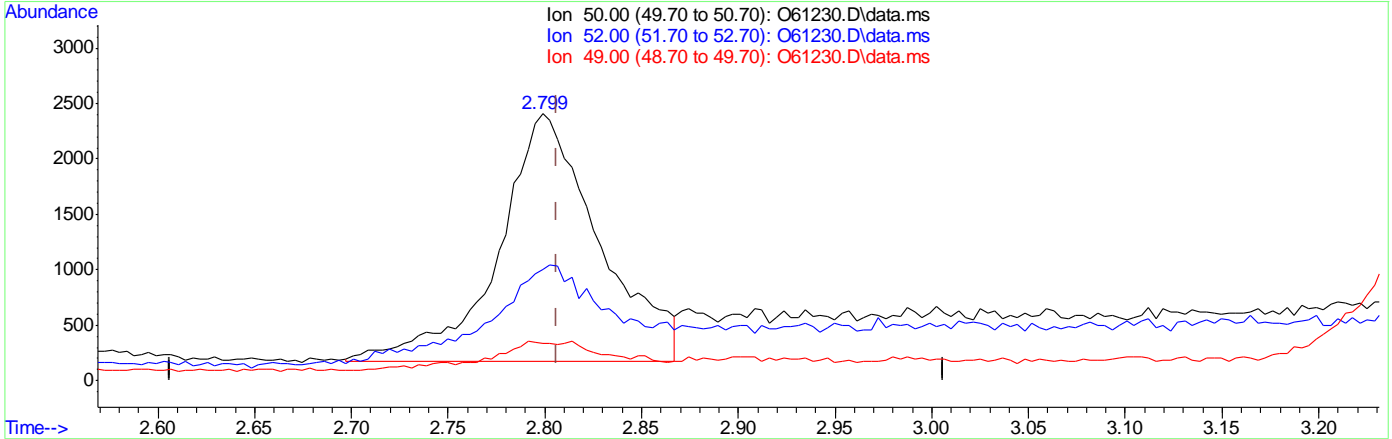
Ion	Exp%	Act%
61.00	100	100
96.00	66.90	54.30
98.00	41.10	28.92
0.00	0.00	0.00

7.6.1.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.17ug/L m

response 8061

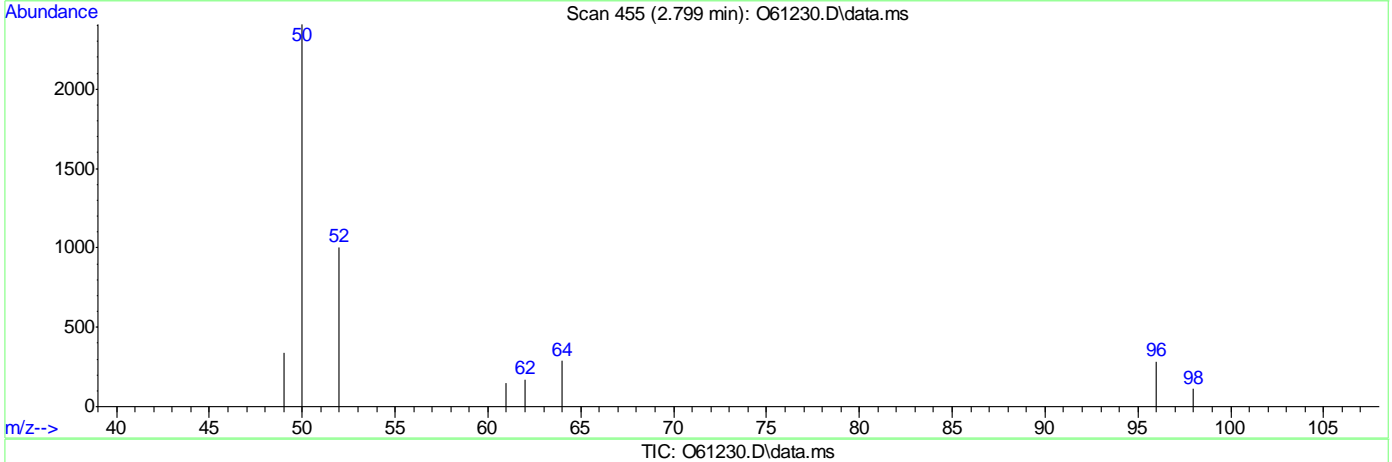
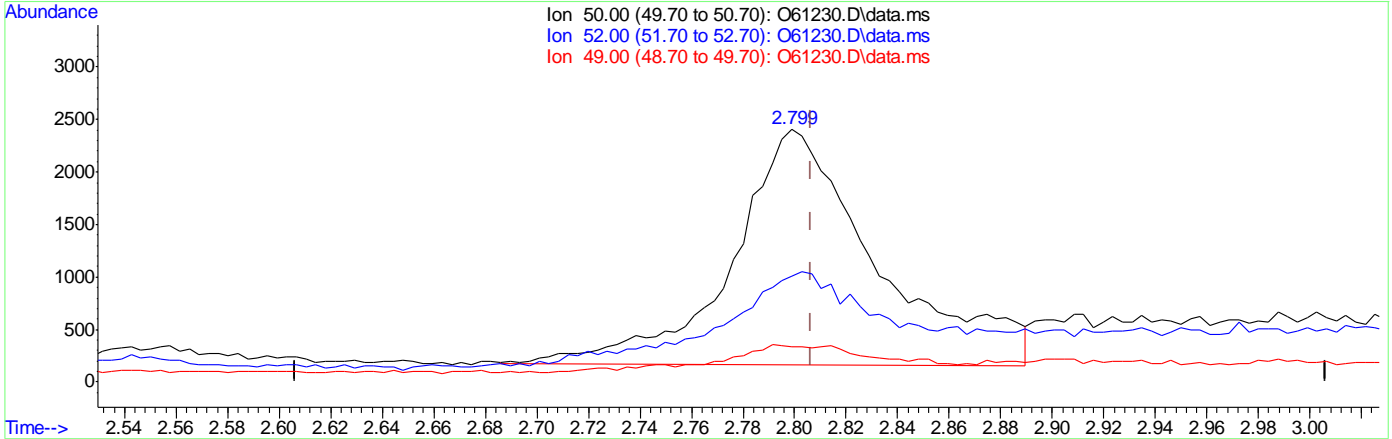
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

7.6.1.5  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



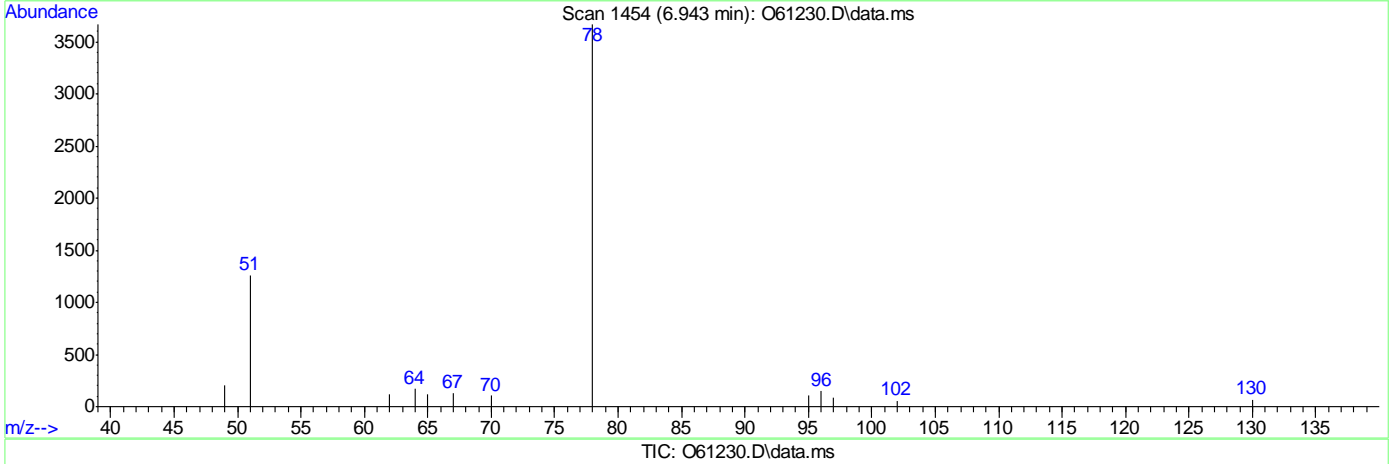
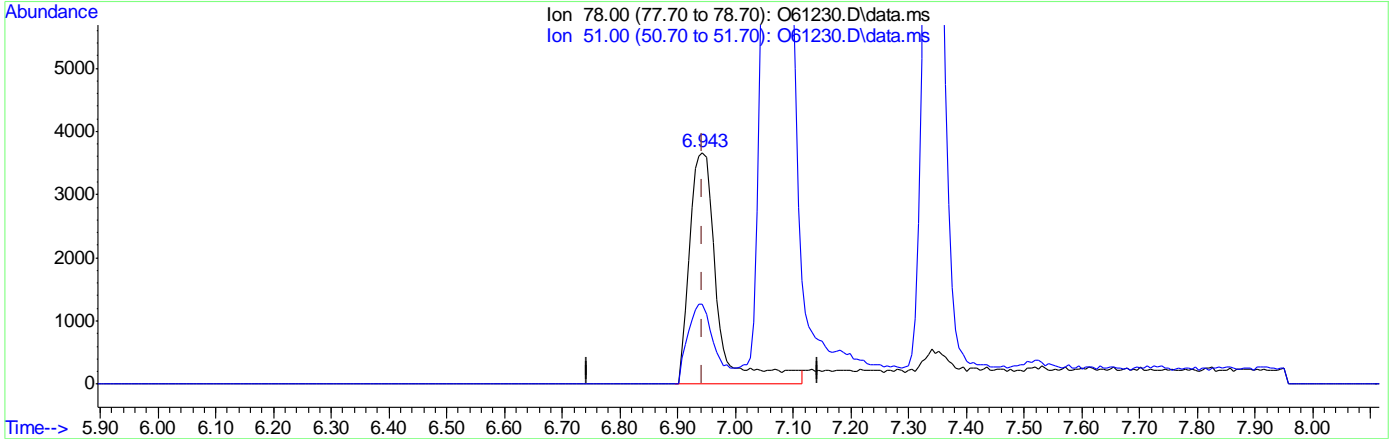
(3) Chloromethane  
 2.799min (-0.007) 0.19ug/L m  
 response 8825

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



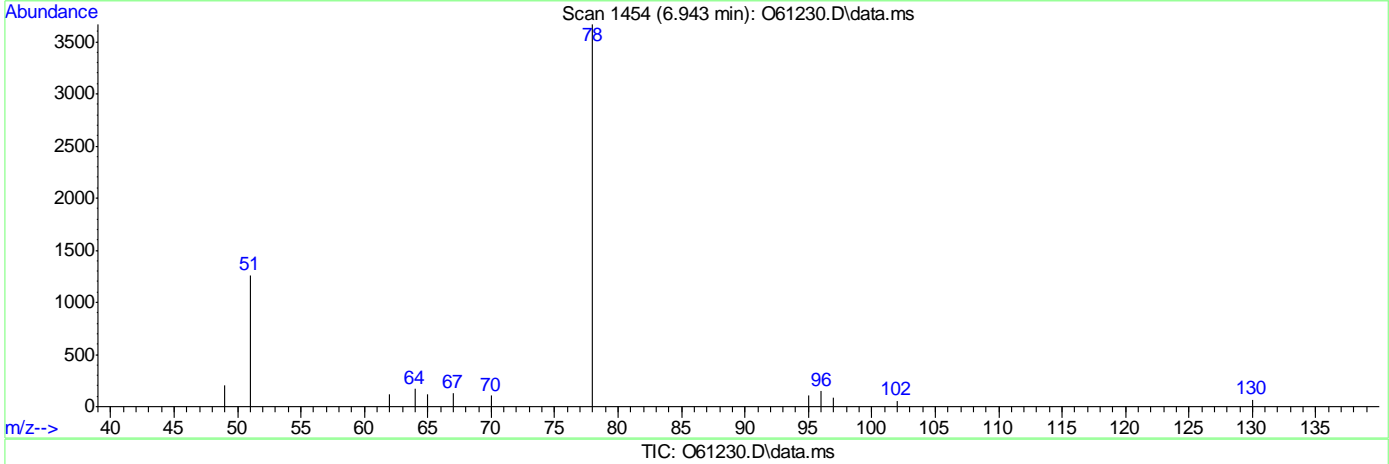
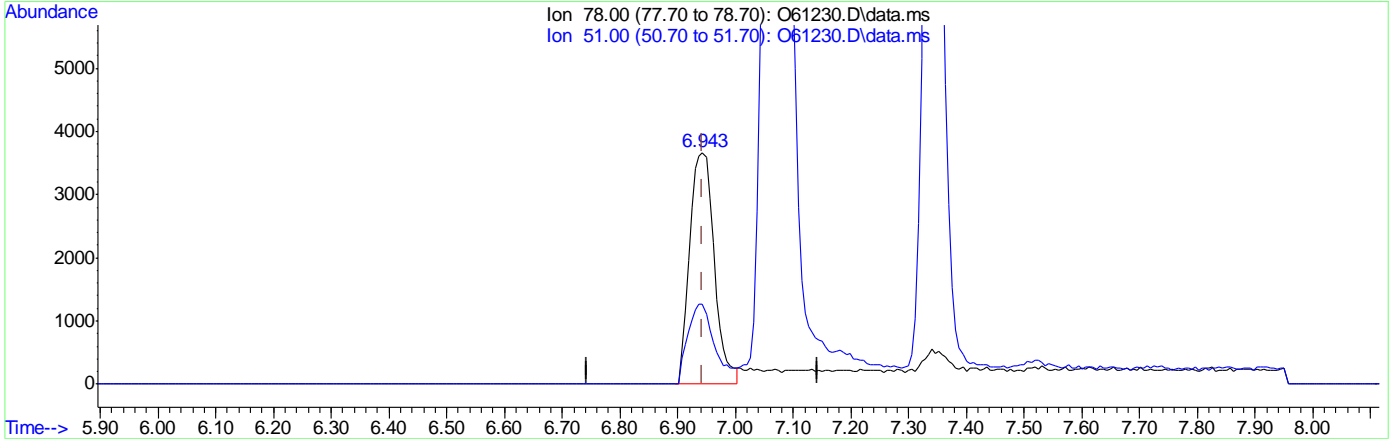
(12) Benzene ( )  
 6.943min (+0.000) 0.13ug/L  
 response 12135

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.11ug/L m  
 response 10630

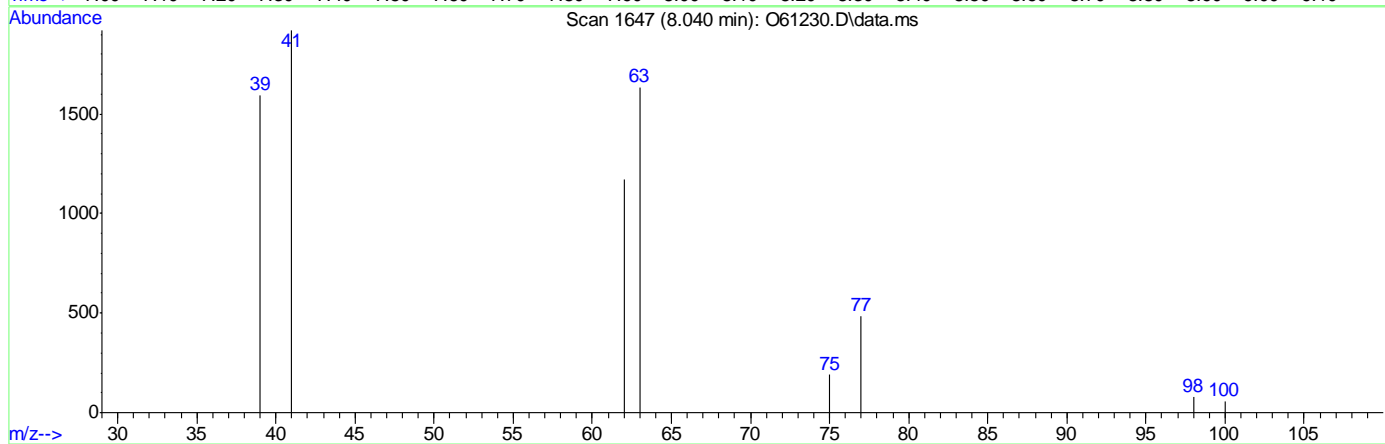
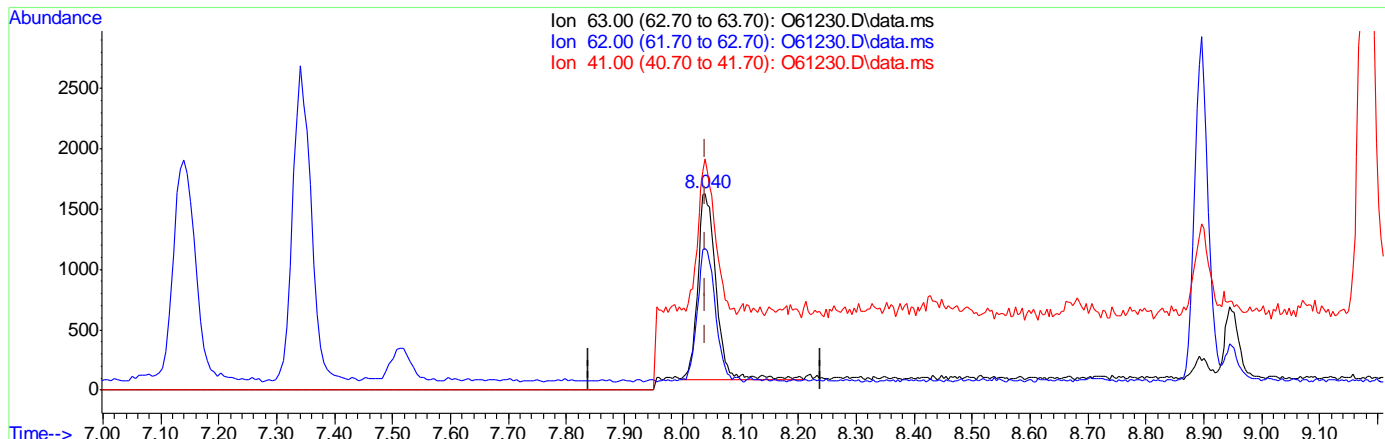
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

7.6.1.8  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.10ug/L  
 response 3437

Ion	Exp%	Act%
63.00	100	100
62.00	72.70	70.53
41.00	84.50	81.61
0.00	0.00	0.00

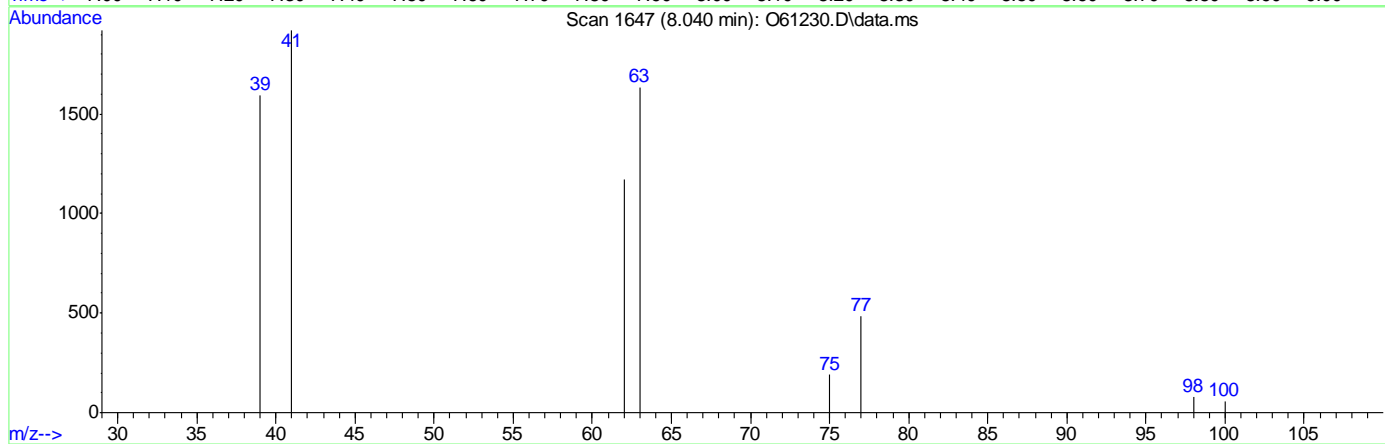
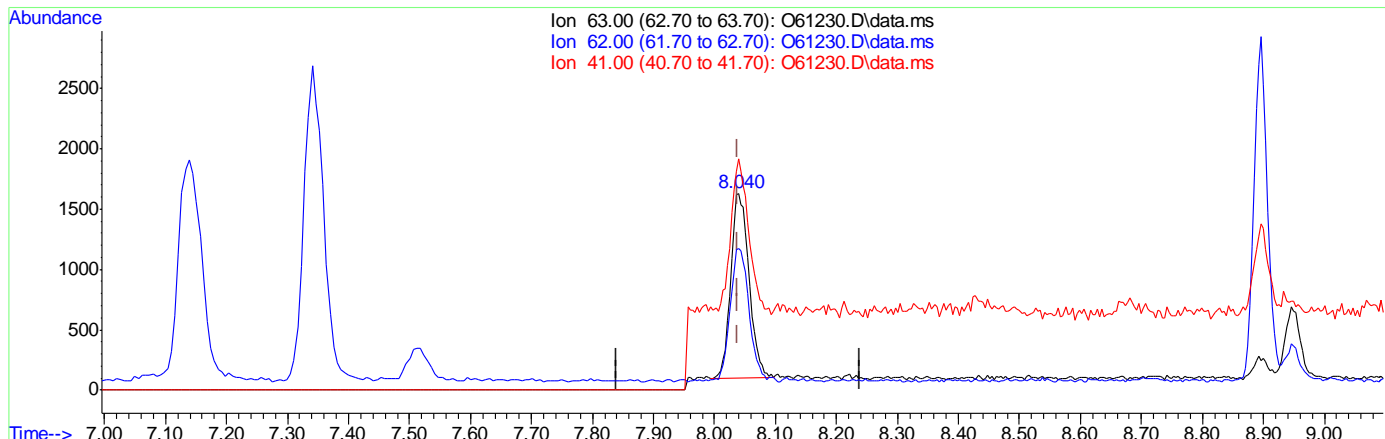
7.6.1.9  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.09ug/L m  
 response 3248

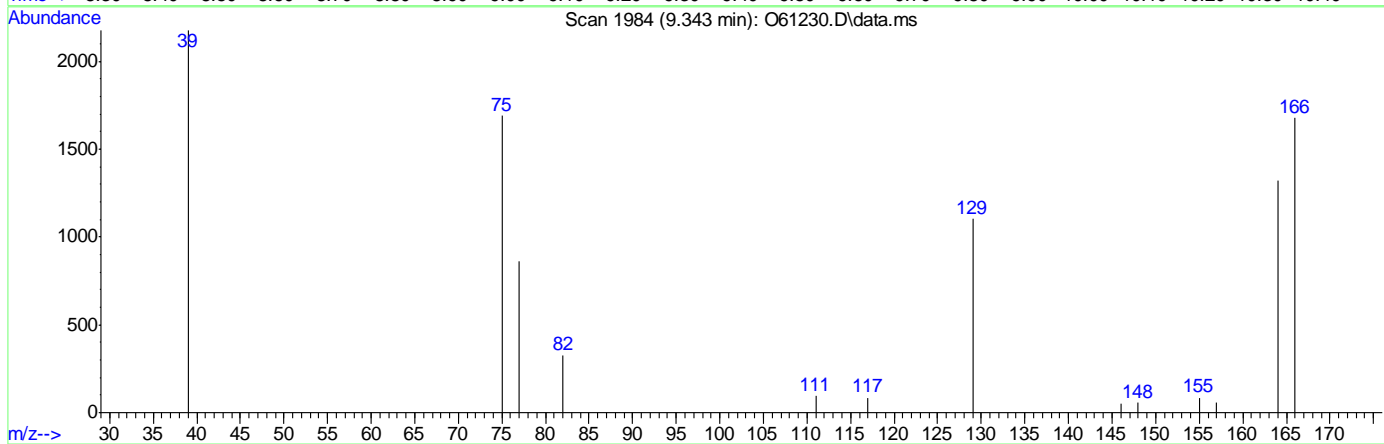
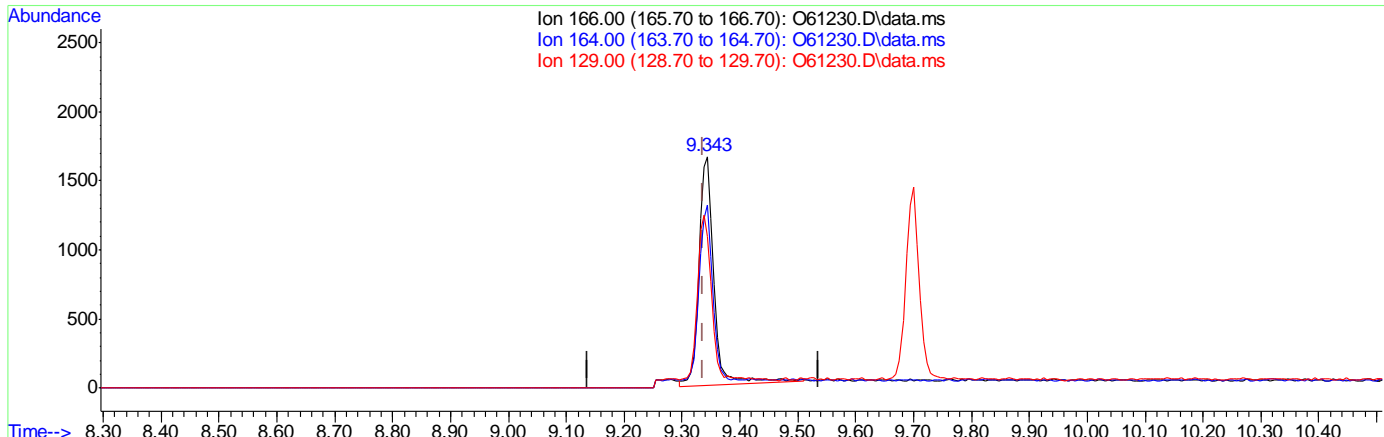
Ion	Exp%	Act%
63.00	100	100
62.00	72.70	71.77
41.00	84.50	117.58#
0.00	0.00	0.00

7.6.1.10  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )  
 9.343min (+0.006) 0.13ug/L  
 response 2993

Ion	Exp%	Act%
166.00	100	100
164.00	77.30	77.82
129.00	67.50	64.20
0.00	0.00	0.00

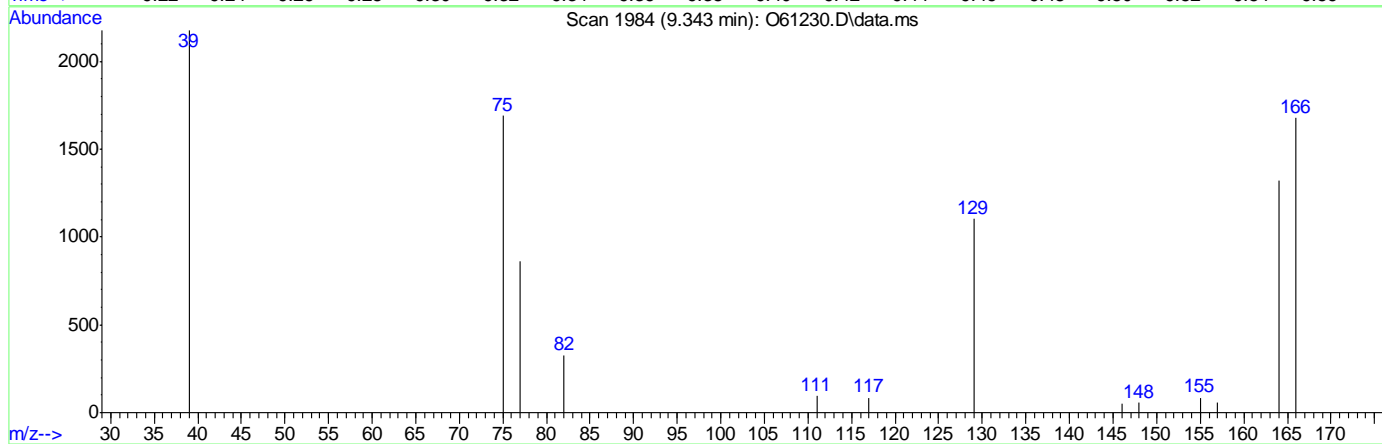
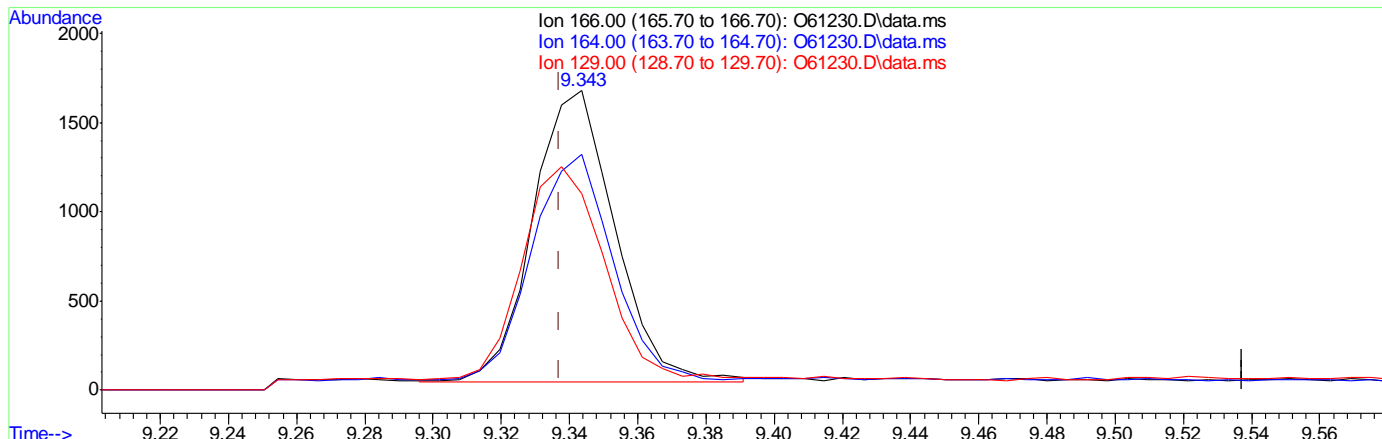
7.6.1.11  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )

9.343min (+0.006) 0.12ug/L m

response 2702

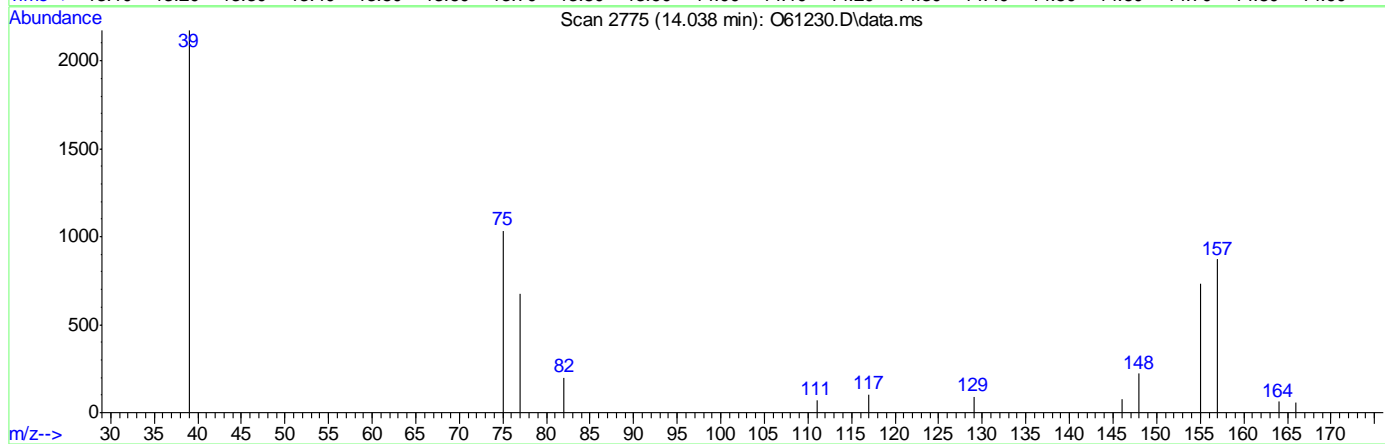
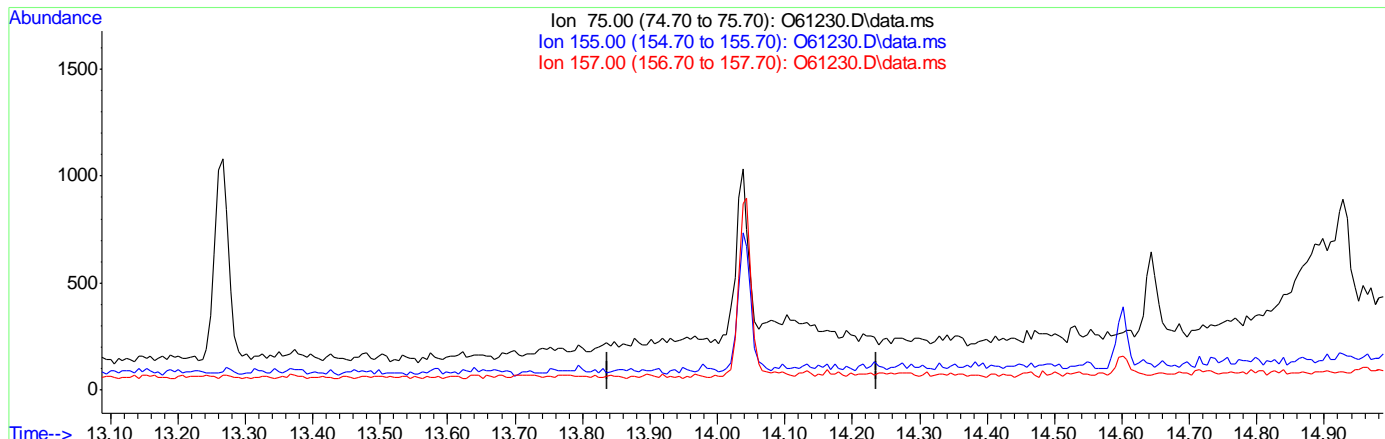
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	78.83
129.00	67.50	65.71
0.00	0.00	0.00

7.6.1.12  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.037min (-14.037) 0.00ug/L

response 0

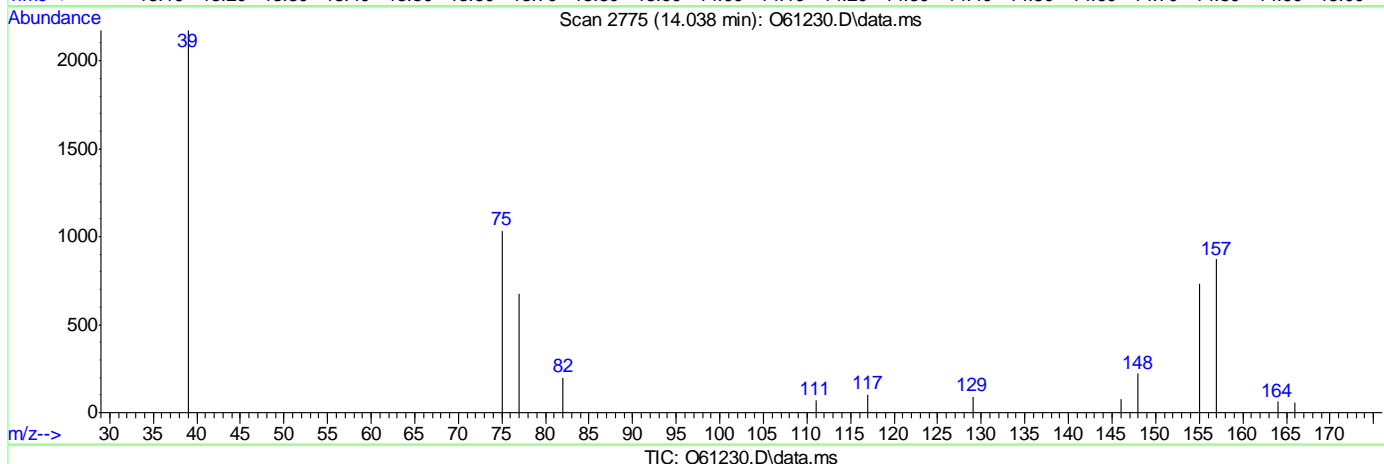
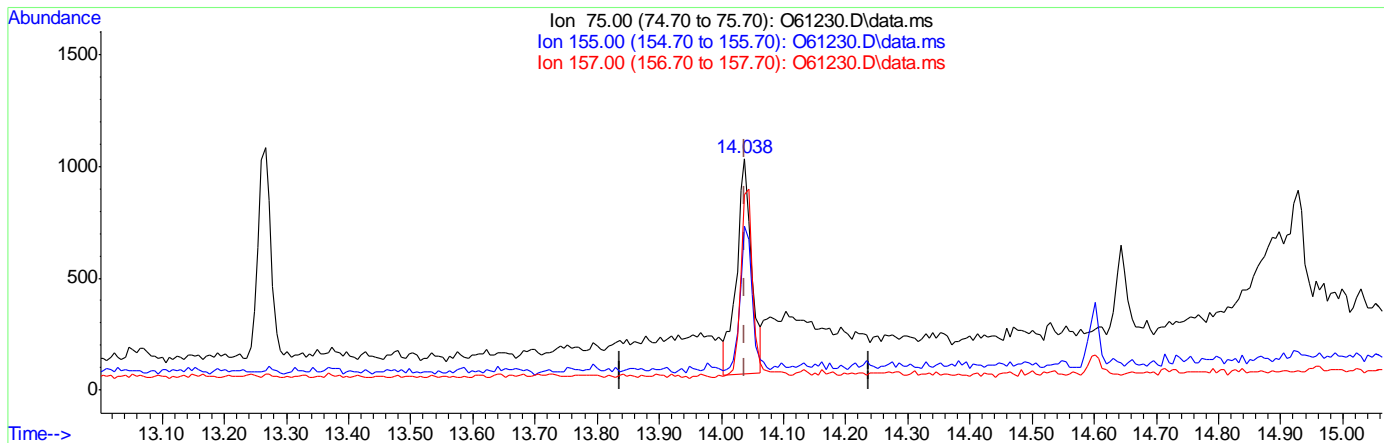
Ion	Exp%	Act%
75.00	100	0.00
155.00	88.00	0.00#
157.00	106.80	0.00#
0.00	0.00	0.00

7.6.1.13  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.038min (+0.000) 0.12ug/L m

response 1605

Ion	Exp%	Act%
75.00	100	100
155.00	88.00	70.99
157.00	106.80	84.43#
0.00	0.00	0.00

7.6.1.14  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : stutip  
 Sample : IC2356-2 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 18:02:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	308238	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	234700	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	125580	4.64	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%		
19) Toluene-d8	8.896	98	269907	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	19507	0.64	ug/L		96
3) Chloromethane	2.799	50	33695	0.75	ug/L		90
4) 1,1-Dichloroethene	4.092	61	22337	0.54	ug/L		92
5) Methylene Chloride	4.703	49	128834	1.69	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	28030	0.55	ug/L		84
7) 1,1-Dichloroethane	5.514	63	30310	0.52	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	14558	0.56	ug/L #		80
9) Chloroform	6.333	83	26026	0.55	ug/L		94
10) Carbon Tetrachloride	6.510	117	17328	0.59	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	19399	0.57	ug/L		89
12) Benzene	6.943	78	51252m	0.56	ug/L		
14) 1,2-Dichloroethane	7.139	62	24323	0.48	ug/L		91
15) Trichloroethene	7.512	95	15009	0.56	ug/L		93
16) 1,2-Dichloropropane	8.040	63	17486	0.52	ug/L		93
17) cis-1,3-Dichloropropene	8.711	75	15877	0.42	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	14216	0.40	ug/L		98
21) Tetrachloroethene	9.337	166	14813	0.65	ug/L		90
22) 1,4-Dichlorobenzene	12.827	146	27579	0.56	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	6106	0.47	ug/L		98

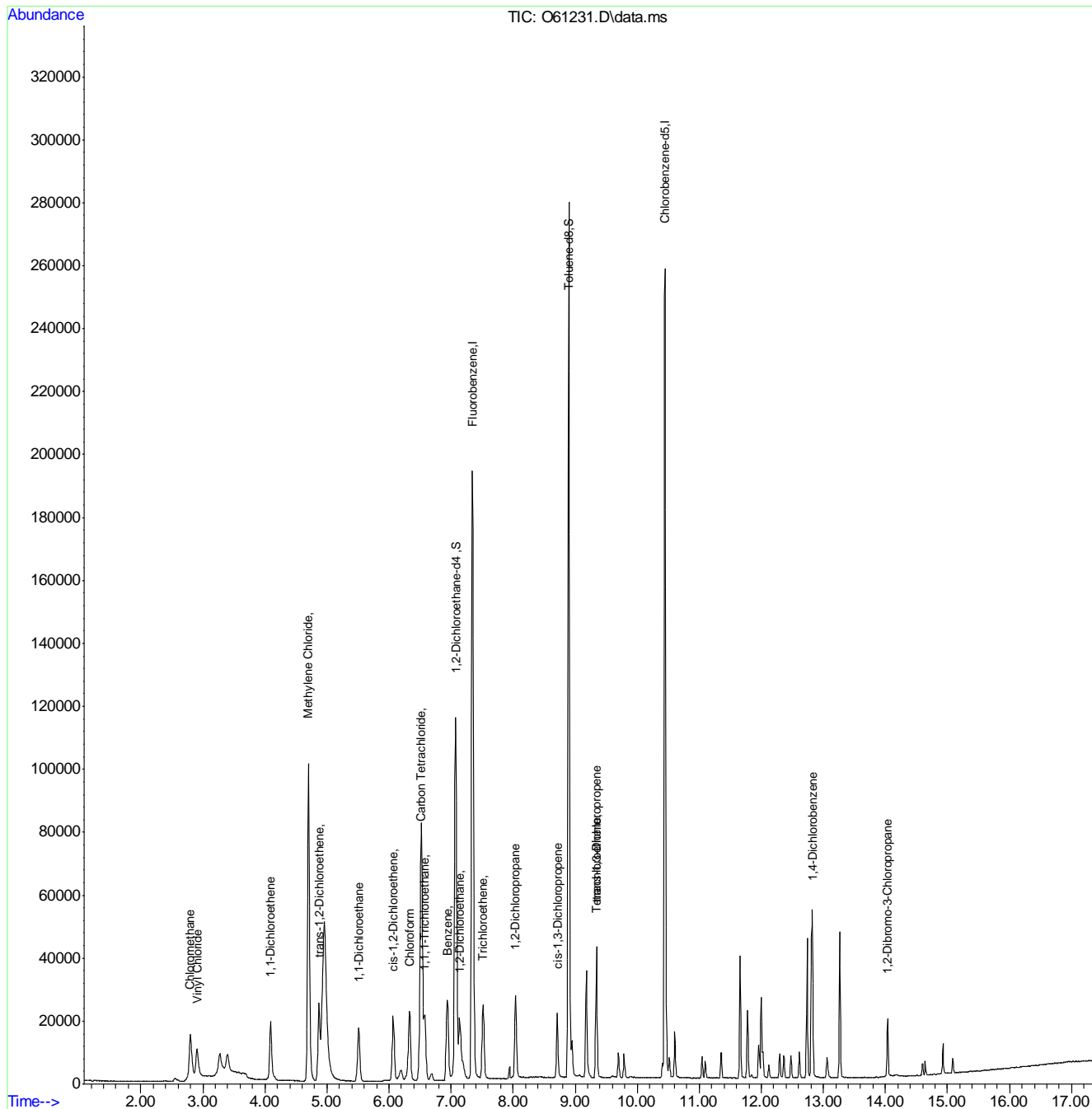
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : stutip  
 Sample : IC2356-2  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:02:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61231.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:54      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.2.1

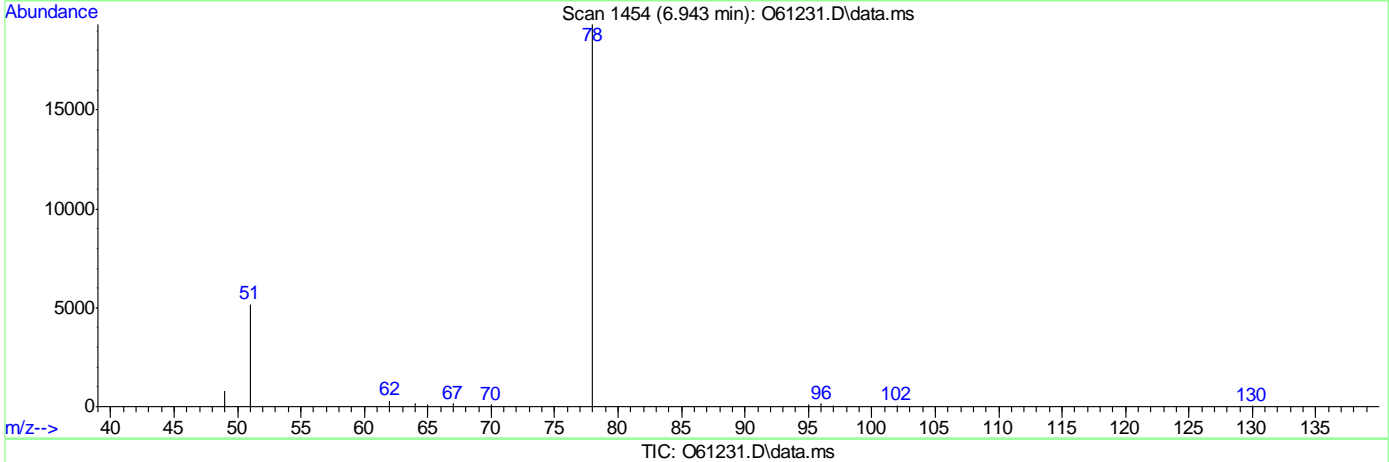
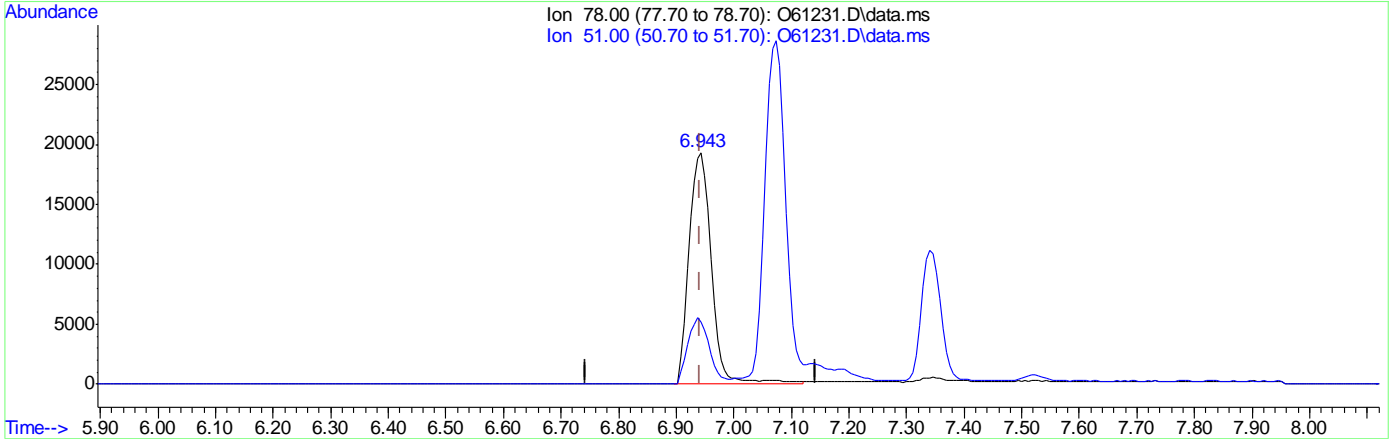
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.58ug/L  
 response 53149

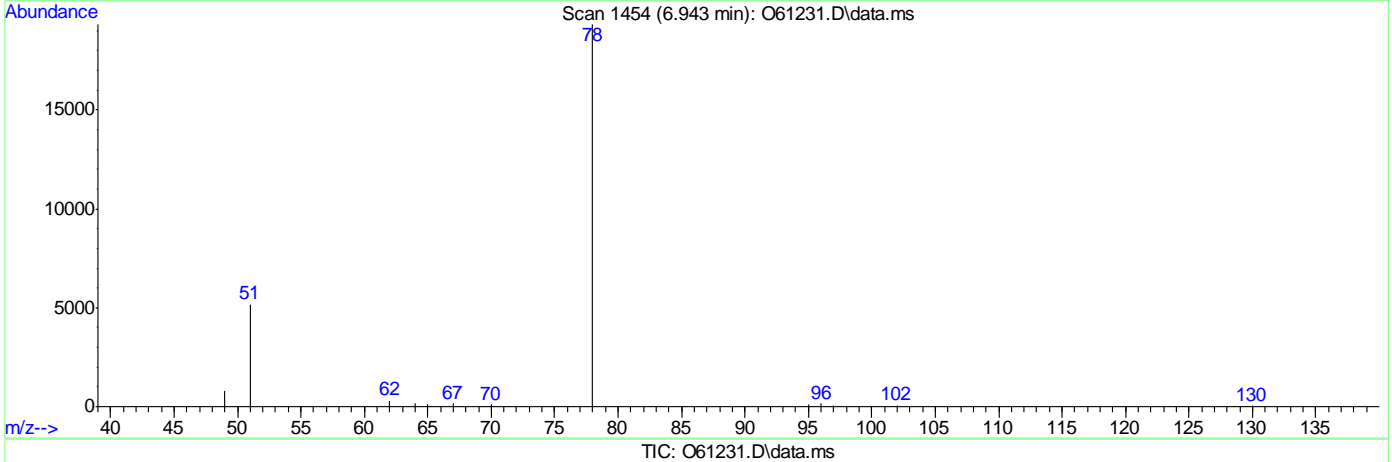
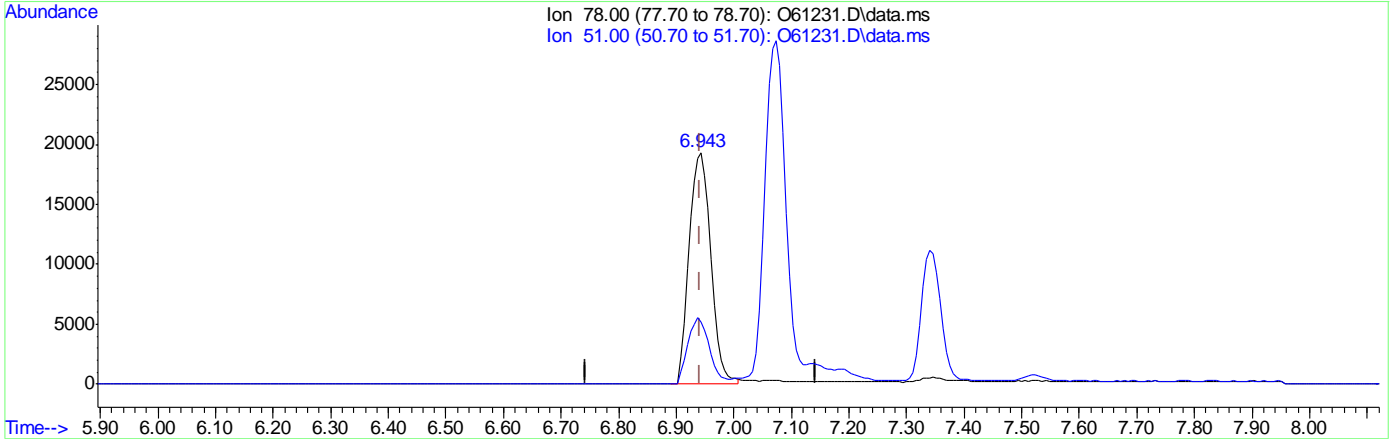
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.56ug/L m  
 response 51252

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	317169	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	244669	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	131106	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	94.20%		
19) Toluene-d8	8.900	98	274860	4.60	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.912	62	72414	2.35	ug/L		97
3) Chloromethane	2.810	50	108758	2.40	ug/L		94
4) 1,1-Dichloroethene	4.100	61	84017	1.96	ug/L		92
5) Methylene Chloride	4.707	49	235781	3.07	ug/L		98
6) trans-1,2-Dichloroethene	4.873	61	98273	1.88	ug/L		82
7) 1,1-Dichloroethane	5.518	63	114595	1.92	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	55181	2.08	ug/L #		81
9) Chloroform	6.339	83	96882	2.01	ug/L		96
10) Carbon Tetrachloride	6.510	117	64256	2.13	ug/L		87
11) 1,1,1-Trichloroethane	6.582	97	73085	2.10	ug/L		93
12) Benzene	6.943	78	190849m	2.02	ug/L		
14) 1,2-Dichloroethane	7.145	62	94612	1.82	ug/L		91
15) Trichloroethene	7.518	95	56329	2.04	ug/L		86
16) 1,2-Dichloropropane	8.043	63	65843	1.91	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	63086	1.64	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	59845	1.60	ug/L		98
21) Tetrachloroethene	9.343	166	52774	2.22	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	108631	2.11	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	18565	1.37	ug/L		96

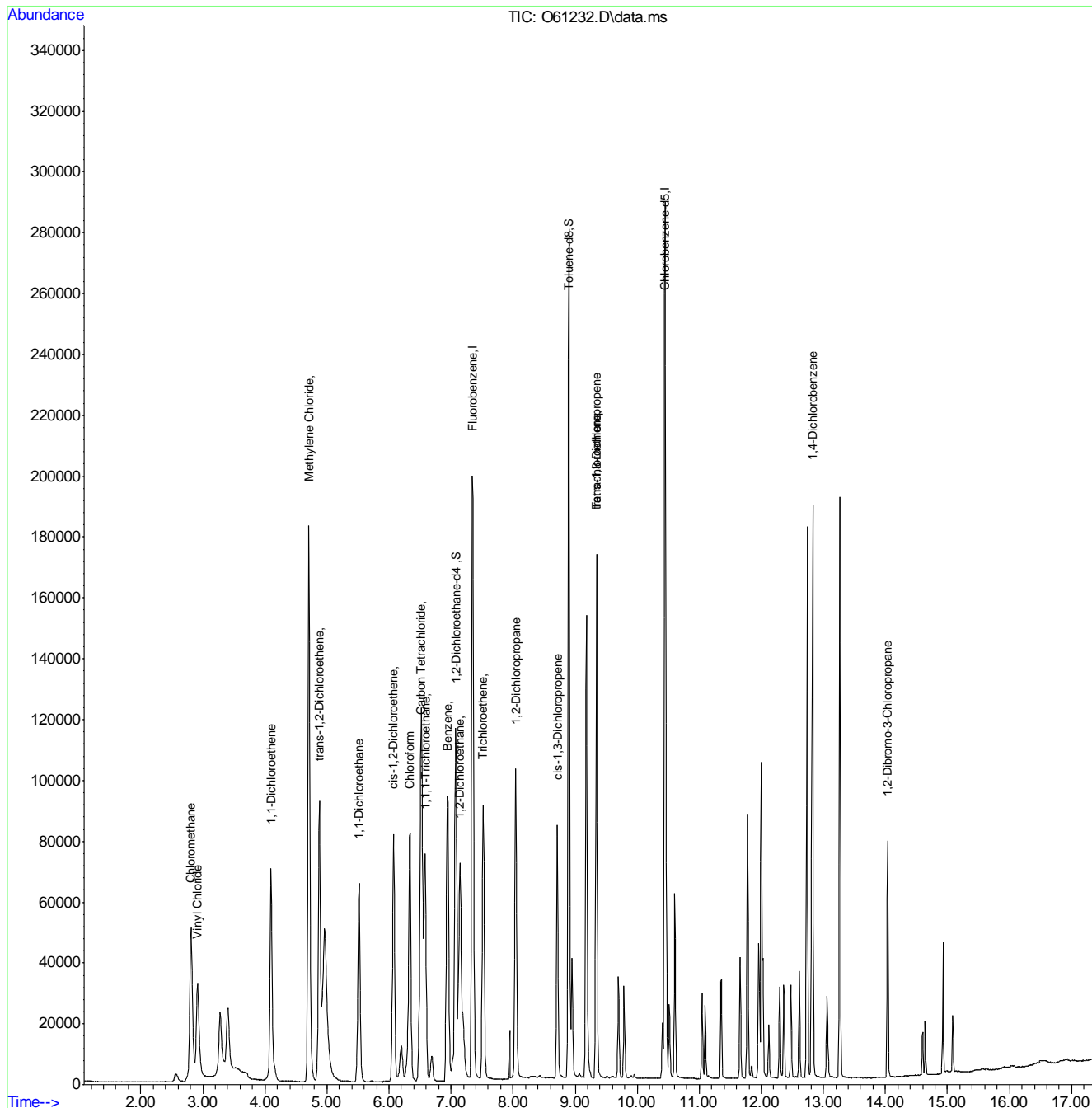
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.3  
7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61232.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:14      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

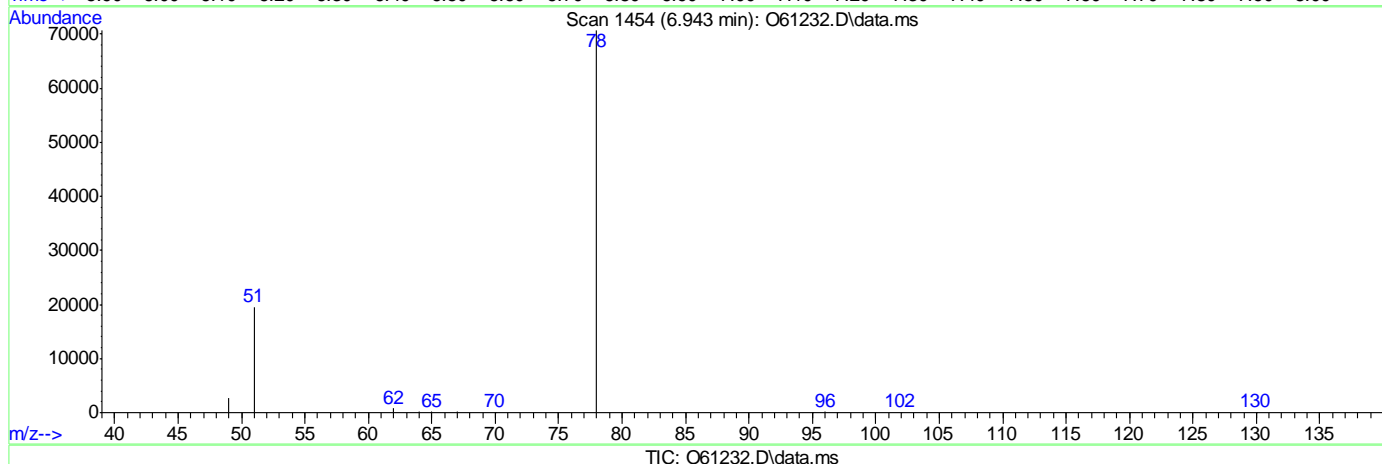
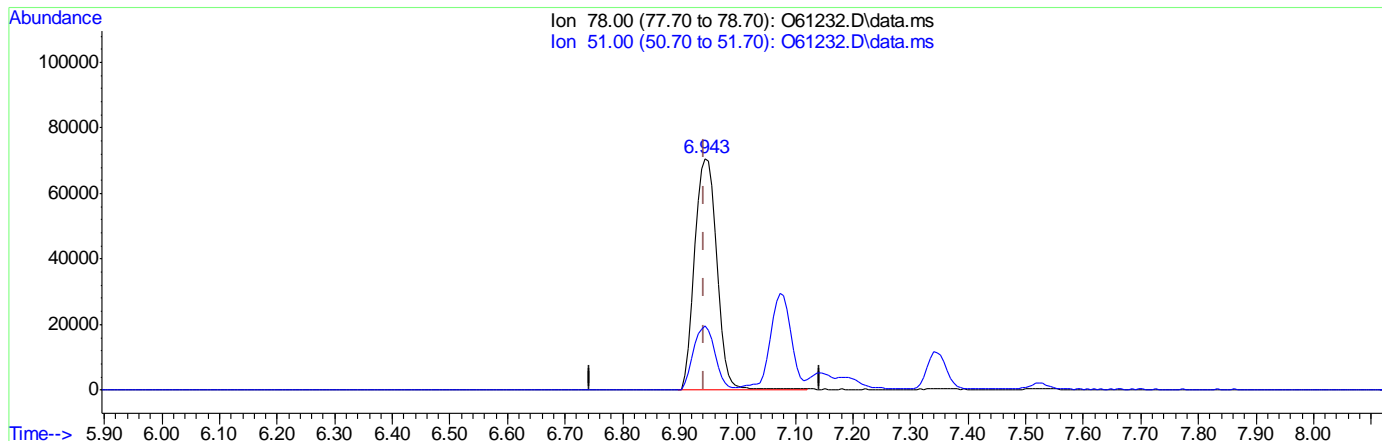
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 2.05ug/L

response 193530

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

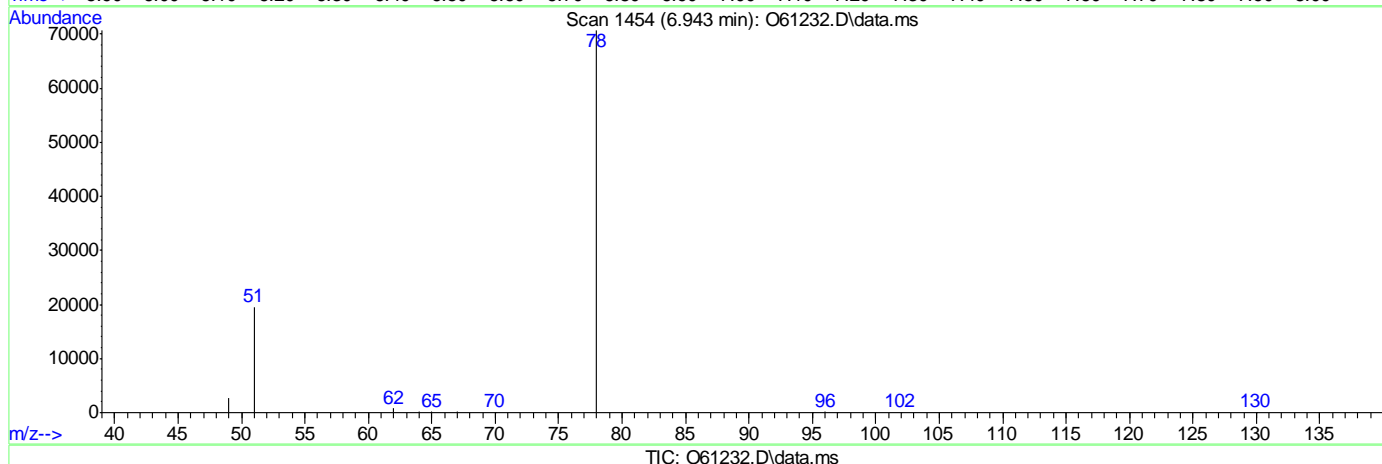
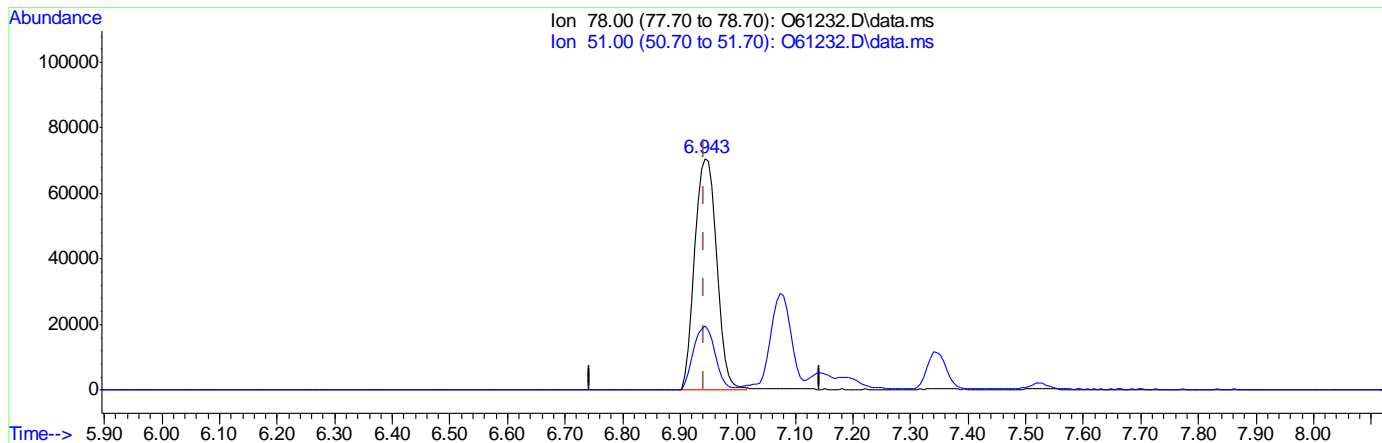
7.6.3.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 2.02ug/L m

response 190849

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

7.6.3.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	331492	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	258539	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	143850	4.94	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.80%	
19) Toluene-d8	8.900	98	286563	4.53	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.60%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.916	62	189960	6.08	ug/L	98
3) Chloromethane	2.810	50	274617	5.99	ug/L	94
4) 1,1-Dichloroethene	4.100	61	243476	5.42	ug/L	92
5) Methylene Chloride	4.707	49	387657	4.95	ug/L	99
6) trans-1,2-Dichloroethene	4.873	61	280716	5.19	ug/L	83
7) 1,1-Dichloroethane	5.518	63	322308	5.17	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	156323	5.64	ug/L #	81
9) Chloroform	6.339	83	274074	5.43	ug/L	96
10) Carbon Tetrachloride	6.517	117	189329	6.01	ug/L	88
11) 1,1,1-Trichloroethane	6.582	97	213837	5.87	ug/L	93
12) Benzene	6.943	78	539806m	5.49	ug/L	
14) 1,2-Dichloroethane	7.145	62	258506	4.75	ug/L	90
15) Trichloroethene	7.518	95	161314	5.59	ug/L	88
16) 1,2-Dichloropropane	8.044	63	181717	5.06	ug/L	93
17) cis-1,3-Dichloropropene	8.711	75	182931	4.54	ug/L	99
20) trans-1,3-Dichloropropene	9.343	75	176190	4.47	ug/L	99
21) Tetrachloroethene	9.343	166	150705	6.02	ug/L	98
22) 1,4-Dichlorobenzene	12.827	146	311628	5.72	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	52936	3.70	ug/L	90

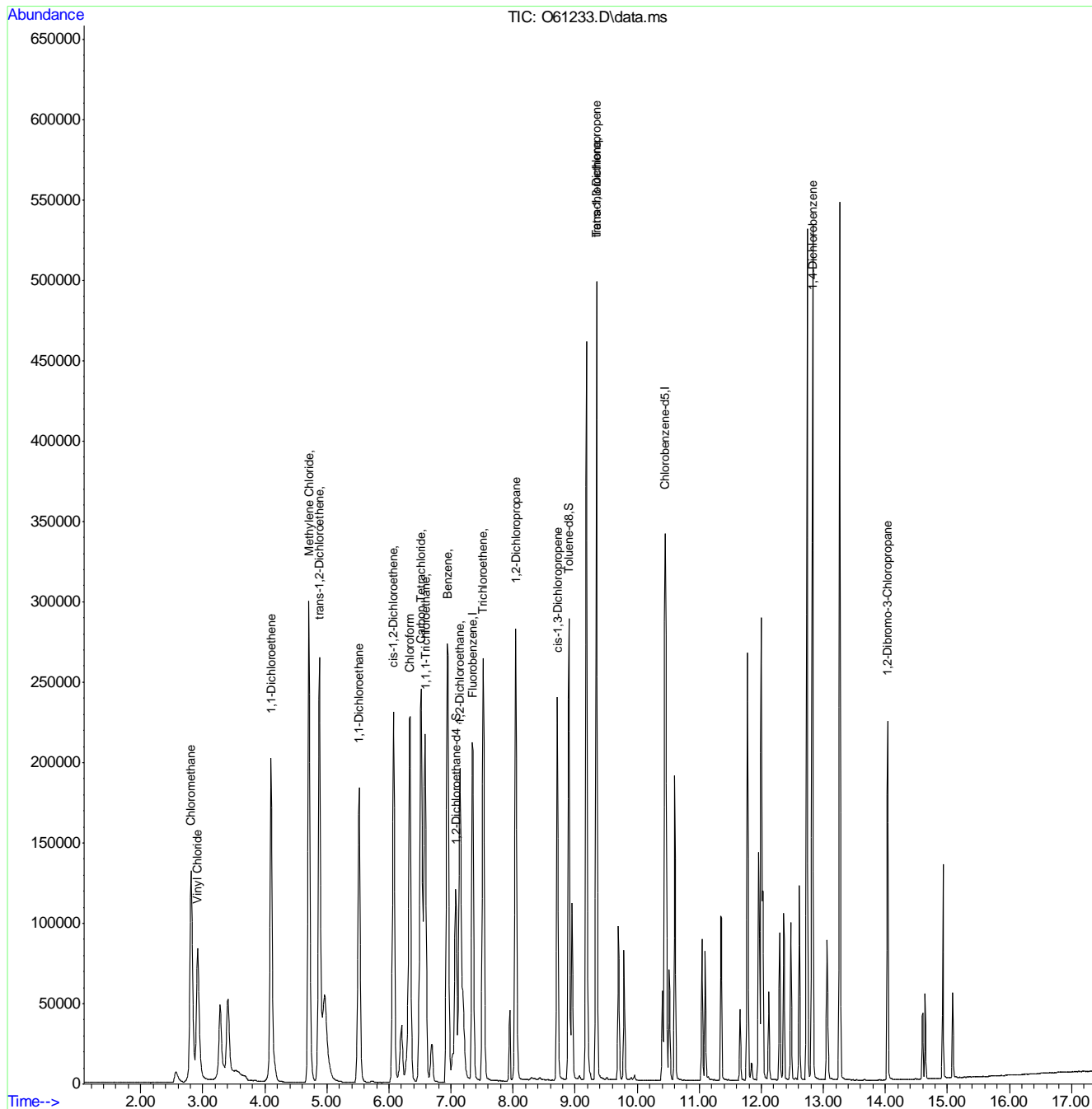
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61233.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:35      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

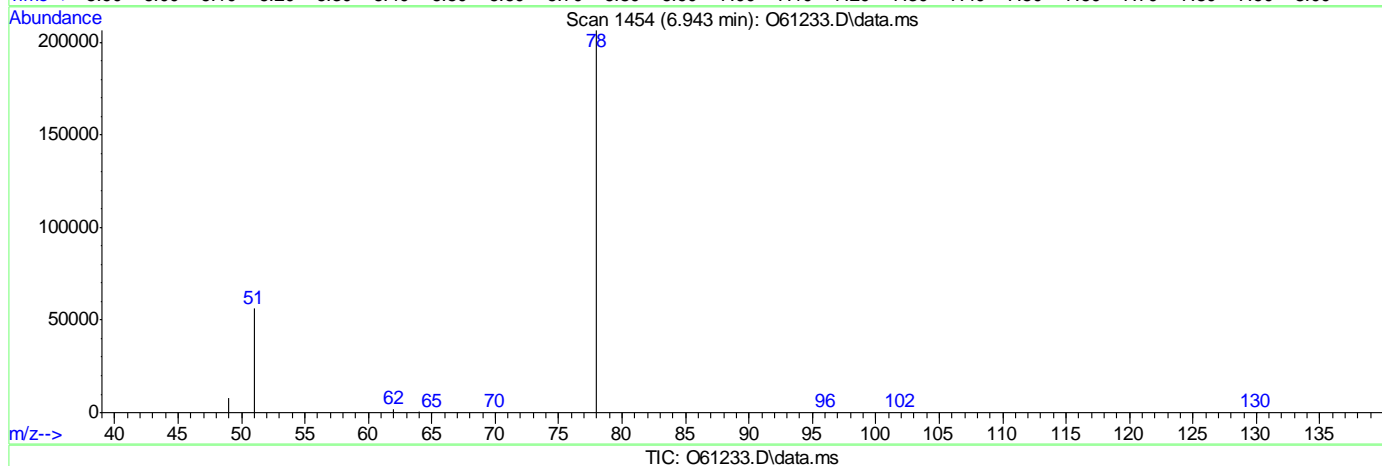
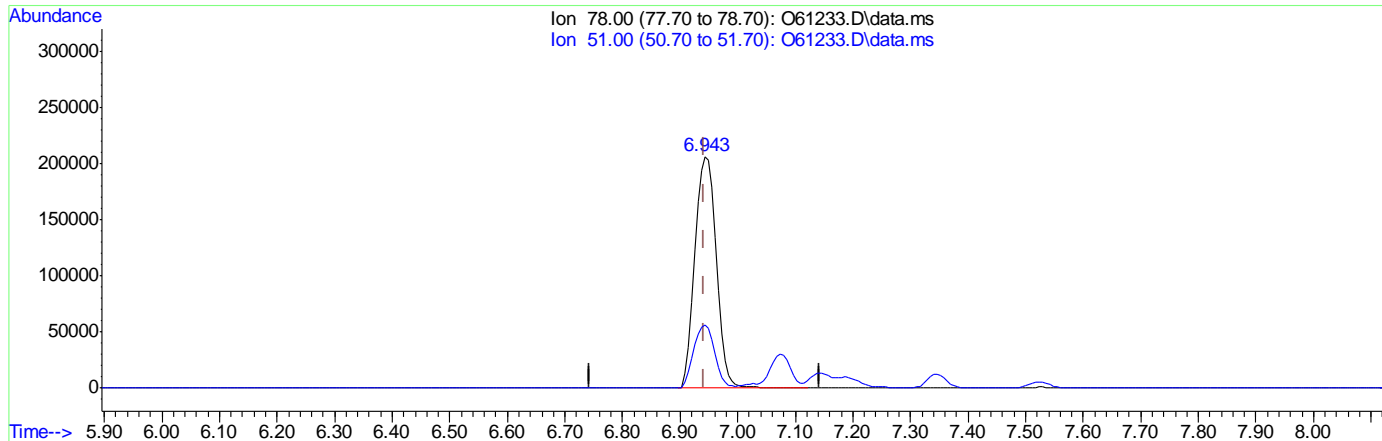


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.54ug/L

response 544298

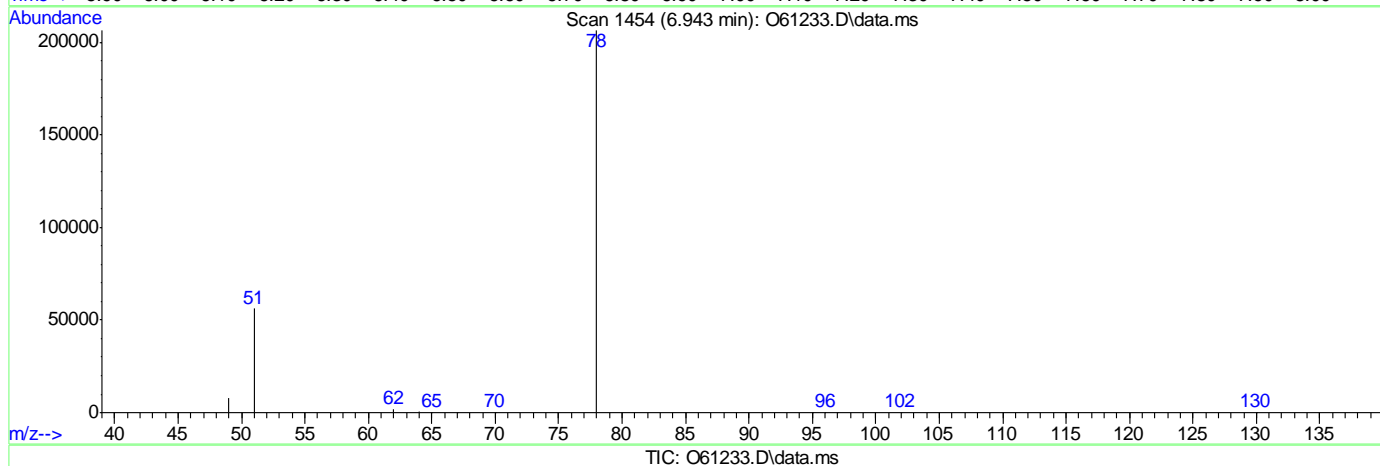
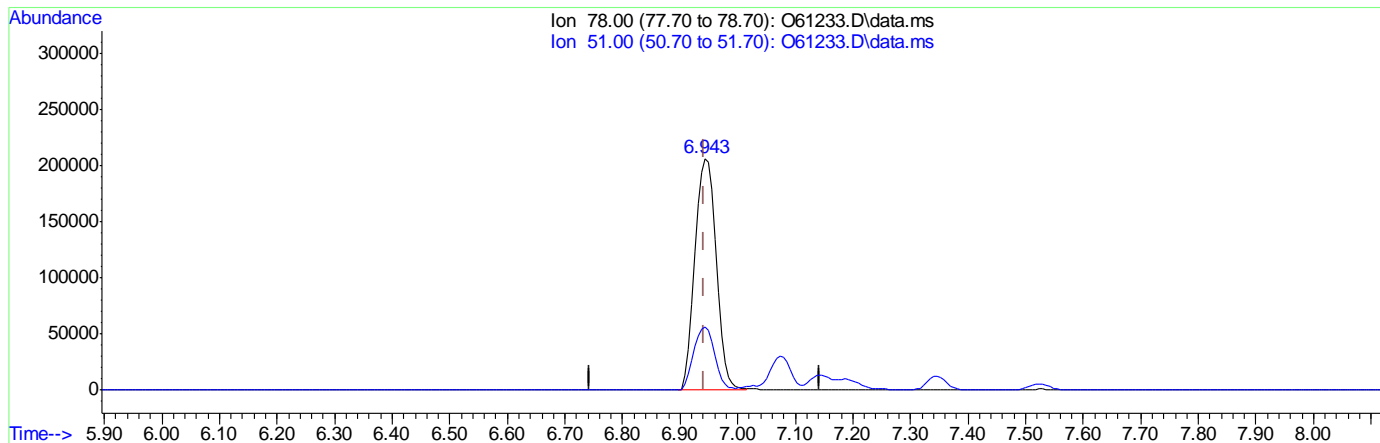
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.4.2  
7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.49ug/L m

response 539806

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICC2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	367891	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	288681	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	143276	4.43	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%		
19) Toluene-d8	8.900	98	317520	4.50	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	385419	11.68	ug/L		97
3) Chloromethane	2.807	50	542034	11.18	ug/L		93
4) 1,1-Dichloroethene	4.096	61	516893	10.38	ug/L		93
5) Methylene Chloride	4.703	49	746865	9.11	ug/L		99
6) trans-1,2-Dichloroethene	4.873	61	592225	10.01	ug/L		86
7) 1,1-Dichloroethane	5.514	63	676382	9.78	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	333880	10.85	ug/L		84
9) Chloroform	6.333	83	573497	10.24	ug/L		97
10) Carbon Tetrachloride	6.511	117	409043	11.71	ug/L		87
11) 1,1,1-Trichloroethane	6.582	97	456875	11.31	ug/L		94
12) Benzene	6.943	78	1143203m	10.51	ug/L		
14) 1,2-Dichloroethane	7.145	62	542073	8.97	ug/L		90
15) Trichloroethene	7.518	95	346969	10.84	ug/L		88
16) 1,2-Dichloropropane	8.043	63	380072	9.56	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	405529	9.07	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	393915	8.95	ug/L		97
21) Tetrachloroethene	9.343	166	320442	11.51	ug/L		98
22) 1,4-Dichlorobenzene	12.827	146	679269	11.17	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.038	75	120855	7.57	ug/L		87

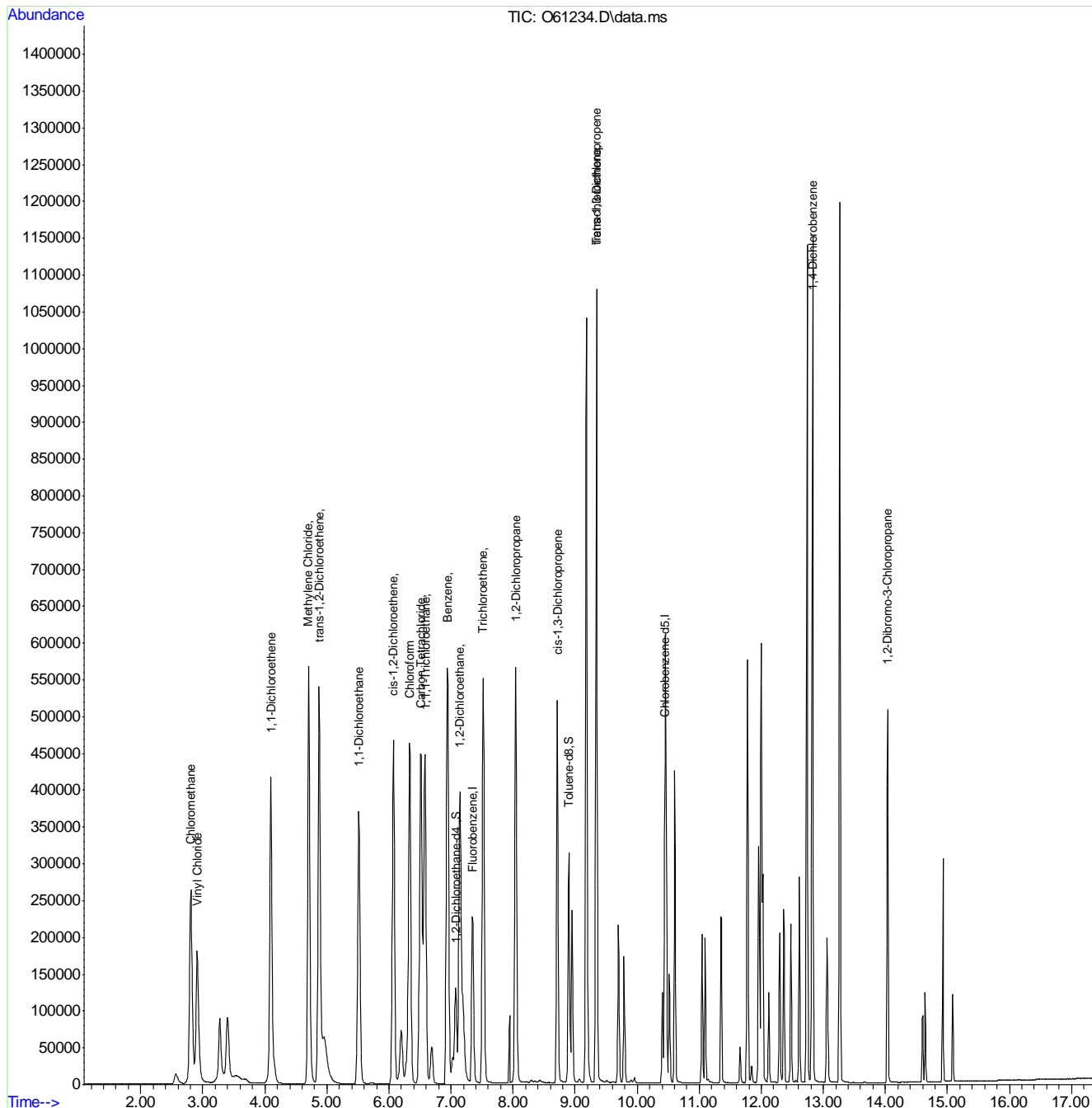
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICc2356-5  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.5  
7

# Manual Integration Approval Summary

**Sample Number:** VO2356-ICC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61234.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:55      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.5.1

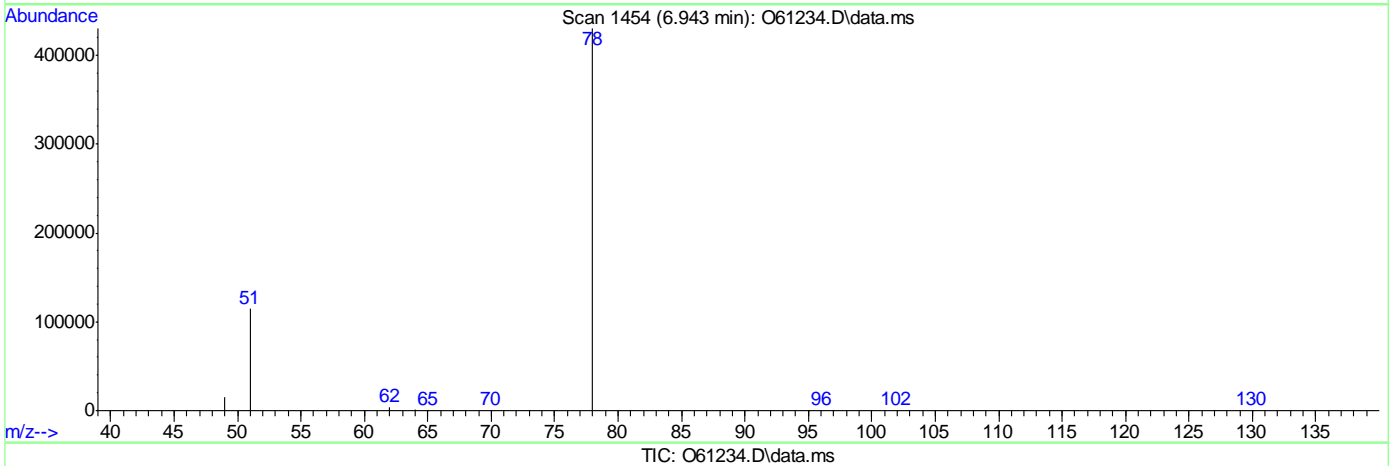
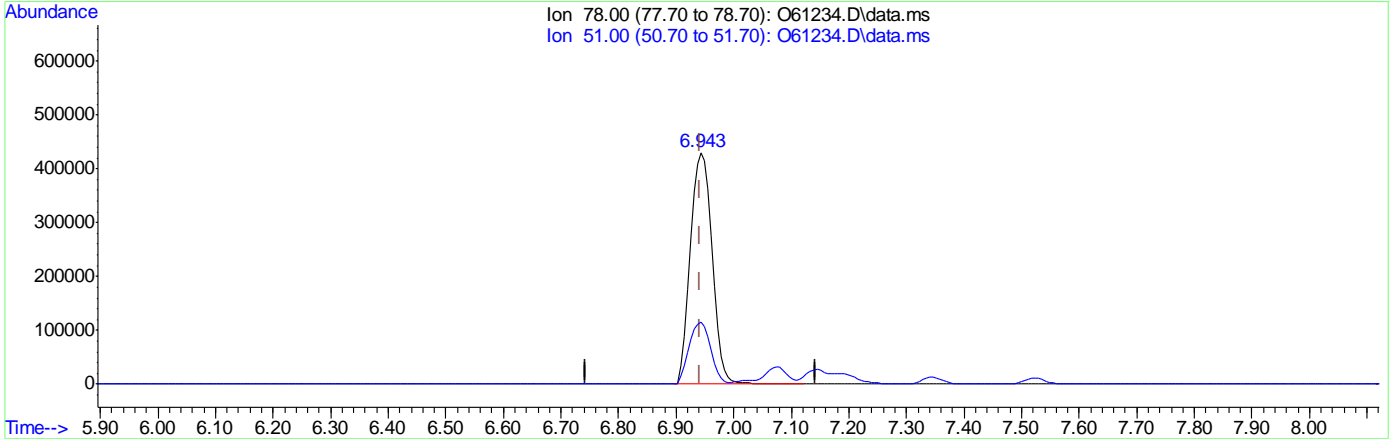
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.57ug/L  
 response 1149895

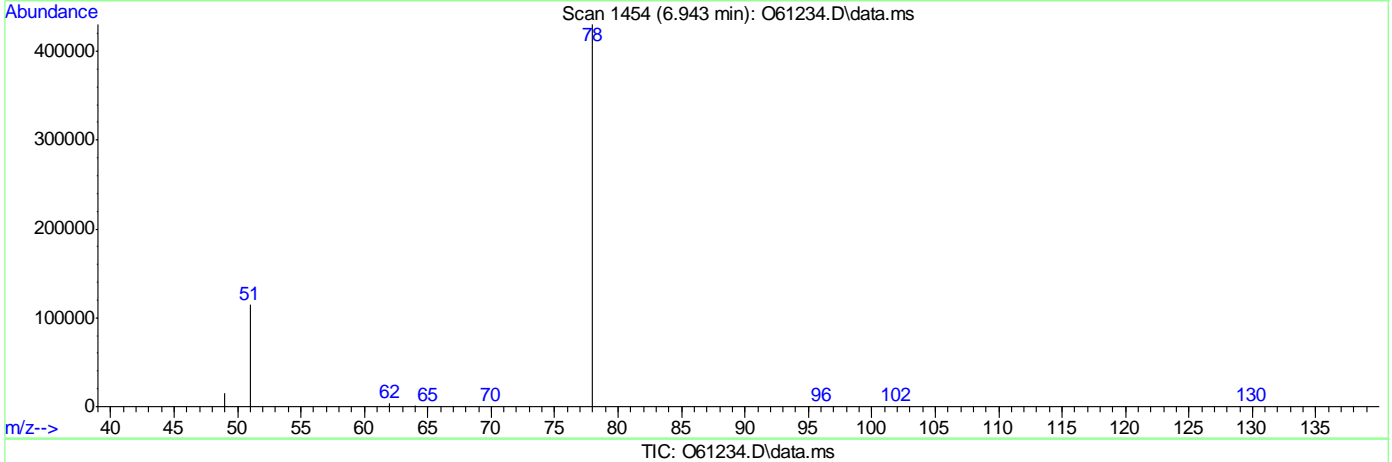
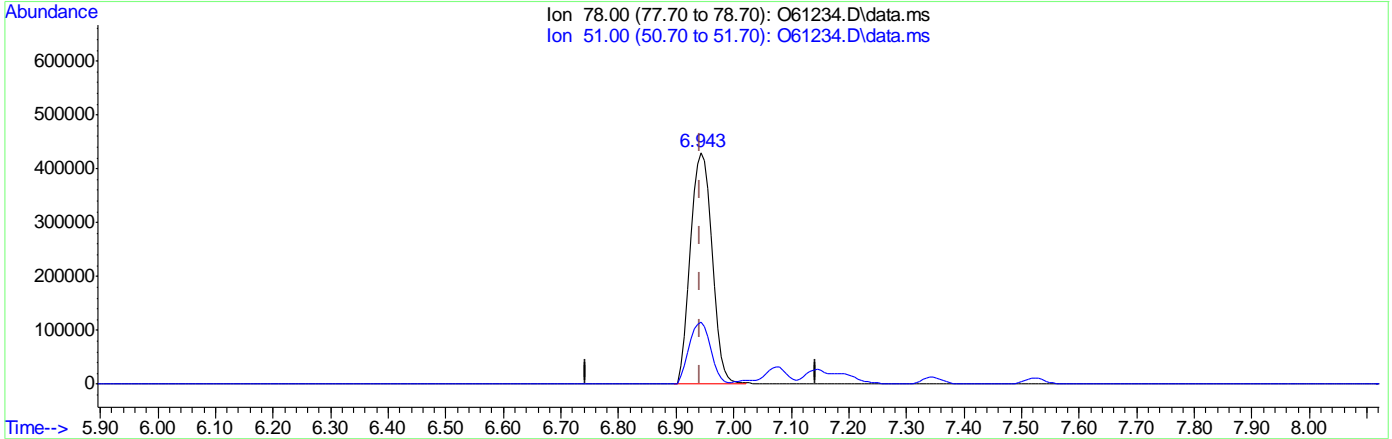
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.51ug/L m  
 response 1143203

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	393958	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	307376	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	153155	4.43	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%		
19) Toluene-d8	8.896	98	343376	4.57	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	581790	17.36	ug/L		98
3) Chloromethane	2.791	50	805942	16.33	ug/L		94
4) 1,1-Dichloroethene	4.085	61	794045	14.88	ug/L		93
5) Methylene Chloride	4.696	49	1121963	13.69	ug/L		100
6) trans-1,2-Dichloroethene	4.861	61	919410	14.72	ug/L		84
7) 1,1-Dichloroethane	5.506	63	1045292	14.12	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	524339	15.91	ug/L		84
9) Chloroform	6.333	83	891365	14.86	ug/L		97
10) Carbon Tetrachloride	6.505	117	634944	16.97	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	713480	16.49	ug/L		94
12) Benzene	6.943	78	1776329m	15.29	ug/L		
14) 1,2-Dichloroethane	7.139	62	860563	13.30	ug/L		90
15) Trichloroethene	7.512	95	544590	15.88	ug/L		90
16) 1,2-Dichloropropane	8.040	63	594236	13.99	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	663239	13.85	ug/L		93
20) trans-1,3-Dichloropropene	9.343	75	651125	13.89	ug/L		95
21) Tetrachloroethene	9.337	166	499062	16.90	ug/L		92
22) 1,4-Dichlorobenzene	12.827	146	1064594	16.45	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	202684	11.92	ug/L		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

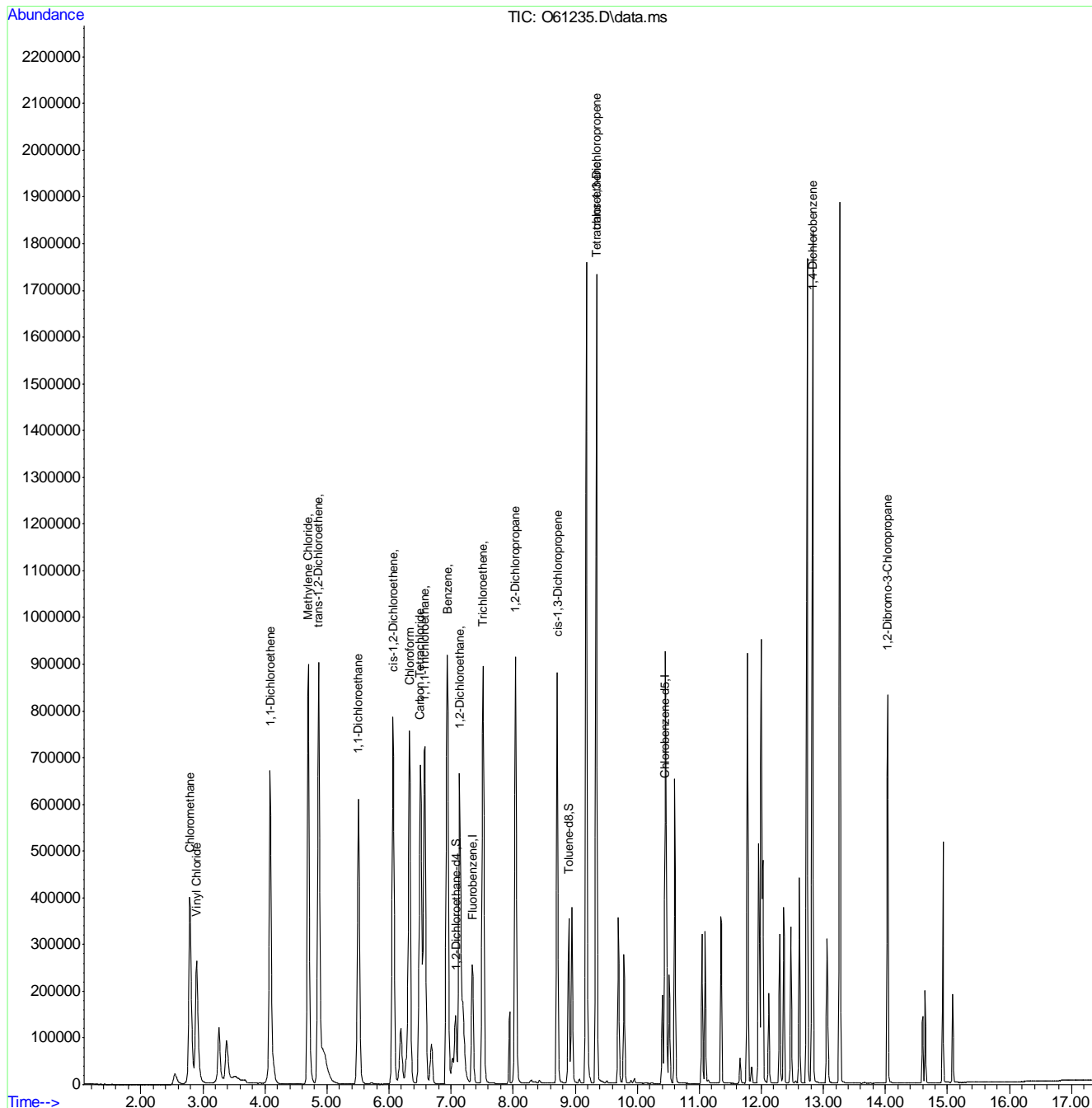


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61235.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:15      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

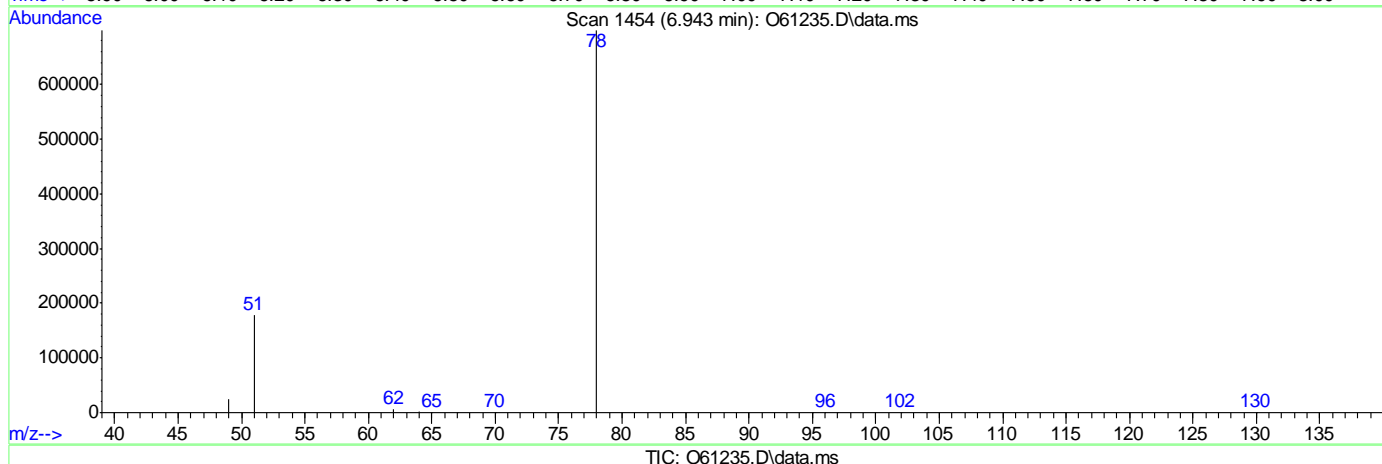
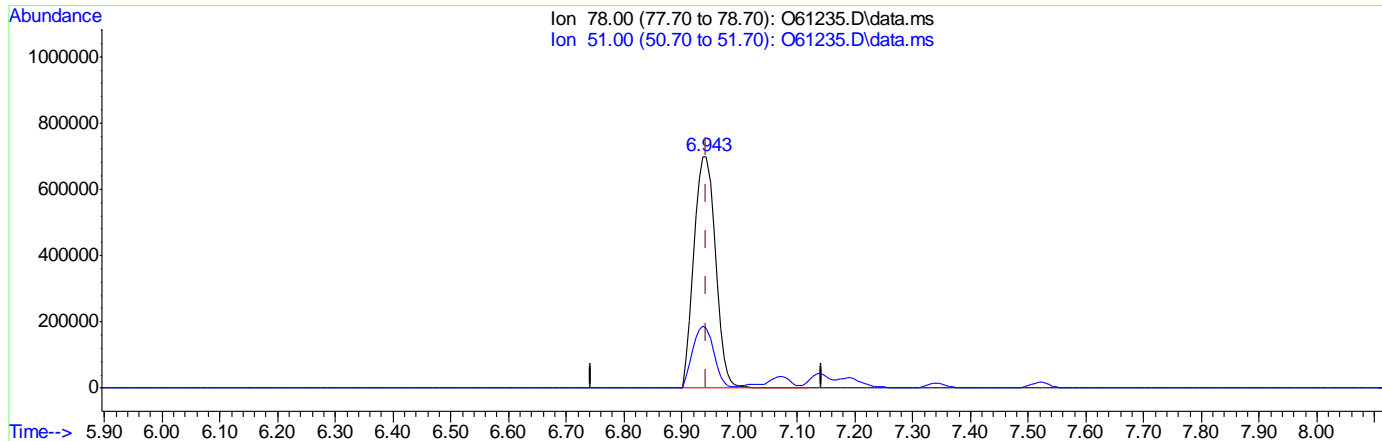
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 15.36ug/L

response 1784608

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00

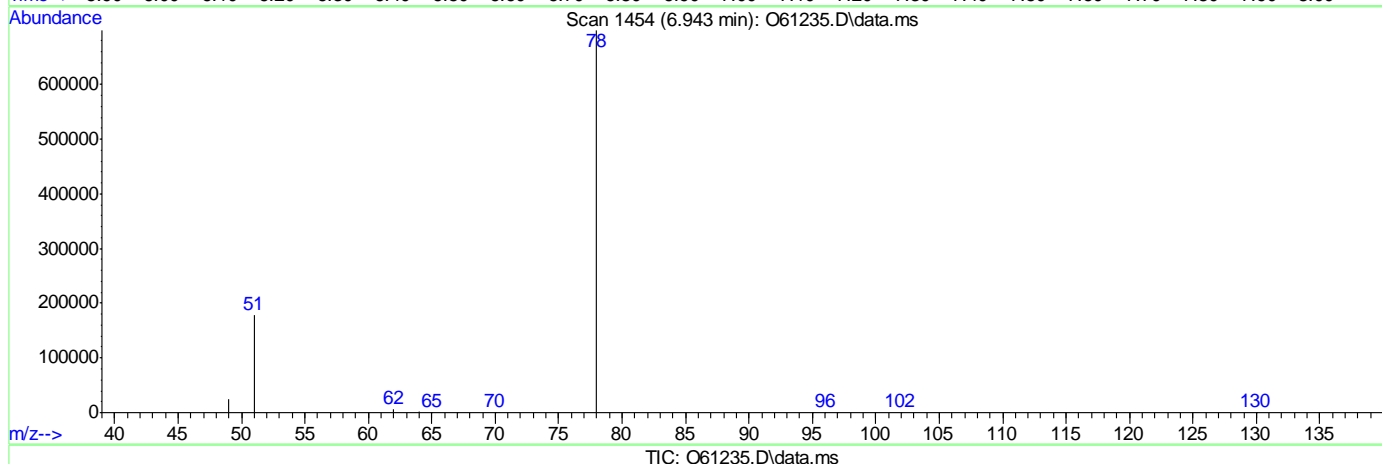
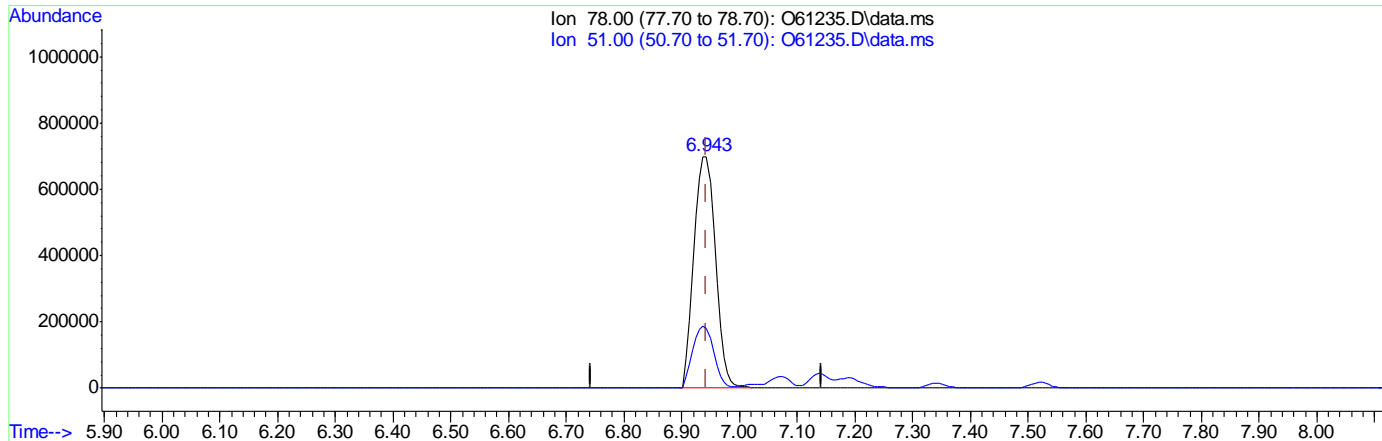
7.6.6.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 15.29ug/L m  
 response 1776329

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00

7.6.6.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.352	96	430313	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	330631	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	166372	4.40	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.00%		
19) Toluene-d8	8.900	98	374232	4.63	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	814030	23.66	ug/L		98
3) Chloromethane	2.803	50	1116385	21.95	ug/L		94
4) 1,1-Dichloroethene	4.092	61	1194148	20.49	ug/L		94
5) Methylene Chloride	4.703	49	1613536	19.98	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	1391011	20.75	ug/L		85
7) 1,1-Dichloroethane	5.514	63	1560149	19.30	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	791148	21.98	ug/L		85
9) Chloroform	6.333	83	1332932	20.34	ug/L		97
10) Carbon Tetrachloride	6.510	117	982791	24.05	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	1094990	23.17	ug/L		95
12) Benzene	6.943	78	2670290m	21.11	ug/L		
14) 1,2-Dichloroethane	7.145	62	1260966	17.85	ug/L		89
15) Trichloroethene	7.518	95	818610	21.86	ug/L		88
16) 1,2-Dichloropropane	8.043	63	893916	19.34	ug/L		91
17) cis-1,3-Dichloropropene	8.711	75	1001044	19.14	ug/L		95
20) trans-1,3-Dichloropropene	9.343	75	975862	19.36	ug/L		94
21) Tetrachloroethene	9.343	166	748457	23.68	ug/L		97
22) 1,4-Dichlorobenzene	12.827	146	1570512	22.56	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	297989	16.29	ug/L		91

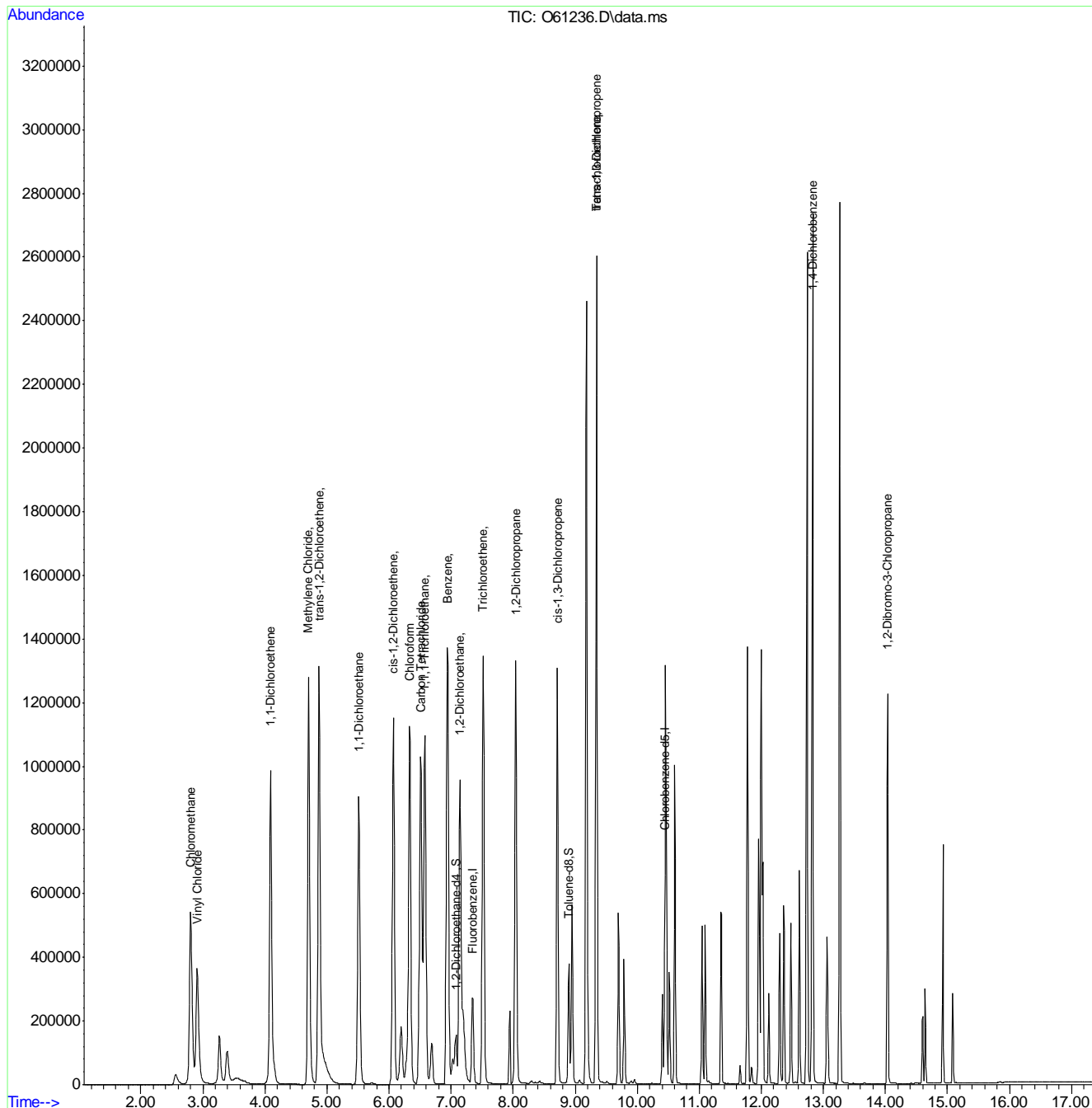
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61236.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:36      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

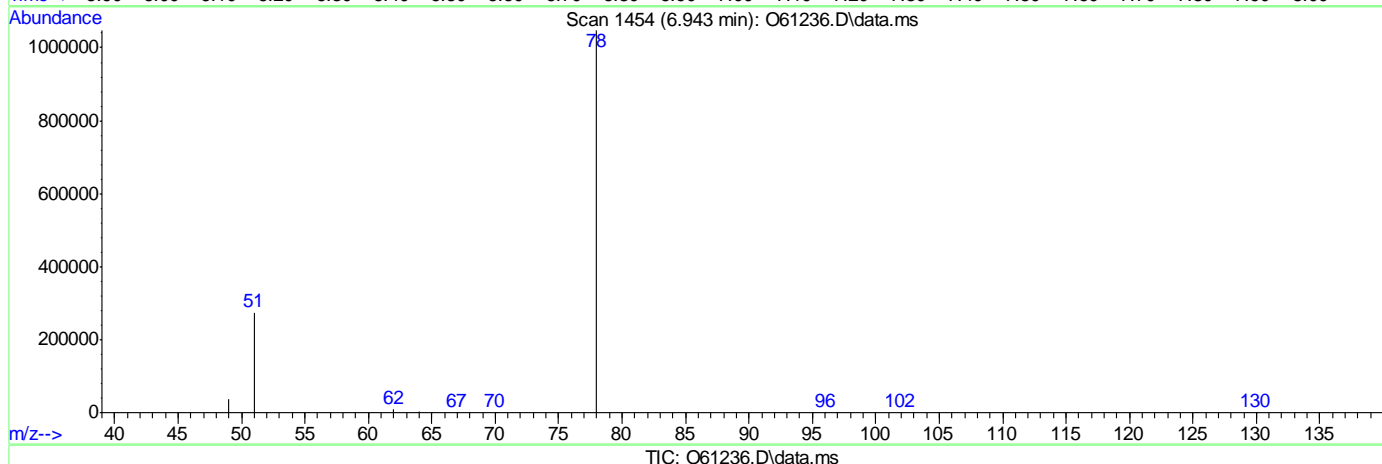
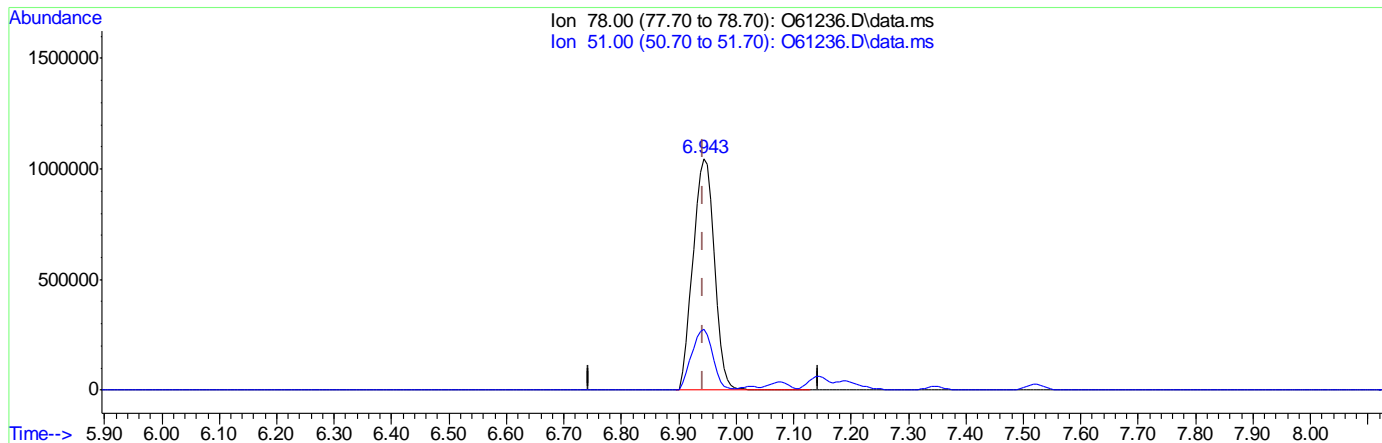
7.6.7.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (-0.000) 21.23ug/L

response 2686132

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

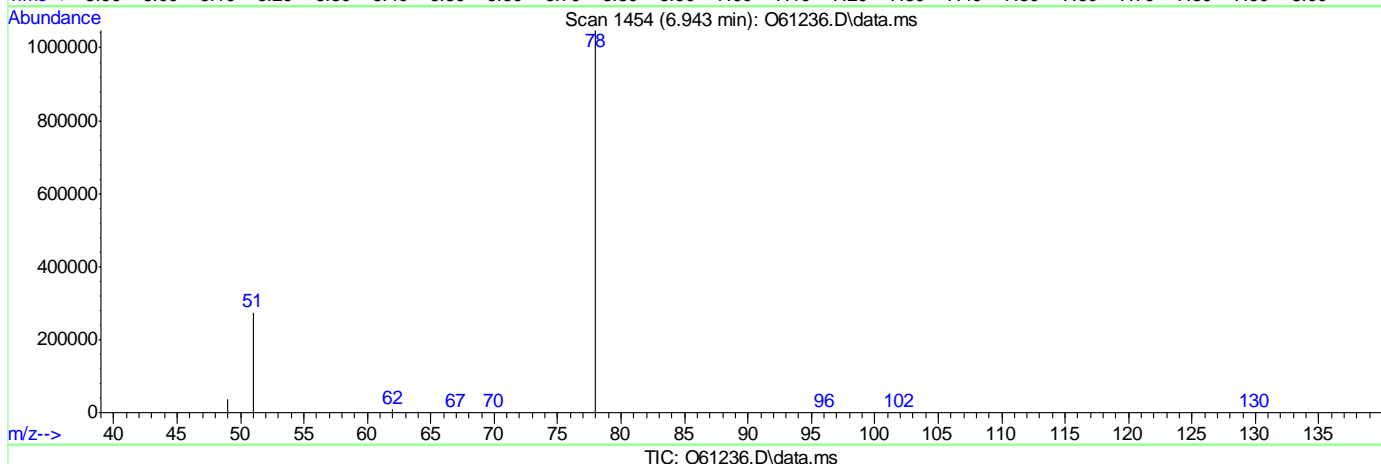
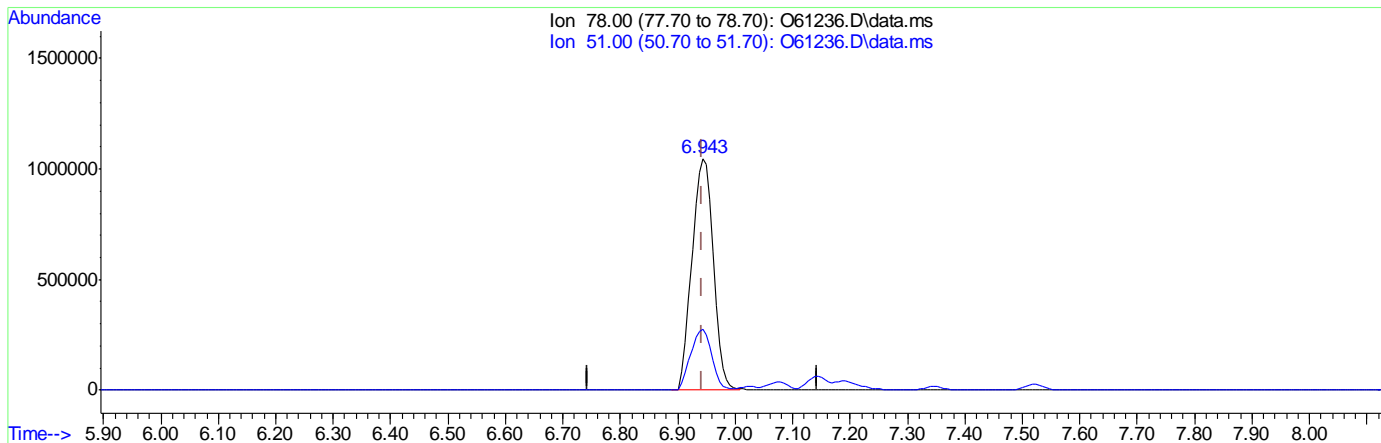
7.6.7.2  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (-0.000) 21.11ug/L m  
 response 2670290

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

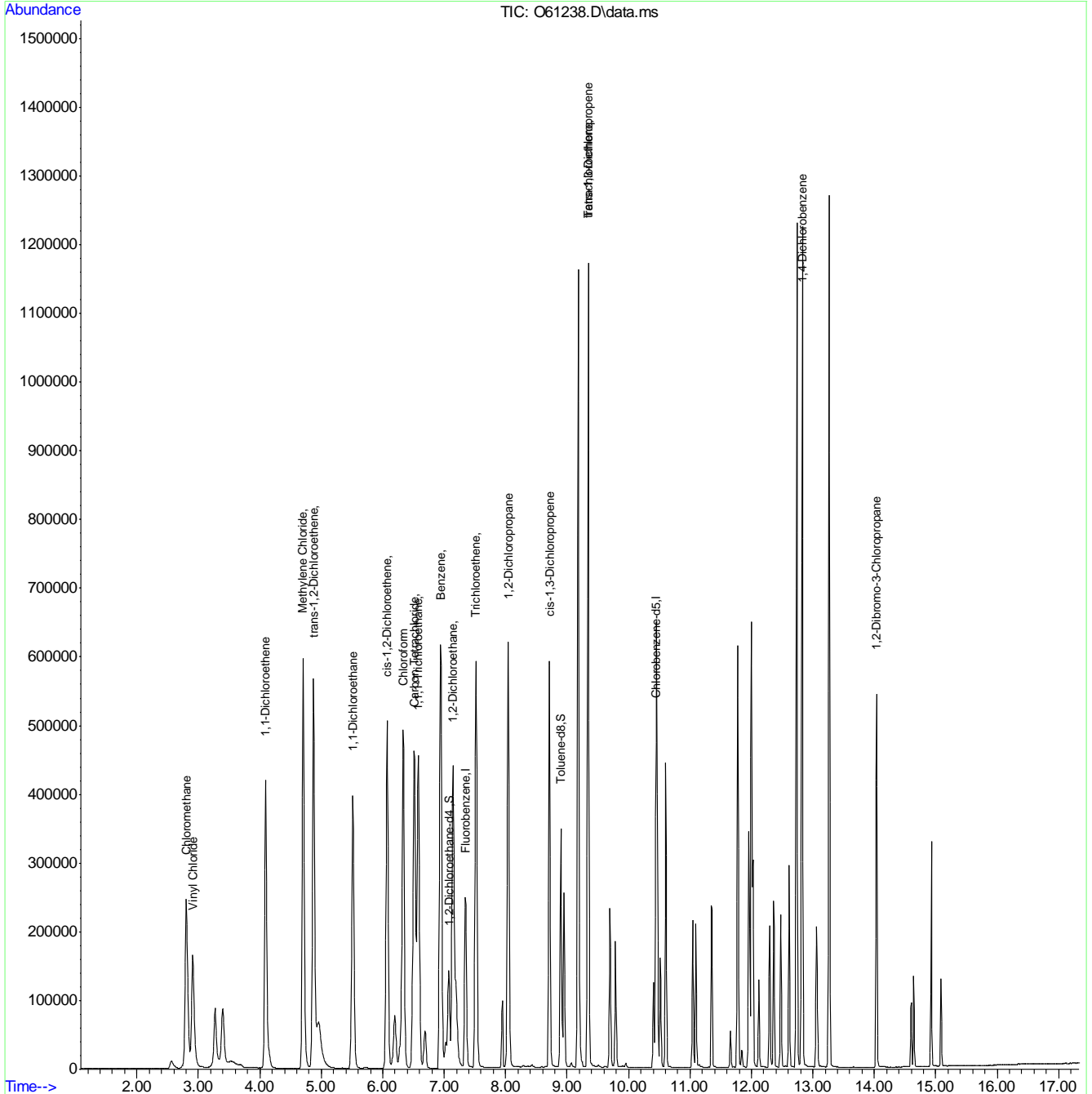
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	392529	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	305591	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	151418	4.78	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	95.60%	
19) Toluene-d8	8.896	98	341369	4.95	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.905	62	359054	8.49	ug/L	98
3) Chloromethane	2.803	50	507353	8.27	ug/L	94
4) 1,1-Dichloroethene	4.092	61	507491	9.35	ug/L	91
5) Methylene Chloride	4.703	49	755284	8.89	ug/L	99
6) trans-1,2-Dichloroethene	4.869	61	597300	9.53	ug/L	84
7) 1,1-Dichloroethane	5.514	63	694519	9.54	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	347499	9.66	ug/L	85
9) Chloroform	6.333	83	585017	9.34	ug/L	97
10) Carbon Tetrachloride	6.511	117	409874	9.60	ug/L	88
11) 1,1,1-Trichloroethane	6.576	97	455396	9.43	ug/L	94
12) Benzene	6.943	78	1221796	10.10	ug/L	100
14) 1,2-Dichloroethane	7.139	62	581587	9.82	ug/L	90
15) Trichloroethene	7.518	95	365705	9.91	ug/L	88
16) 1,2-Dichloropropane	8.043	63	408716	10.10	ug/L	92
17) cis-1,3-Dichloropropene	8.711	75	449848	10.71	ug/L	94
20) trans-1,3-Dichloropropene	9.343	75	443597	11.04	ug/L	95
21) Tetrachloroethene	9.343	166	323529	9.60	ug/L	99
22) 1,4-Dichlorobenzene	12.827	146	714911	10.10	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	131759	10.13	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

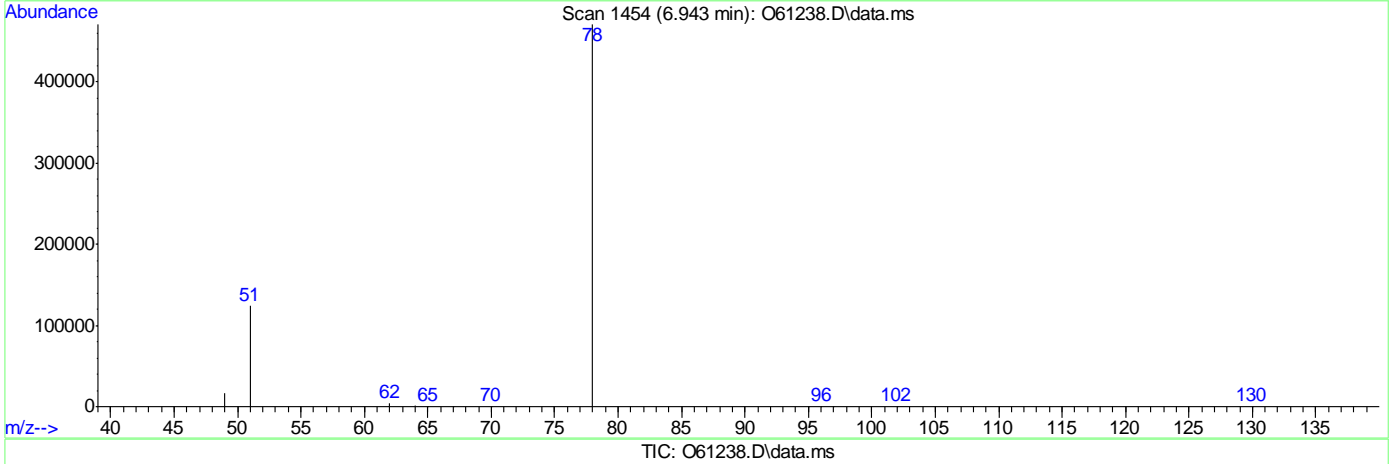
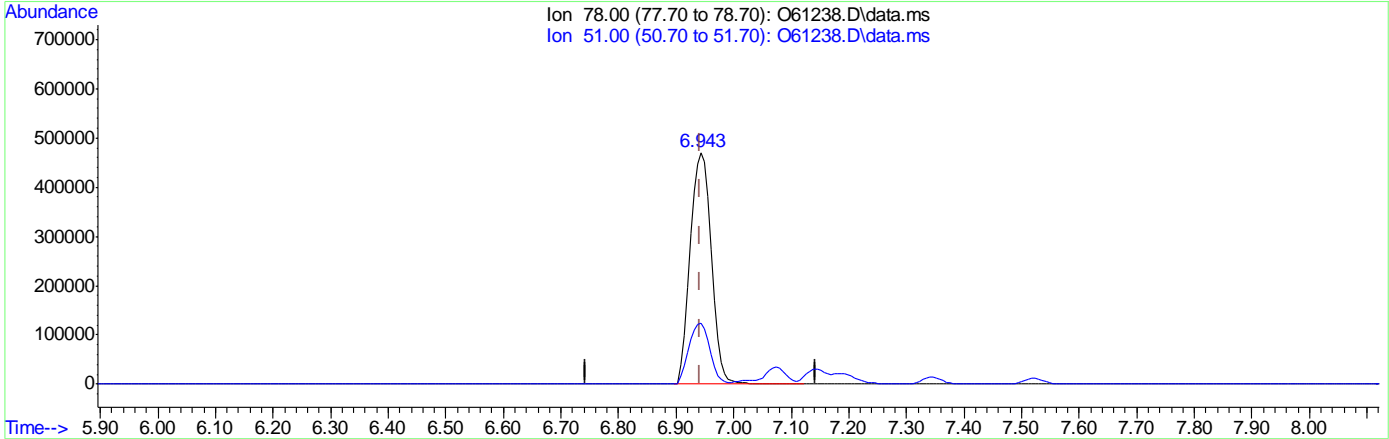


8'9'7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.10ug/L  
 response 1221796

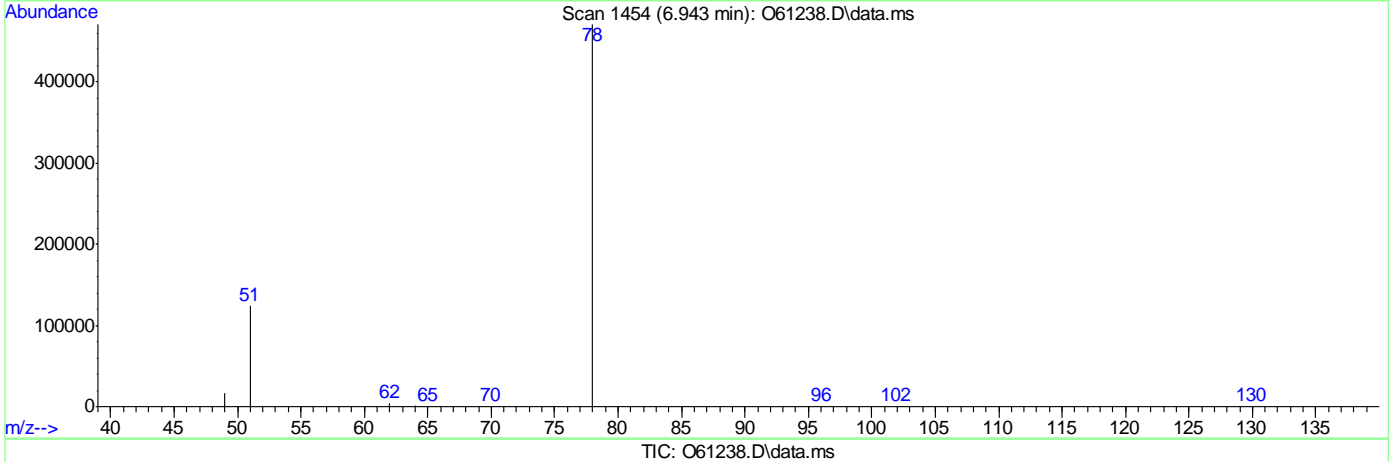
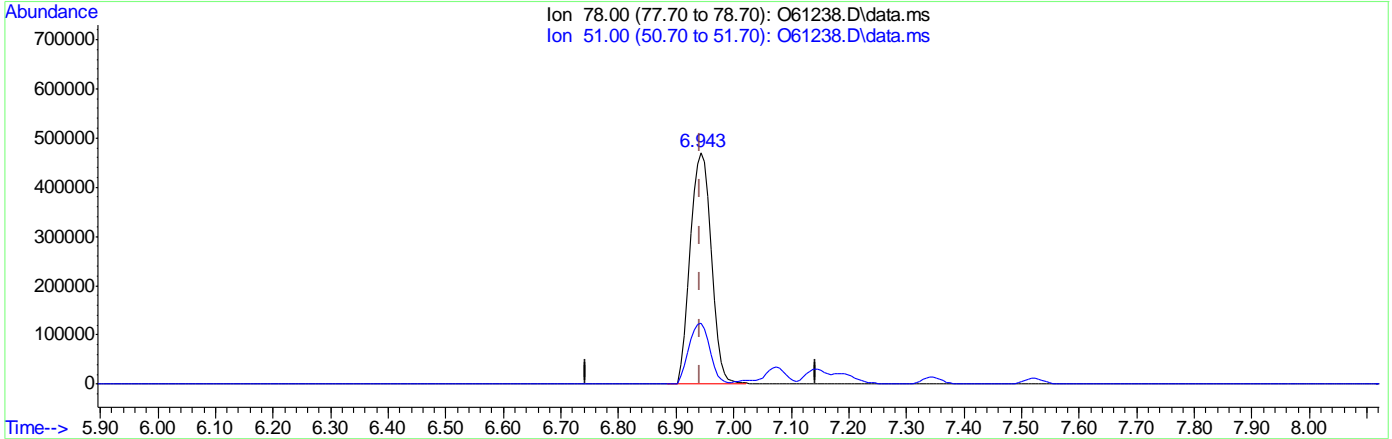
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00

7.68.1  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.04ug/L m  
 response 1214827

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61356.d  
 Acq On : 14 Sep 2020 9:12 am  
 Operator : akarig  
 Sample : cc2356-5  
 Misc : MS47193,VO2361,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 22:20:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	353456	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	295261	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	144033	5.05	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	101.00%		
19) Toluene-d8	8.892	98	292185	4.39	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	87.80%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	334001	8.80	ug/L		97
3) Chloromethane	2.795	50	465953	8.46	ug/L		94
4) 1,1-Dichloroethene	4.081	61	457972	9.38	ug/L		93
5) Methylene Chloride	4.692	49	667970	8.73	ug/L		95
6) trans-1,2-Dichloroethene	4.862	61	494376	8.76	ug/L		86
7) 1,1-Dichloroethane	5.503	63	562993	8.59	ug/L		99
8) cis-1,2-Dichloroethene	6.060	96	258892	7.99	ug/L		84
9) Chloroform	6.321	83	466471	8.27	ug/L		95
10) Carbon Tetrachloride	6.505	117	344528	8.96	ug/L		88
11) 1,1,1-Trichloroethane	6.570	97	365370	8.41	ug/L		91
12) Benzene	6.937	78	890245m	8.17	ug/L		
14) 1,2-Dichloroethane	7.133	62	433984	8.14	ug/L		94
15) Trichloroethene	7.506	95	273769	8.24	ug/L		88
16) 1,2-Dichloropropane	8.036	63	312661	8.58	ug/L		94
17) cis-1,3-Dichloropropene	8.704	75	300584	7.95	ug/L		99
20) trans-1,3-Dichloropropene	9.338	75	293943	7.57	ug/L		100
21) Tetrachloroethene	9.338	166	267837	8.25	ug/L		100
22) 1,4-Dichlorobenzene	12.821	146	554807	8.11	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.032	75	102130	8.22	ug/L		86

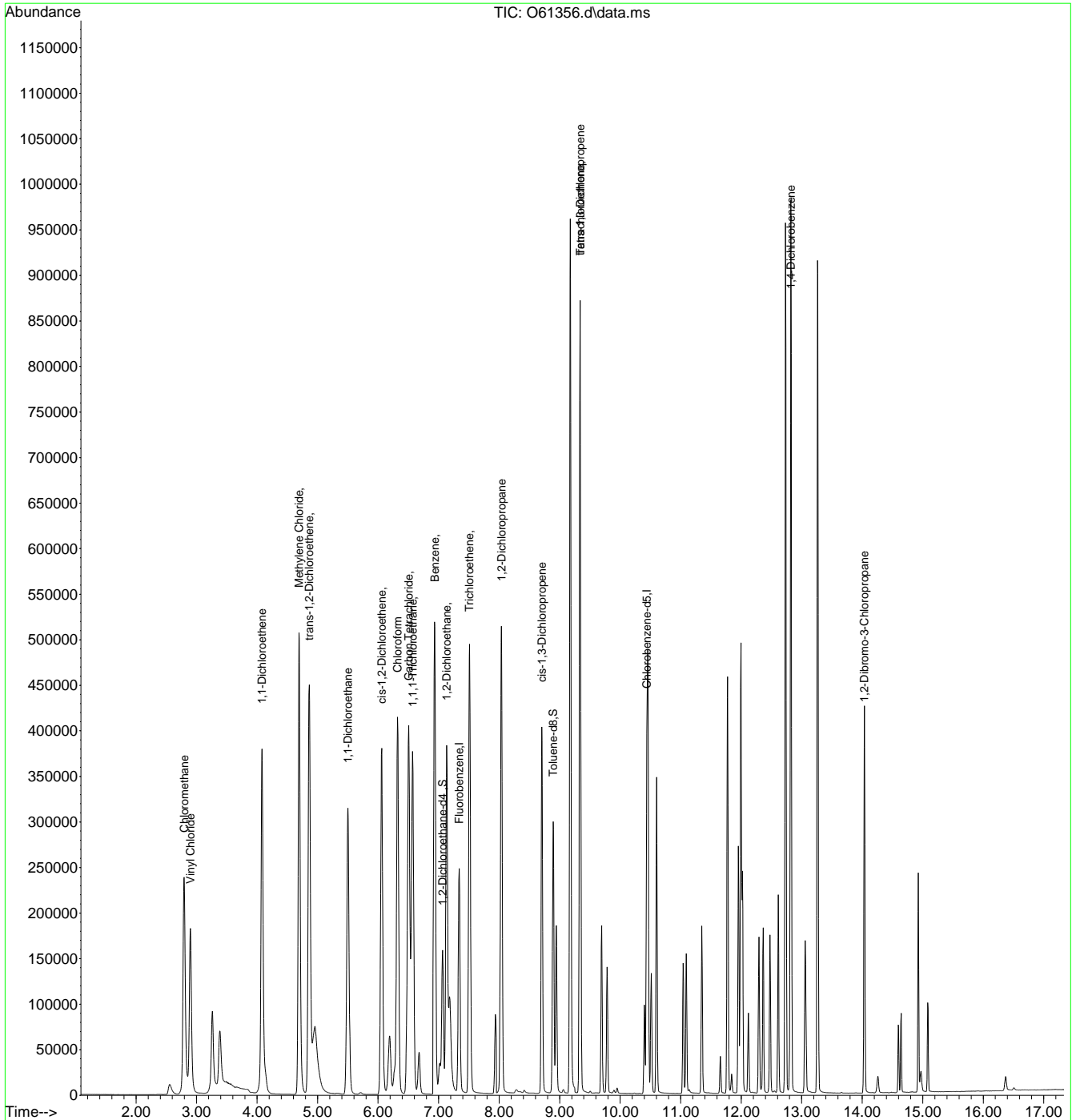
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61356.d  
 Acq On : 14 Sep 2020 9:12 am  
 Operator : akarig  
 Sample : cc2356-5  
 Misc : MS47193,VO2361,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 22:20:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2361-CC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61356.D      **Analyst approved:** 09/14/20 22:48 Edessa Sumagaysay  
**Injection Time:** 09/14/20 09:12      **Supervisor approved:** 09/15/20 11:08 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.9.1

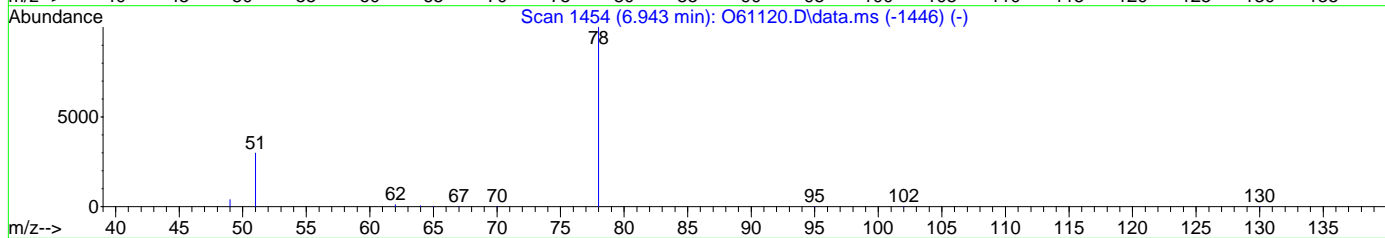
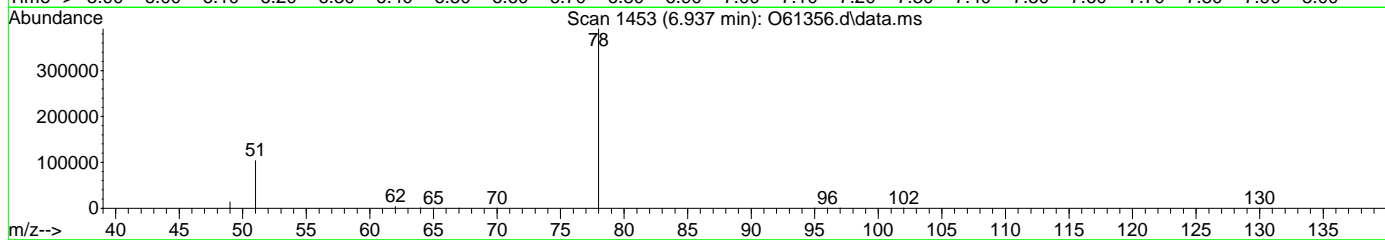
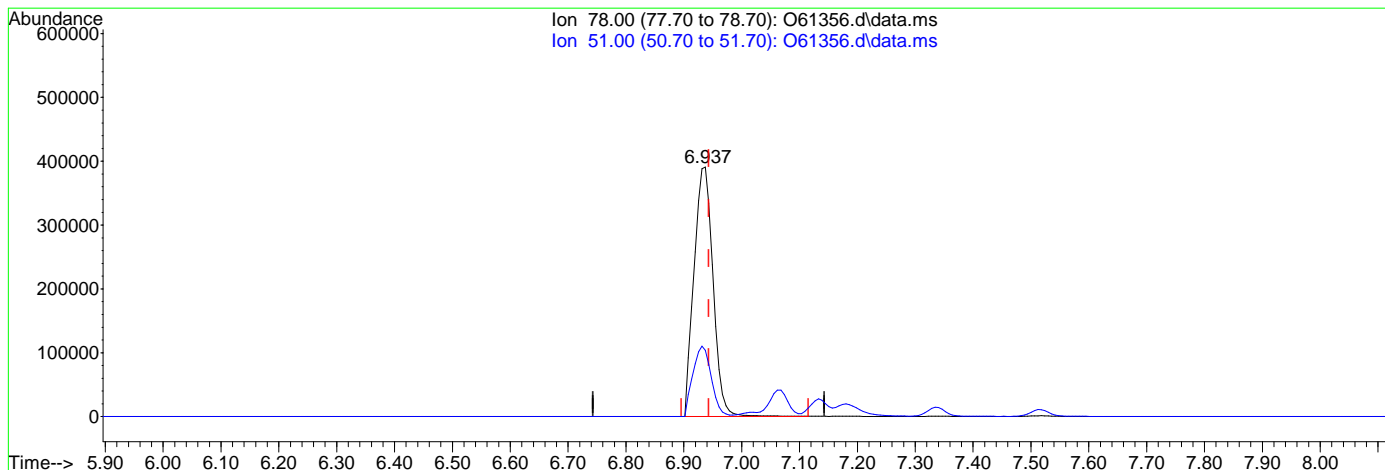
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61356.d  
 Acq On : 14 Sep 2020 9:12 am  
 Operator : akarig  
 Sample : cc2356-5  
 Misc : MS47193,VO2361,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 22:18:57 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 8.21ug/L

response 895564

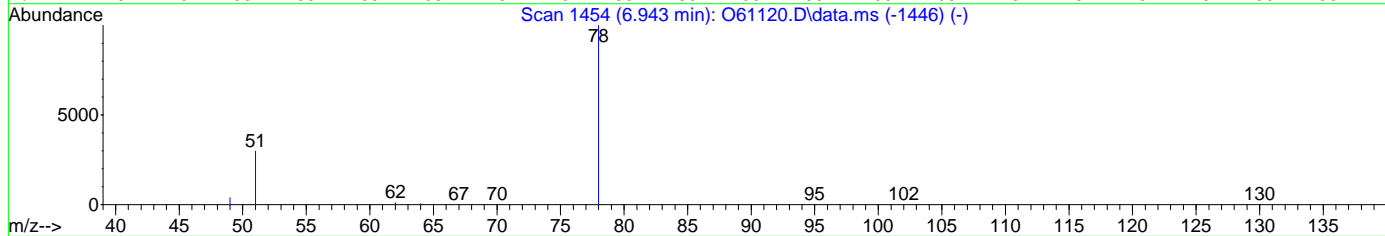
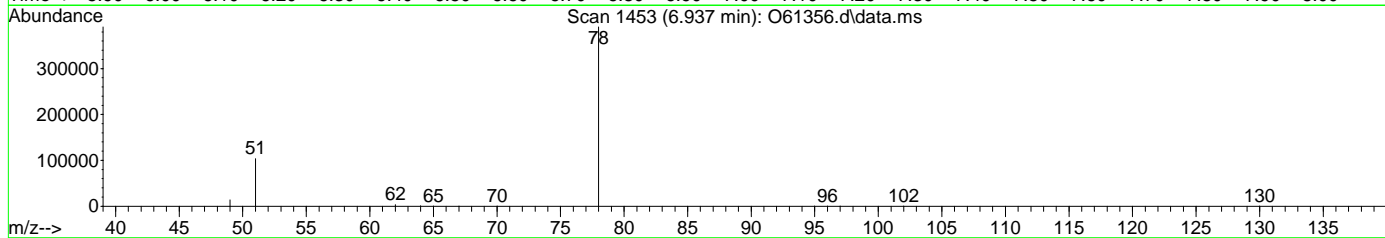
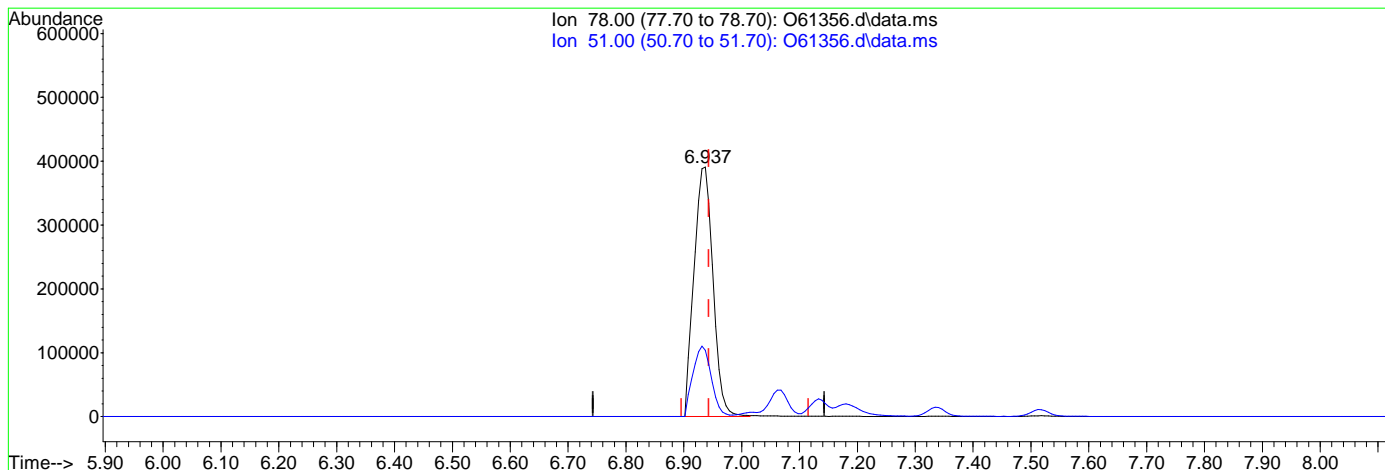
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.53
0.00	0.00	0.00
0.00	0.00	0.00

7.6.9.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61356.d  
 Acq On : 14 Sep 2020 9:12 am  
 Operator : akarig  
 Sample : cc2356-5  
 Misc : MS47193,VO2361,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 22:18:57 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 8.17ug/L m

response 890245

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.53
0.00	0.00	0.00
0.00	0.00	0.00

7.69.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61373.d  
 Acq On : 14 Sep 2020 5:05 pm  
 Operator : akarig  
 Sample : ecc2356-5  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 14 22:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	309629	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	261813	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	123971	4.96	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.20%		
19) Toluene-d8	8.896	98	248865	4.22	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	84.40%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	332150	10.15	ug/L		98
3) Chloromethane	2.799	50	485558	10.39	ug/L		94
4) 1,1-Dichloroethene	4.088	61	440698	10.30	ug/L		93
5) Methylene Chloride	4.699	49	701444	10.46	ug/L		93
6) trans-1,2-Dichloroethene	4.869	61	472793	9.57	ug/L		86
7) 1,1-Dichloroethane	5.510	63	548943	9.56	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	247700	8.73	ug/L #		81
9) Chloroform	6.333	83	458385	9.28	ug/L		95
10) Carbon Tetrachloride	6.510	117	313261	9.30	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	348692	9.16	ug/L		90
12) Benzene	6.943	78	886666m	9.29	ug/L		
14) 1,2-Dichloroethane	7.139	62	434877	9.31	ug/L		94
15) Trichloroethene	7.512	95	270596	9.29	ug/L		86
16) 1,2-Dichloropropane	8.040	63	300335	9.41	ug/L		95
17) cis-1,3-Dichloropropene	8.711	75	275685	8.32	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	278693	8.10	ug/L		99
21) Tetrachloroethene	9.337	166	265986	9.22	ug/L		94
22) 1,4-Dichlorobenzene	12.827	146	571831	9.43	ug/L		96
23) 1,2-Dibromo-3-Chloropr...	14.037	75	82753	7.54	ug/L #		79

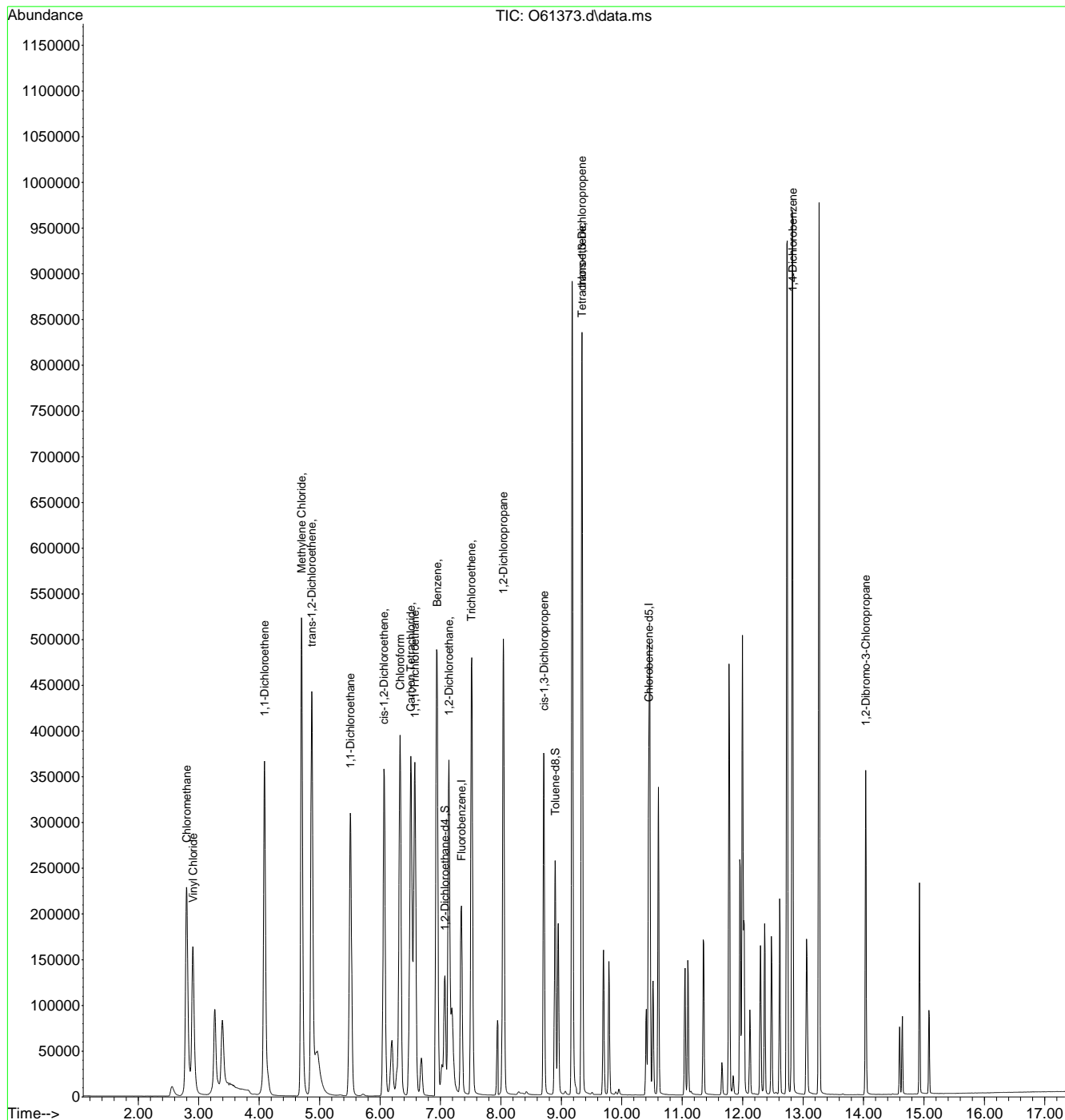
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61373.d  
 Acq On : 14 Sep 2020 5:05 pm  
 Operator : akarig  
 Sample : ecc2356-5  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 14 22:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.6.10  
7



# Manual Integration Approval Summary

**Sample Number:** VO2361-ECC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61373.D      **Analyst approved:** 09/14/20 22:48 Edessa Sumagaysay  
**Injection Time:** 09/14/20 17:05      **Supervisor approved:** 09/15/20 11:08 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

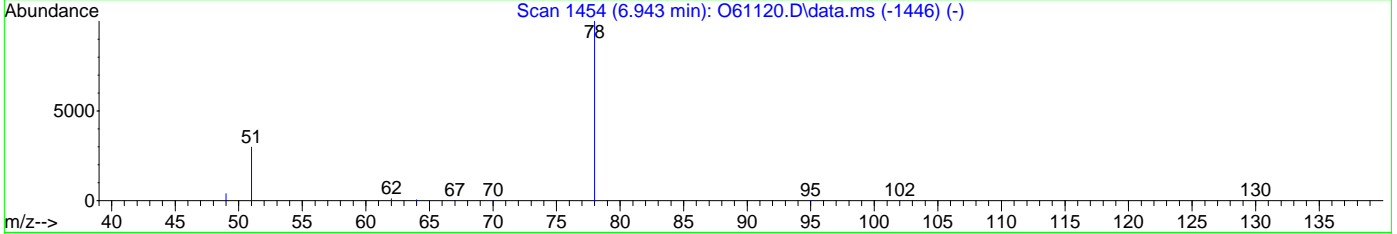
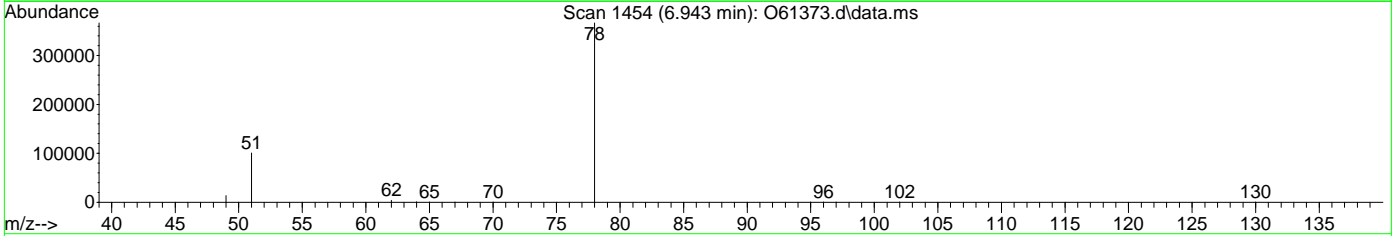
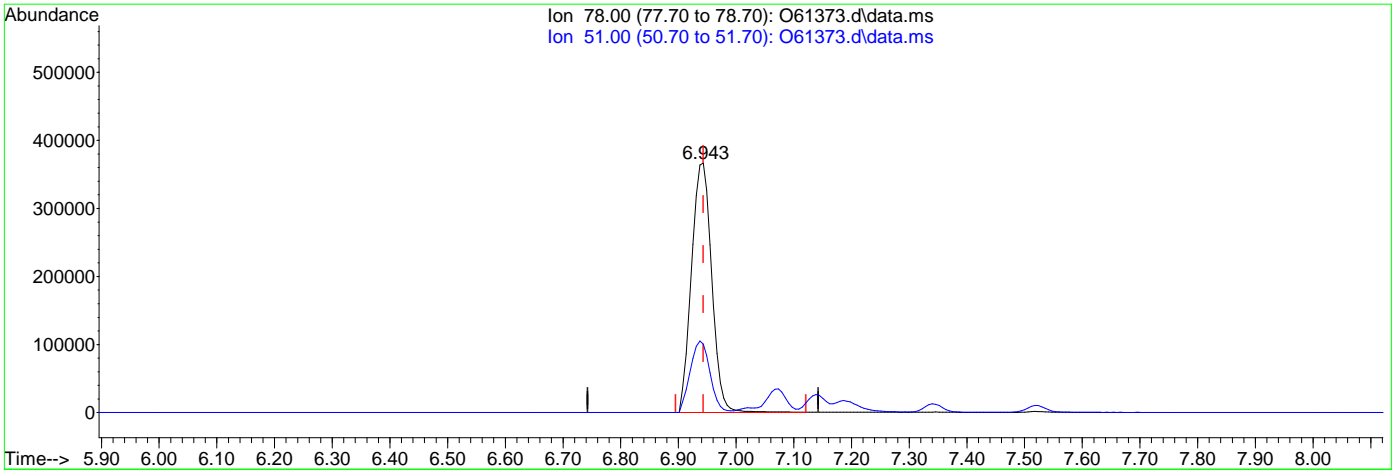
7.6.10.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61373.d  
 Acq On : 14 Sep 2020 5:05 pm  
 Operator : akarig  
 Sample : ecc2356-5  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 14 22:19:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



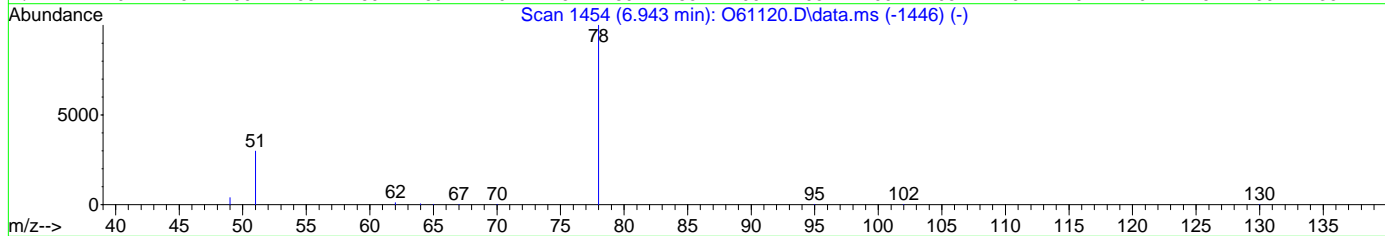
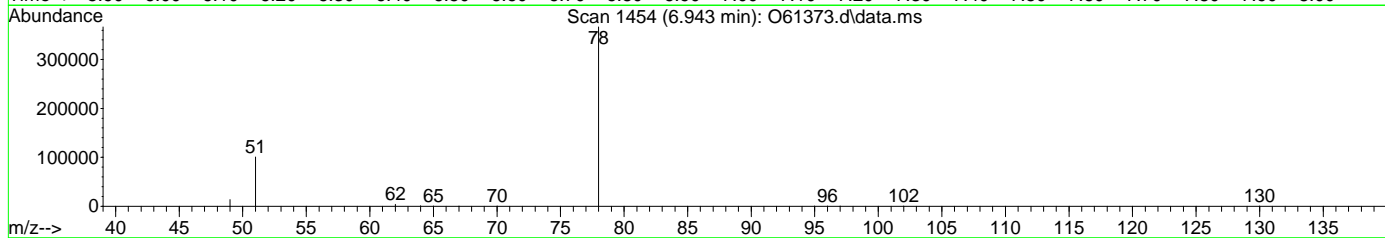
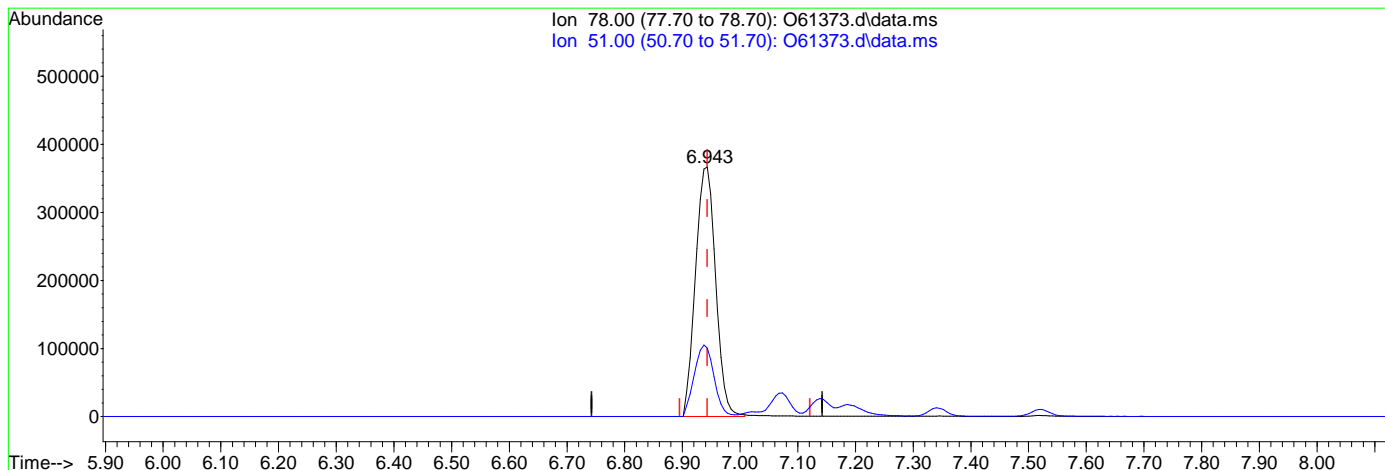
(12) Benzene ( )  
 6.943min (0.000) 9.37ug/L  
 response 894521

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\edessas\09-15-2020\vo2361\  
 Data File : O61373.d  
 Acq On : 14 Sep 2020 5:05 pm  
 Operator : akarig  
 Sample : ecc2356-5  
 Misc : MS47208,VO2361,,,,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 14 22:19:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (0.000) 9.29ug/L m

response 886666

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.42
0.00	0.00	0.00
0.00	0.00	0.00

7.6.10.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61386.D  
 Acq On : 15 Sep 2020 3:46 pm  
 Operator : AKARIG  
 Sample : IC2362-1 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 08:53:35 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.337	96	229016	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	173372	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	107070	5.52	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	110.40%	
19) Toluene-d8	8.892	98	187671	5.30	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	106.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.908	62	3497	0.12	ug/L	86
3) Chloromethane	2.806	50	10347	0.23	ug/L	81
4) 1,1-Dichloroethene	4.089	61	3760	0.11	ug/L	89
5) Methylene Chloride	4.703	49	23924	0.48	ug/L	93
6) trans-1,2-Dichloroethene	4.869	61	4368	0.11	ug/L	85
7) 1,1-Dichloroethane	5.506	63	4952	0.11	ug/L	83
8) cis-1,2-Dichloroethene	6.065	96	2174	0.11	ug/L	85
9) Chloroform	6.326	83	4561	0.12	ug/L #	80
10) Carbon Tetrachloride	6.504	117	2997	0.12	ug/L	78
11) 1,1,1-Trichloroethane	6.573	97	2970	0.10	ug/L	91
12) Benzene	6.939	78	7546	0.10	ug/L	98
14) 1,2-Dichloroethane	7.130	62	3849	0.11	ug/L	91
15) Trichloroethene	7.513	95	2272	0.11	ug/L	79
16) 1,2-Dichloropropane	8.039	63	2508	0.10	ug/L	90
17) cis-1,3-Dichloropropene	8.707	75	2020	0.09	ug/L	92
20) trans-1,3-Dichloropropene	9.341	75	1765	0.09	ug/L	97
21) Tetrachloroethene	9.341	166	2221	0.12	ug/L	97
22) 1,4-Dichlorobenzene	12.824	146	3401	0.09	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.035	75	694	0.11	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

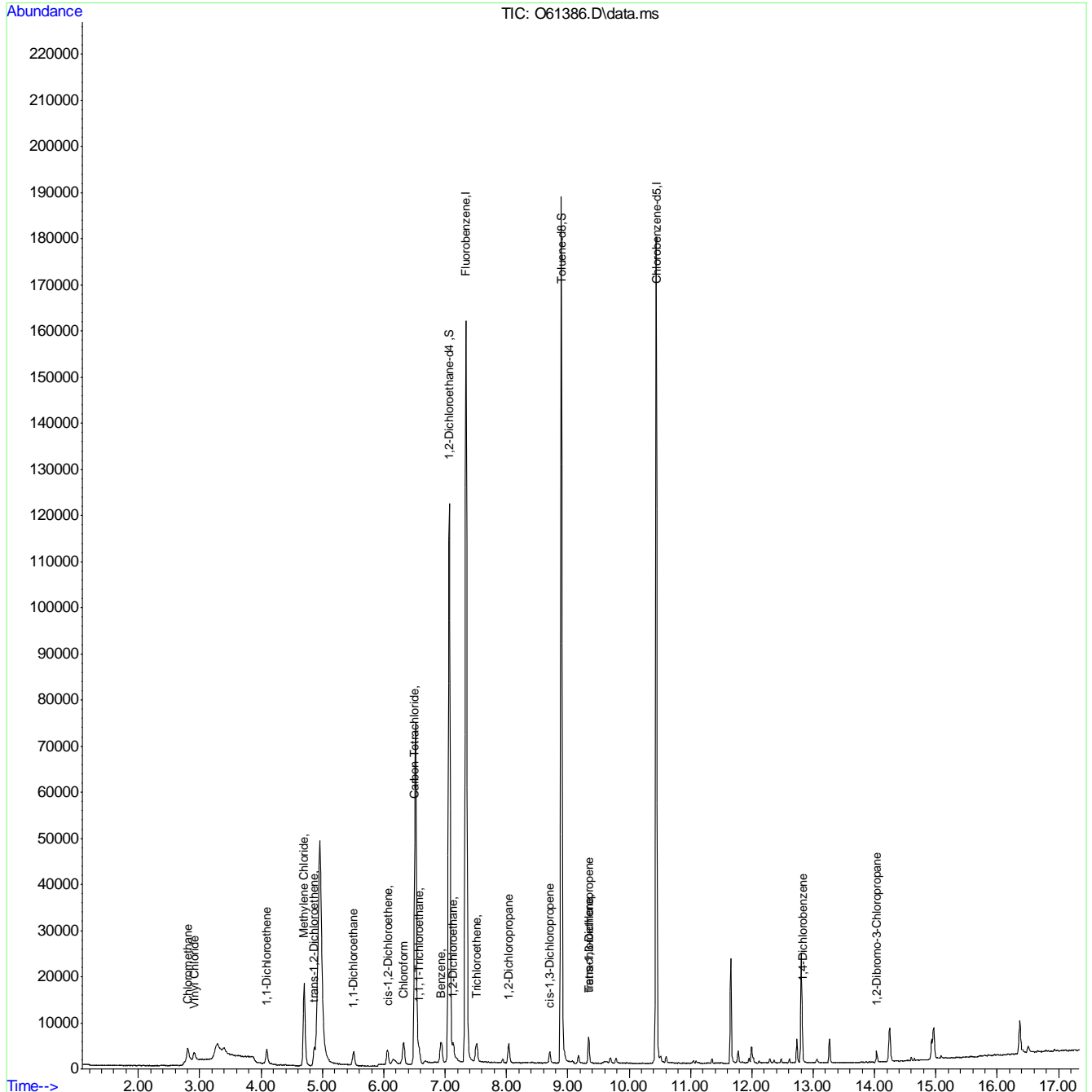


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61386.D  
 Acq On : 15 Sep 2020 3:46 pm  
 Operator : AKARIG  
 Sample : IC2362-1  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 16 08:53:35 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61387.D  
 Acq On : 15 Sep 2020 4:06 pm  
 Operator : AKARIG  
 Sample : IC2362-2 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 08:53:38 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.345	96	226011	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	176974	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	103896	5.42	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	108.40%	
19) Toluene-d8	8.896	98	184137	5.10	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	102.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.905	62	17348	0.59	ug/L	95
3) Chloromethane	2.803	50	29260	0.66	ug/L	90
4) 1,1-Dichloroethene	4.089	61	18331	0.54	ug/L	94
5) Methylene Chloride	4.700	49	45451	0.92	ug/L	92
6) trans-1,2-Dichloroethene	4.869	61	21650	0.57	ug/L	86
7) 1,1-Dichloroethane	5.510	63	23843	0.54	ug/L	97
8) cis-1,2-Dichloroethene	6.065	96	10308	0.52	ug/L	85
9) Chloroform	6.332	83	20374	0.55	ug/L	91
10) Carbon Tetrachloride	6.510	117	13730	0.53	ug/L	86
11) 1,1,1-Trichloroethane	6.580	97	15577	0.54	ug/L	91
12) Benzene	6.939	78	35661	0.50	ug/L	97
14) 1,2-Dichloroethane	7.138	62	18394	0.54	ug/L	95
15) Trichloroethene	7.513	95	10698	0.51	ug/L	84
16) 1,2-Dichloropropane	8.039	63	12209	0.52	ug/L	97
17) cis-1,3-Dichloropropene	8.707	75	9816	0.47	ug/L	97
20) trans-1,3-Dichloropropene	9.347	75	9088	0.45	ug/L	94
21) Tetrachloroethene	9.341	166	11087	0.57	ug/L	99
22) 1,4-Dichlorobenzene	12.824	146	17956	0.46	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.035	75	3183	0.51	ug/L	97

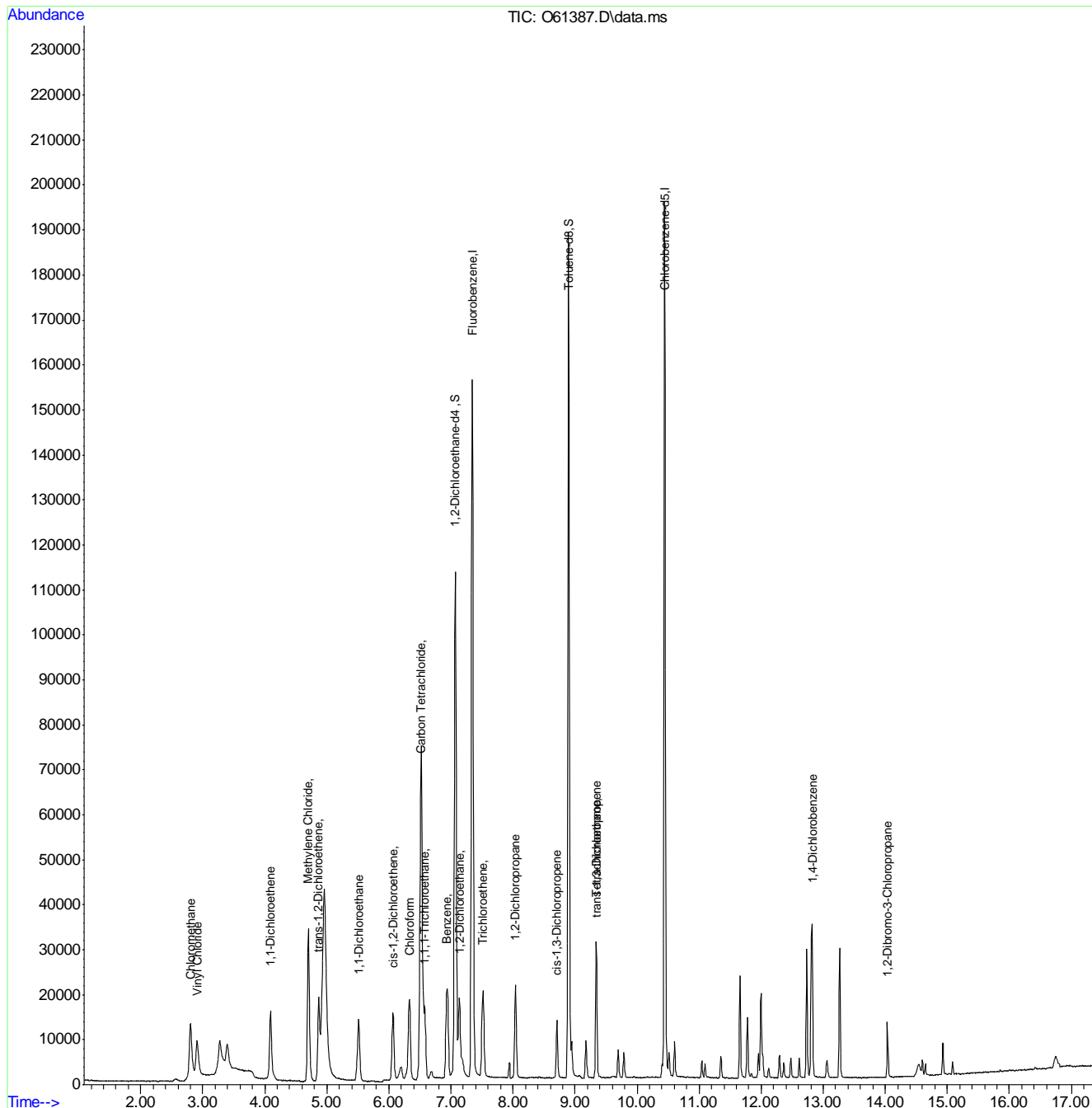
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61387.D  
 Acq On : 15 Sep 2020 4:06 pm  
 Operator : AKARIG  
 Sample : IC2362-2  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 16 08:53:38 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration



7.6.12  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61388.D  
 Acq On : 15 Sep 2020 4:26 pm  
 Operator : AKARIG  
 Sample : IC2362-3 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 08:55:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.344	96	245280	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	188641	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.077	65	105125m	5.06	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	101.20%	
19) Toluene-d8	8.899	98	191462	4.97	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.40%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.916	62	66611	2.13	ug/L	96
3) Chloromethane	2.810	50	99140	2.10	ug/L	94
4) 1,1-Dichloroethene	4.096	61	72659	1.98	ug/L	92
5) Methylene Chloride	4.707	49	137024	2.56	ug/L	91
6) trans-1,2-Dichloroethene	4.877	61	81338	1.98	ug/L	85
7) 1,1-Dichloroethane	5.518	63	96687	2.02	ug/L	98
8) cis-1,2-Dichloroethene	6.071	96	41351	1.92	ug/L	84
9) Chloroform	6.332	83	80171	1.98	ug/L	93
10) Carbon Tetrachloride	6.510	117	54794	1.96	ug/L	87
11) 1,1,1-Trichloroethane	6.580	97	63074	2.00	ug/L	91
12) Benzene	6.947	78	147883	1.93	ug/L	99
14) 1,2-Dichloroethane	7.138	62	75583	2.03	ug/L	94
15) Trichloroethene	7.513	95	43463	1.92	ug/L	89
16) 1,2-Dichloropropane	8.043	63	50197	1.97	ug/L	97
17) cis-1,3-Dichloropropene	8.711	75	41268	1.80	ug/L	98
20) trans-1,3-Dichloropropene	9.346	75	40215	1.87	ug/L	98
21) Tetrachloroethene	9.341	166	43932	2.13	ug/L	97
22) 1,4-Dichlorobenzene	12.824	146	84276	2.05	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.035	75	13753	2.03	ug/L	97

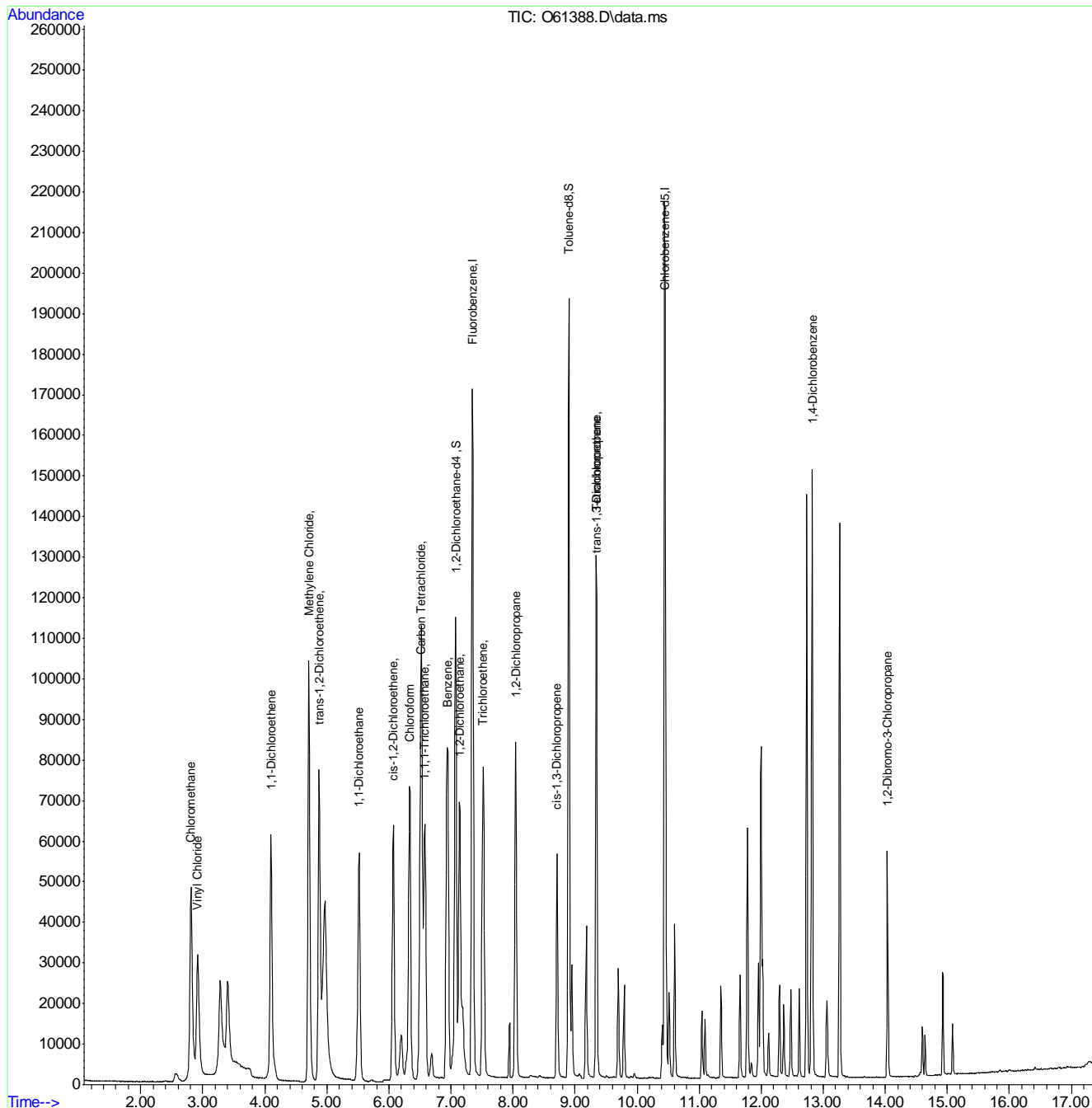
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61388.D  
 Acq On : 15 Sep 2020 4:26 pm  
 Operator : AKARIG  
 Sample : IC2362-3  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 16 08:55:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration



7.6.13  
7

# Manual Integration Approval Summary

**Sample Number:** VO2362-IC2362      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61388.D      **Analyst approved:** 09/16/20 09:09 Melissa Mangual  
**Injection Time:** 09/15/20 16:26      **Supervisor approved:** 09/16/20 16:03 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichloroethane-D4	17060-07-0		7.08	Overlapping peak

7.6.13.1

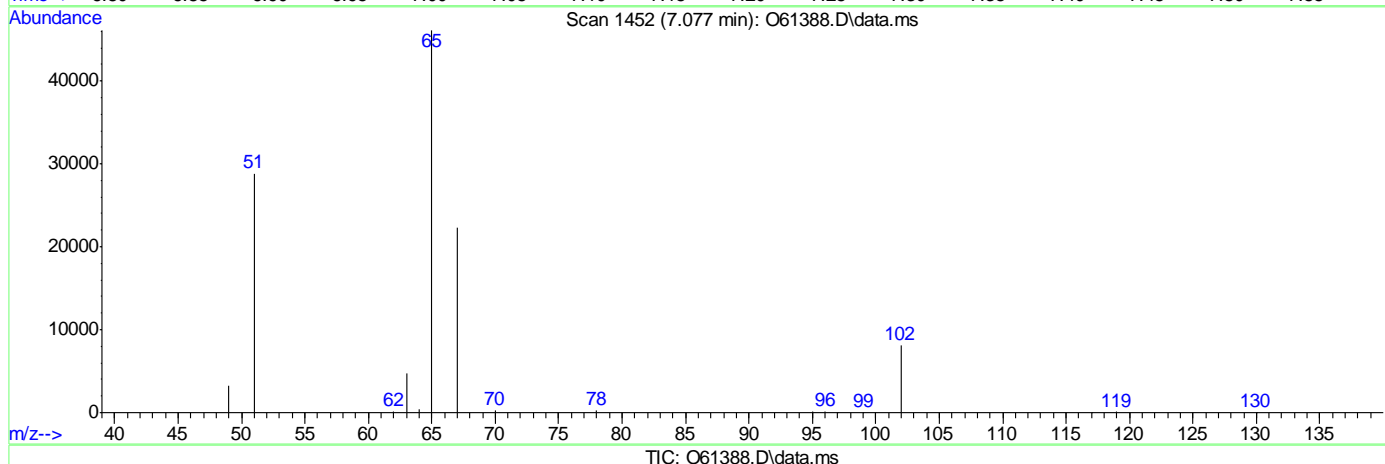
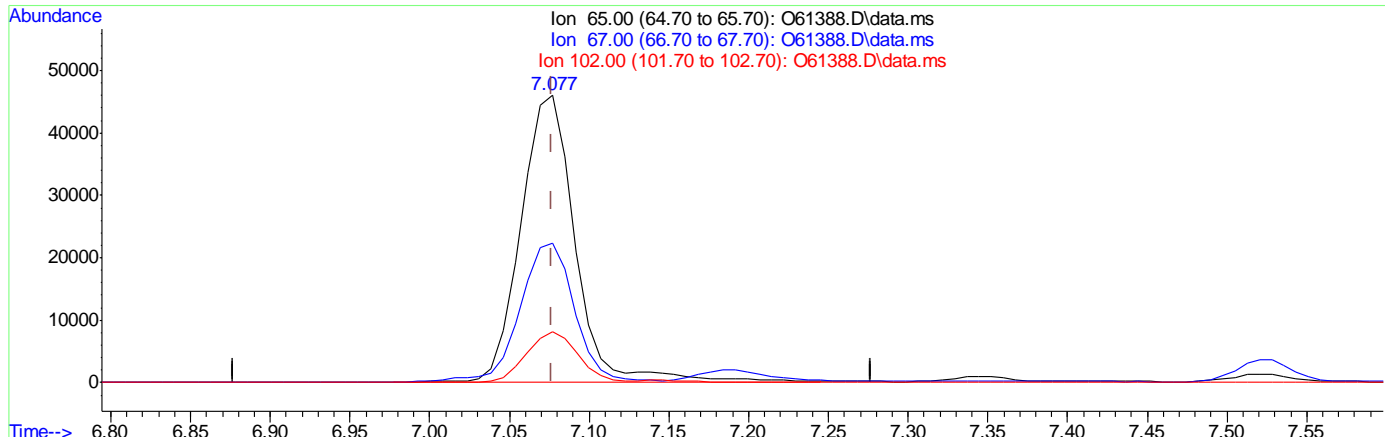
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61388.D  
 Acq On : 15 Sep 2020 4:26 pm  
 Operator : AKARIG  
 Sample : IC2362-3  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 16 08:53:40 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.077min (-0.000) 5.26ug/L

response 109386

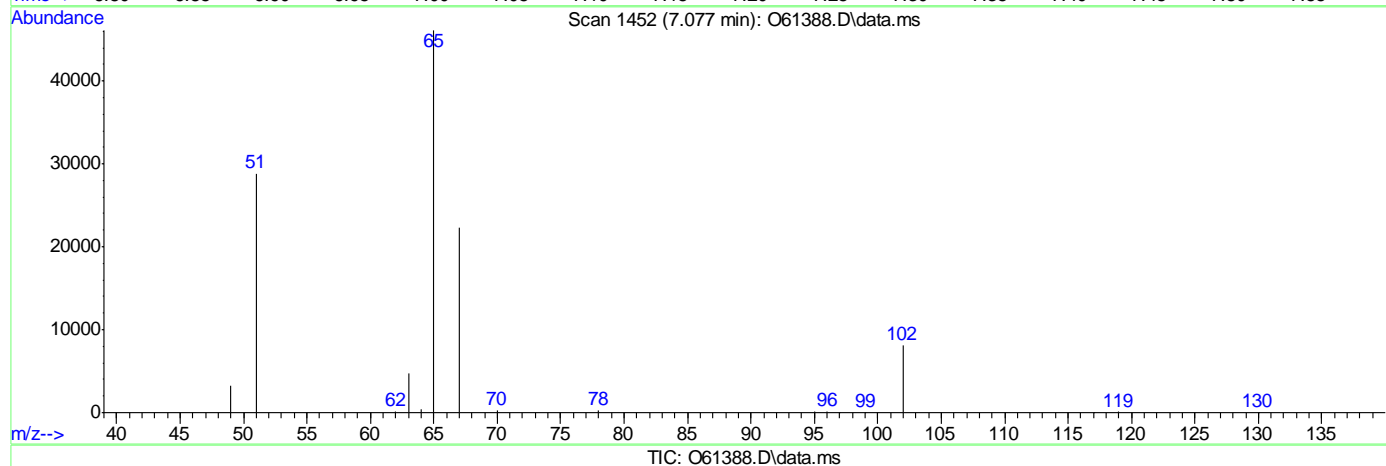
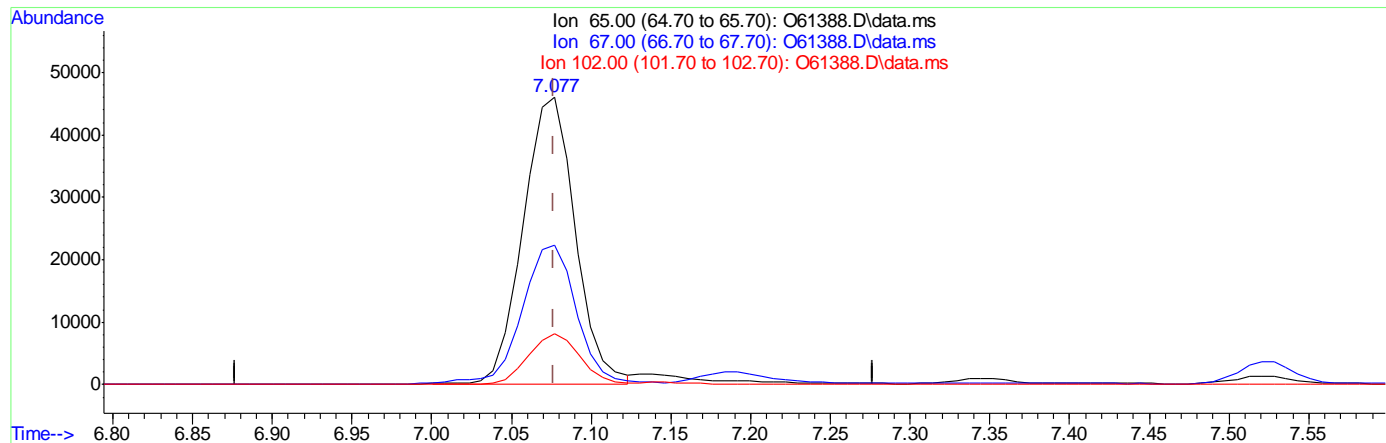
Ion	Exp%	Act%
65.00	100	100
67.00	53.50	48.32
102.00	16.10	17.60
0.00	0.00	0.00

7.6.13.2  
7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61388.D  
 Acq On : 15 Sep 2020 4:26 pm  
 Operator : AKARIG  
 Sample : IC2362-3 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 08:53:40 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration



(13) 1,2-Dichloroethane-d4 (S)

7.077min (-0.000) 5.06ug/L m

response 105125

Ion	Exp%	Act%
65.00	100	100
67.00	53.50	48.47
102.00	16.10	17.69
0.00	0.00	0.00



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61389.D  
 Acq On : 15 Sep 2020 4:47 pm  
 Operator : AKARIG  
 Sample : IC2362-4 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 08:53:42 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.344	96	272056	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.442	117	219792	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.077	65	112029	4.86	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	97.20%	
19) Toluene-d8	8.896	98	215371	4.80	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	96.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.912	62	155626	4.63	ug/L	98
3) Chloromethane	2.806	50	227154	4.53	ug/L	94
4) 1,1-Dichloroethene	4.092	61	198148	4.86	ug/L	92
5) Methylene Chloride	4.703	49	328922	5.55	ug/L	92
6) trans-1,2-Dichloroethene	4.873	61	219652	4.85	ug/L	85
7) 1,1-Dichloroethane	5.514	63	257348	4.85	ug/L	99
8) cis-1,2-Dichloroethene	6.071	96	114203	4.77	ug/L	84
9) Chloroform	6.332	83	214196	4.76	ug/L	94
10) Carbon Tetrachloride	6.510	117	145432	4.70	ug/L	87
11) 1,1,1-Trichloroethane	6.580	97	170526	4.87	ug/L	92
12) Benzene	6.939	78	412770	4.88	ug/L	96
14) 1,2-Dichloroethane	7.138	62	201620	4.88	ug/L	95
15) Trichloroethene	7.513	95	121414	4.84	ug/L	91
16) 1,2-Dichloropropane	8.043	63	137312	4.89	ug/L	95
17) cis-1,3-Dichloropropene	8.711	75	121847	4.80	ug/L	99
20) trans-1,3-Dichloropropene	9.344	75	121859	4.87	ug/L	98
21) Tetrachloroethene	9.338	166	121414	5.07	ug/L	96
22) 1,4-Dichlorobenzene	12.822	146	243863	5.08	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	39546	4.92	ug/L #	77

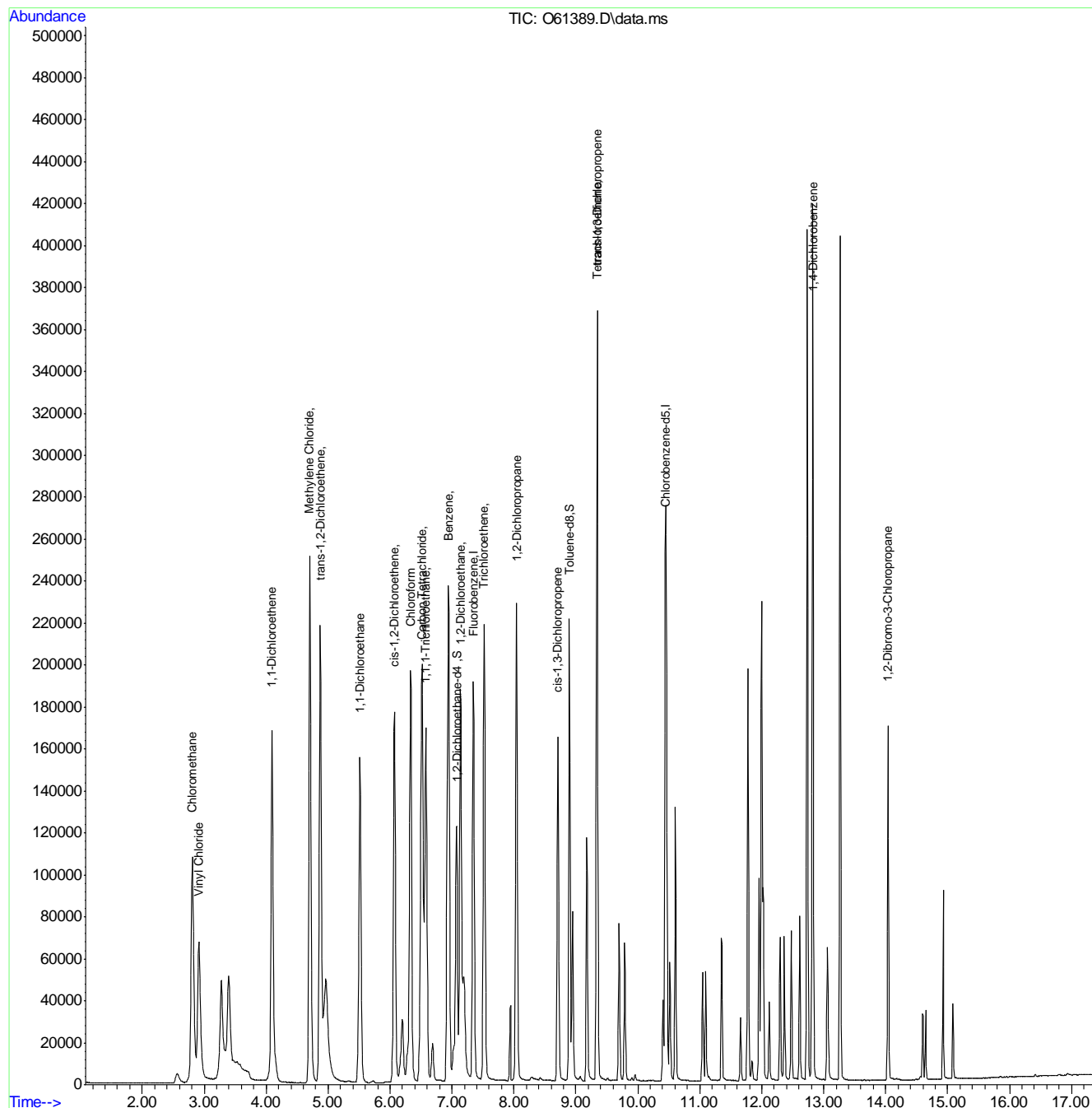
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
Data File : O61389.D  
Acq On : 15 Sep 2020 4:47 pm  
Operator : AKARIG  
Sample : IC2362-4  
Misc : MS47193,VO2362,,,,,  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 16 08:53:42 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
Quant Title : Standard Methods 6200B  
QLast Update : Tue Sep 15 18:43:50 2020  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61390.D  
 Acq On : 15 Sep 2020 5:07 pm  
 Operator : AKARIG  
 Sample : ICC2362-5 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 08:53:44 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.345	96	305864	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	250755	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.077	65	122900	4.74	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	94.80%	
19) Toluene-d8	8.899	98	247079	4.83	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	96.60%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.912	62	348299	9.89	ug/L	98
3) Chloromethane	2.810	50	493935	9.66	ug/L	94
4) 1,1-Dichloroethene	4.096	61	453746	9.90	ug/L	92
5) Methylene Chloride	4.707	49	695268	10.43	ug/L	94
6) trans-1,2-Dichloroethene	4.873	61	509355	10.15	ug/L	84
7) 1,1-Dichloroethane	5.514	63	581508	9.75	ug/L	99
8) cis-1,2-Dichloroethene	6.071	96	268026	9.96	ug/L	83
9) Chloroform	6.332	83	480741	9.51	ug/L	95
10) Carbon Tetrachloride	6.510	117	338356	9.72	ug/L	87
11) 1,1,1-Trichloroethane	6.580	97	394231	10.02	ug/L	92
12) Benzene	6.947	78	948911	10.11	ug/L	100
14) 1,2-Dichloroethane	7.138	62	452639	9.74	ug/L	94
15) Trichloroethene	7.513	95	281405	9.99	ug/L	90
16) 1,2-Dichloropropane	8.043	63	311763	10.06	ug/L	94
17) cis-1,3-Dichloropropene	8.711	75	299309	10.49	ug/L	99
20) trans-1,3-Dichloropropene	9.346	75	299356	10.49	ug/L	99
21) Tetrachloroethene	9.341	166	273381	10.09	ug/L	96
22) 1,4-Dichlorobenzene	12.824	146	568582	10.38	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.035	75	94565	9.95	ug/L	94

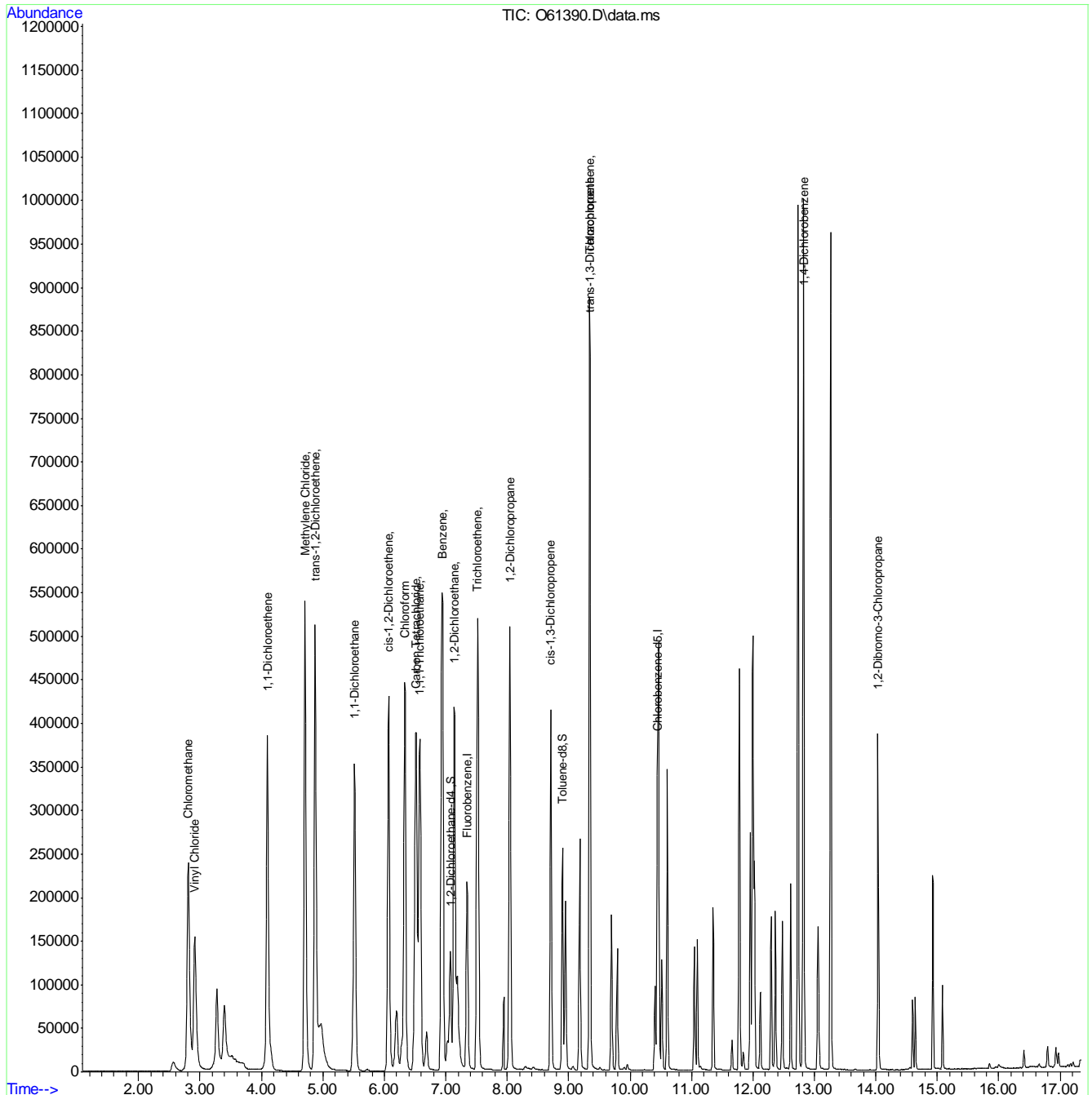
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61390.D  
 Acq On : 15 Sep 2020 5:07 pm  
 Operator : AKARIG  
 Sample : ICC2362-5  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 16 08:53:44 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration



7.6.15  
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## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61391.D  
 Acq On : 15 Sep 2020 5:28 pm  
 Operator : AKARIG  
 Sample : IC2362-6 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 08:53:46 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.344	96	339428	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.442	117	277837	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.077	65	133857	4.65	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	93.00%	
19) Toluene-d8	8.896	98	274683	4.84	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	96.80%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.916	62	559724	15.58	ug/L	98
3) Chloromethane	2.806	50	774953	15.43	ug/L	94
4) 1,1-Dichloroethene	4.092	61	714734	14.06	ug/L	92
5) Methylene Chloride	4.703	49	1072294	14.50	ug/L	95
6) trans-1,2-Dichloroethene	4.873	61	821569	14.95	ug/L	86
7) 1,1-Dichloroethane	5.514	63	930777	14.07	ug/L	99
8) cis-1,2-Dichloroethene	6.071	96	442982	14.83	ug/L	84
9) Chloroform	6.332	83	773258	13.78	ug/L	95
10) Carbon Tetrachloride	6.510	117	548399	14.20	ug/L	87
11) 1,1,1-Trichloroethane	6.580	97	638534	14.62	ug/L	92
12) Benzene	6.939	78	1544743	15.02	ug/L	95
14) 1,2-Dichloroethane	7.138	62	730206	14.16	ug/L	94
15) Trichloroethene	7.513	95	464178	14.84	ug/L	91
16) 1,2-Dichloropropane	8.043	63	508572	15.05	ug/L	92
17) cis-1,3-Dichloropropene	8.711	75	517869	16.35	ug/L	97
20) trans-1,3-Dichloropropene	9.344	75	515811	16.32	ug/L	97
21) Tetrachloroethene	9.338	166	438978	14.74	ug/L	94
22) 1,4-Dichlorobenzene	12.822	146	967634	15.94	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.032	75	165116	15.15	ug/L	85

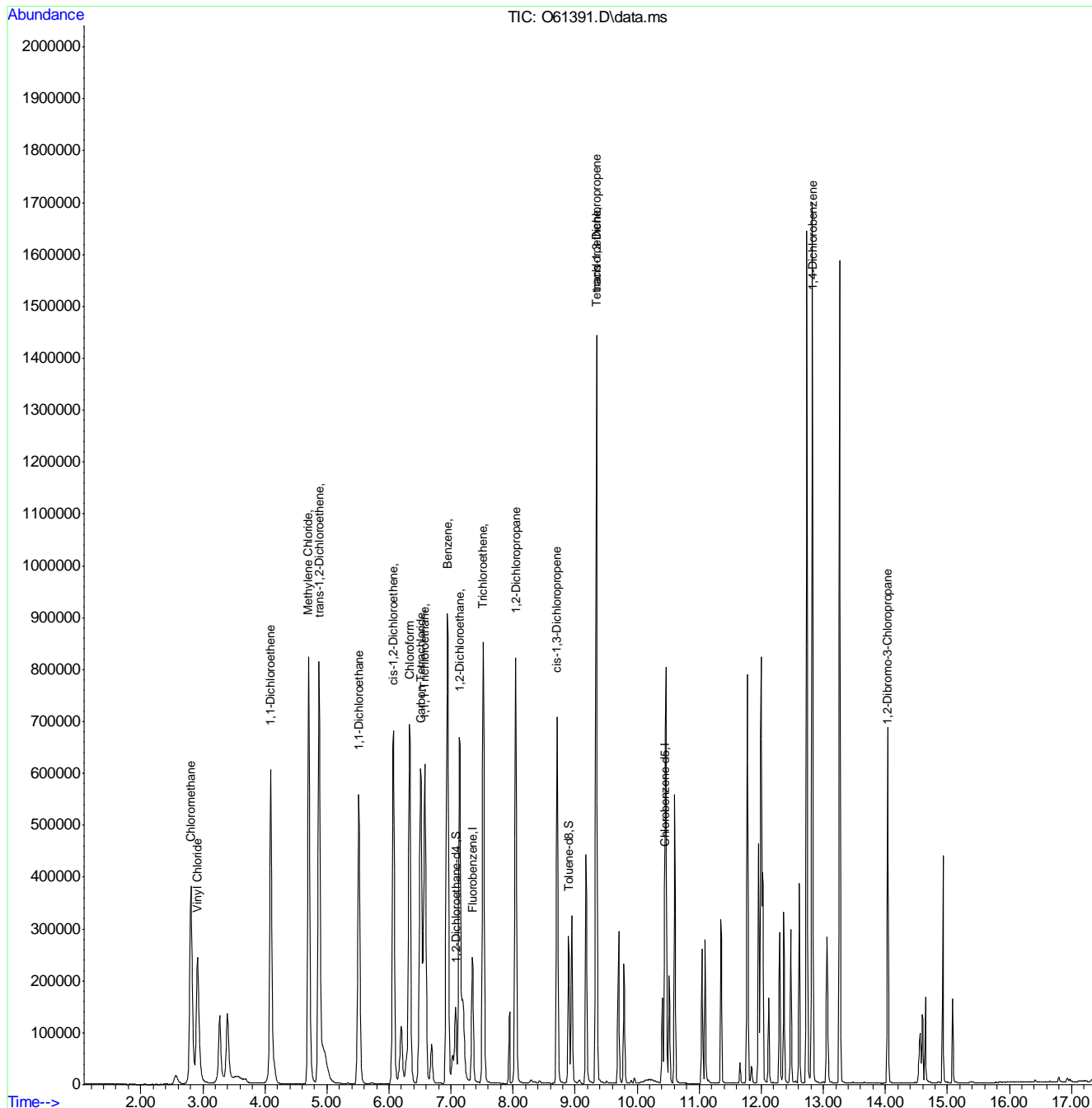
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61391.D  
 Acq On : 15 Sep 2020 5:28 pm  
 Operator : AKARIG  
 Sample : IC2362-6  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 16 08:53:46 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61392.D  
 Acq On : 15 Sep 2020 5:48 pm  
 Operator : AKARIG  
 Sample : IC2362-7 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 08:53:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.344	96	392640	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.444	117	306840	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.069	65	151155	4.54	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	90.80%	
19) Toluene-d8	8.899	98	322677	5.15	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	103.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.904	62	767009	19.70	ug/L	98
3) Chloromethane	2.803	50	1045788	20.12	ug/L	93
4) 1,1-Dichloroethene	4.085	61	1097413	18.66	ug/L	92
5) Methylene Chloride	4.703	49	1553383	18.16	ug/L	97
6) trans-1,2-Dichloroethene	4.869	61	1253396	20.00	ug/L	85
7) 1,1-Dichloroethane	5.510	63	1396794	18.25	ug/L	99
8) cis-1,2-Dichloroethene	6.065	96	682667	19.76	ug/L #	80
9) Chloroform	6.332	83	1161212	17.89	ug/L	96
10) Carbon Tetrachloride	6.510	117	841059	18.83	ug/L	88
11) 1,1,1-Trichloroethane	6.573	97	980373	19.40	ug/L	93
12) Benzene	6.939	78	2346508	19.97	ug/L	98
14) 1,2-Dichloroethane	7.138	62	1091602	18.30	ug/L	92
15) Trichloroethene	7.513	95	705476	19.50	ug/L	90
16) 1,2-Dichloropropane	8.043	63	767297	19.97	ug/L	91
17) cis-1,3-Dichloropropene	8.711	75	824147	22.49	ug/L	95
20) trans-1,3-Dichloropropene	9.346	75	806009	23.09	ug/L	94
21) Tetrachloroethene	9.341	166	655729	20.12	ug/L	96
22) 1,4-Dichlorobenzene	12.824	146	1385286	20.67	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.035	75	247490	19.93	ug/L	97

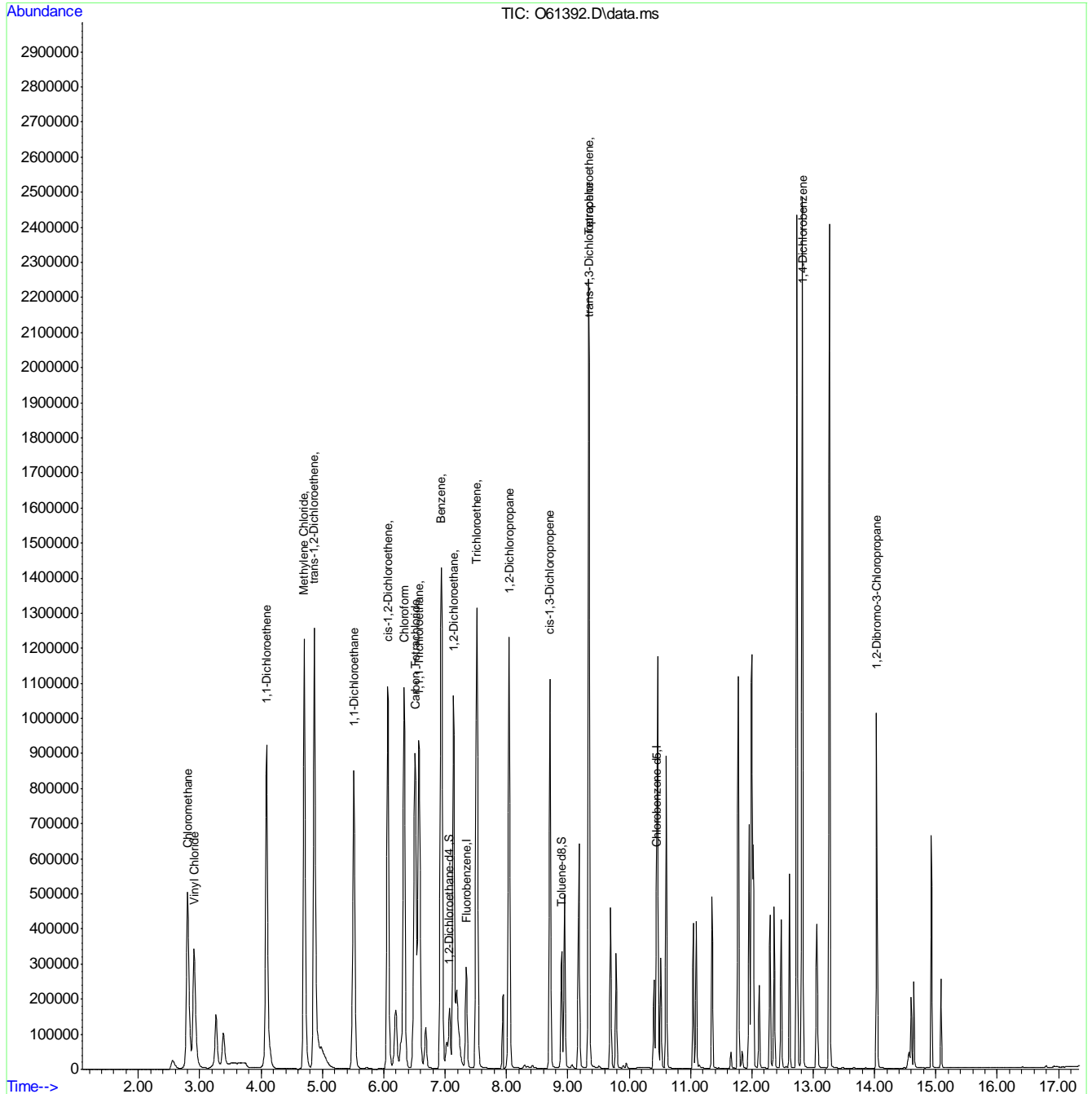
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : 061392.D  
 Acq On : 15 Sep 2020 5:48 pm  
 Operator : AKARIG  
 Sample : IC2362-7  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 16 08:53:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Tue Sep 15 18:43:50 2020  
 Response via : Initial Calibration



7.6.17  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61394.D  
 Acq On : 15 Sep 2020 6:29 pm  
 Operator : AKARIG  
 Sample : ICV2362-5 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 16 09:05:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

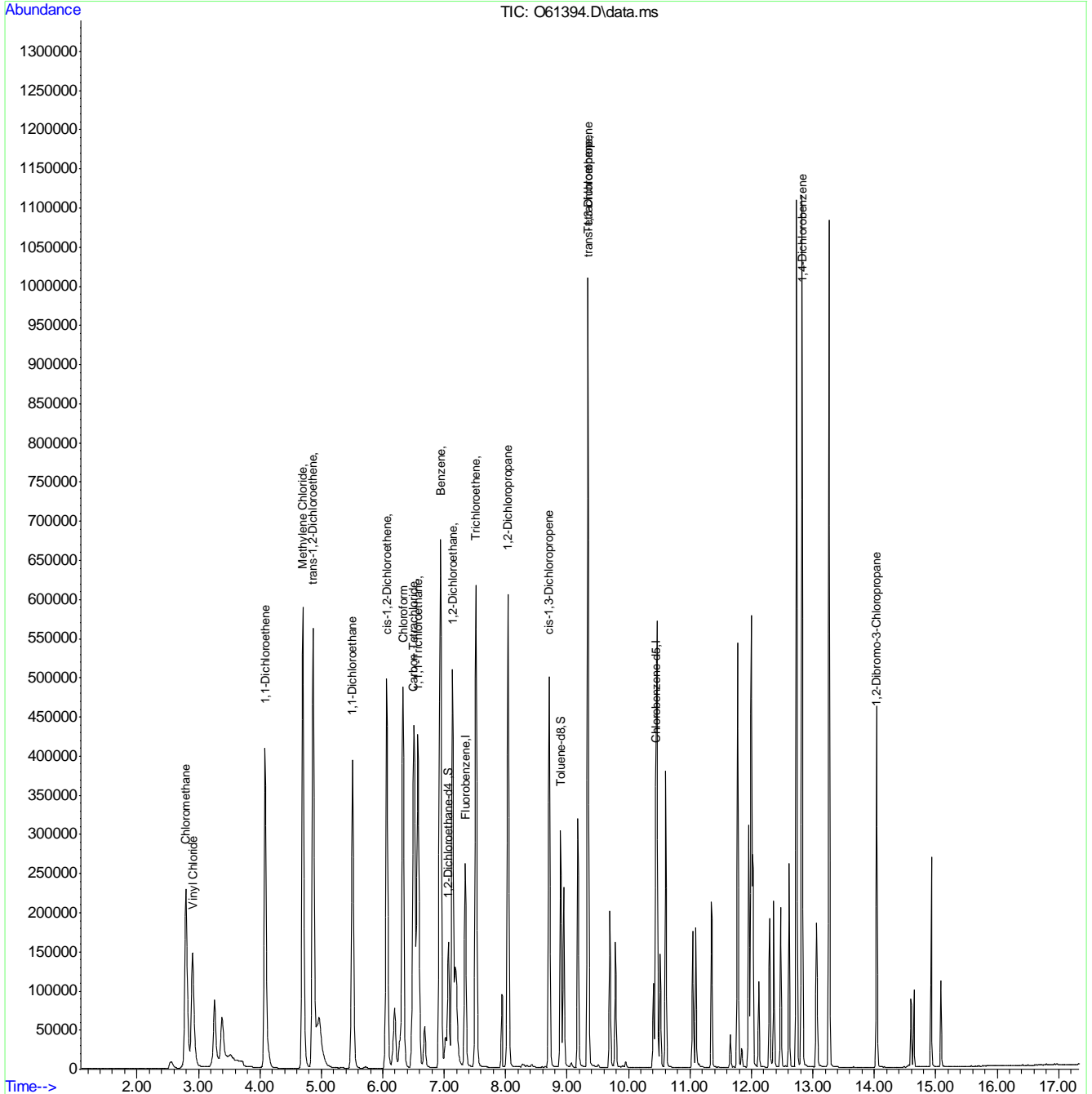
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.344	96	351400	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.442	117	277635	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.069	65	138509	4.68	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	93.60%		
19) Toluene-d8	8.896	98	288567	5.09	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	101.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	336755	8.11	ug/L		100
3) Chloromethane	2.799	50	470043	7.70	ug/L		99
4) 1,1-Dichloroethene	4.085	61	485590	9.22	ug/L		100
5) Methylene Chloride	4.696	49	752004	8.78	ug/L		99
6) trans-1,2-Dichloroethene	4.865	61	563657	9.38	ug/L		99
7) 1,1-Dichloroethane	5.506	63	649866	9.49	ug/L		99
8) cis-1,2-Dichloroethene	6.065	96	309114	10.00	ug/L		99
9) Chloroform	6.332	83	532103	9.16	ug/L		98
10) Carbon Tetrachloride	6.503	117	372360	9.31	ug/L		99
11) 1,1,1-Trichloroethane	6.573	97	432252	9.56	ug/L		99
12) Benzene	6.939	78	1111283	10.24	ug/L		99
14) 1,2-Dichloroethane	7.138	62	519762	9.74	ug/L		97
15) Trichloroethene	7.513	95	324950	10.04	ug/L		98
16) 1,2-Dichloropropane	8.039	63	365668	10.11	ug/L		98
17) cis-1,3-Dichloropropene	8.711	75	369498	11.27	ug/L		96
20) trans-1,3-Dichloropropene	9.344	75	369218	11.69	ug/L		97
21) Tetrachloroethene	9.338	166	296478	9.33	ug/L		99
22) 1,4-Dichlorobenzene	12.822	146	635008	10.47	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.032	75	111064	10.52	ug/L		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091520\  
 Data File : O61394.D  
 Acq On : 15 Sep 2020 6:29 pm  
 Operator : AKARIG  
 Sample : ICV2362-5 Inst : MSVOA12  
 Misc : MS47193,VO2362,,,,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 16 09:05:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-17-2020\vo2363\  
 Data File : O61402.d  
 Acq On : 16 Sep 2020 11:32 am  
 Operator : akarig  
 Sample : cc2632-5  
 Misc : MS47193,VO2363,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 04:42:15 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	325847	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	270075	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	128979	4.70	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	94.00%		
19) Toluene-d8	8.896	98	270320	4.90	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.904	62	333326	8.74	ug/L		100
3) Chloromethane	2.803	50	470037	8.42	ug/L		100
4) 1,1-Dichloroethene	4.085	61	440506	9.02	ug/L		99
5) Methylene Chloride	4.699	49	662782	8.27	ug/L		98
6) trans-1,2-Dichloroethene	4.865	61	488055	8.76	ug/L		99
7) 1,1-Dichloroethane	5.506	63	558208	8.79	ug/L		100
8) cis-1,2-Dichloroethene	6.060	96	262000	9.14	ug/L		98
9) Chloroform	6.327	83	461945	8.58	ug/L		99
10) Carbon Tetrachloride	6.505	117	323952	8.74	ug/L		100
11) 1,1,1-Trichloroethane	6.576	97	357632	8.53	ug/L		99
12) Benzene	6.937	78	909169	9.03	ug/L		97
14) 1,2-Dichloroethane	7.139	62	433728	8.76	ug/L		98
15) Trichloroethene	7.512	95	266819	8.89	ug/L		96
16) 1,2-Dichloropropane	8.040	63	305758	9.12	ug/L		99
17) cis-1,3-Dichloropropene	8.707	75	299518	9.85	ug/L		99
20) trans-1,3-Dichloropropene	9.337	75	294504	9.58	ug/L		98
21) Tetrachloroethene	9.337	166	257791	8.34	ug/L		100
22) 1,4-Dichlorobenzene	12.821	146	542705	9.20	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.037	75	92403	9.00	ug/L #		73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

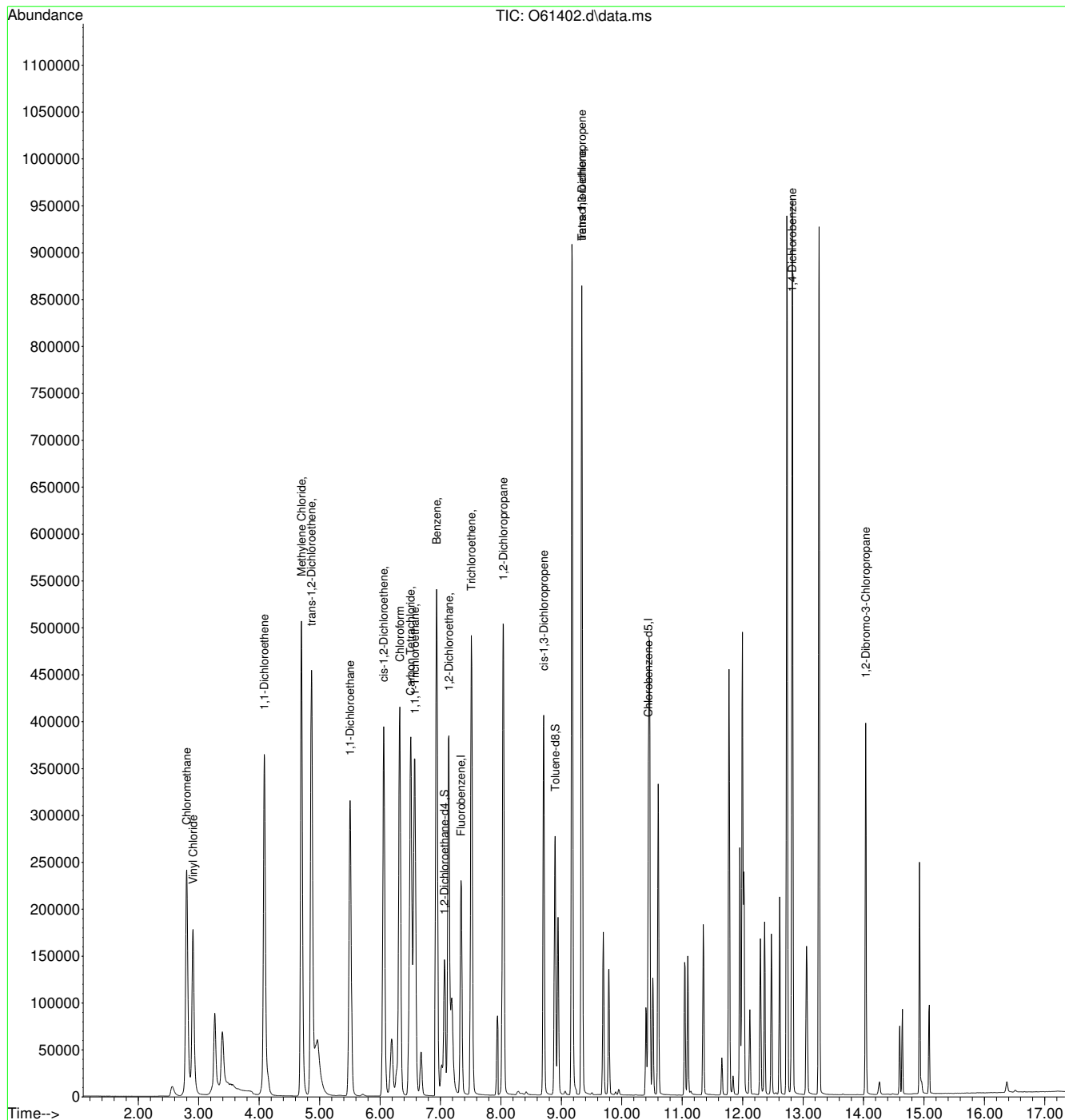
7.6.19  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-17-2020\vo2363\  
 Data File : O61402.d  
 Acq On : 16 Sep 2020 11:32 am  
 Operator : akarig  
 Sample : cc2632-5  
 Misc : MS47193,VO2363,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 04:42:15 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration



7.6.19  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091620\  
 Data File : O61422.D  
 Acq On : 17 Sep 2020 8:05 am  
 Operator : JuanG  
 Sample : ecc2362-5 Inst : MSVOA12  
 Misc : MS47193,VO2363,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 15:41:58 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.340	96	264356	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.441	117	231809	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.068	65	112713	5.06	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	101.20%	
19) Toluene-d8	8.892	98	206233	4.36	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	87.20%#	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.901	62	291792	9.53	ug/L	100
3) Chloromethane	2.799	50	424538	9.59	ug/L	99
4) 1,1-Dichloroethene	4.081	61	439279	11.09	ug/L	98
5) Methylene Chloride	4.692	49	623492	9.89	ug/L	97
6) trans-1,2-Dichloroethene	4.858	61	437454	9.68	ug/L	99
7) 1,1-Dichloroethane	5.503	63	500022	9.70	ug/L	99
8) cis-1,2-Dichloroethene	6.060	96	219297	9.43	ug/L	98
9) Chloroform	6.321	83	419765	9.60	ug/L	99
10) Carbon Tetrachloride	6.499	117	295475	9.82	ug/L	100
11) 1,1,1-Trichloroethane	6.570	97	321489	9.45	ug/L	99
12) Benzene	6.931	78	776935	9.51	ug/L	93
14) 1,2-Dichloroethane	7.133	62	392115	9.76	ug/L	99
15) Trichloroethene	7.506	95	237878	9.77	ug/L	97
16) 1,2-Dichloropropane	8.036	63	265838	9.77	ug/L	98
17) cis-1,3-Dichloropropene	8.703	75	235080	9.53	ug/L	97
20) trans-1,3-Dichloropropene	9.337	75	243253	9.22	ug/L	97
21) Tetrachloroethene	9.337	166	240399	9.06	ug/L	95
22) 1,4-Dichlorobenzene	12.821	146	506530	10.00	ug/L	100
23) 1,2-Dibromo-3-Chloropr...	14.037	75	84784	9.62	ug/L #	71

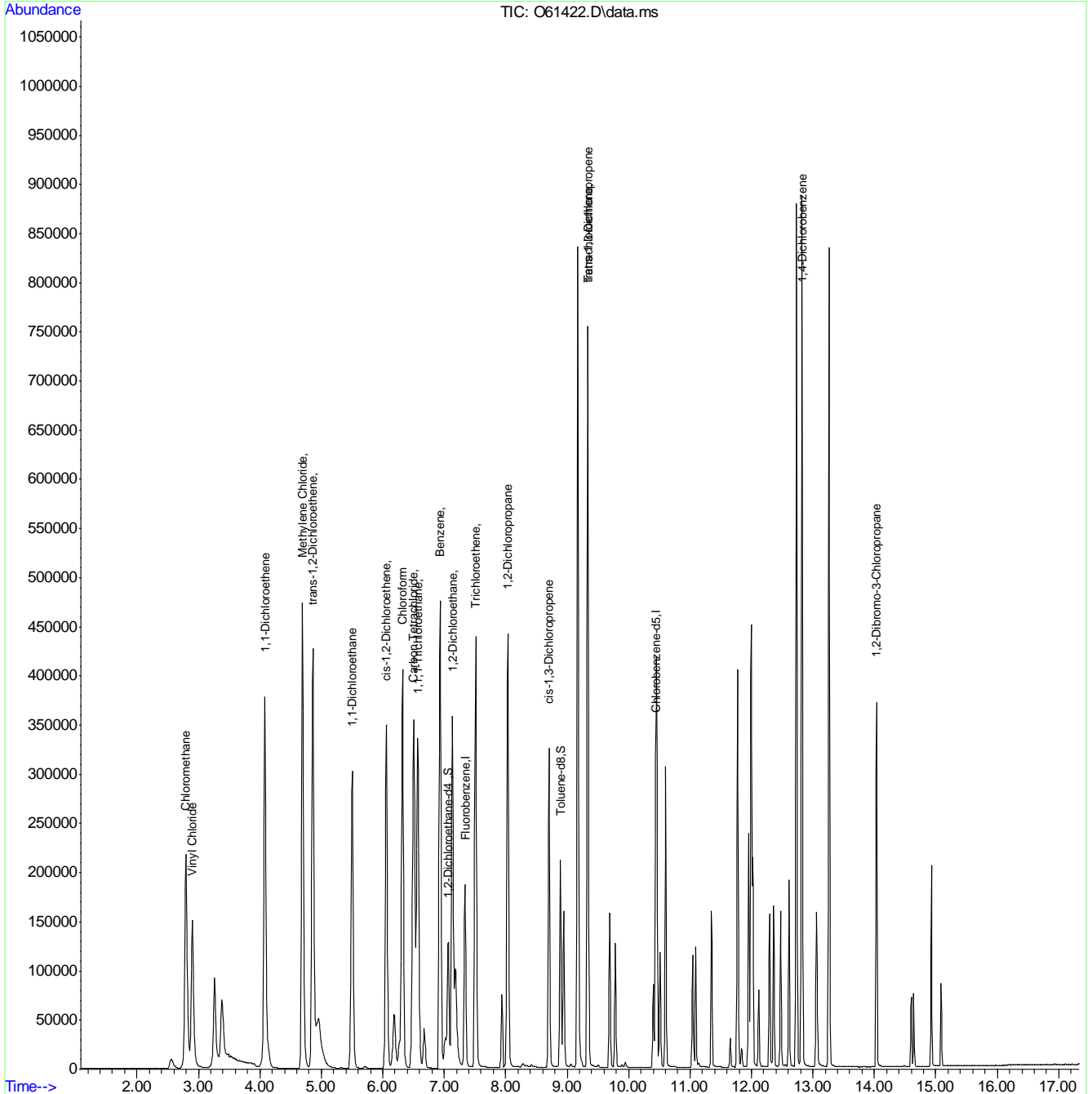
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091620\  
 Data File : 061422.D  
 Acq On : 17 Sep 2020 8:05 am  
 Operator : JuanG  
 Sample : ecc2362-5  
 Misc : MS47193,VO2363,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 17 15:41:58 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091520.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 16 09:02:25 2020  
 Response via : Initial Calibration



Date: 9/11/2020  
 COLUMN TYPE: RTX VMS  
 DETECTOR: 5975 MSD  
 INSTRUMENT: MSVOA12-O  
 PURGE PRESSURE: 8.4PSI  
 PURGE VOLUME: 5 mL  
 ANALYST: AKARI(G)stutip

METHODS\*: SIMCLm  
 METHOD FILE: SIMCL091120.M  
 CALIB. DATE: 9/11/2020  
 EM VOLTAGE: 1424V  
 BFB RESPONSE: 6052279  
 RUN ID: VO2356

BFB: V25942b  
 ICAL/JC: V25806, VS0804  
 ISTD/SUR: VS0799  
 ICV/QC: VS0805 VS0802  
 data reviewed by: stutip

PH LOT1-12 :230814  
 ph lot 0.0-3.0 : 220416a  
 KI PAPER LOT:030317  
 SAMPLE ID VERIFIED BY:  
 stutip  
 DATE VERIFIED: 09/14/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
O61211	BLANK	-	-	w	1	ACQ_SIMCL		-	?		
O61212	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61213	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61214	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61215	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61216	COND. STD.	-	-	w	2	ACQ_SIMCL		-	-		
O61217	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61218	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61219	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, returned
O61220	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61221	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61222	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61223	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61224	BFB	-	-	w	100	BFB		-	-		autofind 2ul passed
O61225	CC2352-5	-	-	w	2	ACQ_SIMCL		-	-		50ul -> 50ml passed
O61226	BS	-	-	w	3	ACQ_SIMCL		-	-		20ul -> vial passed
O61227	BFB	-	-	w	100	BFB		-	-		pass autofind 2ul
O61228	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61229	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61230	IC2356-1	-	-	w	2	ACQ_SIMCL	pii-3,12,16,21,30	-	-		1ul -> 100ml
O61231	IC2356-2	-	-	w	3	ACQ_SIMCL	pii-12	-	-		5ul -> 100ml
O61232	IC2356-3	-	-	w	4	ACQ_SIMCL	pii-12	-	-		10ul -> 50ml
O61233	IC2356-4	-	-	w	5	ACQ_SIMCL	pii-12	-	-		25ul -> 50ml
O61234	ICe2356-5	-	-	w	6	ACQ_SIMCL	pii-12	-	-		50ul -> 50ml
O61235	IC2356-6	-	-	w	7	ACQ_SIMCL	pii-12	-	-		75ul -> 50ml
O61236	IC2356-7	-	-	w	8	ACQ_SIMCL	pii-12	-	-		100ul -> 50ml
O61237	BLANK	-	-	w	9	ACQ_SIMCL		-	-		
O61238	iev2356-5	-	-	w	10	ACQ_SIMCL	pii-12	-	-		50ul-50ml

\* For NELAC purposes, Method 8280 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO

MSV/OA12-O-ANALYSIS LOG

Date:	9/14/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSV/OA12-O
PURGE PRESSURE:	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	melissam/akarig

METHODS:*	SIMCLM
METHOD FILE:	SIMCL091120.M
CALIB. DATE:	9/11/2020
EIM VOLTAGE:	1424v
BFB RESPONSE	5619610
RUN ID:	VO2361

BFB:	V25942b
ICAL/CC:	V25806, VS0804
ISTD/SUR:	VS0739
ICV/QC:	VS0805 VS0802
Data Reviewed by:	Edessas

PH LOT1-12.230814
ph lot 0.0-3.0 : 220416a
KI PAPER LOT:030317
SAMPLE ID VERIFIED BY:
melissa m
DATE VERIFIED: 09/14/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL PEAK #	PH	CL ?	RR	COMMENTS
061352	blk	-	-	w	1	ACQ SIMCL		-	-		
061353	blk	-	-	w	2	ACQ SIMCL		-	-		
061354	bfb	-	-	w	3	bfb		-	-		
061355	bfb	-	-	w	4	bfb		-	-		
061356	cc2356-5	-	-	w	5	ACQ SIMCL	#12(Pil)	-	-		autofind 2ul passed✓
061357	bs	-	-	w	1	ACQ SIMCL	#12(Pil)	-	-		50ul-50ml✓
061358	mb	-	-	w	2	ACQ SIMCL		-	-		20ul-40ml✓
061359	mb	-	-	w	3	ACQ SIMCL		-	-		ND✓
061360	mb	-	-	w	4	ACQ SIMCL		-	-		xNot used
061361	fa78559-1	1X	1	w	5	ACQ SIMCL	#21(Pil)	1	n		xNot used
061362	fa78559-2	1X	1	w	6	ACQ SIMCL		1	n		ND✓
061363	fa78559-3	1X	1	w	7	ACQ SIMCL		1	n		✓
061364	fa78559-4	1X	1	w	8	ACQ SIMCL	#12(Pil)#13(OP)	1	n		ND✓
061365	FA78559-1MS	20X	1	w	9	ACQ SIMCL	#12(Pil)	1	n		20ul-40ml surr↓
061366	FA78559-1MSD	20X	1	w	10	ACQ SIMCL	#3(Pil)	1	n		20ul-40ml surr↓
061367	fa78559-5	1X	1	w	11	ACQ SIMCL	#3,21(Pil)	1	n		ND✓
061368	fa78559-6	1X	1	w	12	ACQ SIMCL		1	n		✓
061369	fa78559-7	1X	1	w	13	ACQ SIMCL		1	n		✓
061370	fa78559-8	1X	1	w	14	ACQ SIMCL		1	n		✓
061371	fa78559-9	1X	1	w	15	ACQ SIMCL		1	n		✓
061372	fa78559-10	1X	1	w	16	ACQ SIMCL	#3(Pil)	1	n		Surr↓
061373	ecc2356-5			w	17	ACQ SIMCL	#12(Pil)				50ul-50ml passed✓
061374	ecc2356-5			w	17	ACQ SIMCL	#12(Pil)				50ul-50ml passed xNot used

\* For NELAC purposes, Method 8260 Includes analytes by SOP MS005 Matrix: Designate "W" for Water, "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, Pil Poor Instrument

Analyst's Signature: 







MSV0A12-O-ANALYSIS LOG

Date:	9/16/2020
COLUMN TYPE:	RTX VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSV0A12-O
PURGE PRESSURE:	8.4PSI
PURGE VOLUME:	5 mL
ANALYST:	akarig

METHODS:*	SIMCLm
METHOD FILE:	SIMCL091520.M
CALIB. DATE:	9/15/2020
EM VOLTAGE:	1447V
BFB RESPONSE	4915783
RUN ID:	VO2363

BFB:	V25942b
ICAL/CC:	V25806 VS0804
ISTD/SUR:	VS0799
ICV/QC:	VS0805 VS0802
data reviewed by: johnm	

PH LOT1-12 :230814
ph lot 0.0-3.0 : 220416a
KI PAPER LOT:030317
SAMPLE ID VERIFIED BY:
akarig
DATE VERIFIED: 09/16/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
061398	BLK	-	-	w	1	ACQ_SIMCL		-	-		
061399	BLK	-	-	w	2	ACQ_SIMCL		-	-		
061400	bfb	-	-	w	100	bfb		-	-		autofind 2ul failed low
061401	bfb	-	-	w	100	bfb		-	-		autofind 2ul passed
061402	CC2362-5	-	-	w	3	ACQ_SIMCL		-	-		50ul -> 50ml passed
061403	BS	-	-	w	4	ACQ_SIMCL		-	-		20ul-40ml passed
061404	MB	-	-	w	5	ACQ_SIMCL		-	-		
061405	MB	-	-	w	6	ACQ_SIMCL		-	-		
061406	FAT8551-18	1X	2	w	7	ACQ_SIMCL	#16(Pil)	1	n	1X	✓
061407	FAT8551-23	1X	3	w	8	ACQ_SIMCL	#12,16(Pil)	1	n	✓	✓
061408	FAT8551-24	1X	2	w	9	ACQ_SIMCL	#12(Pil)	1	n	✓	✓
061409	FAT8551-25	1X	2	w	10	ACQ_SIMCL	#21(Pil)	1	n	ND✓	ND✓
061410	FAT8551-26	1X	1	w	11	ACQ_SIMCL	#12(Pil)	1	n	1X	Surr Failed
061411	FAT8551-27	1X	2	w	12	ACQ_SIMCL	#12(Pil)	1	n	✓	✓
061412	FAT8559-9	1X	2	w	13	ACQ_SIMCL	#12(Pil)	1	n	1X	Surr Failed
061413	FAT8562-1	1X	1	w	14	ACQ_SIMCL	#12(Pil)	1	n	ND✓	ND✓
061414	FAT8549-2	1X	2	w	15	ACQ_SIMCL	#12,16(Pil)	1	n	✓	✓
061415	FAT8549-6	1X	2	w	16	ACQ_SIMCL	#12,16(Pil)	1	n	✓	✓
061416	FAT8549-7	1X	2	w	17	ACQ_SIMCL	#12(Pil)	1	n	1X	STD Failed
061417	FAT8549-8	1X	2	w	18	ACQ_SIMCL		1	n	1X	STD Failed
061418	FAT8549-11	1X	2	w	19	ACQ_SIMCL		1	n	1X	STD Failed
061419	FAT8549-12	1X	2	w	20	ACQ_SIMCL	#12(Pil)	1	n	1X	STD Failed
061420	FAT8549-13	1X	2	w	21	ACQ_SIMCL	#16(Pil)	1	n	1X	STD Failed
061421	FAT8549-14	1X	2	w	22	ACQ_SIMCL	power failure				
061422	FAT8549-15	1X	2	w	23	ACQ_SIMCL					
061423	FAT8551-18MS	10X	2	w	24	ACQ_SIMCL					20ul-40ml
061424	FAT8551-18MSD	10X	2	w	25	ACQ_SIMCL					20ul-40ml
061425	ECC2362-5		2	w	26	ACQ_SIMCL					50ul -> 50ml

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water, "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
 Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, Pl Poor Instrument

Analyst's Signature:

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21065.000.01.0000(Former Fort Ord GWMP - OUCTP Upper 180)

SGS Job Number: FA78564

Sampling Date: 09/03/20



Report to:

Ahtna Global, LLC  
9699 Blue Larkspur Lane Suite 203  
Monterey, CA 93940  
dlieberman@ahtna.net; mfisher@ahtna.net;  
hdillon@ahtna.net; eschmidt@ahtna.net;  
ATTN: Derek Lieberman

Total number of pages in report: **199**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer  
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Ahtna Global, LLC

**Job No:** FA78564

Fort Ord Groundwater Monitoring

Project No: 21065.000.01.0000(Former Fort Ord GWMP - OUCTP Upper 180)

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA78564-1	09/03/20	10:45	LHTH 09/09/20	AQ	Ground Water	2036W0BW116F
FA78564-2	09/03/20	10:30	LHTH 09/09/20	AQ	Ground Water	2036W0BW117B
FA78564-3	09/03/20	12:45	LHTH 09/09/20	AQ	Ground Water	2036WOU2118F
FA78564-4	09/03/20	14:05	LHTH 09/09/20	AQ	Ground Water	2036WOU2121F
FA78564-5	09/03/20	14:10	LHTH 09/09/20	AQ	Ground Water	2036W0BW122C
FA78564-6	09/03/20	12:19	RMCG09/09/20	AQ	Ground Water	2036X0BW244F

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Ahtna Global, LLC

**Job No:** FA78564

**Site:** Fort Ord Groundwater Monitoring

**Report Date** 9/18/2020 3:00:33

6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/03/2020 and were received at SGS North America Inc - Orlando on 09/09/2020 properly preserved, at 3.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA78564. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### MS Volatiles By Method SW846 8260B BY SIM

**Matrix:** AQ

**Batch ID:** VO2360

All samples were analyzed within the recommended method holding time.

Sample(s) FA78564-1MS, FA78564-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

FA78564-3 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78564-4 for 1,2-Dichloroethane-D4: Outside DOD QSM control limits.

FA78564-4 for Toluene-D8: Outside DOD QSM control limits.

**Matrix:** AQ

**Batch ID:** VZ2417

All samples were analyzed within the recommended method holding time.

Sample(s) FA78549-16MS, FA78549-16MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

\_\_\_\_\_  
Ariel Hartney, Client Services (*Signature on File*)

## Summary of Hits

**Job Number:** FA78564  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

**FA78564-1**      **2036W0BW116F**

No hits reported in this sample.

**FA78564-2**      **2036W0BW117B**

No hits reported in this sample.

**FA78564-3**      **2036WOU2118F**

Carbon Tetrachloride	6.6	0.50	0.25	ug/l	SW846 8260B BY SIM
----------------------	-----	------	------	------	--------------------

**FA78564-4**      **2036WOU2121F**

No hits reported in this sample.

**FA78564-5**      **2036W0BW122C**

No hits reported in this sample.

**FA78564-6**      **2036X0BW244F**

No hits reported in this sample.

Sample Results

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Report of Analysis

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SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW116F	
<b>Lab Sample ID:</b> FA78564-1	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61345.D	1	09/13/20 18:31	SP	n/a	n/a	VO2360
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%		74-125%
2037-26-5	Toluene-D8	94%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.1  
4

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW117B	<b>Date Sampled:</b> 09/03/20
<b>Lab Sample ID:</b> FA78564-2	<b>Date Received:</b> 09/09/20
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B BY SIM	
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61346.D	1	09/13/20 18:51	SP	n/a	n/a	VO2360
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%		74-125%
2037-26-5	Toluene-D8	95%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036WOU2118F	
<b>Lab Sample ID:</b> FA78564-3	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61347.D	1	09/13/20 19:11	SP	n/a	n/a	VO2360
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	6.6	0.50	0.25	0.10	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
17060-07-0	1,2-Dichloroethane-D4	120% <sup>a</sup>		74-125%			
2037-26-5	Toluene-D8	93%		88-111%			

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.3  
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SGS North America Inc.

# Report of Analysis

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<b>Client Sample ID:</b> 2036WOU2121F	
<b>Lab Sample ID:</b> FA78564-4	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O61348.D	1	09/13/20 19:32	SP	n/a	n/a	VO2360
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
17060-07-0	1,2-Dichloroethane-D4	119% <sup>a</sup>		74-125%			
2037-26-5	Toluene-D8	88% <sup>a</sup>		88-111%			

(a) Outside DOD QSM control limits.

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.4  
4

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036W0BW122C	
<b>Lab Sample ID:</b> FA78564-5	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62307.D	1	09/13/20 17:23	SP	n/a	n/a	VZ2417
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.5  
4

SGS North America Inc.

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> 2036X0BW244F	
<b>Lab Sample ID:</b> FA78564-6	<b>Date Sampled:</b> 09/03/20
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 09/09/20
<b>Method:</b> SW846 8260B BY SIM	<b>Percent Solids:</b> n/a
<b>Project:</b> Fort Ord Groundwater Monitoring	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z62308.D	1	09/13/20 17:42	SP	n/a	n/a	VZ2417
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA Special List**

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

CADS2040  
Ahtna

CHAIN OF CUSTODY

FA78564  
WATER / SOIL

Chain of Custody #: 0149 1 of 2  
Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:										Analysis Requested					Lab Sample Receipt		
Project Location: Former Fort Ord, CA			Sampler/s: L. Henderson/T. Hoang							VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery				
Project Name: FFO 6UMP			Report To: Derek Lieberman										Group #:				
Project Number: 21065.000.01.0000			E-Mail: dlieberman@ahnta.net										Custody Seal:				
Sampling Event/Site: 3Q2020			Laboratory: SGS										Temp (°C): 1.2				
													Notes				
Lab Number	Sample Collection		Matrix			Number of Preserved Bottles										Notes	
	Sample Number/Description	Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	MeHSC <sup>+</sup>	None	Other		
1	2036W0BW116F	9/3/20	1045	X			3	3								X	
2	2036W0BW117B	9/3/20	1030	X			3	3								X	
3	2036W0W2118F	9/3/20	1245	X			3	3								X	
4	2036W0W2121F	9/3/20	1405	X			3	3								X	
5	2036W0BW122C	9/3/20	1410	X			3	3								X	

ASSESSMENT *MF*  
VERIFICATION *DB*

Turnaround Time: : Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush Shipment: Method: Tracking ID:

Comments:

OUC TP - Upper 180

Chain of Custody Tracking:

Relinquished By Sampler:	Date/Time:	Received By:	Date/Time:
<i>[Signature]</i>	9/3/20 1500	<i>[Signature]</i>	9/3/20 1500
Relinquished by:	Date/Time:	Received By:	Date/Time:
<i>[Signature]</i>	9/4/20 1155	Lee Barz	9/4/20 1155
Relinquished By:	Date/Time:	Received By Laboratory:	Date/Time:
Lee Barz FedEx	9/8/20 1500 34	FedEx <i>[Signature]</i>	9/8/20 1500 6015

FA78564: Chain of Custody

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CADS2040  
Ahtna

CHAIN OF CUSTODY

FA78564  
WATER / SOIL

Chain of Custody #: 0121  
Carbon Copies: White - Laboratory Yellow - Ahtna

20F2

Project Information:											Analysis Requested			Lab Sample Receipt											
Project Location: <u>Former Fort Ord, CA</u>			Sampler(s): <u>R. MIMOVICH, C. GARCIA</u>								VOCs 8260 - SIM	Metals 6010 C	Chloride 9056A	Laboratory Sample Delivery											
Project Name: <u>FFO Backside GWM</u>			Report To: <u>Derek Lieberman</u>											Group #: _____											
Project Number: <u>21065.000.01.0000</u>			E-Mail: <u>dlieberman@ahnta.net</u>											Custody Seal: _____											
Sampling Event/Site: <u>30 2000</u>			Laboratory: <u>SGS</u>											Temp (°C): _____											
Lab Number	Sample Number/Description	Sample Collection		Matrix			Number of Preserved Bottles										Notes								
		Date	Time	Water	Soil	Other	Total # of Bottles	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	NaHSO <sub>4</sub>	None	Other										
6	2036X00W244F	9-3-20	1219	X			3	3																	

Turnaround Time:  Standard : 3-5 Day Rush : 48 Hour Rush : 24 Hour Rush Shipment Method: Tracking ID:

Comments:

DUCTP - UPPER

Chain of Custody Tracking:

Relinquished By Sampler: <u>Ra ML</u>	Date/Time: <u>9-3-20 11045</u>	Received By: <u>[Signature]</u>	Date/Time: <u>9/3/20 1155</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/4/20 1155</u>	Received By: <u>Lv Bate</u>	Date/Time: <u>9/4/20 1155</u>
Relinquished By: <u>Lee Bate</u>	Date/Time: <u>9/8/20</u>	Received By Laboratory: <u>[Signature]</u>	Date/Time: <u>9/8/20 1500</u>
<u>Fedor</u>		<u>[Signature]</u>	<u>9/9/20 1015</u>

FA78564: Chain of Custody

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## SGS Sample Receipt Summary

Job Number: FA78564

Client: AHTNA

Project: Former Fort Ord, CA -OUCTP Upper 180

Date / Time Received: 9/9/2020 10:15:00 AM

Delivery Method: FedEx

Airbill #: 771472545354

Therm ID: IR 1;	Therm CF: -0.2;	# of Coolers: 1
Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);		
Cooler Temps (Corrected) °C: Cooler 1: (3.4);		

Cooler Information	Y	or	N	
1. Custody Seals Present	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Custody Seals Intact	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Temp criteria achieved	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Cooler temp verification				IR Gun
5. Cooler media				Ice (Bag)

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>

3. Type Of TB Received	W	or	S	N/A
	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Samples preserved properly	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Sufficient volume/containers recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Condition of sample				Intact
5. Sample recvd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
6. Dates/Times/IDs on COC match Sample Label	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
7. VOCs have headspace	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Voa Soil Kits/Jars received past 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Misc. Information			
Number of Encores: 25-Gram _____	5-Gram _____	Number of 5035 Field Kits: _____	Number of Lab Filtered Metals: _____
Test Strip Lot #: pH 0-3 _____	230315 _____	pH 10-12 _____	219813A _____
Residual Chlorine Test Strip Lot #: _____		Other: (Specify) _____	

Comments

SM001 Rev. Date 05/24/17      Technician: BRYANG      Date: 9/9/2020 10:15:00 AM      Reviewer: PH      Date: 9/10/2020

5.1  
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# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FA78564  
**Account:** Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring  
**Collected:** 09/03/20

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VO2360 SW846 8260B BY SIM							
VO2360-BS	56-23-5	Carbon Tetrachloride	BSP	REC	108	%	72-136
VO2360-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	81-118
VO2360-BS	2037-26-5	Toluene-D8	BSP	SURR	92	%	89-112
FA78564-1MS	56-23-5	Carbon Tetrachloride	MS	REC	99	%	72-136
FA78564-1MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	101	%	81-118
FA78564-1MS	2037-26-5	Toluene-D8	MS	SURR	85	%	89-112
FA78564-1MSD	56-23-5	Carbon Tetrachloride	MSD	REC	105	%	72-136
FA78564-1MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	5	%	20
FA78564-1MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	99	%	81-118
FA78564-1MSD	2037-26-5	Toluene-D8	MSD	SURR	87	%	89-112
VO2360-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	108	%	81-118
VO2360-MB	2037-26-5	Toluene-D8	MB	SURR	98	%	89-112
FA78564-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	118	%	81-118
FA78564-1	2037-26-5	Toluene-D8	SAMP	SURR	94	%	89-112
FA78564-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	118	%	81-118
FA78564-2	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FA78564-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	120 <sup>a</sup>	%	81-118
FA78564-3	2037-26-5	Toluene-D8	SAMP	SURR	93	%	89-112
FA78564-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	119 <sup>a</sup>	%	81-118
FA78564-4	2037-26-5	Toluene-D8	SAMP	SURR	88 <sup>a</sup>	%	89-112
VZ2417 SW846 8260B BY SIM							
VZ2417-BS	56-23-5	Carbon Tetrachloride	BSP	REC	108	%	72-136
VZ2417-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	107	%	81-118
VZ2417-BS	2037-26-5	Toluene-D8	BSP	SURR	100	%	89-112
FA78549-16MS*	56-23-5	Carbon Tetrachloride	MS	REC	104	%	72-136
FA78549-16MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	113	%	81-118
FA78549-16MS*	2037-26-5	Toluene-D8	MS	SURR	94	%	89-112
FA78549-16MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	106	%	72-136
FA78549-16MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	2	%	20
FA78549-16MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	112	%	81-118
FA78549-16MSD*	2037-26-5	Toluene-D8	MSD	SURR	95	%	89-112
VZ2417-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	112	%	81-118
VZ2417-MB	2037-26-5	Toluene-D8	MB	SURR	100	%	89-112
FA78564-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	115	%	81-118
FA78564-5	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FA78564-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	116	%	81-118
FA78564-6	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112

(a) Outside DOD QSM control limits.

\* Sample used for QC is not from job FA78564

## MS Volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

**Method Blank Summary**

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2417-MB	Z62292.D	1	09/13/20	SP	n/a	n/a	VZ2417

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78564-5, FA78564-6

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	112%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

**Method Blank Summary**

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2360-MB	O61328.D	1	09/13/20	SP	n/a	n/a	VO2360

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78564-1, FA78564-2, FA78564-3, FA78564-4

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits	
17060-07-0	1,2-Dichloroethane-D4	108%	74-125%
2037-26-5	Toluene-D8	98%	88-111%

# Blank Spike Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2417-BS	Z62290.D	1	09/13/20	SP	n/a	n/a	VZ2417

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78564-5, FA78564-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.4	108	76-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2360-BS	O61326.D	1	09/13/20	SP	n/a	n/a	VO2360

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78564-1, FA78564-2, FA78564-3, FA78564-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	5	5.4	108	76-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	74-125%
2037-26-5	Toluene-D8	92%	88-111%

\* = Outside of Control Limits.



# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78549-16MS	Z62314.D	1	09/13/20	SP	n/a	n/a	VZ2417
FA78549-16MSD	Z62315.D	1	09/13/20	SP	n/a	n/a	VZ2417
FA78549-16	Z62293.D	1	09/13/20	SP	n/a	n/a	VZ2417

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78564-5, FA78564-6

CAS No.	Compound	FA78549-16 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	5	5.2	104	5	5.3	106	2	76-136/23

CAS No.	Surrogate Recoveries	MS	MSD	FA78549-16	Limits
17060-07-0	1,2-Dichloroethane-D4	113%	112%	109%	74-125%
2037-26-5	Toluene-D8	94%	95%	101%	88-111%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA78564-1MS	O61349.D	10	09/13/20	SP	n/a	n/a	VO2360
FA78564-1MSD	O61350.D	10	09/13/20	SP	n/a	n/a	VO2360
FA78564-1	O61345.D	1	09/13/20	SP	n/a	n/a	VO2360

The QC reported here applies to the following samples:

Method: SW846 8260B BY SIM

FA78564-1, FA78564-2, FA78564-3, FA78564-4

CAS No.	Compound	FA78564-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	0.50 U	50	49.7	99	50	52.4	105	5	76-136/23

CAS No.	Surrogate Recoveries	MS	MSD	FA78564-1	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	99%	118%	74-125%
2037-26-5	Toluene-D8	85%*	87%*	94%	88-111%

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2356-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> O61227.D	<b>Injection Time:</b> 14:01
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	105346	30.7	Pass
75	30.0 - 60.0% of mass 95	169774	49.4	Pass
95	Base peak, 100% relative abundance	343616	100.0	Pass
96	5.0 - 9.0% of mass 95	25531	7.43	Pass
173	Less than 2.0% of mass 174	1340	0.39 (0.45) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	294848	85.8	Pass
175	5.0 - 9.0% of mass 174	20565	5.98 (6.97) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	284096	82.7 (96.4) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	17677	5.14 (6.22) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2356-IC2356	O61230.D	09/11/20	15:34	01:33	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20	15:54	01:53	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20	16:14	02:13	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20	16:35	02:34	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20	16:55	02:54	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20	17:15	03:14	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20	17:36	03:35	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20	18:16	04:15	Initial cal verification 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2360-BFB	<b>Injection Date:</b> 09/13/20
<b>Lab File ID:</b> O61324.D	<b>Injection Time:</b> 11:21
<b>Instrument ID:</b> GCMSO	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	105581	32.9	Pass
75	30.0 - 60.0% of mass 95	153003	47.6	Pass
95	Base peak, 100% relative abundance	321323	100.0	Pass
96	5.0 - 9.0% of mass 95	23851	7.42	Pass
173	Less than 2.0% of mass 174	1727	0.54 (0.57) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	302997	94.3	Pass
175	5.0 - 9.0% of mass 174	22299	6.94 (7.36) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	289216	90.0 (95.5) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	18941	5.89 (6.55) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO2360-CC2356	O61325.D	09/13/20	11:41	00:20	Continuing cal 5
VO2360-BS	O61326.D	09/13/20	12:06	00:45	Blank Spike
VO2360-MB	O61328.D	09/13/20	12:47	01:26	Method Blank
ZZZZZZ	O61329.D	09/13/20	13:07	01:46	(unrelated sample)
ZZZZZZ	O61330.D	09/13/20	13:27	02:06	(unrelated sample)
ZZZZZZ	O61331.D	09/13/20	13:48	02:27	(unrelated sample)
ZZZZZZ	O61332.D	09/13/20	14:08	02:47	(unrelated sample)
ZZZZZZ	O61333.D	09/13/20	14:28	03:07	(unrelated sample)
ZZZZZZ	O61334.D	09/13/20	14:48	03:27	(unrelated sample)
ZZZZZZ	O61335.D	09/13/20	15:09	03:48	(unrelated sample)
ZZZZZZ	O61336.D	09/13/20	15:29	04:08	(unrelated sample)
ZZZZZZ	O61337.D	09/13/20	15:49	04:28	(unrelated sample)
ZZZZZZ	O61338.D	09/13/20	16:09	04:48	(unrelated sample)
ZZZZZZ	O61339.D	09/13/20	16:30	05:09	(unrelated sample)
ZZZZZZ	O61340.D	09/13/20	16:50	05:29	(unrelated sample)
ZZZZZZ	O61341.D	09/13/20	17:10	05:49	(unrelated sample)
ZZZZZZ	O61342.D	09/13/20	17:30	06:09	(unrelated sample)
ZZZZZZ	O61343.D	09/13/20	17:51	06:30	(unrelated sample)
ZZZZZZ	O61344.D	09/13/20	18:11	06:50	(unrelated sample)
FA78564-1	O61345.D	09/13/20	18:31	07:10	2036W0BW116F
FA78564-2	O61346.D	09/13/20	18:51	07:30	2036W0BW117B
FA78564-3	O61347.D	09/13/20	19:11	07:50	2036WOU2118F
FA78564-4	O61348.D	09/13/20	19:32	08:11	2036WOU2121F
FA78564-1MS	O61349.D	09/13/20	19:52	08:31	Matrix Spike

# Instrument Performance Check (BFB)

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VO2360-BFB	<b>Injection Date:</b> 09/13/20
<b>Lab File ID:</b> O61324.D	<b>Injection Time:</b> 11:21
<b>Instrument ID:</b> GCMSO	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78564-1MSD	O61350.D	09/13/20	20:12	08:51	Matrix Spike Duplicate
VO2360-ECC2356	O61351.D	09/13/20	20:32	09:11	Ending cal 5

**Instrument Performance Check (BFB)**

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2414-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> Z62205.D	<b>Injection Time:</b> 17:20
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	24546	21.4	Pass
75	30.0 - 60.0% of mass 95	61341	53.4	Pass
95	Base peak, 100% relative abundance	114880	100.0	Pass
96	5.0 - 9.0% of mass 95	7912	6.89	Pass
173	Less than 2.0% of mass 174	429	0.37 (0.48) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	89573	78.0	Pass
175	5.0 - 9.0% of mass 174	6903	6.01 (7.71) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	89128	77.6 (99.5) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	5541	4.82 (6.22) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2414-IC2414	Z62207.D	09/11/20	18:15	00:55	Initial cal 1
VZ2414-IC2414	Z62208.D	09/11/20	18:34	01:14	Initial cal 2
VZ2414-IC2414	Z62209.D	09/11/20	18:53	01:33	Initial cal 3
VZ2414-IC2414	Z62210.D	09/11/20	19:13	01:53	Initial cal 4
VZ2414-ICC2414	Z62211.D	09/11/20	19:32	02:12	Initial cal 5
VZ2414-IC2414	Z62212.D	09/11/20	19:51	02:31	Initial cal 6
VZ2414-IC2414	Z62213.D	09/11/20	20:13	02:53	Initial cal 7
VZ2414-ICV2414	Z62215.D	09/11/20	20:51	03:31	Initial cal verification 5
VZ2414-BS	Z62216.D	09/11/20	21:10	03:50	Blank Spike
VZ2414-MB	Z62218.D	09/11/20	21:49	04:29	Method Blank
FA78573-1	Z62219.D	09/11/20	22:08	04:48	(used for QC only; not part of job FA78564)
ZZZZZZ	Z62220.D	09/11/20	22:27	05:07	(unrelated sample)
ZZZZZZ	Z62221.D	09/11/20	22:47	05:27	(unrelated sample)
ZZZZZZ	Z62222.D	09/11/20	23:06	05:46	(unrelated sample)
ZZZZZZ	Z62223.D	09/11/20	23:26	06:06	(unrelated sample)
ZZZZZZ	Z62224.D	09/11/20	23:45	06:25	(unrelated sample)
ZZZZZZ	Z62225.D	09/12/20	00:04	06:44	(unrelated sample)
ZZZZZZ	Z62226.D	09/12/20	00:23	07:03	(unrelated sample)
ZZZZZZ	Z62227.D	09/12/20	00:42	07:22	(unrelated sample)
ZZZZZZ	Z62228.D	09/12/20	01:02	07:42	(unrelated sample)
ZZZZZZ	Z62229.D	09/12/20	01:21	08:01	(unrelated sample)
ZZZZZZ	Z62230.D	09/12/20	01:40	08:20	(unrelated sample)
ZZZZZZ	Z62231.D	09/12/20	02:00	08:40	(unrelated sample)
ZZZZZZ	Z62232.D	09/12/20	02:19	08:59	(unrelated sample)

# Instrument Performance Check (BFB)

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2414-BFB	<b>Injection Date:</b> 09/11/20
<b>Lab File ID:</b> Z62205.D	<b>Injection Time:</b> 17:20
<b>Instrument ID:</b> GCMSZ	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78573-1MS	Z62233.D	09/12/20	02:38	09:18	Matrix Spike
FA78573-1MSD	Z62234.D	09/12/20	02:57	09:37	Matrix Spike Duplicate
VZ2414-ECC2414	Z62235.D	09/12/20	03:16	09:56	Ending cal 5

6.4.3

6

**Instrument Performance Check (BFB)**

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b> VZ2417-BFB	<b>Injection Date:</b> 09/13/20
<b>Lab File ID:</b> Z62288.D	<b>Injection Time:</b> 11:05
<b>Instrument ID:</b> GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	23957	23.8	Pass
75	30.0 - 60.0% of mass 95	56141	55.8	Pass
95	Base peak, 100% relative abundance	100576	100.0	Pass
96	5.0 - 9.0% of mass 95	7461	7.42	Pass
173	Less than 2.0% of mass 174	438	0.44 (0.53) <sup>a</sup>	Pass
174	50.0 - 100.0% of mass 95	83139	82.7	Pass
175	5.0 - 9.0% of mass 174	5898	5.86 (7.09) <sup>a</sup>	Pass
176	95.0 - 101.0% of mass 174	82453	82.0 (99.2) <sup>a</sup>	Pass
177	5.0 - 9.0% of mass 176	5508	5.48 (6.68) <sup>b</sup>	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2417-CC2414	Z62289.D	09/13/20	11:28	00:23	Continuing cal 5
VZ2417-BS	Z62290.D	09/13/20	11:55	00:50	Blank Spike
VZ2417-MB	Z62292.D	09/13/20	12:33	01:28	Method Blank
FA78549-16	Z62293.D	09/13/20	12:52	01:47	(used for QC only; not part of job FA78564)
ZZZZZZ	Z62294.D	09/13/20	13:12	02:07	(unrelated sample)
ZZZZZZ	Z62295.D	09/13/20	13:31	02:26	(unrelated sample)
ZZZZZZ	Z62296.D	09/13/20	13:50	02:45	(unrelated sample)
ZZZZZZ	Z62297.D	09/13/20	14:10	03:05	(unrelated sample)
ZZZZZZ	Z62298.D	09/13/20	14:29	03:24	(unrelated sample)
ZZZZZZ	Z62299.D	09/13/20	14:48	03:43	(unrelated sample)
ZZZZZZ	Z62300.D	09/13/20	15:08	04:03	(unrelated sample)
ZZZZZZ	Z62301.D	09/13/20	15:27	04:22	(unrelated sample)
ZZZZZZ	Z62302.D	09/13/20	15:46	04:41	(unrelated sample)
ZZZZZZ	Z62303.D	09/13/20	16:06	05:01	(unrelated sample)
ZZZZZZ	Z62304.D	09/13/20	16:25	05:20	(unrelated sample)
ZZZZZZ	Z62305.D	09/13/20	16:44	05:39	(unrelated sample)
ZZZZZZ	Z62306.D	09/13/20	17:04	05:59	(unrelated sample)
FA78564-5	Z62307.D	09/13/20	17:23	06:18	2036W0BW122C
FA78564-6	Z62308.D	09/13/20	17:42	06:37	2036X0BW244F
ZZZZZZ	Z62309.D	09/13/20	18:02	06:57	(unrelated sample)
FA78576-2	Z62310.D	09/13/20	18:21	07:16	(used for QC only; not part of job FA78564)
ZZZZZZ	Z62311.D	09/13/20	18:40	07:35	(unrelated sample)
ZZZZZZ	Z62312.D	09/13/20	18:59	07:54	(unrelated sample)
ZZZZZZ	Z62313.D	09/13/20	19:18	08:13	(unrelated sample)



# Instrument Performance Check (BFB)

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Sample:</b>	VZ2417-BFB	<b>Injection Date:</b>	09/13/20
<b>Lab File ID:</b>	Z62288.D	<b>Injection Time:</b>	11:05
<b>Instrument ID:</b>	GCMSZ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA78549-16MS	Z62314.D	09/13/20	19:38	08:33	Matrix Spike
FA78549-16MSD	Z62315.D	09/13/20	19:57	08:52	Matrix Spike Duplicate
FA78576-2MS	Z62316.D	09/13/20	20:16	09:11	Matrix Spike
FA78576-2MSD	Z62317.D	09/13/20	20:35	09:30	Matrix Spike Duplicate
VZ2417-ECC2414	Z62318.D	09/13/20	20:54	09:49	Ending cal 5

# Internal Standard Area Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VO2360-CC2356	<b>Injection Date:</b> 09/13/20
<b>Lab File ID:</b> O61325.D	<b>Injection Time:</b> 11:41
<b>Instrument ID:</b> GCMSO	<b>Method:</b> SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal <sup>a</sup>	367891	7.35	288681	10.45
Check Std <sup>b</sup>	286719	7.34	233530	10.44
Upper Limit <sup>c</sup>	573438	7.51	467060	10.61
Lower Limit <sup>d</sup>	143360	7.17	116765	10.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VO2360-BS	283212	7.34	224536	10.44
VO2360-MB	219622	7.35	169409	10.45
ZZZZZZ	211288	7.35	169710	10.45
ZZZZZZ	201101	7.35	156034	10.45
ZZZZZZ	201795	7.35	189821	10.45
ZZZZZZ	194853	7.35	161681	10.45
ZZZZZZ	186897	7.35	155497	10.45
ZZZZZZ	184643	7.34	153620	10.45
ZZZZZZ	181234	7.35	150472	10.45
ZZZZZZ	176052	7.35	145910	10.45
ZZZZZZ	176231	7.35	148576	10.45
ZZZZZZ	170866	7.35	143561	10.45
ZZZZZZ	173988	7.34	144405	10.45
ZZZZZZ	173928	7.34	143428	10.45
ZZZZZZ	173088	7.35	137078	10.45
ZZZZZZ	172216	7.35	140001	10.45
ZZZZZZ	173487	7.34	174735	10.45
ZZZZZZ	172421	7.34	137210	10.45
FA78564-1	168342	7.35	134027	10.45
FA78564-2	168998	7.35	132387	10.45
FA78564-3	163470	7.34	132432	10.45
FA78564-4	164246	7.34	139552	10.45
FA78564-1MS	215252	7.34	177426	10.44
FA78564-1MSD	233995	7.34	190479	10.44
VO2360-ECC2356254568	7.35	207589	10.45	

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

- (a) Initial Cal is: VO2356-ICC2356 O61234.D 09/11/20 16:55
- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Internal Standard Area Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2417-CC2414	<b>Injection Date:</b> 09/13/20
<b>Lab File ID:</b> Z62289.D	<b>Injection Time:</b> 11:28
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
	<b>AREA</b>		<b>AREA</b>	
Initial Cal <sup>a</sup>	1875869	7.40	1507669	10.51
Check Std <sup>b</sup>	1988867	7.40	1615294	10.51
Upper Limit <sup>c</sup>	3977734	7.57	3230588	10.68
Lower Limit <sup>d</sup>	994434	7.23	807647	10.34

<b>Lab</b>	<b>IS 1</b>	<b>RT</b>	<b>IS 2</b>	<b>RT</b>
<b>Sample ID</b>	<b>AREA</b>		<b>AREA</b>	
VZ2417-BS	1886079	7.40	1527862	10.51
VZ2417-MB	1742686	7.40	1397616	10.51
FA78549-16	1709438	7.40	1372484	10.51
ZZZZZZ	1649211	7.40	1331083	10.51
ZZZZZZ	1650106	7.40	1324546	10.51
ZZZZZZ	1629061	7.40	1312360	10.51
ZZZZZZ	1518270	7.40	1219465	10.51
ZZZZZZ	1576716	7.40	1259291	10.51
ZZZZZZ	1559515	7.40	1248471	10.51
ZZZZZZ	1521040	7.40	1227184	10.51
ZZZZZZ	1526414	7.40	1229202	10.51
ZZZZZZ	1452209	7.40	1164213	10.51
ZZZZZZ	1447476	7.40	1166073	10.51
ZZZZZZ	1459401	7.40	1178363	10.51
ZZZZZZ	1462858	7.40	1181382	10.51
ZZZZZZ	1428926	7.40	1153502	10.51
FA78564-5	1374616	7.40	1121437	10.52
FA78564-6	1401475	7.40	1134328	10.51
ZZZZZZ	1408887	7.40	1143815	10.52
FA78576-2	1407384	7.40	1130592	10.51
ZZZZZZ	1388103	7.40	1121282	10.52
ZZZZZZ	1346796	7.40	1103498	10.51
ZZZZZZ	1440009	7.40	1181627	10.51
FA78549-16MS	1487167	7.40	1256295	10.51
FA78549-16MSD	1548045	7.40	1296762	10.51
FA78576-2MS	1539982	7.40	1284569	10.51
FA78576-2MSD	1495423	7.40	1239264	10.51
VZ2417-ECC2414	1638791	7.40	1378925	10.51

**IS 1** = Fluorobenzene  
**IS 2** = Chlorobenzene-D5

(a) Initial Cal is: VZ2414-ICC2414 Z62211.D 09/11/20 19:32

6.5.2  
6

## Internal Standard Area Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Check Std:</b> VZ2417-CC2414	<b>Injection Date:</b> 09/13/20
<b>Lab File ID:</b> Z62289.D	<b>Injection Time:</b> 11:28
<b>Instrument ID:</b> GCMSZ	<b>Method:</b> SW846 8260B BY SIM

Lab	IS 1	IS 2		
Sample ID	AREA	RT	AREA	RT

- (b) Check Std Limit = -50 to + 100% of initial cal area.
- (c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
- (d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

# Surrogate Recovery Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Method:</b> SW846 8260B BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA78564-1	O61345.D	118	94
FA78564-2	O61346.D	118	95
FA78564-3	O61347.D	120 <sup>a</sup>	93
FA78564-4	O61348.D	119 <sup>a</sup>	88 <sup>a</sup>
FA78564-5	Z62307.D	115	97
FA78564-6	Z62308.D	116	98
FA78549-16MS	Z62314.D	113	94
FA78549-16MSD	Z62315.D	112	95
FA78564-1MS	O61349.D	101	85*
FA78564-1MSD	O61350.D	99	87*
VO2360-BS	O61326.D	97	92
VO2360-MB	O61328.D	108	98
VZ2417-BS	Z62290.D	107	100
VZ2417-MB	Z62292.D	112	100

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

(a) Outside DOD QSM control limits.

# Initial Calibration Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

Response Factor Report MSVOA12

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Calibration Files

1 =O61230.D 2 =O61231.D 3 =O61232.D 4 =O61233.D  
 5 =O61234.D 6 =O61235.D 7 =O61236.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.558	0.633	0.571	0.573	0.524	0.492	0.473	0.546	9.96
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
	Response Ratio = 0.00000 + 0.59060 *A + -0.03053 *A^2								
3) Chloromethane	1.395	1.093	0.857	0.828	0.737	0.682	0.649	0.892	29.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.88497 *A + -0.06257 *A^2								
4) 1,1-Dichloroethen	0.648	0.725	0.662	0.734	0.703	0.672	0.694	0.691	4.67
5) Methylene Chlorid	2.151	0.418	0.186	0.117	0.102	0.095	0.094	0.452	E1 167.87
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9916								
	Response Ratio = 0.00000 + 1.08258 *A								
6) trans-1,2-Dichlor	0.823	0.909	0.775	0.847	0.805	0.778	0.808	0.821	5.65
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.79595 *A + 0.00117 *A^2								
7) 1,1-Dichloroethan	0.920	0.983	0.903	0.972	0.919	0.884	0.906	0.927	3.97
8) cis-1,2-Dichloroe	0.471	0.472	0.435	0.472	0.454	0.444	0.460	0.458	3.24
9) Chloroform	0.840	0.844	0.764	0.827	0.779	0.754	0.774	0.798	4.79
10) Carbon Tetrachlor	0.502	0.562	0.506	0.571	0.556	0.537	0.571	0.544	5.38
11) 1,1,1-Trichloroet	0.593	0.629	0.576	0.645	0.621	0.604	0.636	0.615	4.06
12) Benzene	1.681	1.663	1.504	1.628	1.554	1.503	1.551	1.583	4.64
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 1.54480 *A + -0.00157 *A^2								
13)S 1,2-Dichloroethan	0.407	0.407	0.413	0.434	0.389	0.389	0.387	0.404	4.23
14) 1,2-Dichloroethan	0.768	0.789	0.746	0.780	0.737	0.728	0.733	0.754	3.24
15) Trichloroethene	0.466	0.487	0.444	0.487	0.472	0.461	0.476	0.470	3.22
16) 1,2-Dichloropropa	0.514	0.567	0.519	0.548	0.517	0.503	0.519	0.527	4.30
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
	Response Ratio = 0.00000 + 0.51595 *A + -0.00029 *A^2								
17) cis-1,3-Dichlorop	0.485	0.515	0.497	0.552	0.551	0.561	0.582	0.535	6.69
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.161	1.150	1.123	1.108	1.100	1.117	1.132	1.127	1.95
20) trans-1,3-Dichlor	0.576	0.606	0.611	0.681	0.682	0.706	0.738	0.657	9.10
21) Tetrachloroethene	0.563	0.631	0.539	0.583	0.555	0.541	0.566	0.568	5.54
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
	Response Ratio = 0.00000 + 0.54272 *A + 0.00447 *A^2								
22) 1,4-Dichlorobenze	1.098	1.175	1.110	1.205	1.177	1.154	1.188	1.158	3.46
23) 1,2-Dibromo-3-Chl	0.334	0.260	0.190	0.205	0.209	0.220	0.225	0.235	20.90
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								

6.7.1  
6

# Initial Calibration Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICC2356  
**Lab FileID:** O61234.D

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$$\text{Response Ratio} = 0.00000 + 0.20028 *A + 0.00615 *A^2$$

-----  
(#) = Out of Range

SIMCL091120.M

Sun Sep 13 19:41:25 2020

## Initial Calibration Verification

Job Number: FA78564  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2356-ICV2356  
 Lab FileID: O61238.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\091120\O61238.D Vial: 10  
 Acq On : 11 Sep 2020 6:16 pm Operator: stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00	7.35
	----- Amount	Calc.	%Drift	-----			
2	Vinyl Chloride	10.000	8.489	15.1	93	0.00	2.90
3	Chloromethane	10.000	8.270	17.3	94	0.00	2.80
	----- AvgRF	CCRF	%Dev	-----			
4	1,1-Dichloroethene	0.691	0.646	6.5	98	0.00	4.09
	----- Amount	Calc.	%Drift	-----			
5	Methylene Chloride	10.000	8.887	11.1	101	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	9.532	4.7	101	0.00	4.87
	----- AvgRF	CCRF	%Dev	-----			
7	1,1-Dichloroethane	0.927	0.885	4.5	103	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.443	3.3	104	0.00	6.07
9	Chloroform	0.798	0.745	6.6	102	0.00	6.33
10	Carbon Tetrachloride	0.544	0.522	4.0	100	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.580	5.7	100	0.00	6.58
	----- Amount	Calc.	%Drift	-----			
12	Benzene	10.000	10.095	-1.0	107	0.00	6.94
	----- AvgRF	CCRF	%Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.386	4.5	106	0.00	7.07
14	1,2-Dichloroethane	0.754	0.741	1.7	107	0.00	7.14
15	Trichloroethene	0.470	0.466	0.9	105	0.00	7.52
	----- Amount	Calc.	%Drift	-----			
16	1,2-Dichloropropane	10.000	10.102	-1.0	108	0.00	8.04
	----- AvgRF	CCRF	%Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.573	-7.1	111	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	10.45
19 S	Toluene-d8	1.127	1.117	0.9	108	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.726	-10.5	113	0.00	9.34
	----- Amount	Calc.	%Drift	-----			
21	Tetrachloroethene	10.000	9.602	4.0	101	0.00	9.34
	----- AvgRF	CCRF	%Dev	-----			



# Initial Calibration Verification

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2356-ICV2356  
**Lab FileID:** O61238.D

---

22	1,4-Dichlorobenzene	1.158	1.170	-1.0	105	0.00	12.83
	-----	Amount	Calc.	%Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	10.133	-1.3	109	0.00	14.04
	-----				-----		

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
061234.D    SIMCL091120.M              Sun Sep 13 19:41:09 2020

6.7.2

6

## Continuing Calibration Summary

Job Number: FA78564  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2360-CC2356  
 Lab FileID: O61325.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VO2360\O61325.d Vial: 1  
 Acq On : 13 Sep 2020 11:41 am Operator: stutip  
 Sample : cc2356-5 Inst : MSVOA12  
 Misc : MS47193,VO2360,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	78	0.00	7.34
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	10.148	-1.5	80	0.00	2.90
3	Chloromethane	10.000	10.520	-5.2	84	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.774	-12.0	86	-0.01	4.08
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	10.669	-6.7	89	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	10.665	-6.6	82	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.999	-7.8	85	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.468	-2.2	80	0.00	6.07
9	Chloroform	0.798	0.819	-2.6	82	0.00	6.33
10	Carbon Tetrachloride	0.544	0.545	-0.2	76	0.00	6.50
11	1,1,1-Trichloroethane	0.615	0.613	0.3	77	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	10.620	-6.2	82	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.396	2.0	79	0.00	7.07
14	1,2-Dichloroethane	0.754	0.791	-4.9	84	0.00	7.14
15	Trichloroethene	0.470	0.480	-2.1	79	0.00	7.51
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	10.767	-7.7	84	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.555	-3.7	79	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	81	0.00	10.44
19 S	Toluene-d8	1.127	1.030	8.6	76	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.678	-3.2	80	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	9.903	1.0	80	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2360-CC2356  
**Lab FileID:** O61325.D

22	1,4-Dichlorobenzene	1.158	1.208	-4.3	83	0.00	12.82
		----- True	Calc.	% Drift	-----		
23	1,2-Dibromo-3-Chloropropa	10.000	9.956	0.4	82	0.00	14.04

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 08:29:14 2020

6.7.3

6

## Continuing Calibration Summary

Job Number: FA78564  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VO2360-ECC2356  
 Lab FileID: O61351.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\je...-2020\VO2360\O61351.d Vial: 26  
 Acq On : 13 Sep 2020 8:32 pm Operator: stutip  
 Sample : ecc2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B  
 Last Update : Sun Sep 13 19:20:40 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	69	0.00	7.35
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	8.875	11.3	63	0.00	2.90
3	Chloromethane	10.000	8.999	10.0	65	0.00	2.80
	----- AvgRF	CCRF	% Dev	-----			
4	1,1-Dichloroethene	0.691	0.636	8.0	63	0.00	4.09
	----- True	Calc.	% Drift	-----			
5	Methylene Chloride	10.000	9.224	7.8	68	0.00	4.70
6	trans-1,2-Dichloroethene	10.000	8.920	10.8	61	0.00	4.87
	----- AvgRF	CCRF	% Dev	-----			
7	1,1-Dichloroethane	0.927	0.824	11.1	62	0.00	5.51
8	cis-1,2-Dichloroethene	0.458	0.381	16.8	58	0.00	6.07
9	Chloroform	0.798	0.685	14.2	61	0.00	6.33
10	Carbon Tetrachloride	0.544	0.463	14.9	58	0.00	6.51
11	1,1,1-Trichloroethane	0.615	0.515	16.3	57	0.00	6.58
	----- True	Calc.	% Drift	-----			
12	Benzene	10.000	8.575	14.3	59	0.00	6.94
	----- AvgRF	CCRF	% Dev	-----			
13 S	1,2-Dichloroethane-d4	0.404	0.397	1.7	70	0.00	7.07
14	1,2-Dichloroethane	0.754	0.643	14.7	60	0.00	7.14
15	Trichloroethene	0.470	0.394	16.2	58	0.00	7.51
	----- True	Calc.	% Drift	-----			
16	1,2-Dichloropropane	10.000	8.702	13.0	60	0.00	8.04
	----- AvgRF	CCRF	% Dev	-----			
17	cis-1,3-Dichloropropene	0.535	0.424	20.7	53	0.00	8.71
18 I	Chlorobenzene-d5	1.000	1.000	0.0	72	0.00	10.45
19 S	Toluene-d8	1.127	0.989	12.2	65	0.00	8.90
20	trans-1,3-Dichloropropene	0.657	0.521	20.7	55	0.00	9.34
	----- True	Calc.	% Drift	-----			
21	Tetrachloroethene	10.000	8.444	15.6	60	0.00	9.34
	----- AvgRF	CCRF	% Dev	-----			

# Continuing Calibration Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VO2360-ECC2356  
**Lab FileID:** O61351.D

22	1,4-Dichlorobenzene	1.158	0.999	13.7	61	0.00	12.82
	----- True	Calc.	% Drift	-----			
23	1,2-Dibromo-3-Chloropropa	10.000	7.967	20.3	58	0.00	14.04

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 061234.D    SIMCL091120.M            Mon Sep 14 08:41:23 2020

6.7.4  
 6

# Initial Calibration Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICC2414  
**Lab FileID:** Z62211.D

## Response Factor Report MSVOA15

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

**Calibration Files**

1 =Z62207.D 2 =Z62208.D 3 =Z62209.D 4 =Z62210.D  
 5 =Z62211.D 6 =Z62212.D 7 =Z62213.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) Vinyl Chloride	0.745	0.530	0.472	0.398	0.398	0.410	0.429	0.483	25.87
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983								
	Response Ratio = 0.00000 + 0.41463 *A + 0.00115 *A^2								
3) Chloromethane	0.663	0.498	0.481	0.368	0.359	0.379	0.420	0.453	23.78
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980								
	Response Ratio = 0.00000 + 0.31946 *A + 0.02378 *A^2								
4) 1,1-Dichloroethen	0.306	0.298	0.281	0.309	0.292	0.302	0.306	0.299	3.29
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9995								
	Response Ratio = 0.00000 + 0.30297 *A								
5) Methylene Chlorid	2.740	0.838	0.457	0.451	0.392	0.409	0.402	0.813	106.36
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9908								
	Response Ratio = 0.00000 + 0.49775 *A + -0.02806 *A^2								
6)T trans-1,2-Dichlor	0.358	0.379	0.341	0.385	0.360	0.379	0.382	0.369	4.44
7) 1,1-Dichloroethan	0.575	0.661	0.582	0.662	0.612	0.647	0.644	0.626	5.82
8) cis-1,2-Dichloroe	0.419	0.429	0.375	0.427	0.391	0.416	0.414	0.410	4.85
9) Chloroform	0.777	0.786	0.680	0.784	0.718	0.760	0.756	0.752	5.23
10) Carbon Tetrachlor	0.498	0.489	0.462	0.529	0.514	0.540	0.540	0.510	5.69
11) 1,1,1-Trichloroet	0.636	0.660	0.612	0.687	0.654	0.683	0.676	0.658	4.12
12) Benzene	1.341	1.460	1.286	1.457	1.351	1.425	1.421	1.392	4.75
13)S 1,2-Dichloroethan	0.304	0.310	0.307	0.309	0.314	0.310	0.310	0.309	0.92
14) 1,2-Dichloroethan	0.501	0.562	0.476	0.554	0.506	0.539	0.534	0.525	5.98
15) Trichloroethene	0.414	0.428	0.389	0.442	0.415	0.440	0.460	0.427	5.41
16) 1,2-Dichloropropa	0.344	0.377	0.320	0.372	0.342	0.363	0.361	0.354	5.62
17) cis-1,3-Dichlorop	0.353	0.328	0.296	0.411	0.409	0.472	0.460	0.390	17.03
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9970								
	Response Ratio = 0.00000 + 0.35911 *A + 0.02868 *A^2								
18) I Chlorobenzene-d5	-----ISTD-----								
19)S Toluene-d8	1.254	1.248	1.248	1.237	1.232	1.224	1.055	1.214	5.83
20)T trans-1,3-Dichlor	0.334	0.340	0.304	0.429	0.428	0.497	0.416	0.393	17.45
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9900								
	Response Ratio = 0.00000 + 0.41206 *A + 0.00891 *A^2								
21) Tetrachloroethene	0.505	0.538	0.491	0.550	0.516	0.540	0.467	0.515	5.78
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9961								
	Response Ratio = 0.00000 + 0.59840 *A + -0.03017 *A^2								

(#) = Out of Range

6.7.5  
6

# Initial Calibration Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICC2414  
**Lab FileID:** Z62211.D

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SIMCL091120.M

Sun Sep 13 14:24:15 2020

# Initial Calibration Verification

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2414-ICV2414  
**Lab FileID:** Z62215.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\091120\Z62215.D Vial: 10  
 Acq On : 11 Sep 2020 8:51 pm Operator: SHANICAO  
 Sample : ICV2414-5 Inst : MSVOA15  
 Misc : MS47171,VZ2414,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I Fluorobenzene	1.000	1.000	0.0	102	0.00	7.40
----- Amount Calc. %Drift -----						
2 Vinyl Chloride	10.000	10.131	-1.3	108	0.00	2.84
3 Chloromethane	10.000	9.964	0.4	104	0.00	2.73
4 1,1-Dichloroethene	10.000	10.988	-9.9	116	0.00	4.08
5 Methylene Chloride	10.000	9.188	8.1	107	0.00	4.71
----- AvgRF CCRF %Dev -----						
6 T trans-1,2-Dichloroethene	0.369	0.379	-2.7	108	0.00	4.89
7 1,1-Dichloroethane	0.626	0.649	-3.7	108	0.00	5.55
8 cis-1,2-Dichloroethene	0.410	0.412	-0.5	108	0.00	6.11
9 Chloroform	0.752	0.748	0.5	106	0.00	6.38
10 Carbon Tetrachloride	0.510	0.540	-5.9	107	0.00	6.54
11 1,1,1-Trichloroethane	0.658	0.683	-3.8	107	0.00	6.61
12 Benzene	1.392	1.466	-5.3	111	0.00	6.99
13 S 1,2-Dichloroethane-d4	0.309	0.315	-1.9	102	0.00	7.13
14 1,2-Dichloroethane	0.525	0.541	-3.0	109	0.00	7.20
15 Trichloroethene	0.427	0.446	-4.4	110	0.00	7.57
16 1,2-Dichloropropane	0.354	0.368	-4.0	110	0.00	8.11
----- Amount Calc. %Drift -----						
17 cis-1,3-Dichloropropene	10.000	10.889	-8.9	115	0.00	8.77
----- AvgRF CCRF %Dev -----						
18 I Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.51
19 S Toluene-d8	1.214	1.231	-1.4	102	0.00	8.96
----- Amount Calc. %Drift -----						
20 T trans-1,3-Dichloropropene	10.000	11.393	-13.9	117	0.00	9.41
21 Tetrachloroethene	10.000	10.356	-3.6	109	0.00	9.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 Z62211.D SIMCL091120.M Sun Sep 13 14:23:50 2020



## Continuing Calibration Summary

Job Number: FA78564  
 Account: AHTNACAS Ahtna Global, LLC  
 Project: Fort Ord Groundwater Monitoring

Sample: VZ2417-CC2414  
 Lab FileID: Z62289.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\vz2417\Z62289.d Vial: 1  
 Acq On : 13 Sep 2020 11:28 am Operator: stutip  
 Sample : CC2414-5 Inst : MSVOA15  
 Misc : MS47199,VZ2417,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	106	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	11.050	-10.5	123	0.00	2.84
3	Chloromethane	10.000	11.366	-13.7	125	0.00	2.73
4	1,1-Dichloroethene	10.000	9.259	7.4	102	0.00	4.08
5	Methylene Chloride	10.000	9.101	9.0	110	0.00	4.71
	----- AvgRF	CCRF	% Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.357	3.3	105	0.00	4.88
7	1,1-Dichloroethane	0.626	0.634	-1.3	110	0.00	5.54
8	cis-1,2-Dichloroethene	0.410	0.382	6.8	104	0.00	6.10
9	Chloroform	0.752	0.717	4.7	106	0.00	6.37
10	Carbon Tetrachloride	0.510	0.463	9.2	96	0.00	6.54
11	1,1,1-Trichloroethane	0.658	0.617	6.2	100	0.00	6.61
12	Benzene	1.392	1.370	1.6	107	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.325	-5.2	110	0.00	7.12
14	1,2-Dichloroethane	0.525	0.507	3.4	106	0.00	7.19
15	Trichloroethene	0.427	0.400	6.3	102	0.00	7.56
16	1,2-Dichloropropane	0.354	0.332	6.2	103	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	9.385	6.2	100	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	10.51
19 S	Toluene-d8	1.214	1.205	0.7	105	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	9.397	6.0	101	0.00	9.41
21	Tetrachloroethene	10.000	8.947	10.5	101	0.00	9.40

(#) = Out of Range  
 Z62211.D SIMCL091120.M

SPCC's out = 0 CCC's out = 0  
 Mon Sep 14 07:18:29 2020

# Continuing Calibration Summary

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Sample:** VZ2417-ECC2414  
**Lab FileID:** Z62318.D

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...-2020\ vz2417\Z62318.d Vial: 29  
 Acq On : 13 Sep 2020 8:54 pm Operator: stutip  
 Sample : ecc2414-5 Inst : MSVOA15  
 Misc : MS47203,VZ2417,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B  
 Last Update : Sun Sep 13 13:38:26 2020  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	87	0.00	7.40
	----- True	Calc.	% Drift	-----			
2	Vinyl Chloride	10.000	12.787	-27.9	117	0.00	2.84
3	Chloromethane	10.000	12.393	-23.9	114	0.00	2.73
4	1,1-Dichloroethene	10.000	10.614	-6.1	96	0.00	4.09
5	Methylene Chloride	10.000	10.738	-7.4	105	0.00	4.71
	----- AvgRF	CCRF	% Dev	-----			
6 T	trans-1,2-Dichloroethene	0.369	0.411	-11.4	100	0.00	4.89
7	1,1-Dichloroethane	0.626	0.732	-16.9	104	0.00	5.55
8	cis-1,2-Dichloroethene	0.410	0.444	-8.3	99	0.00	6.11
9	Chloroform	0.752	0.859	-14.2	105	0.00	6.38
10	Carbon Tetrachloride	0.510	0.510	0.0	87	0.00	6.55
11	1,1,1-Trichloroethane	0.658	0.717	-9.0	96	0.00	6.62
12	Benzene	1.392	1.581	-13.6	102	0.00	6.99
13 S	1,2-Dichloroethane-d4	0.309	0.337	-9.1	94	0.00	7.13
14	1,2-Dichloroethane	0.525	0.611	-16.4	106	0.00	7.20
15	Trichloroethene	0.427	0.474	-11.0	100	0.00	7.57
16	1,2-Dichloropropane	0.354	0.398	-12.4	102	0.00	8.10
	----- True	Calc.	% Drift	-----			
17	cis-1,3-Dichloropropene	10.000	8.931	10.7	78	0.00	8.77
	----- AvgRF	CCRF	% Dev	-----			
18 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00	10.51
19 S	Toluene-d8	1.214	1.151	5.2	85	0.00	8.96
	----- True	Calc.	% Drift	-----			
20 T	trans-1,3-Dichloropropene	10.000	8.701	13.0	79	0.00	9.41
21	Tetrachloroethene	10.000	10.319	-3.2	98	0.00	9.40

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0  
 Z62211.D    SIMCL091120.M              Mon Sep 14 07:18:49 2020

**Run Sequence Report**

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2356	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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<b>Lab Sample ID</b>	<b>Lab File ID</b>	<b>Date/Time Analyzed</b>	<b>Prep QC Batch</b>	<b>Client Sample ID</b>
VO2356-BFB	O61227.D	09/11/20 14:01	n/a	BFB Tune
VO2356-IC2356	O61230.D	09/11/20 15:34	n/a	Initial cal 1
VO2356-IC2356	O61231.D	09/11/20 15:54	n/a	Initial cal 2
VO2356-IC2356	O61232.D	09/11/20 16:14	n/a	Initial cal 3
VO2356-IC2356	O61233.D	09/11/20 16:35	n/a	Initial cal 4
VO2356-ICC2356	O61234.D	09/11/20 16:55	n/a	Initial cal 5
VO2356-IC2356	O61235.D	09/11/20 17:15	n/a	Initial cal 6
VO2356-IC2356	O61236.D	09/11/20 17:36	n/a	Initial cal 7
VO2356-ICV2356	O61238.D	09/11/20 18:16	n/a	Initial cal verification 5

**Run Sequence Report**

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

<b>Run ID:</b> VO2360	<b>Method:</b> SW846 8260B BY SIM	<b>Instrument ID:</b> GCMSO
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Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2360-BFB	O61324.D	09/13/20 11:21	n/a	BFB Tune
VO2360-CC2356	O61325.D	09/13/20 11:41	n/a	Continuing cal 5
VO2360-BS	O61326.D	09/13/20 12:06	n/a	Blank Spike
VO2360-MB	O61328.D	09/13/20 12:47	n/a	Method Blank
ZZZZZZ	O61329.D	09/13/20 13:07	n/a	(unrelated sample)
ZZZZZZ	O61330.D	09/13/20 13:27	n/a	(unrelated sample)
ZZZZZZ	O61331.D	09/13/20 13:48	n/a	(unrelated sample)
ZZZZZZ	O61332.D	09/13/20 14:08	n/a	(unrelated sample)
ZZZZZZ	O61333.D	09/13/20 14:28	n/a	(unrelated sample)
ZZZZZZ	O61334.D	09/13/20 14:48	n/a	(unrelated sample)
ZZZZZZ	O61335.D	09/13/20 15:09	n/a	(unrelated sample)
ZZZZZZ	O61336.D	09/13/20 15:29	n/a	(unrelated sample)
ZZZZZZ	O61337.D	09/13/20 15:49	n/a	(unrelated sample)
ZZZZZZ	O61338.D	09/13/20 16:09	n/a	(unrelated sample)
ZZZZZZ	O61339.D	09/13/20 16:30	n/a	(unrelated sample)
ZZZZZZ	O61340.D	09/13/20 16:50	n/a	(unrelated sample)
ZZZZZZ	O61341.D	09/13/20 17:10	n/a	(unrelated sample)
ZZZZZZ	O61342.D	09/13/20 17:30	n/a	(unrelated sample)
ZZZZZZ	O61343.D	09/13/20 17:51	n/a	(unrelated sample)
ZZZZZZ	O61344.D	09/13/20 18:11	n/a	(unrelated sample)
FA78564-1	O61345.D	09/13/20 18:31	n/a	2036W0BW116F
FA78564-2	O61346.D	09/13/20 18:51	n/a	2036W0BW117B
FA78564-3	O61347.D	09/13/20 19:11	n/a	2036WOU2118F
FA78564-4	O61348.D	09/13/20 19:32	n/a	2036WOU2121F
FA78564-1MS	O61349.D	09/13/20 19:52	n/a	Matrix Spike
FA78564-1MSD	O61350.D	09/13/20 20:12	n/a	Matrix Spike Duplicate
VO2360-ECC2356	O61351.D	09/13/20 20:32	n/a	Ending cal 5

**Run Sequence Report**

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2414      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2414-BFB	Z62205.D	09/11/20 17:20	n/a	BFB Tune
VZ2414-IC2414	Z62207.D	09/11/20 18:15	n/a	Initial cal 1
VZ2414-IC2414	Z62208.D	09/11/20 18:34	n/a	Initial cal 2
VZ2414-IC2414	Z62209.D	09/11/20 18:53	n/a	Initial cal 3
VZ2414-IC2414	Z62210.D	09/11/20 19:13	n/a	Initial cal 4
VZ2414-ICC2414	Z62211.D	09/11/20 19:32	n/a	Initial cal 5
VZ2414-IC2414	Z62212.D	09/11/20 19:51	n/a	Initial cal 6
VZ2414-IC2414	Z62213.D	09/11/20 20:13	n/a	Initial cal 7
VZ2414-ICV2414	Z62215.D	09/11/20 20:51	n/a	Initial cal verification 5
VZ2414-BS	Z62216.D	09/11/20 21:10	n/a	Blank Spike
VZ2414-MB	Z62218.D	09/11/20 21:49	n/a	Method Blank
FA78573-1	Z62219.D	09/11/20 22:08	n/a	(used for QC only; not part of job FA78564)
ZZZZZZ	Z62220.D	09/11/20 22:27	n/a	(unrelated sample)
ZZZZZZ	Z62221.D	09/11/20 22:47	n/a	(unrelated sample)
ZZZZZZ	Z62222.D	09/11/20 23:06	n/a	(unrelated sample)
ZZZZZZ	Z62223.D	09/11/20 23:26	n/a	(unrelated sample)
ZZZZZZ	Z62224.D	09/11/20 23:45	n/a	(unrelated sample)
ZZZZZZ	Z62225.D	09/12/20 00:04	n/a	(unrelated sample)
ZZZZZZ	Z62226.D	09/12/20 00:23	n/a	(unrelated sample)
ZZZZZZ	Z62227.D	09/12/20 00:42	n/a	(unrelated sample)
ZZZZZZ	Z62228.D	09/12/20 01:02	n/a	(unrelated sample)
ZZZZZZ	Z62229.D	09/12/20 01:21	n/a	(unrelated sample)
ZZZZZZ	Z62230.D	09/12/20 01:40	n/a	(unrelated sample)
ZZZZZZ	Z62231.D	09/12/20 02:00	n/a	(unrelated sample)
ZZZZZZ	Z62232.D	09/12/20 02:19	n/a	(unrelated sample)
FA78573-1MS	Z62233.D	09/12/20 02:38	n/a	Matrix Spike
FA78573-1MSD	Z62234.D	09/12/20 02:57	n/a	Matrix Spike Duplicate
VZ2414-ECC2414	Z62235.D	09/12/20 03:16	n/a	Ending cal 5

## Run Sequence Report

**Job Number:** FA78564  
**Account:** AHTNACAS Ahtna Global, LLC  
**Project:** Fort Ord Groundwater Monitoring

**Run ID:** VZ2417      **Method:** SW846 8260B BY SIM      **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ2417-BFB	Z62288.D	09/13/20 11:05	n/a	BFB Tune
VZ2417-CC2414	Z62289.D	09/13/20 11:28	n/a	Continuing cal 5
VZ2417-BS	Z62290.D	09/13/20 11:55	n/a	Blank Spike
VZ2417-MB	Z62292.D	09/13/20 12:33	n/a	Method Blank
FA78549-16	Z62293.D	09/13/20 12:52	n/a	(used for QC only; not part of job FA78564)
ZZZZZZ	Z62294.D	09/13/20 13:12	n/a	(unrelated sample)
ZZZZZZ	Z62295.D	09/13/20 13:31	n/a	(unrelated sample)
ZZZZZZ	Z62296.D	09/13/20 13:50	n/a	(unrelated sample)
ZZZZZZ	Z62297.D	09/13/20 14:10	n/a	(unrelated sample)
ZZZZZZ	Z62298.D	09/13/20 14:29	n/a	(unrelated sample)
ZZZZZZ	Z62299.D	09/13/20 14:48	n/a	(unrelated sample)
ZZZZZZ	Z62300.D	09/13/20 15:08	n/a	(unrelated sample)
ZZZZZZ	Z62301.D	09/13/20 15:27	n/a	(unrelated sample)
ZZZZZZ	Z62302.D	09/13/20 15:46	n/a	(unrelated sample)
ZZZZZZ	Z62303.D	09/13/20 16:06	n/a	(unrelated sample)
ZZZZZZ	Z62304.D	09/13/20 16:25	n/a	(unrelated sample)
ZZZZZZ	Z62305.D	09/13/20 16:44	n/a	(unrelated sample)
ZZZZZZ	Z62306.D	09/13/20 17:04	n/a	(unrelated sample)
FA78564-5	Z62307.D	09/13/20 17:23	n/a	2036W0BW122C
FA78564-6	Z62308.D	09/13/20 17:42	n/a	2036X0BW244F
ZZZZZZ	Z62309.D	09/13/20 18:02	n/a	(unrelated sample)
FA78576-2	Z62310.D	09/13/20 18:21	n/a	(used for QC only; not part of job FA78564)
ZZZZZZ	Z62311.D	09/13/20 18:40	n/a	(unrelated sample)
ZZZZZZ	Z62312.D	09/13/20 18:59	n/a	(unrelated sample)
ZZZZZZ	Z62313.D	09/13/20 19:18	n/a	(unrelated sample)
FA78549-16MS	Z62314.D	09/13/20 19:38	n/a	Matrix Spike
FA78549-16MSD	Z62315.D	09/13/20 19:57	n/a	Matrix Spike Duplicate
FA78576-2MS	Z62316.D	09/13/20 20:16	n/a	Matrix Spike
FA78576-2MSD	Z62317.D	09/13/20 20:35	n/a	Matrix Spike Duplicate
VZ2417-ECC2414	Z62318.D	09/13/20 20:54	n/a	Ending cal 5

MS Volatiles

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Raw Data

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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
Data File : O61345.D  
Acq On : 13 Sep 2020 6:31 pm  
Operator : stutip  
Sample : fa78564-1 Inst : MSVOA12  
Misc : MS47201,VO2360,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 13:47:59 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sat Sep 12 09:29:43 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	168342	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	134027	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	80432	5.92	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	118.40%	
19) Toluene-d8	8.896	98	142133	4.70	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.00%	
Target Compounds						
5) Methylene Chloride	4.707	49	1327	0.04	ug/L	95
9) Chloroform	6.333	83	1502	0.06	ug/L #	54

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1  
7

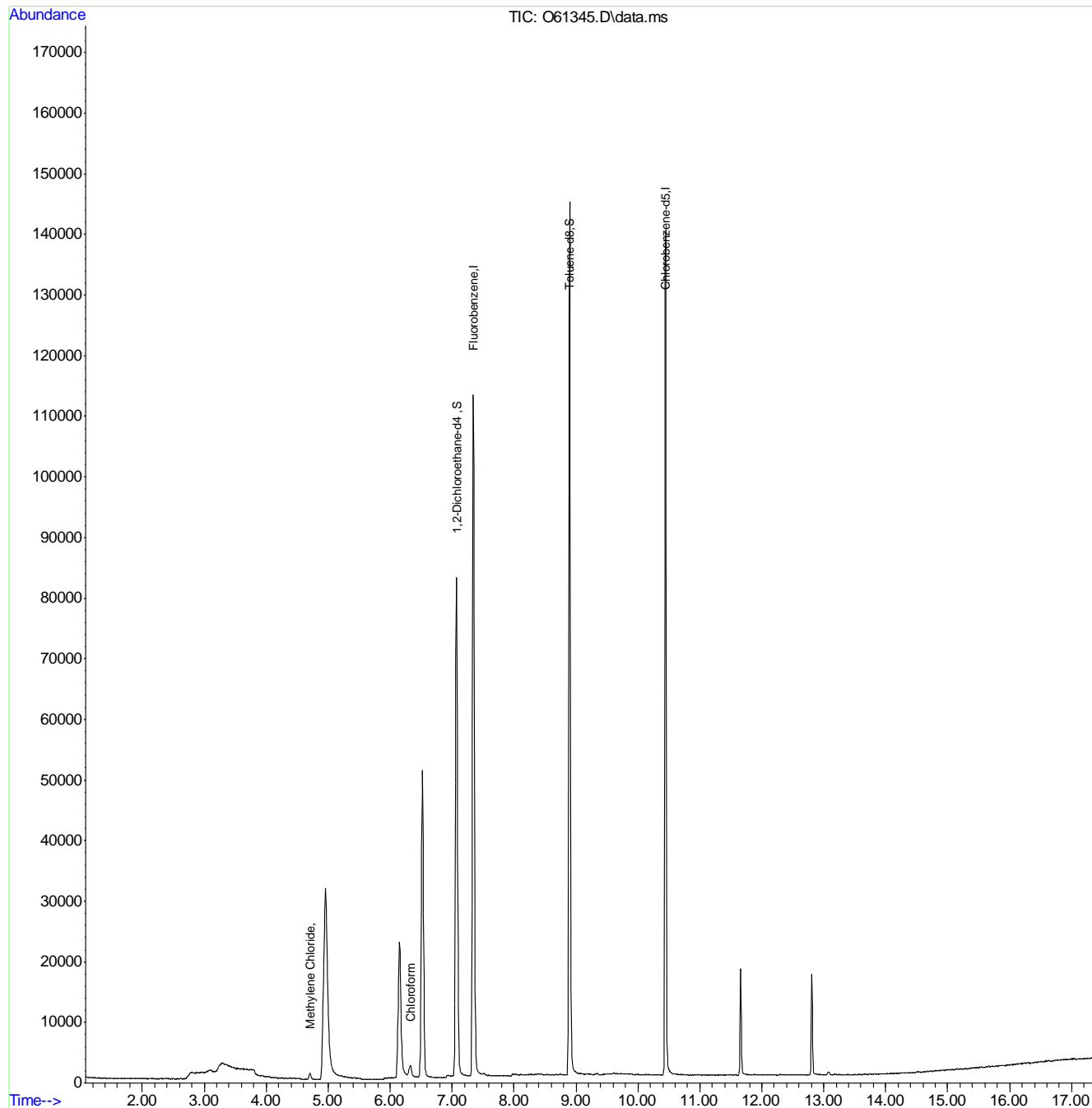


Quantitation Report (QT Reviewed)

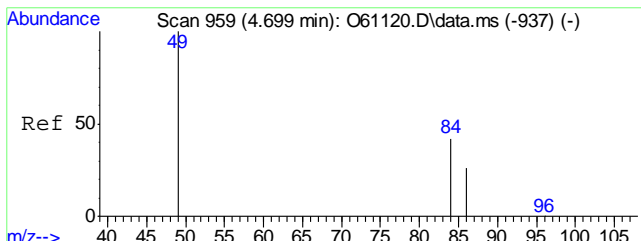
Data Path : C:\msdchem\2\data\091320\  
Data File : O61345.D  
Acq On : 13 Sep 2020 6:31 pm  
Operator : stutip  
Sample : fa78564-1  
Misc : MS47201,VO2360,,,,,  
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:47:59 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sat Sep 12 09:29:43 2020  
Response via : Initial Calibration

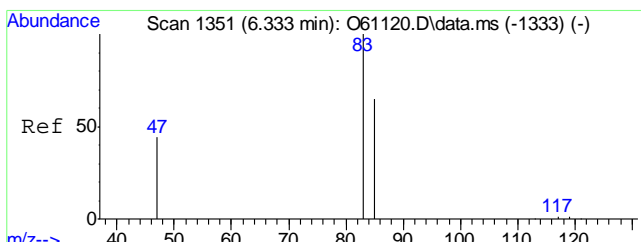
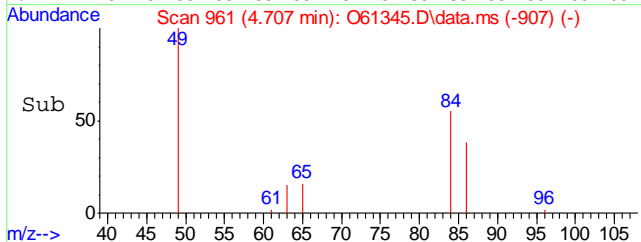
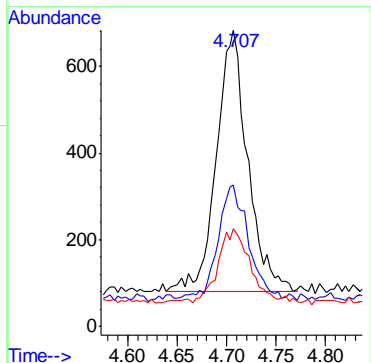
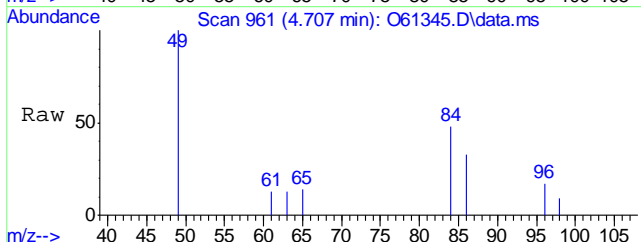


7.1.1  
7



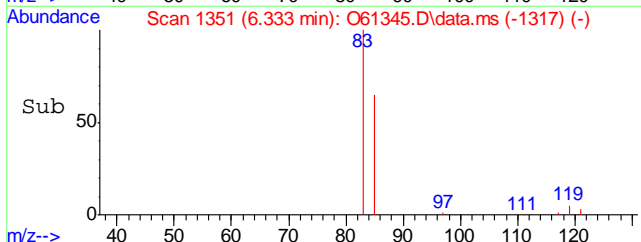
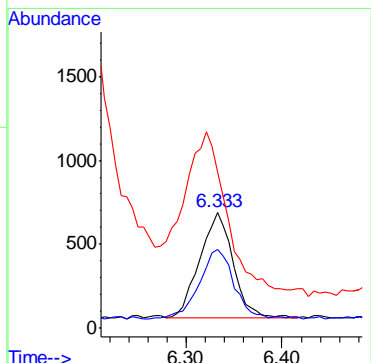
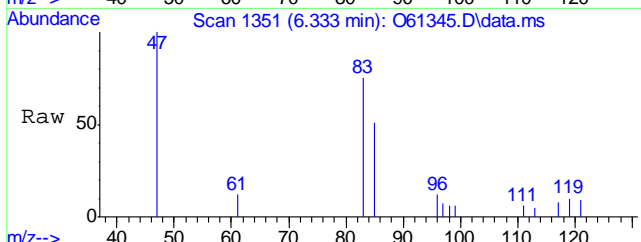
#5  
 Methylene Chloride  
 Concen: 0.04 ug/L  
 RT: 4.707 min Scan# 961  
 Delta R.T. 0.004 min  
 Lab File: O61345.D  
 Acq: 13 Sep 2020 6:31 pm

Tgt Ion	Resp	Lower	Upper
49	1327		
84	44.1	17.9	77.9
86	28.0	0.0	59.8



#9  
 Chloroform  
 Concen: 0.06 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61345.D  
 Acq: 13 Sep 2020 6:31 pm

Tgt Ion	Resp	Lower	Upper
83	1502		
85	64.2	33.0	93.0
47	109.9	8.1	68.1#



7.1.1  
 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
Data File : O61346.D  
Acq On : 13 Sep 2020 6:51 pm  
Operator : stutip  
Sample : fa78564-2 Inst : MSVOA12  
Misc : MS47201,VO2360,,,,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 14 13:49:28 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	168998	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	132387	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.068	65	80774	5.92	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	118.40%	
19) Toluene-d8	8.896	98	141811	4.75	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.00%	
Target Compounds						
14) 1,2-Dichloroethane	7.139	62	7152	0.28	ug/L	97
21) Tetrachloroethene	9.343	166	22373	1.55	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

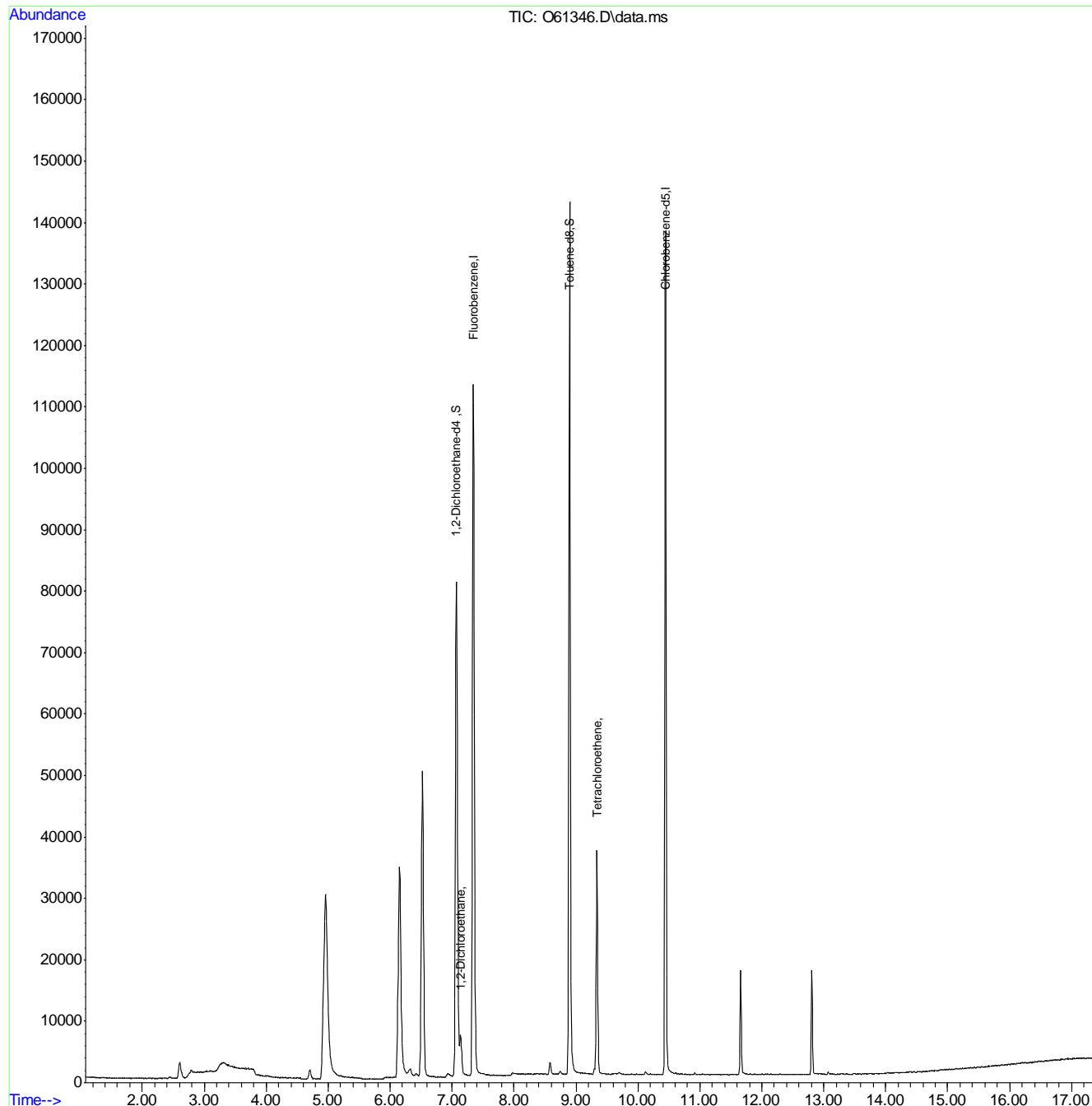
7.12  
7

Quantitation Report (QT Reviewed)

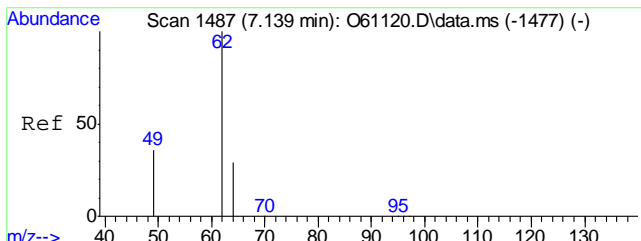
Data Path : C:\msdchem\2\data\091320\  
 Data File : O61346.D  
 Acq On : 13 Sep 2020 6:51 pm  
 Operator : stutip  
 Sample : fa78564-2  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:49:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

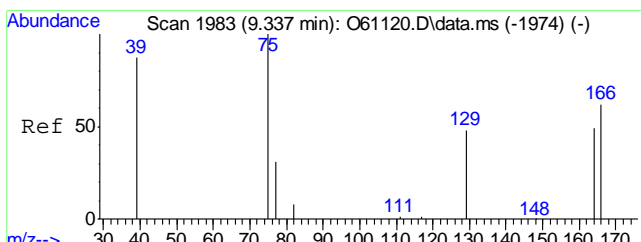
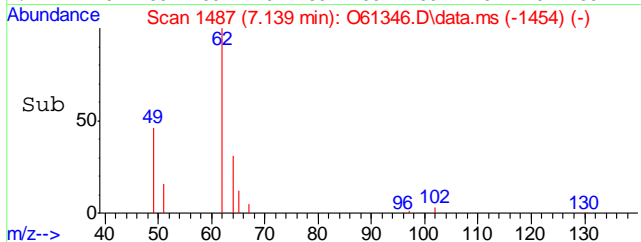
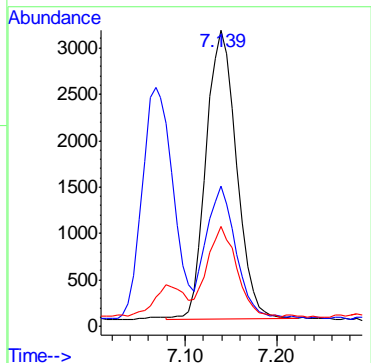
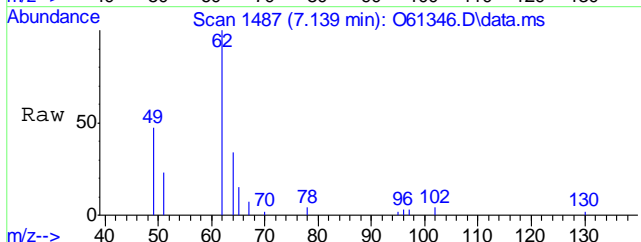


7.12  
7



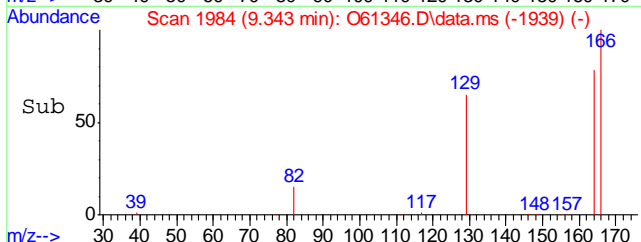
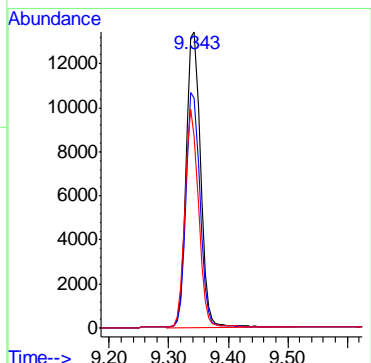
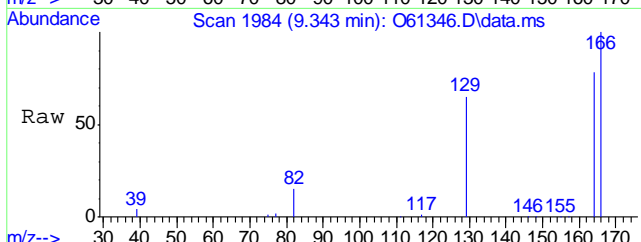
#14  
 1,2-Dichloroethane  
 Concen: 0.28 ug/L  
 RT: 7.139 min Scan# 1487  
 Delta R.T. -0.006 min  
 Lab File: O61346.D  
 Acq: 13 Sep 2020 6:51 pm

Tgt Ion	Resp	Lower	Upper
62	7152	100	
49	45.4	18.0	78.0
64	30.9	1.5	61.5



#21  
 Tetrachloroethene  
 Concen: 1.55 ug/L  
 RT: 9.343 min Scan# 1984  
 Delta R.T. 0.000 min  
 Lab File: O61346.D  
 Acq: 13 Sep 2020 6:51 pm

Tgt Ion	Resp	Lower	Upper
166	22373	100	
164	77.7	47.3	107.3
129	64.5	37.5	97.5



7.12  
 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
Data File : O61347.D  
Acq On : 13 Sep 2020 7:11 pm  
Operator : stutip  
Sample : fa78564-3 Inst : MSVOA12  
Misc : MS47201,VO2360,,,,,  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 14 13:49:51 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.340	96	163470	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	132432	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.068	65	79227	6.00	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	120.00%	
19) Toluene-d8	8.896	98	139370	4.67	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	93.40%	
Target Compounds						
9) Chloroform	6.327	83	16010	0.61	ug/L	90
10) Carbon Tetrachloride	6.505	117	116470	6.55	ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

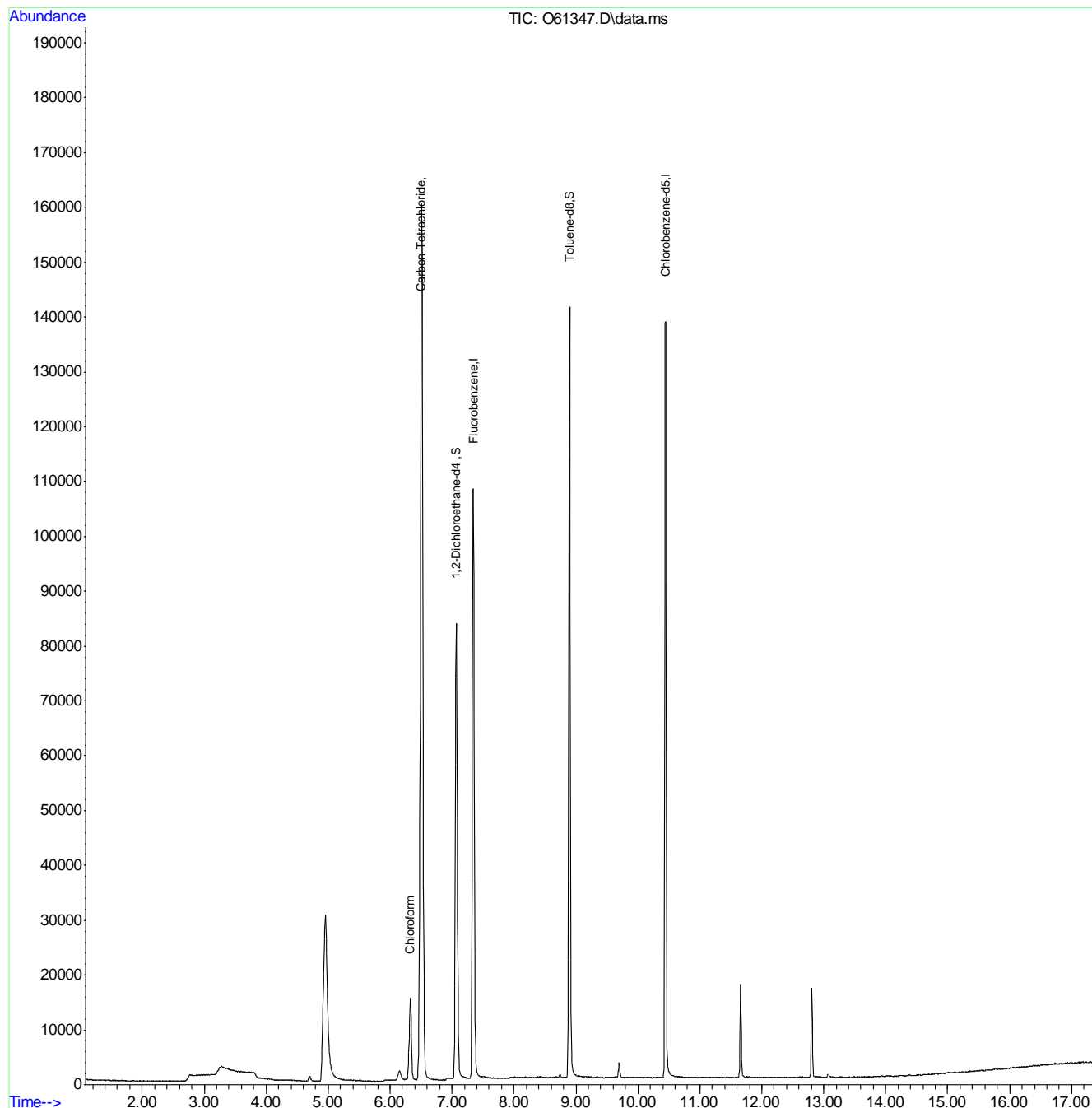
7.1.3  
7

Quantitation Report (QT Reviewed)

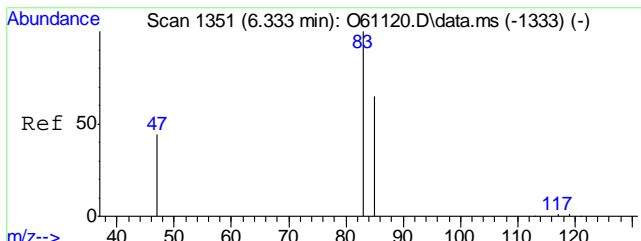
Data Path : C:\msdchem\2\data\091320\  
 Data File : O61347.D  
 Acq On : 13 Sep 2020 7:11 pm  
 Operator : stutip  
 Sample : fa78564-3  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:49:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

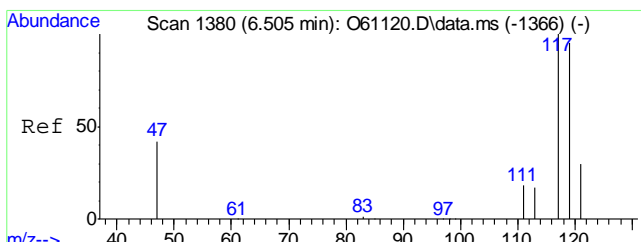
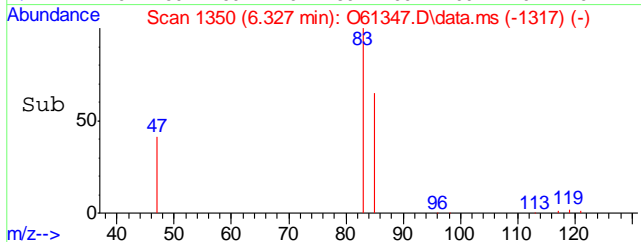
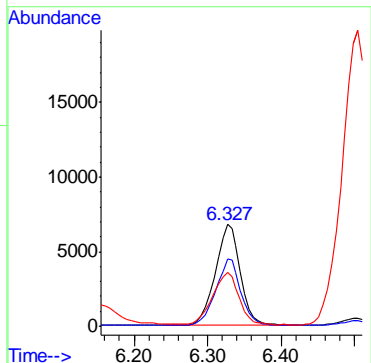
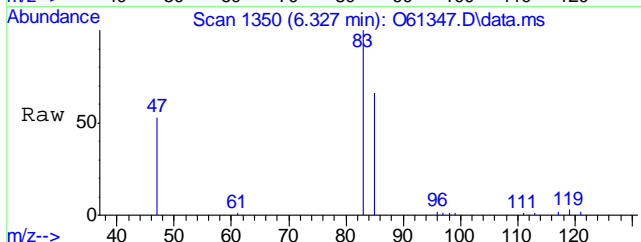


7.13  
7



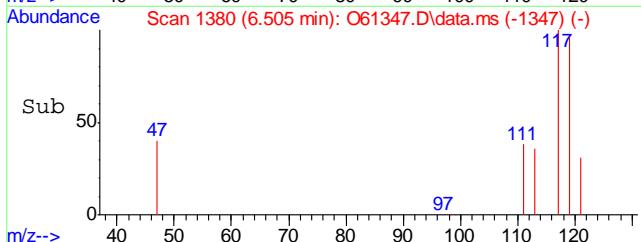
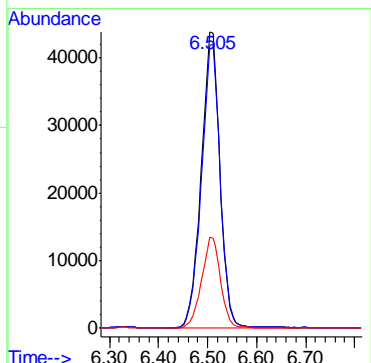
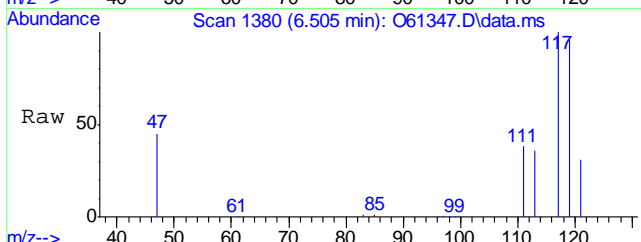
#9  
Chloroform  
Concen: 0.61 ug/L  
RT: 6.327 min Scan# 1350  
Delta R.T. -0.006 min  
Lab File: O61347.D  
Acq: 13 Sep 2020 7:11 pm

Tgt Ion	Resp	Lower	Upper
83	16010		
85	65.3	33.0	93.0
47	51.9	8.1	68.1



#10  
Carbon Tetrachloride  
Concen: 6.55 ug/L  
RT: 6.505 min Scan# 1380  
Delta R.T. -0.006 min  
Lab File: O61347.D  
Acq: 13 Sep 2020 7:11 pm

Tgt Ion	Resp	Lower	Upper
117	116470		
119	95.6	80.9	140.9
121	30.7	4.1	64.1





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
 Data File : 061348.D  
 Acq On : 13 Sep 2020 7:32 pm  
 Operator : stutip  
 Sample : fa78564-4 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 14 13:50:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.340	96	164246	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	139552	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.067	65	79073	5.96	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	119.20%	
19) Toluene-d8	8.896	98	138590	4.40	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	88.00%	
Target Compounds						
9) Chloroform	6.333	83	5417	0.21	ug/L	Qvalue 80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

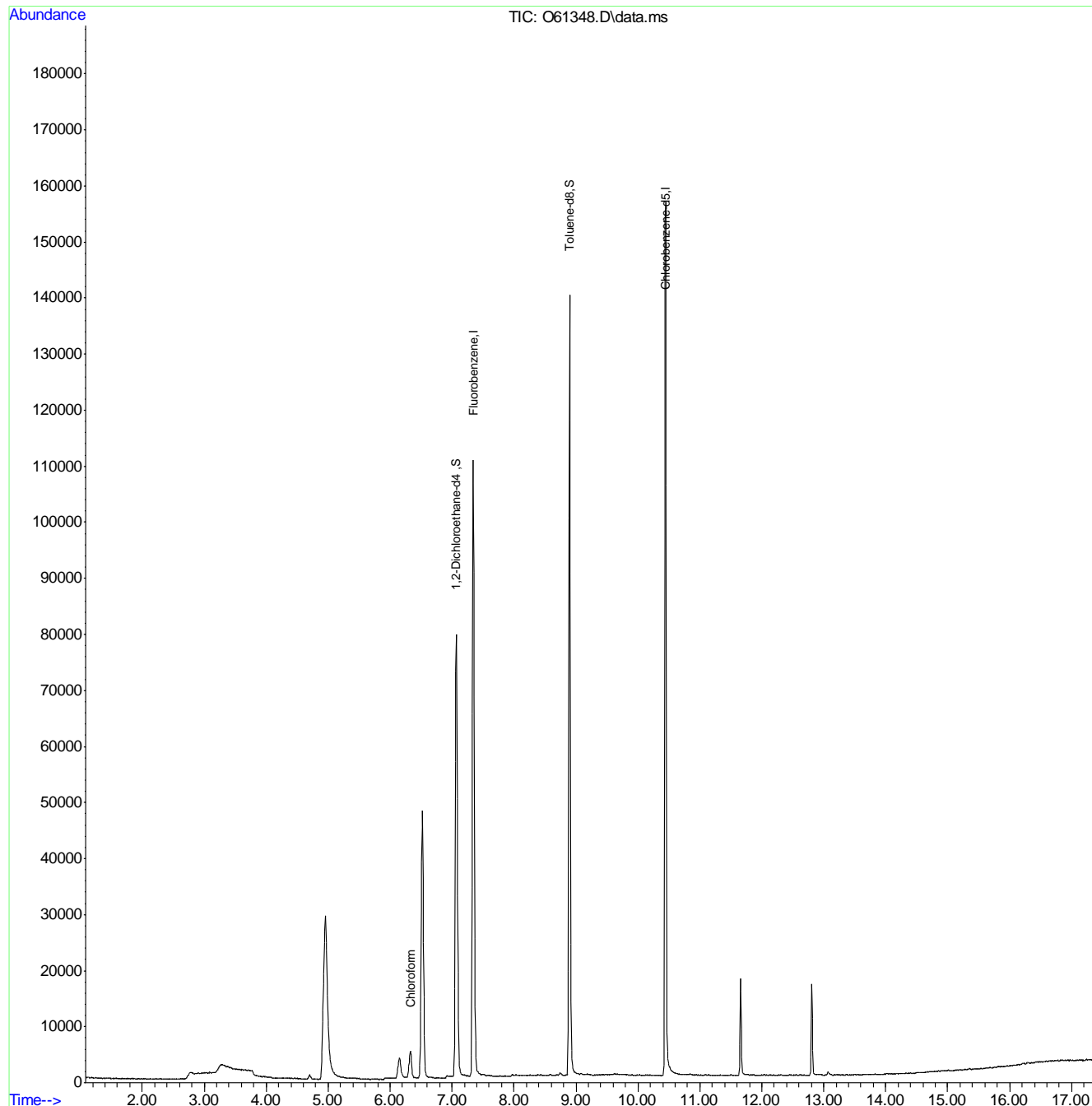
7.14  
7

Quantitation Report (QT Reviewed)

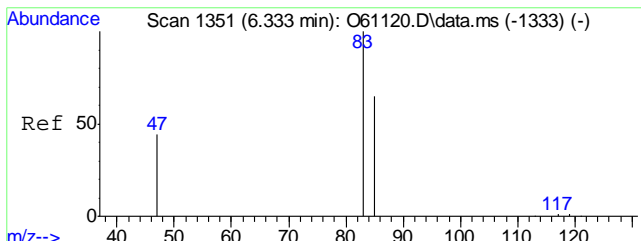
Data Path : C:\msdchem\2\data\091320\  
 Data File : O61348.D  
 Acq On : 13 Sep 2020 7:32 pm  
 Operator : stutip  
 Sample : fa78564-4  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 23 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:50:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

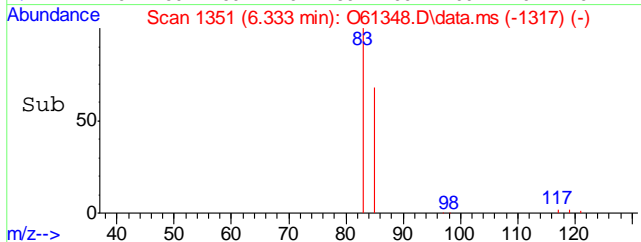
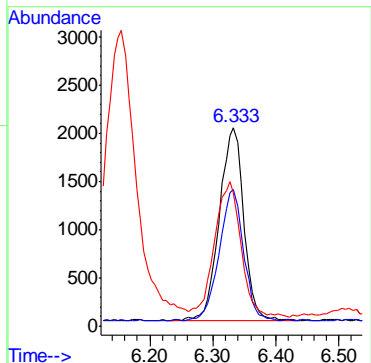
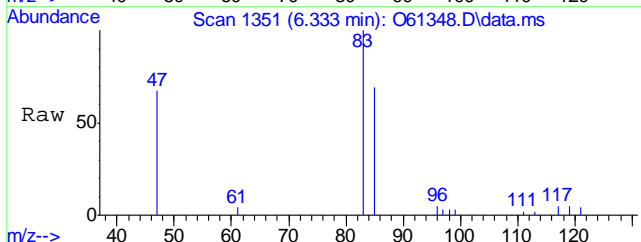


7.1.4  
7



#9  
 Chloroform  
 Concen: 0.21 ug/L  
 RT: 6.333 min Scan# 1351  
 Delta R.T. -0.000 min  
 Lab File: O61348.D  
 Acq: 13 Sep 2020 7:32 pm

Tgt Ion	Resp	Lower	Upper
83	5417		
85	67.7	33.0	93.0
47	63.5	8.1	68.1



7.14  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2417\  
Data File : Z62307.d  
Acq On : 13 Sep 2020 5:23 pm  
Operator : stutip  
Sample : fa78564-5  
Misc : MS47203,VZ2417,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 07:07:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1374616	5.00	ppb	0.00
18) Chlorobenzene-d5	10.515	117	1121437	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	489392	5.76	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	115.20%
19) Toluene-d8	8.961	98	1325940	4.87	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
Target Compounds						
5) Methylene Chloride	4.713	84	11928	0.09	ppb	Qvalue 90
-----						

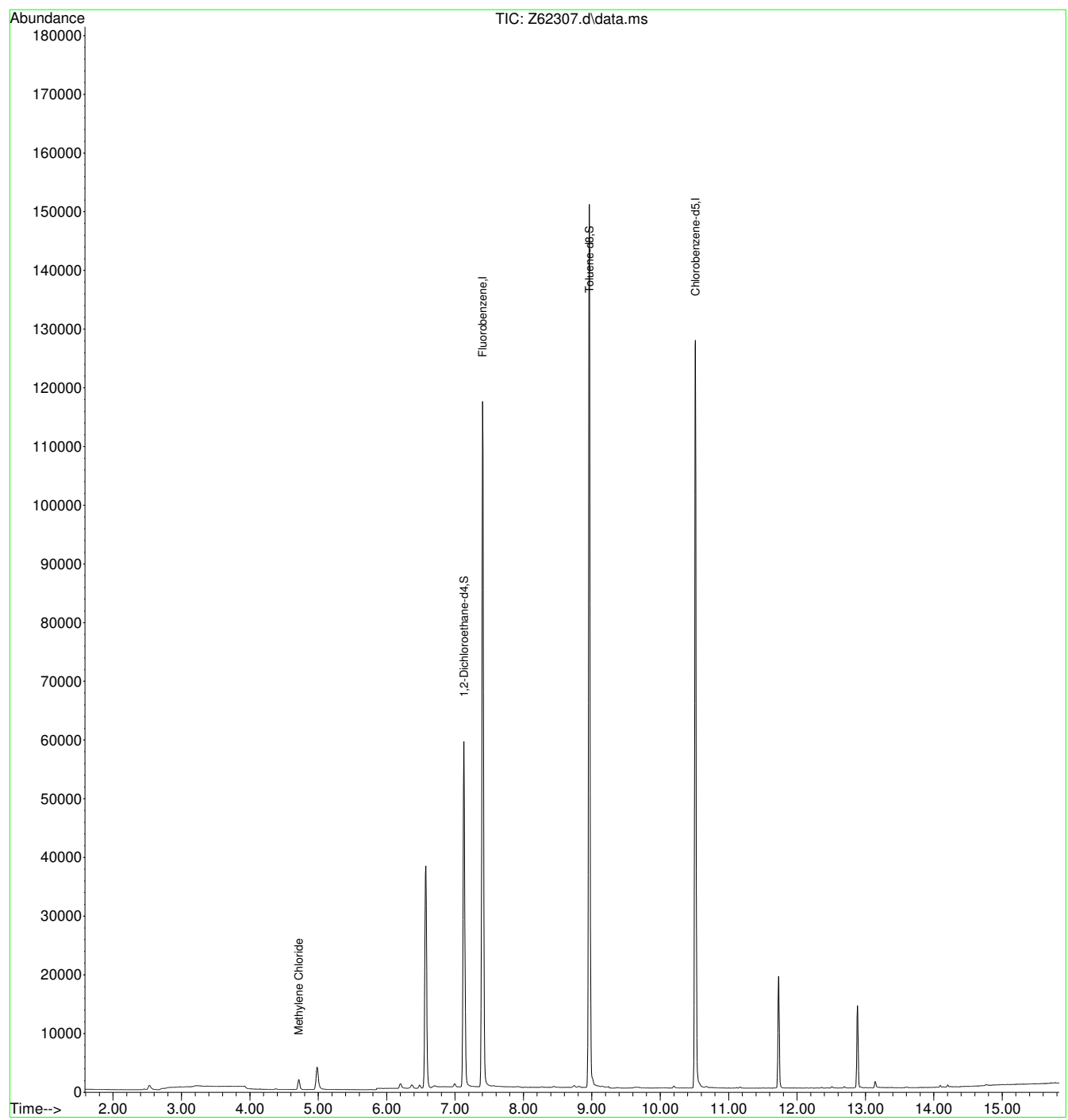
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.15  
7

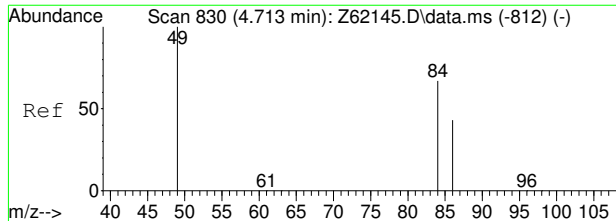
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2417\  
Data File : Z62307.d  
Acq On : 13 Sep 2020 5:23 pm  
Operator : stutip  
Sample : fa78564-5  
Misc : MS47203,VZ2417,,,,,  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 07:07:52 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

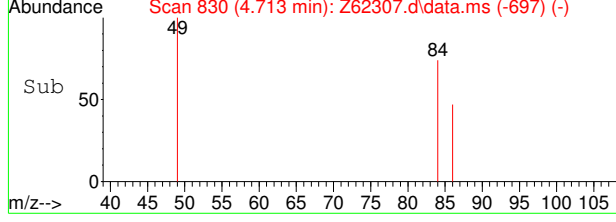
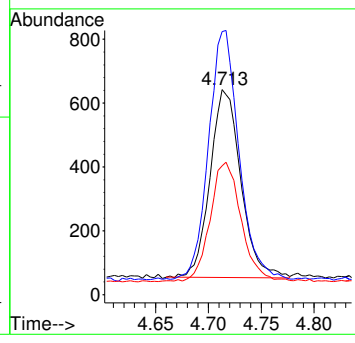
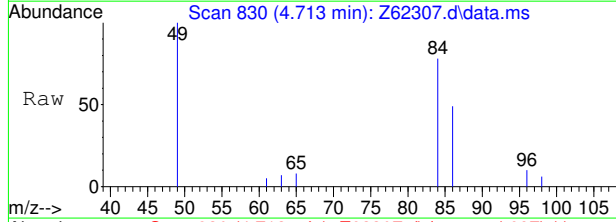


7.15  
7



#5  
 Methylene Chloride  
 Concen: 0.09 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62307.d  
 Acq: 13 Sep 2020 5:23 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	132.0	128.7	168.7
86	61.3	43.9	83.9



7.15  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091320\  
Data File : Z62308.D  
Acq On : 13 Sep 2020 5:42 pm  
Operator : stutip  
Sample : fa78564-6  
Misc : MS47203,VZ2417,,,,,  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 15 17:41:57 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1401475	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1134328	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	501253	5.78	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	115.60%	
19) Toluene-d8	8.961	98	1354589	4.92	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%	
Target Compounds							
5) Methylene Chloride	4.713	84	12279	0.09	ppb	90	
9) Chloroform	6.377	83	14222	0.07	ppb	94	
-----							

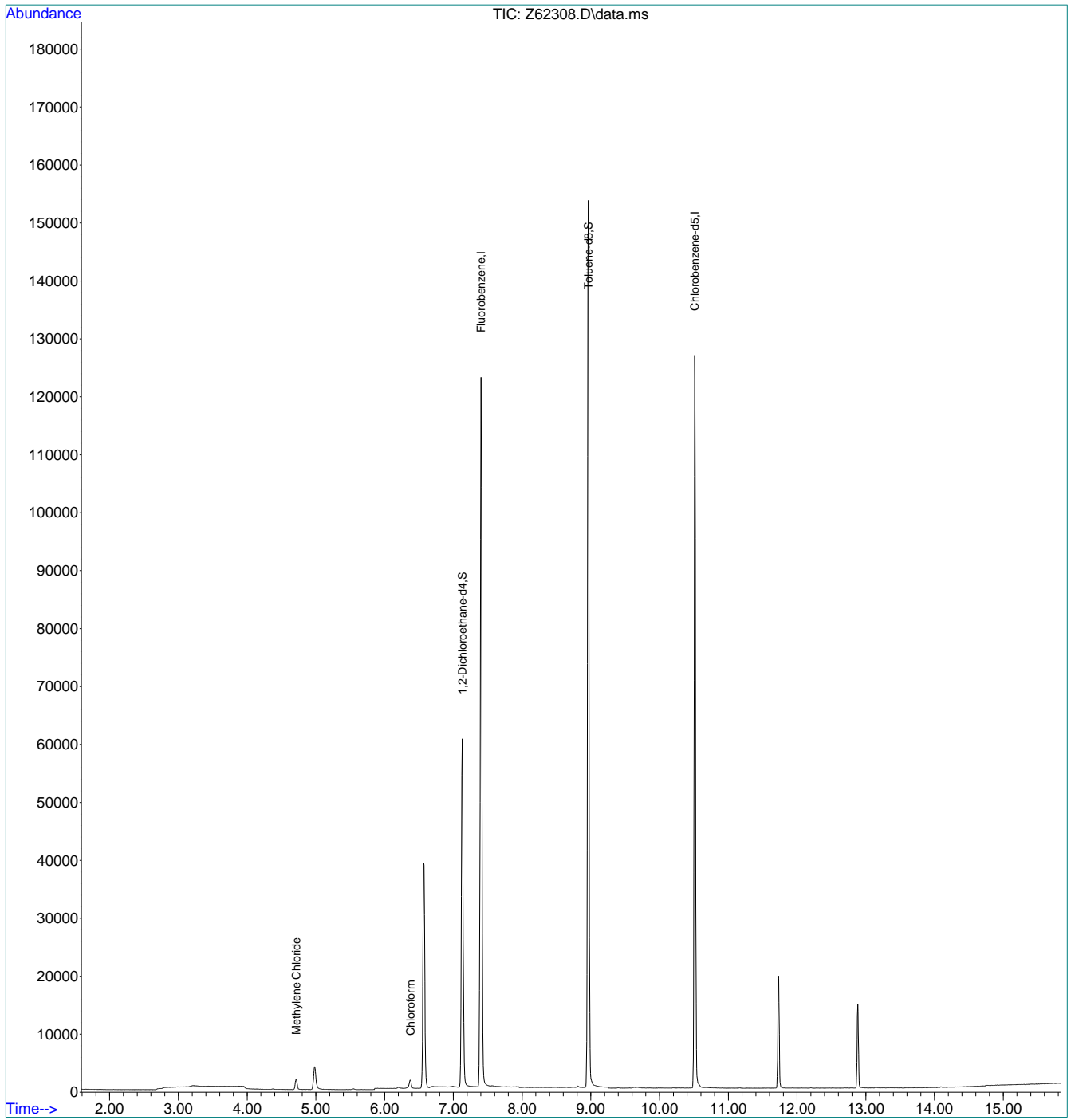
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.6  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091320\  
Data File : Z62308.D  
Acq On : 13 Sep 2020 5:42 pm  
Operator : stutip  
Sample : fa78564-6  
Misc : MS47203,VZ2417,,,,,  
ALS Vial : 19 Sample Multiplier: 1

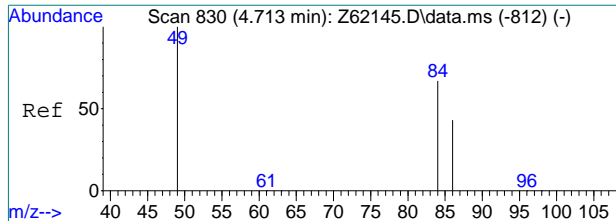
Quant Time: Sep 15 17:41:57 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.1.6  
7



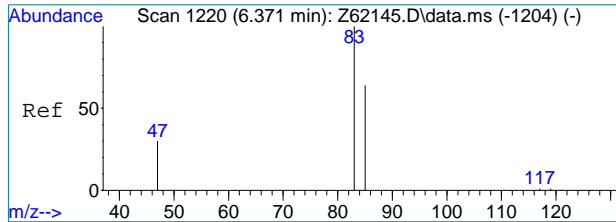
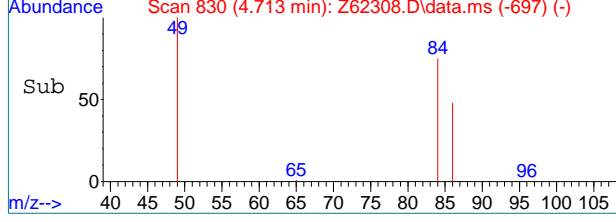
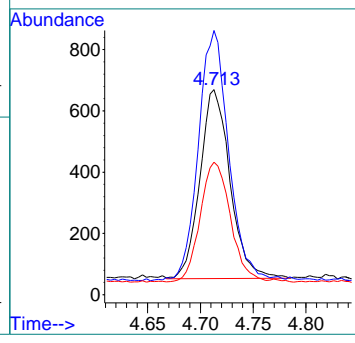
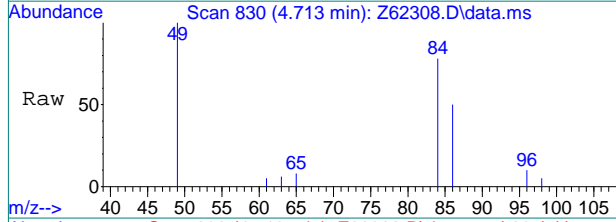




#5  
 Methylene Chloride  
 Concen: 0.09 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. -0.000 min  
 Lab File: Z62308.D  
 Acq: 13 Sep 2020 5:42 pm

Tgt Ion: 84 Resp: 12279

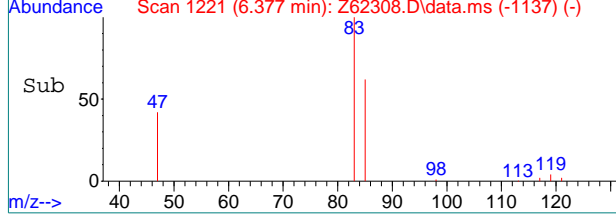
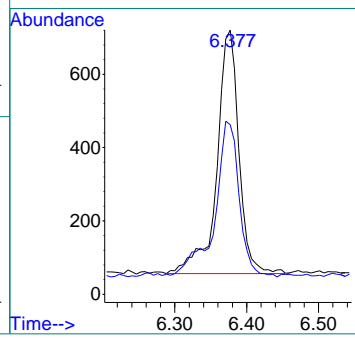
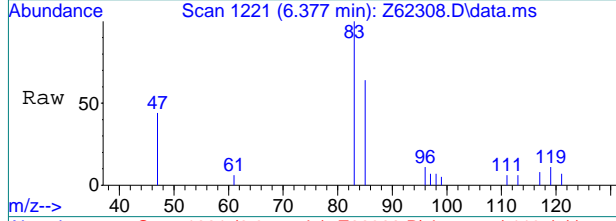
Ion	Ratio	Lower	Upper
84	100		
49	131.0	128.7	168.7
86	63.5	43.9	83.9



#9  
 Chloroform  
 Concen: 0.07 ppb  
 RT: 6.377 min Scan# 1221  
 Delta R.T. -0.000 min  
 Lab File: Z62308.D  
 Acq: 13 Sep 2020 5:42 pm

Tgt Ion: 83 Resp: 14222

Ion	Ratio	Lower	Upper
83	100		
85	70.8	46.1	86.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2417\  
 Data File : Z62292.d  
 Acq On : 13 Sep 2020 12:33 pm  
 Operator : stutip  
 Sample : MB  
 Misc : MS47199,VZ2417,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 07:07:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) Fluorobenzene	7.401	96	1742686	5.00	ppb	0.00
18) Chlorobenzene-d5	10.511	117	1397616	5.00	ppb	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.130	65	605847	5.62	ppb	0.00
Spiked Amount	5.000	Range	79 - 125	Recovery	=	112.40%
19) Toluene-d8	8.961	98	1704424	5.02	ppb	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
Target Compounds						
5) Methylene Chloride	4.713	84	37852	0.22	ppb	Qvalue # 88
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

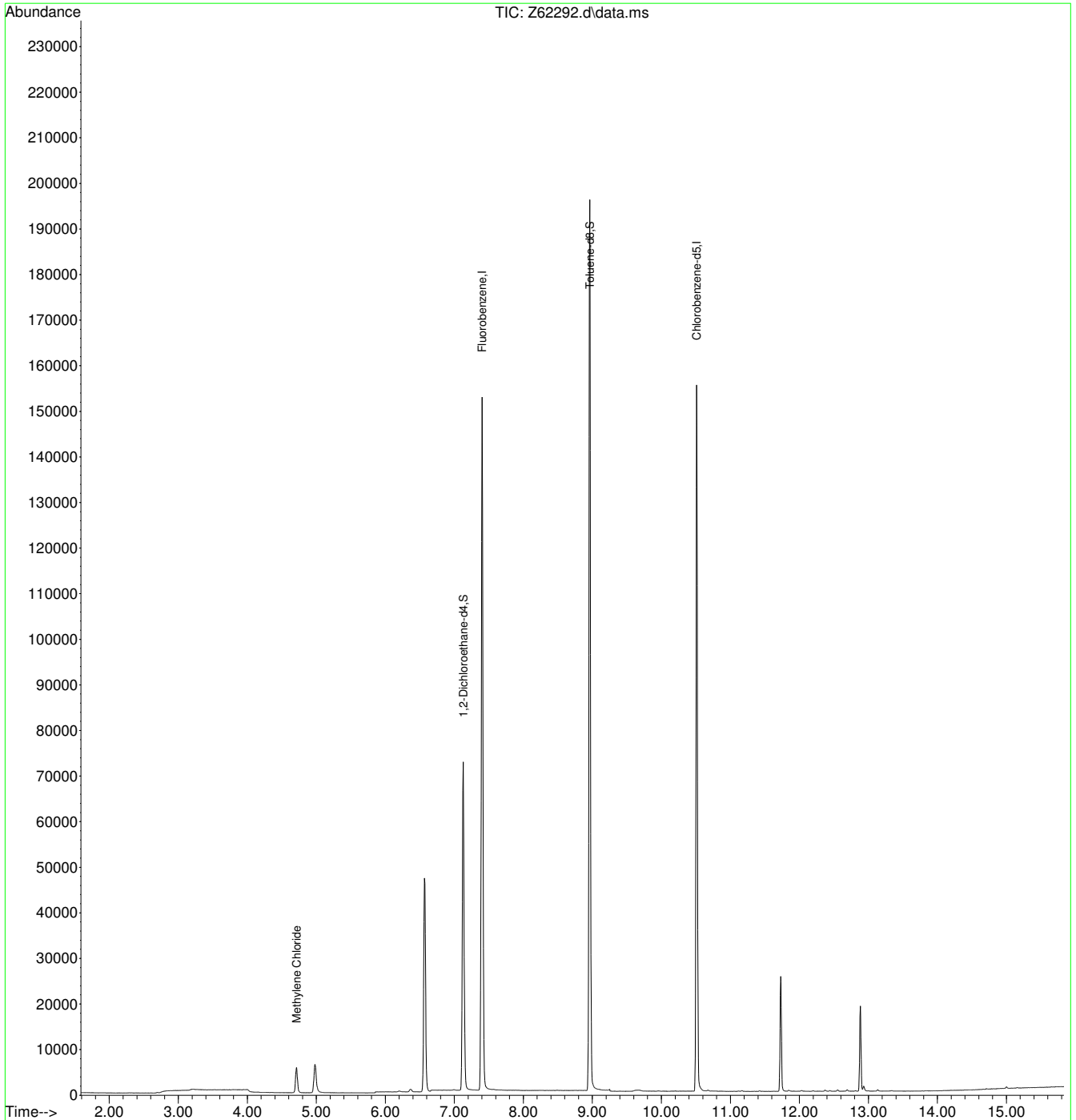
7.2.1  
7



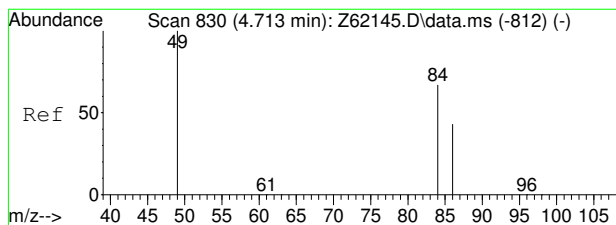
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2417\  
 Data File : Z62292.d  
 Acq On : 13 Sep 2020 12:33 pm  
 Operator : stutip  
 Sample : MB  
 Misc : MS47199,VZ2417,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 07:07:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

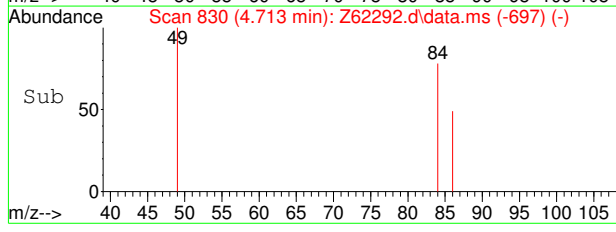
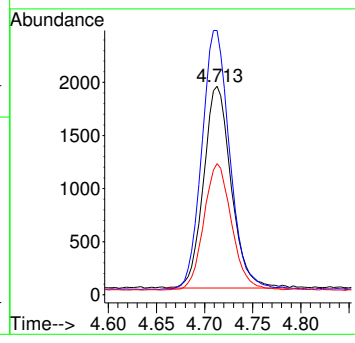
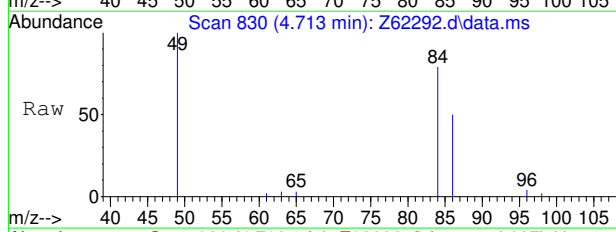


7.2.1  
7



#5  
 Methylene Chloride  
 Concen: 0.22 ppb  
 RT: 4.713 min Scan# 830  
 Delta R.T. 0.000 min  
 Lab File: Z62292.d  
 Acq: 13 Sep 2020 12:33 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
49	128.2	128.7	168.7#
86	62.5	43.9	83.9



7.2.1  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61328.d  
 Acq On : 13 Sep 2020 12:47 pm  
 Operator : stutip  
 Sample : mb  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 08:32:51 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	7.346	96	219622	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	169409	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.073	65	95368	5.38	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	107.60%	
19) Toluene-d8	8.896	98	187861	4.92	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	98.40%	

Target Compounds Qvalue

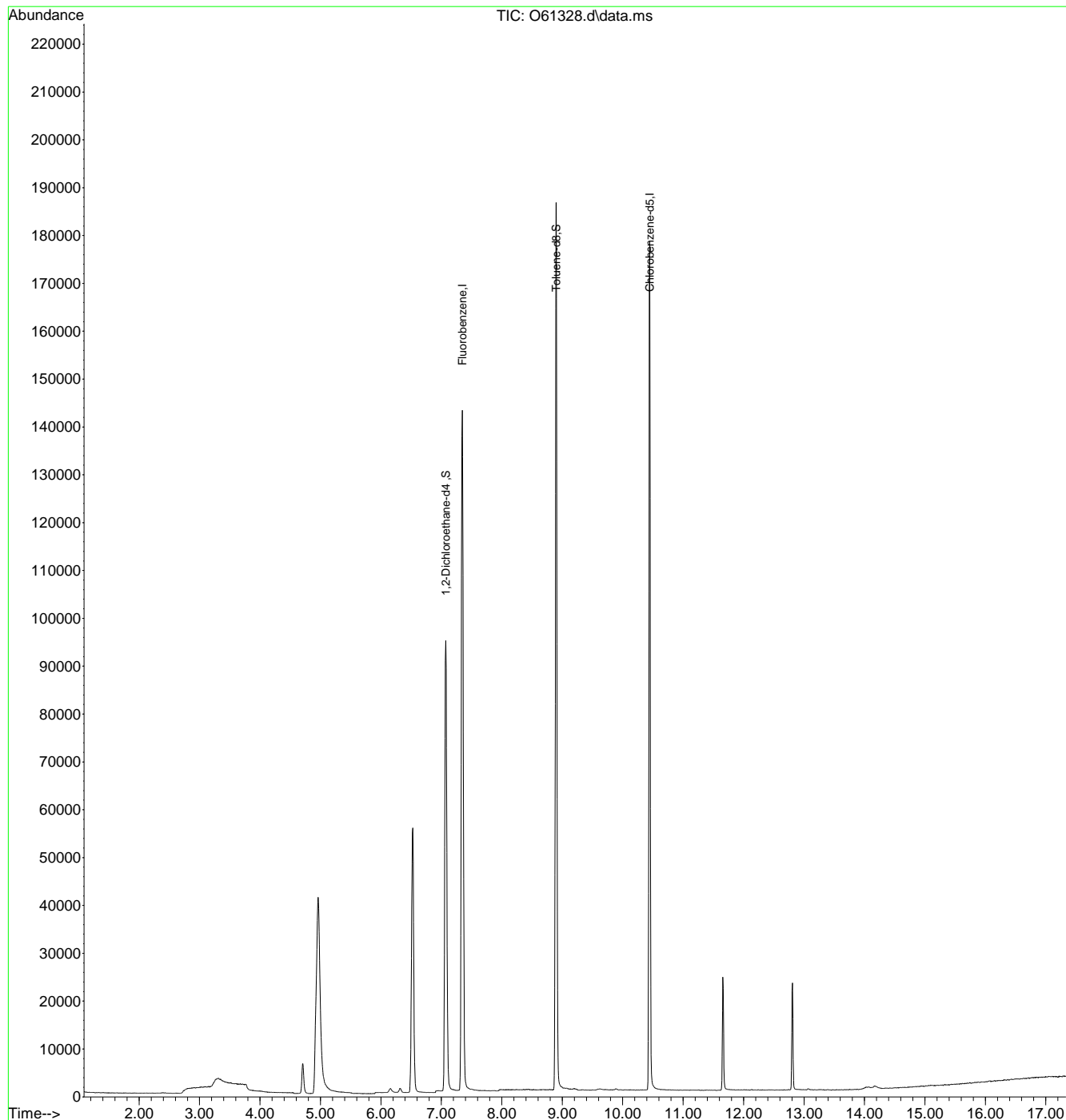
-----

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
Data File : O61328.d  
Acq On : 13 Sep 2020 12:47 pm  
Operator : stutip  
Sample : mb  
Misc : MS47193,VO2360,,,,,  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 08:32:51 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Sun Sep 13 19:20:40 2020  
Response via : Initial Calibration



7.2.2  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2417\  
 Data File : Z62290.d  
 Acq On : 13 Sep 2020 11:55 am  
 Operator : stutip  
 Sample : BS  
 Misc : MS47199,VZ2417,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:07:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1886079	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1527862	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	621318	5.33	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	106.60%	
19) Toluene-d8	8.957	98	1846312	4.98	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	930473	5.93	ppb		100
3) Chloromethane	2.729	50	786511	5.99	ppb		99
4) 1,1-Dichloroethene	4.083	96	648218	5.67	ppb		90
5) Methylene Chloride	4.713	84	862648	4.86	ppb		89
6) trans-1,2-Dichloroethene	4.886	96	795278	5.71	ppb		90
7) 1,1-Dichloroethane	5.542	63	1375256	5.82	ppb	#	100
8) cis-1,2-Dichloroethene	6.104	96	828644	5.36	ppb		95
9) Chloroform	6.371	83	1545657	5.45	ppb		99
10) Carbon Tetrachloride	6.543	117	1047257	5.44	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1390441	5.60	ppb		99
12) Benzene	6.994	78	3029341	5.77	ppb		94
14) 1,2-Dichloroethane	7.191	62	1086284	5.49	ppb		99
15) Trichloroethene	7.564	95	918060	5.70	ppb		92
16) 1,2-Dichloropropane	8.101	63	731673	5.48	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	718197	4.92	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	589285	4.59	ppb		99
21) Tetrachloroethene	9.399	166	912918	5.27	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

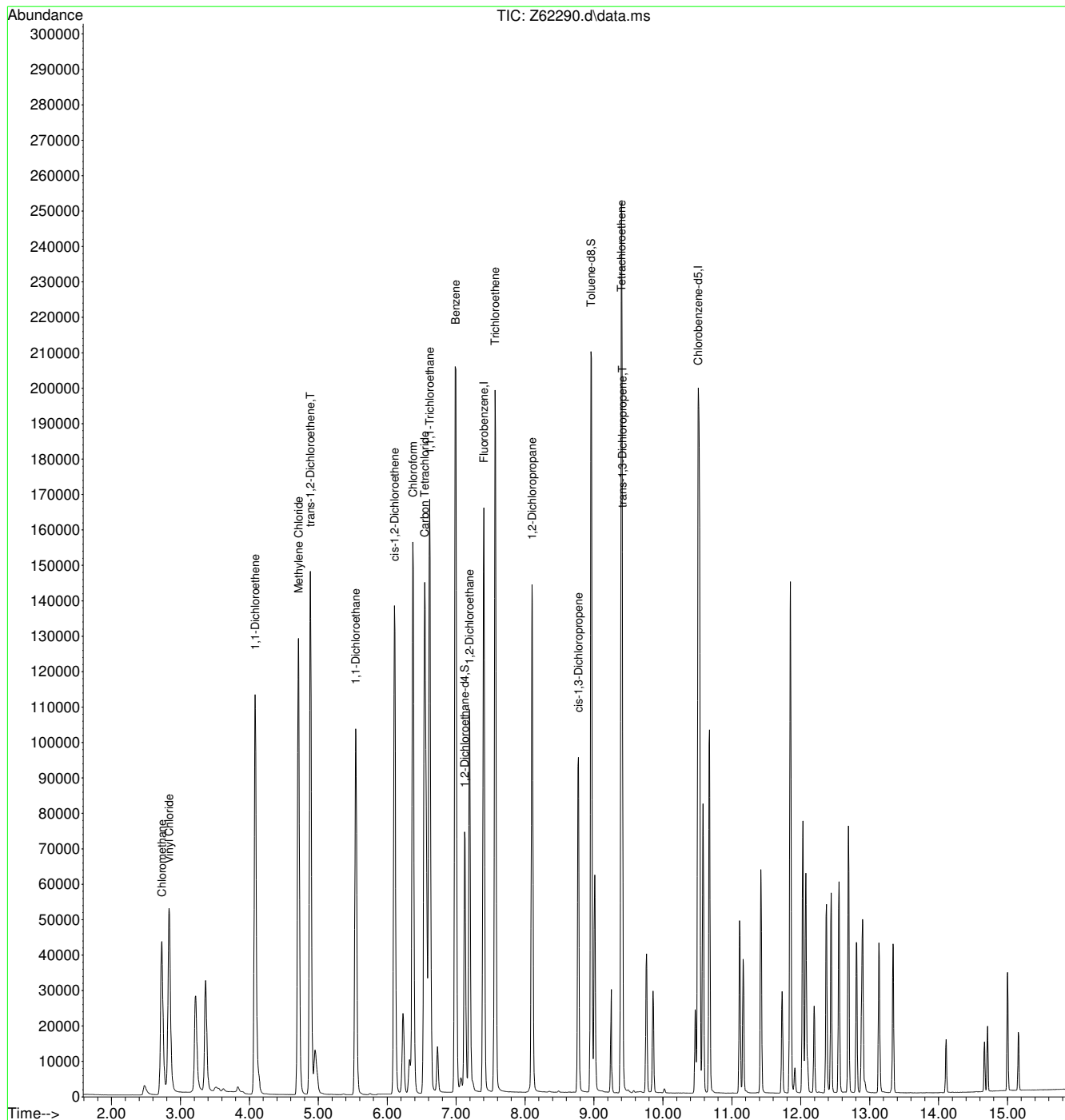
7.3.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2417\  
 Data File : Z62290.d  
 Acq On : 13 Sep 2020 11:55 am  
 Operator : stutip  
 Sample : BS  
 Misc : MS47199,VZ2417,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:07:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.3.1  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61326.d  
 Acq On : 13 Sep 2020 12:06 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 08:32:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	283212	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	224536	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	111453	4.87	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	97.40%		
19) Toluene-d8	8.896	98	232872	4.60	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	158277	4.99	ug/L		98
3) Chloromethane	2.799	50	216910	4.63	ug/L		94
4) 1,1-Dichloroethene	4.085	61	232185	5.93	ug/L		91
5) Methylene Chloride	4.696	49	326524	5.32	ug/L		95
6) trans-1,2-Dichloroethene	4.865	61	252580	5.59	ug/L		86
7) 1,1-Dichloroethane	5.506	63	286435	5.46	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	132538	5.11	ug/L		84
9) Chloroform	6.327	83	232001	5.14	ug/L		95
10) Carbon Tetrachloride	6.505	117	165675	5.38	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	180403	5.18	ug/L		92
12) Benzene	6.937	78	472163m	5.40	ug/L		
14) 1,2-Dichloroethane	7.139	62	216124	5.06	ug/L		93
15) Trichloroethene	7.512	95	140453	5.27	ug/L		86
16) 1,2-Dichloropropane	8.040	63	155545	5.33	ug/L		94
17) cis-1,3-Dichloropropene	8.707	75	147095	4.86	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	143008	4.85	ug/L		98
21) Tetrachloroethene	9.337	166	132501	5.39	ug/L		96
22) 1,4-Dichlorobenzene	12.821	146	268960	5.17	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	42314	4.58	ug/L		86

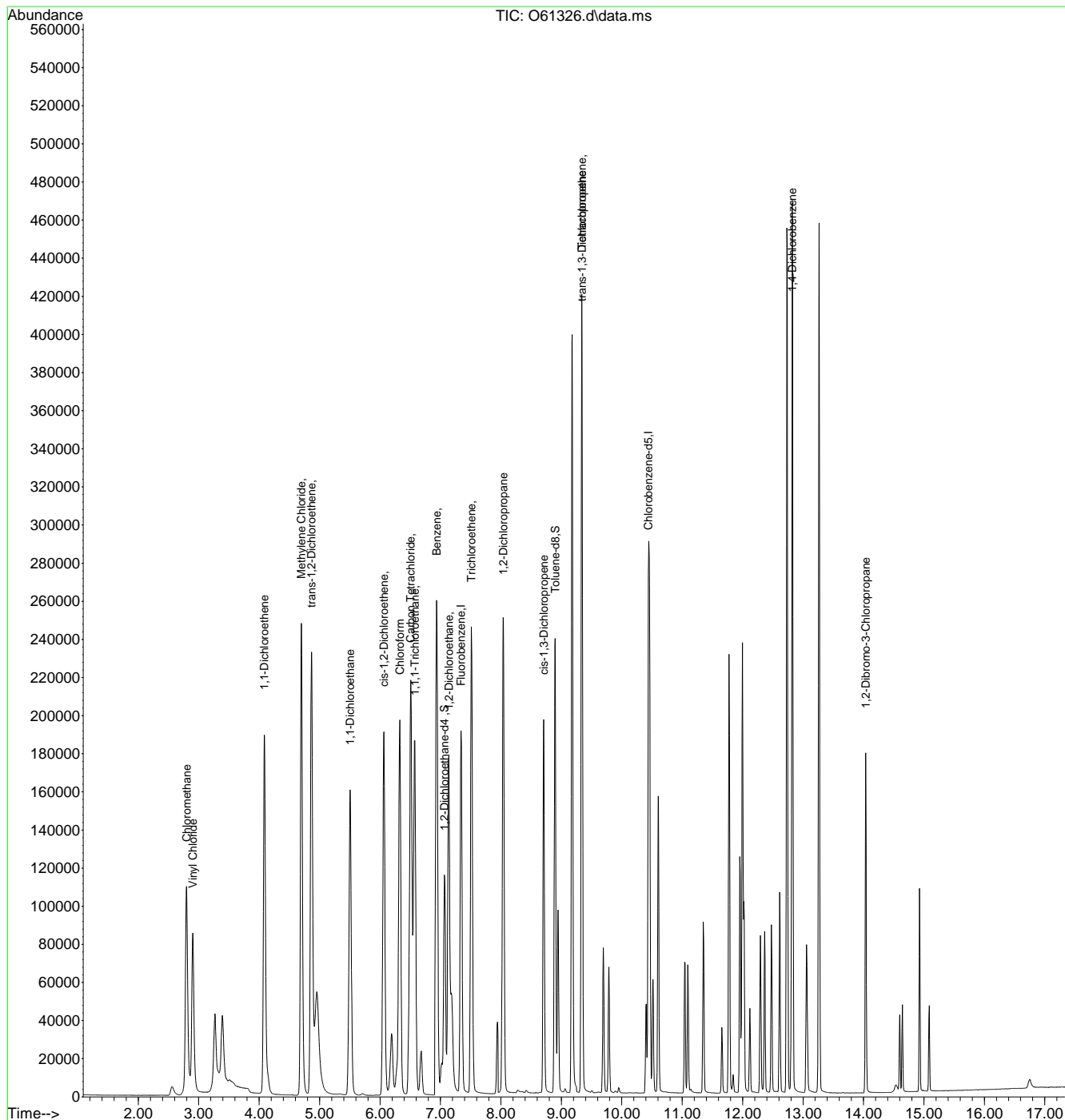
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.32  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61326.d  
 Acq On : 13 Sep 2020 12:06 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 08:32:16 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.3.2  
7

# Manual Integration Approval Summary

**Sample Number:** VO2360-BS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61326.D      **Analyst approved:** 09/14/20 08:47 Jennifer Ferreira  
**Injection Time:** 09/13/20 12:06      **Supervisor approved:** 09/14/20 13:35 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

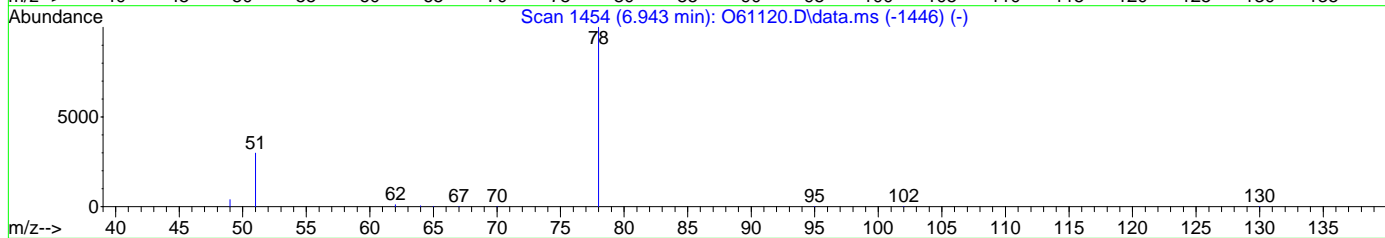
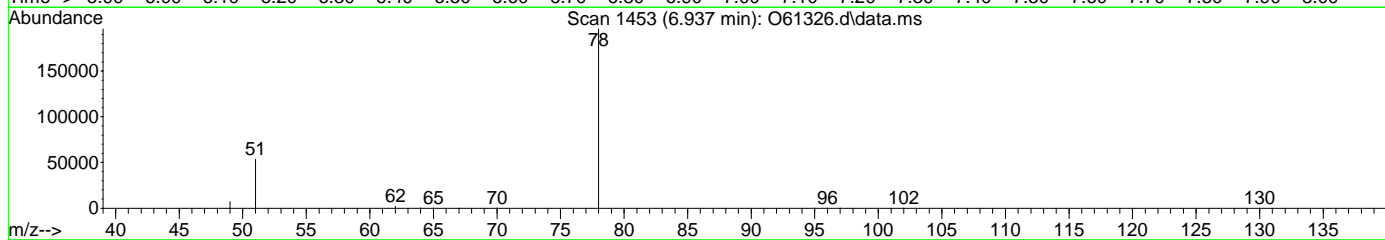
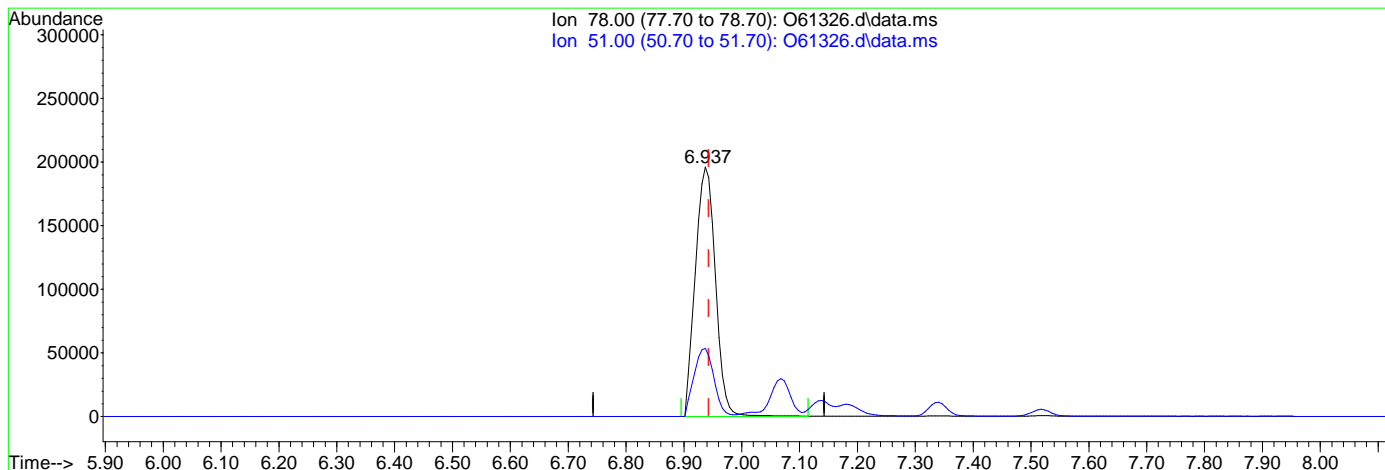
7.3.2.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61326.d  
 Acq On : 13 Sep 2020 12:06 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:52:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.44ug/L

response 475520

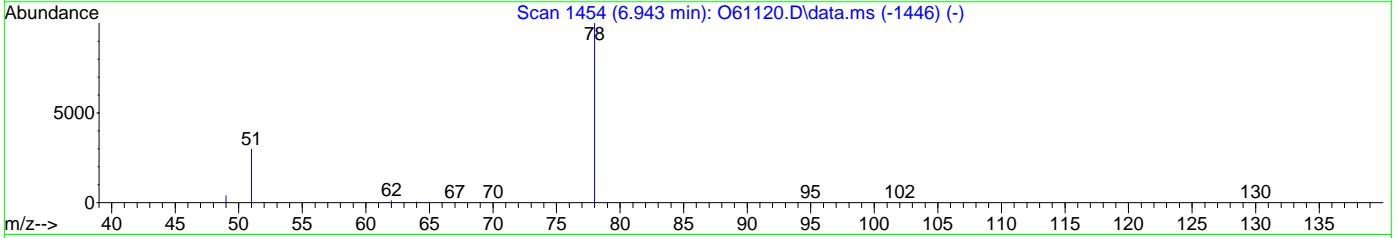
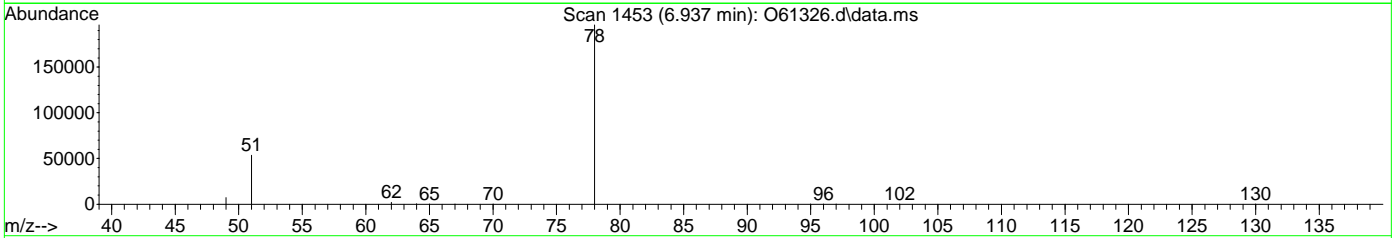
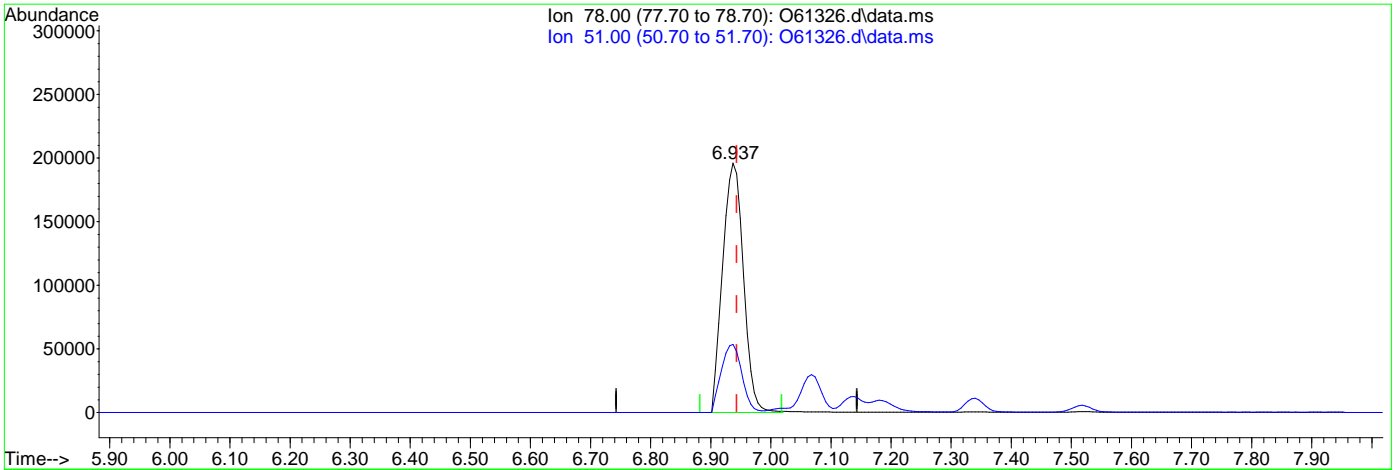
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.28
0.00	0.00	0.00
0.00	0.00	0.00

7.3.2.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61326.d  
 Acq On : 13 Sep 2020 12:06 pm  
 Operator : stutip  
 Sample : bs  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:52:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.40ug/L m

response 472163

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.28
0.00	0.00	0.00
0.00	0.00	0.00

7.3.2.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2417\  
 Data File : Z62314.d  
 Acq On : 13 Sep 2020 7:38 pm  
 Operator : stutip  
 Sample : fa78549-16ms  
 Misc : MS47203,VZ2417,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 07:08:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Fluorobenzene	7.401	96	1487167	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1256295	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	521407	5.67	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	113.40%	
19) Toluene-d8	8.961	98	1435131	4.70	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%	
Target Compounds							Qvalue
2) Vinyl Chloride	2.835	62	786738	6.36	ppb		99
3) Chloromethane	2.726	50	619071	5.98	ppb		99
4) 1,1-Dichloroethene	4.087	96	525160	5.83	ppb	#	88
5) Methylene Chloride	4.713	84	682512	4.88	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	612176	5.58	ppb		93
7) 1,1-Dichloroethane	5.546	63	1386559	7.45	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	693088	5.68	ppb		93
9) Chloroform	6.377	83	1445318	6.47	ppb		100
10) Carbon Tetrachloride	6.543	117	783410	5.16	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1097539	5.60	ppb		99
12) Benzene	6.994	78	2397915	5.79	ppb		96
14) 1,2-Dichloroethane	7.198	62	894960	5.74	ppb		100
15) Trichloroethene	7.571	95	1992621	15.69	ppb	#	85
16) 1,2-Dichloropropane	8.105	63	587168	5.57	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	419547	3.71	ppb		99
20) trans-1,3-Dichloropropene	9.412	75	329436	3.14	ppb		99
21) Tetrachloroethene	9.399	166	1531031	11.52	ppb		99

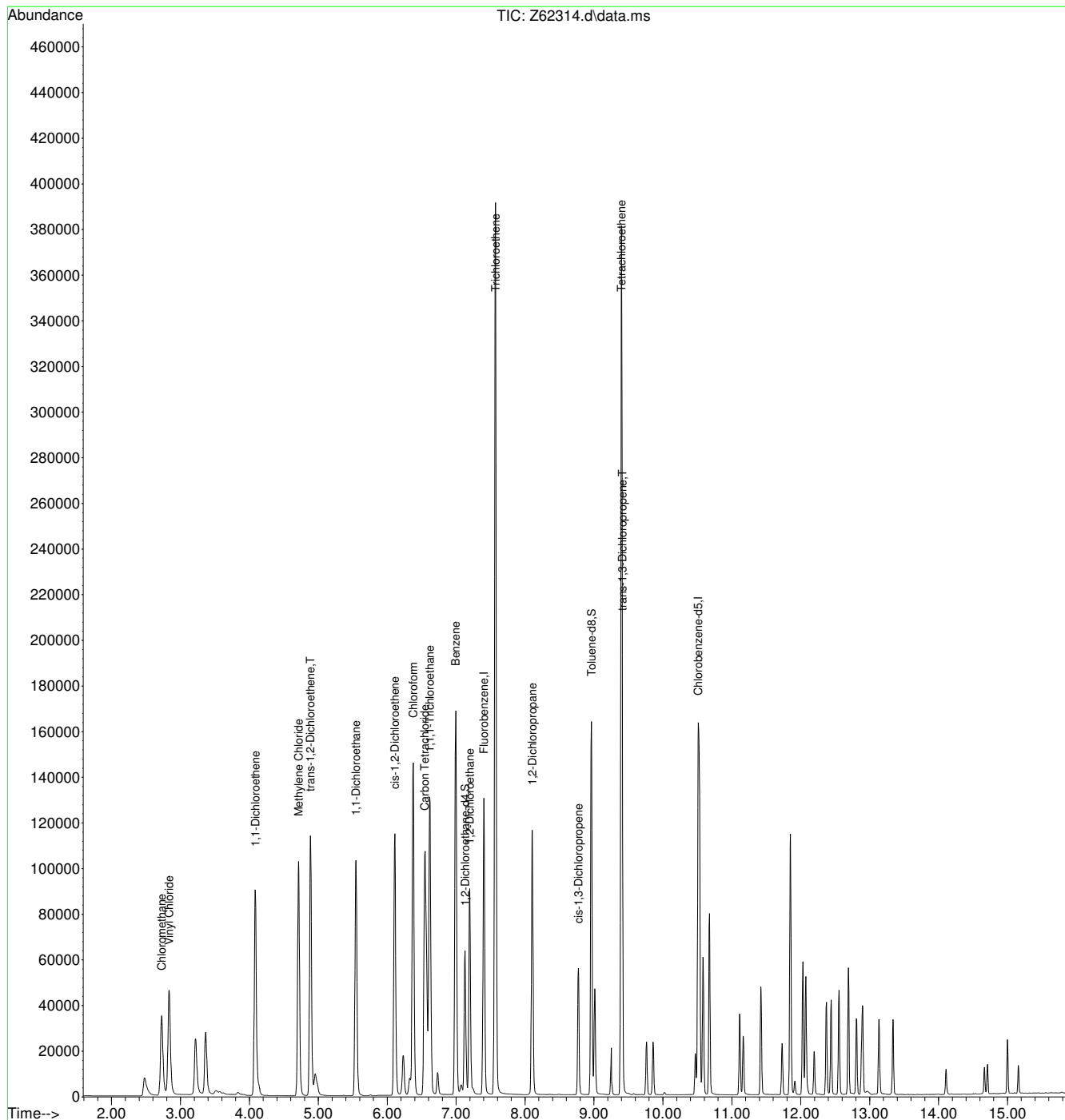
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2417\  
 Data File : Z62314.d  
 Acq On : 13 Sep 2020 7:38 pm  
 Operator : stutip  
 Sample : fa78549-16ms  
 Misc : MS47203,VZ2417,,,,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 07:08:09 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.4.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61349.D  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 13:50:27 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.340	96	215252	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	177426	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	87985	5.06	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	101.20%		
19) Toluene-d8	8.896	98	169720	4.24	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	84.80%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	137221	5.74	ug/L		99
3) Chloromethane	2.795	50	197845	5.64	ug/L		94
4) 1,1-Dichloroethene	4.085	61	162214	5.45	ug/L		92
5) Methylene Chloride	4.699	49	241689	5.19	ug/L		95
6) trans-1,2-Dichloroethene	4.865	61	170603	4.97	ug/L		86
7) 1,1-Dichloroethane	5.510	63	200782	5.03	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	86621	4.39	ug/L		84
9) Chloroform	6.327	83	165916	4.83	ug/L		94
10) Carbon Tetrachloride	6.505	117	116287	4.97	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	127312	4.81	ug/L		91
12) Benzene	6.937	78	324310m	4.88	ug/L		
14) 1,2-Dichloroethane	7.139	62	153619	4.73	ug/L		94
15) Trichloroethene	7.512	95	97749	4.83	ug/L		83
16) 1,2-Dichloropropane	8.040	63	108668	4.89	ug/L		95
17) cis-1,3-Dichloropropene	8.707	75	87909	3.82	ug/L		99
20) trans-1,3-Dichloropropene	9.343	75	87936	3.77	ug/L		100
21) Tetrachloroethene	9.337	166	97943	5.04	ug/L		94
22) 1,4-Dichlorobenzene	12.821	146	197478	4.81	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.037	75	22696	3.13	ug/L #		81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.2  
7

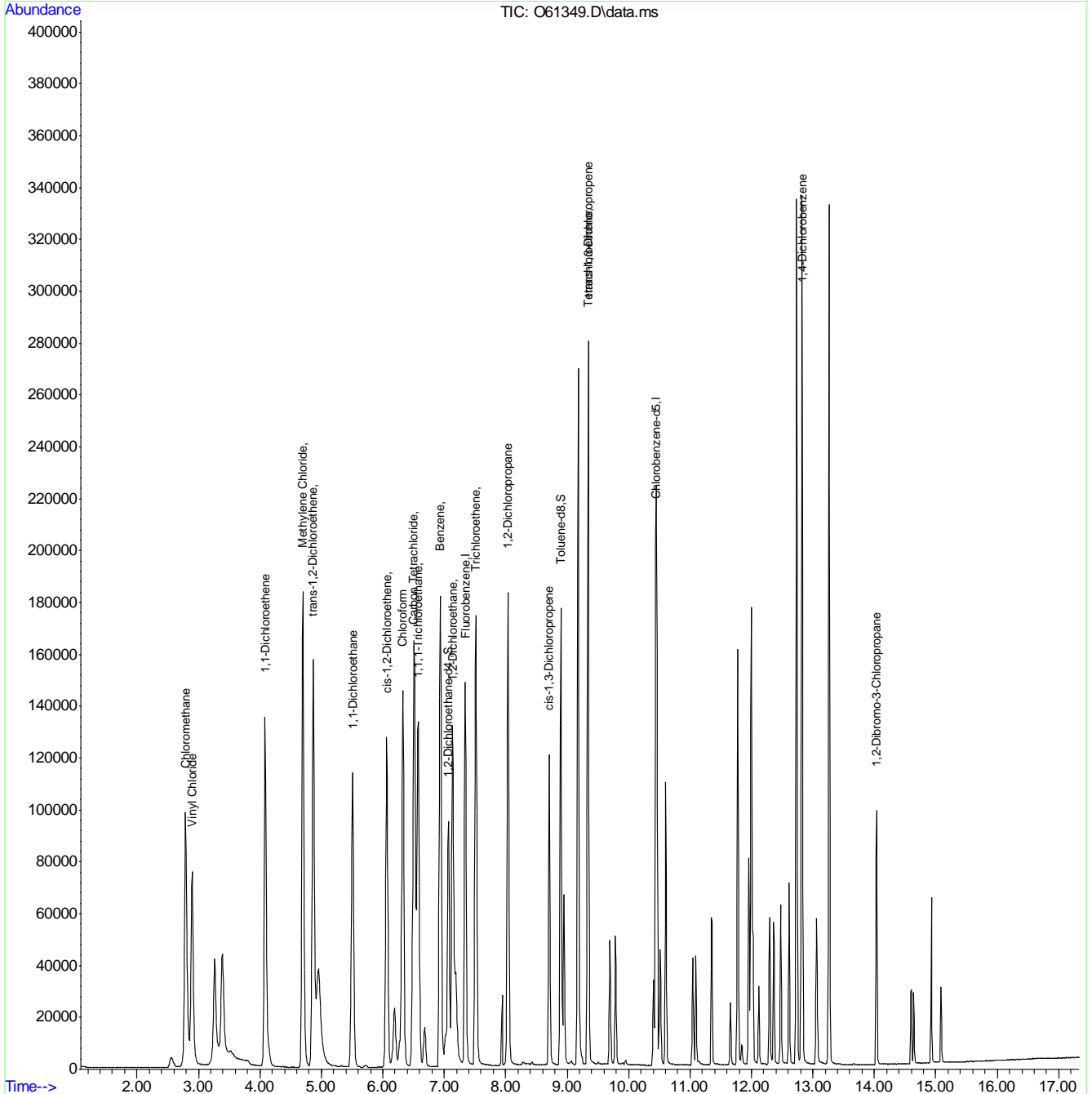


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61349.D  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:50:27 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** FA78564-1MS      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61349.D      **Analyst approved:** 09/14/20 13:52 Akari Giraldo  
**Injection Time:** 09/13/20 19:52      **Supervisor approved:** 09/14/20 14:22 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

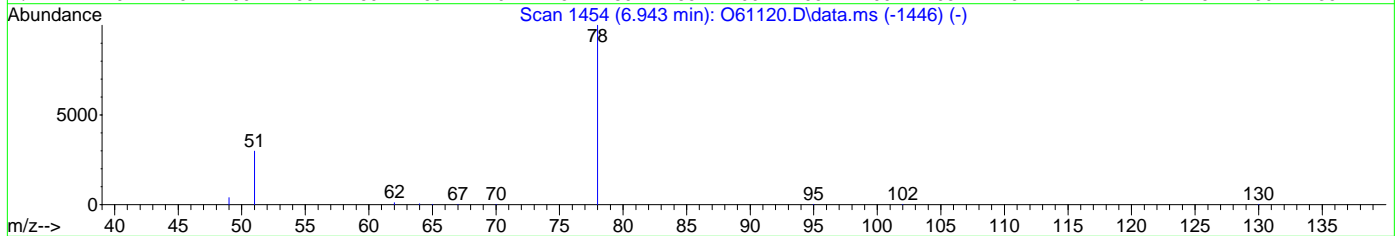
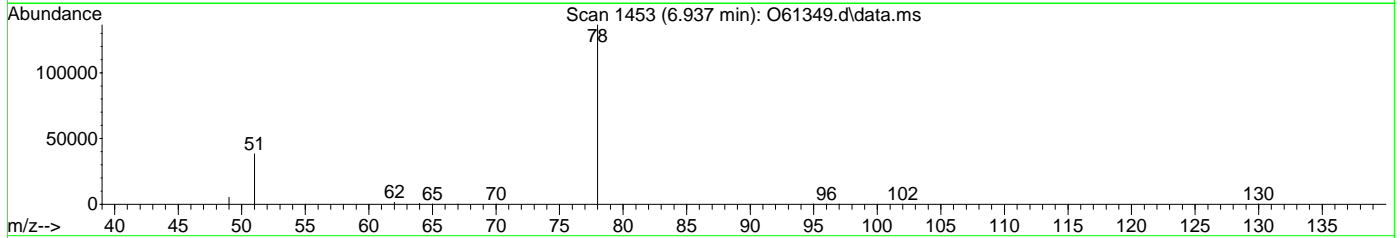
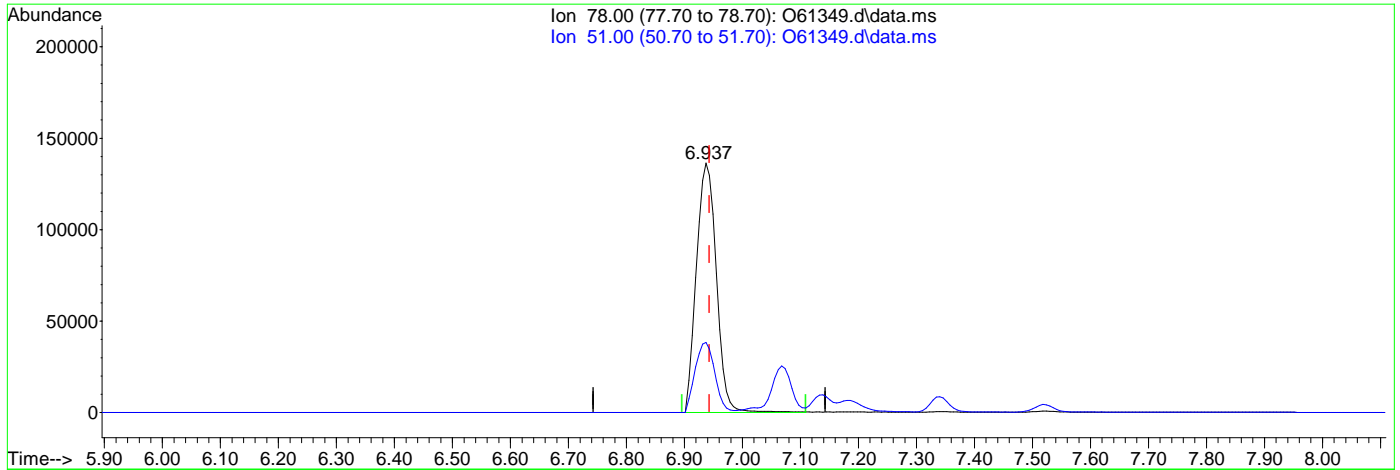
7.4.2.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61349.d  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 07:53:27 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61349.d\data.ms

(12) Benzene ( )

6.937min (-0.006) 4.93ug/L

response 327395

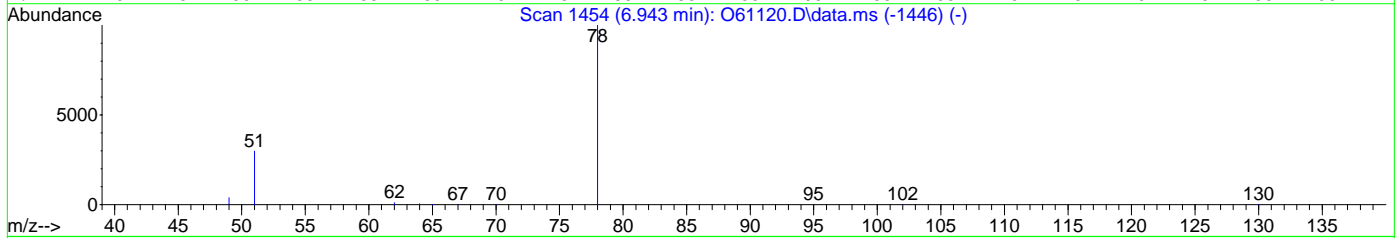
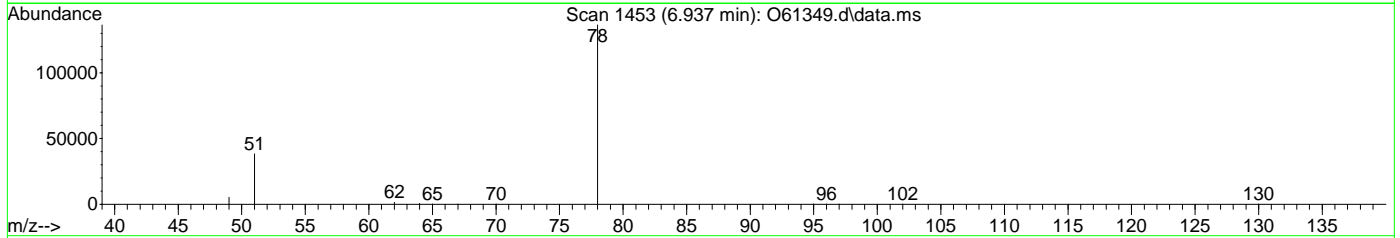
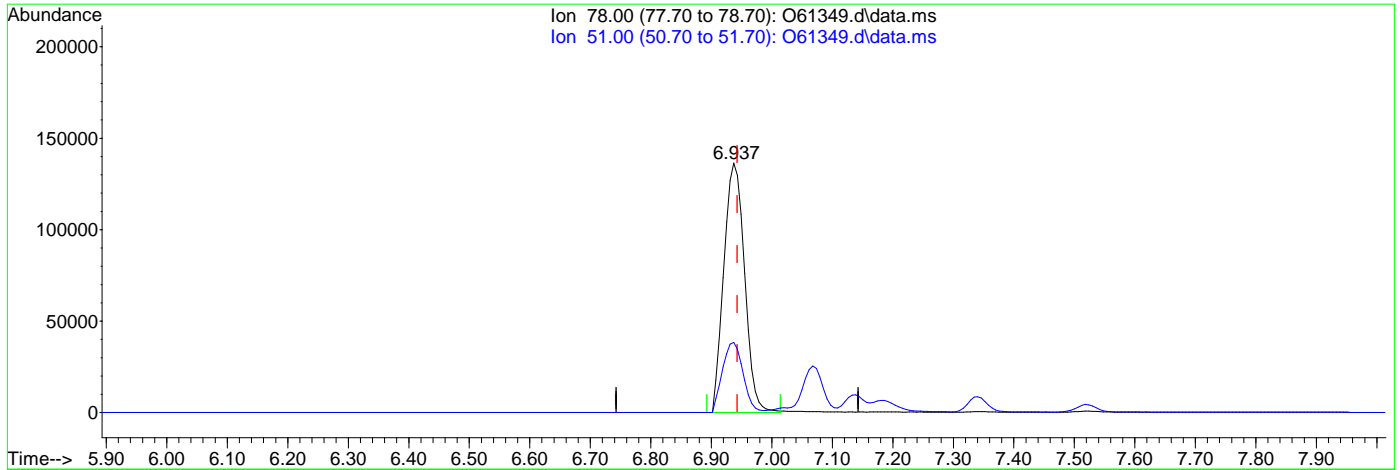
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.09
0.00	0.00	0.00
0.00	0.00	0.00

7.4.2.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61349.d  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 07:53:27 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 4.88ug/L m

response 324310

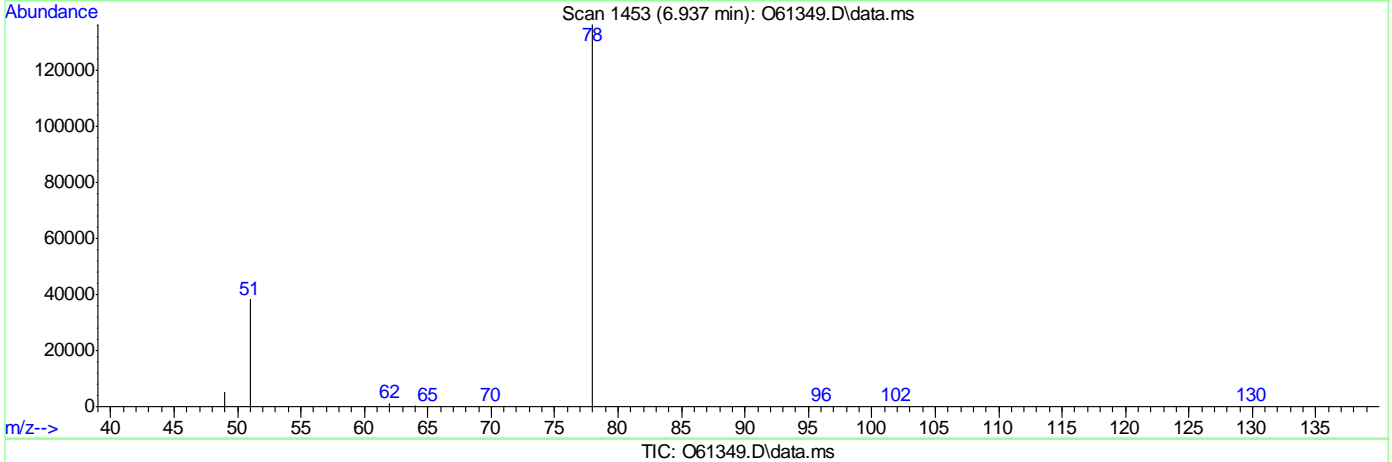
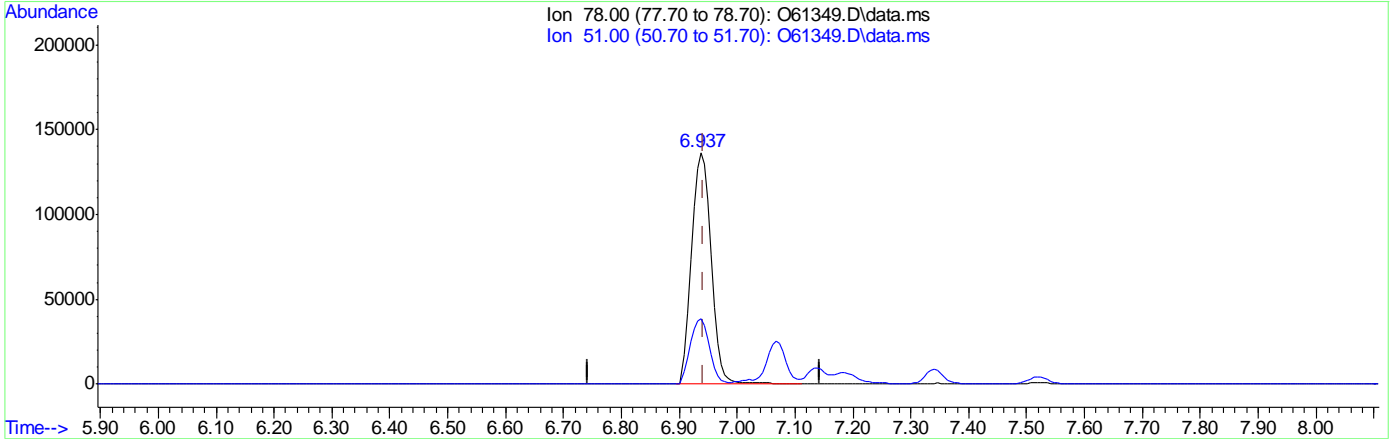
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.09
0.00	0.00	0.00
0.00	0.00	0.00

7.4.2.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61349.D  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 13:48:58 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



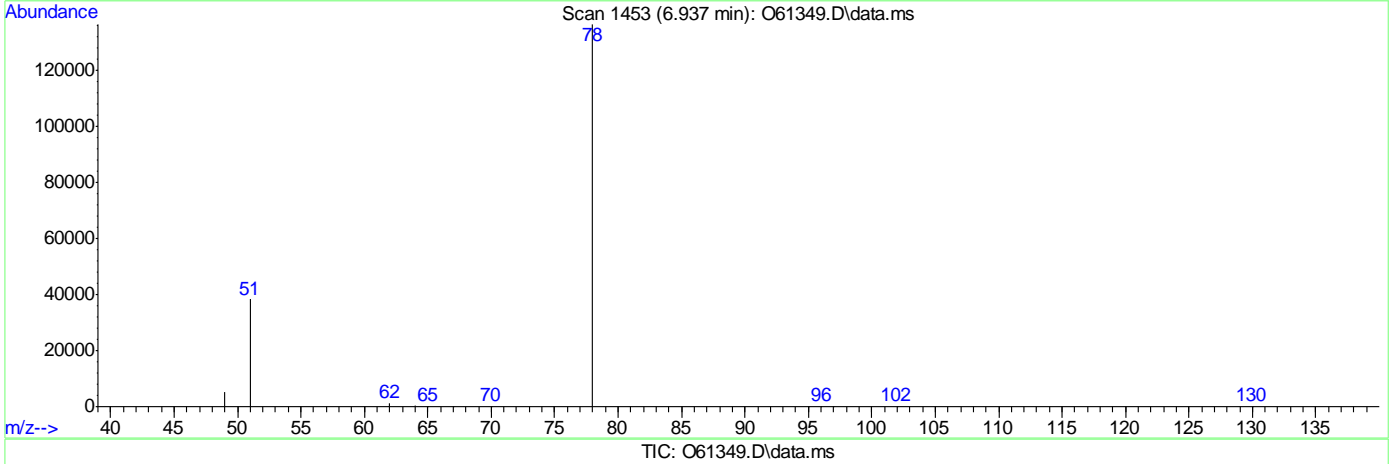
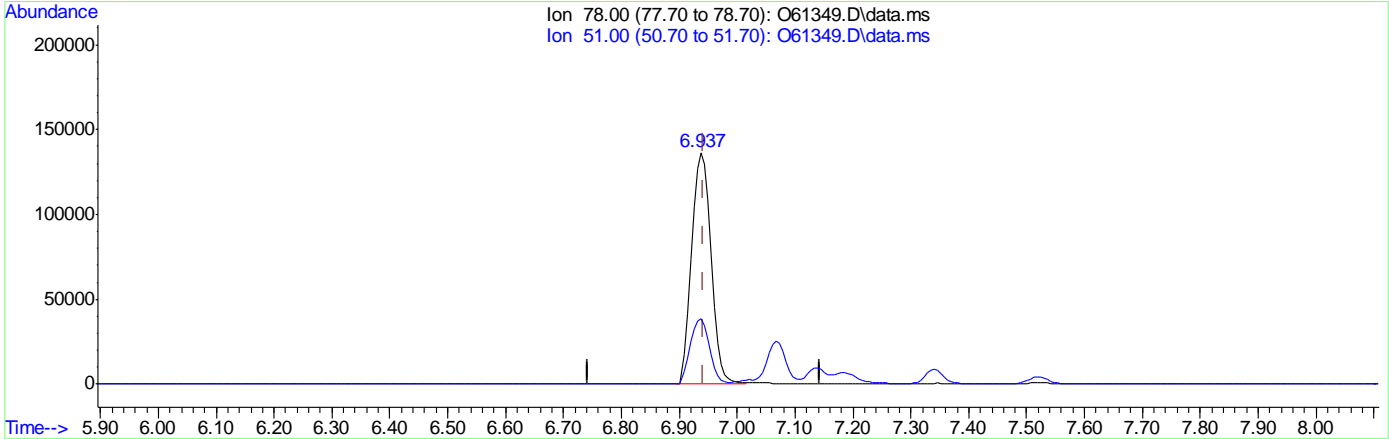
(12) Benzene ( )  
 6.937min (-0.006) 4.93ug/L  
 response 327395

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61349.D  
 Acq On : 13 Sep 2020 7:52 pm  
 Operator : stutip  
 Sample : fa78564-1ms,10 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 14 13:48:58 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.937min (-0.006) 4.88ug/L m  
 response 324310

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.09
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2417\  
 Data File : Z62315.d  
 Acq On : 13 Sep 2020 7:57 pm  
 Operator : stutip  
 Sample : fa78549-16msd  
 Misc : MS47203,VZ2417,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 07:08:12 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

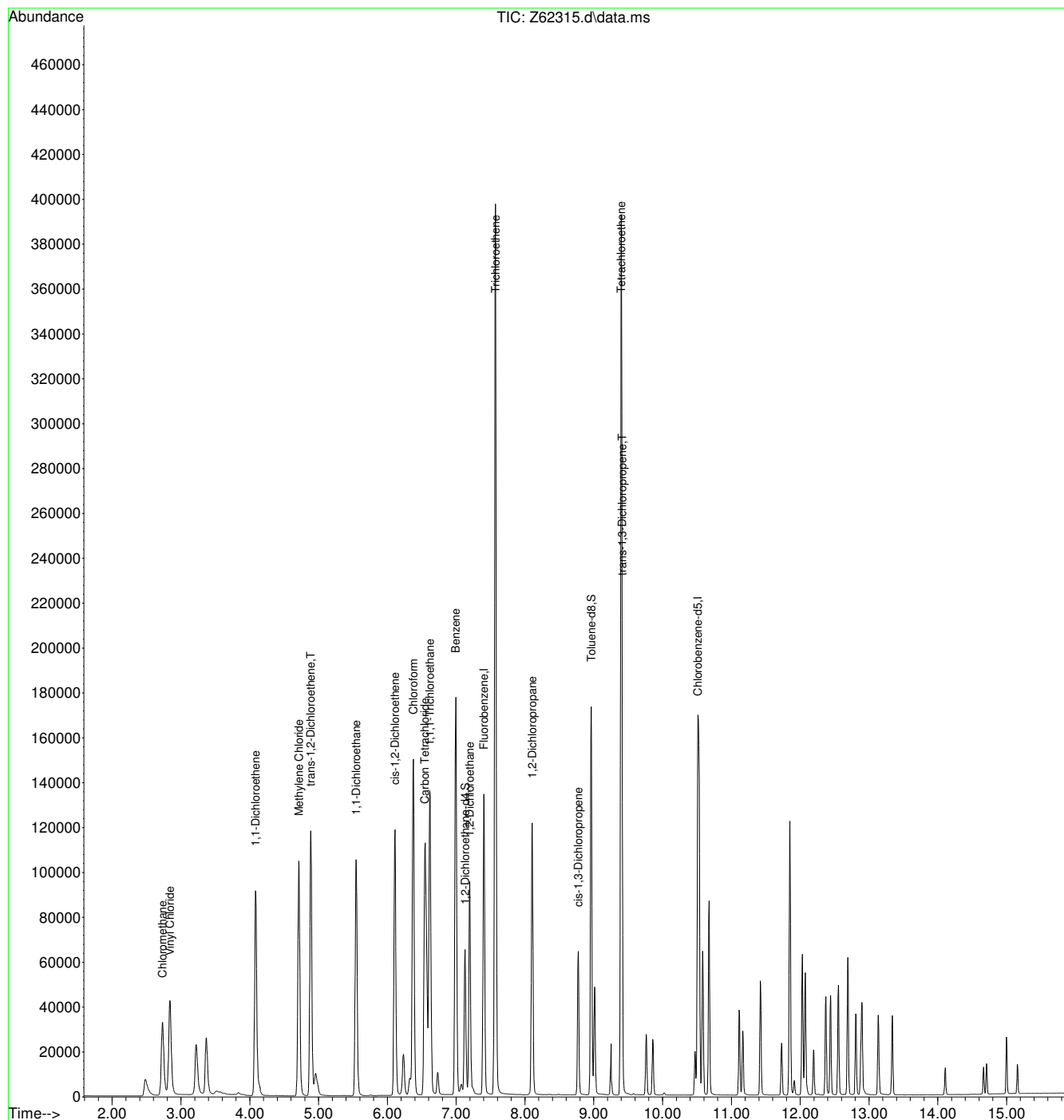
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1548045	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1296762	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	535909	5.60	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	112.00%	
19) Toluene-d8	8.961	98	1493042	4.74	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	757567	5.88	ppb		100
3) Chloromethane	2.730	50	617804	5.75	ppb		100
4) 1,1-Dichloroethene	4.083	96	550935	5.87	ppb		90
5) Methylene Chloride	4.713	84	718558	4.94	ppb		91
6) trans-1,2-Dichloroethene	4.886	96	649324	5.68	ppb		94
7) 1,1-Dichloroethane	5.546	63	1436531	7.41	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	729083	5.74	ppb		93
9) Chloroform	6.377	83	1508267	6.48	ppb		100
10) Carbon Tetrachloride	6.543	117	829839	5.26	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1157788	5.68	ppb		99
12) Benzene	6.994	78	2533546	5.88	ppb		97
14) 1,2-Dichloroethane	7.198	62	941224	5.79	ppb		100
15) Trichloroethene	7.571	95	2010535	15.21	ppb	#	85
16) 1,2-Dichloropropane	8.105	63	620280	5.66	ppb		98
17) cis-1,3-Dichloropropene	8.773	75	483995	4.09	ppb		98
20) trans-1,3-Dichloropropene	9.412	75	397797	3.66	ppb		99
21) Tetrachloroethene	9.399	166	1569291	11.43	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2417\  
Data File : Z62315.d  
Acq On : 13 Sep 2020 7:57 pm  
Operator : stutip  
Sample : fa78549-16msd  
Misc : MS47203,VZ2417,,,,,  
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 07:08:12 2020  
Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
Quant Title : WATER-EPA 8260B  
QLast Update : Sun Sep 13 13:38:26 2020  
Response via : Initial Calibration



7.4.3  
7





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61350.D  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10 Inst : MSVOA12  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 13:50:50 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.340	96	233995	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	190479	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	93890	4.97	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	99.40%		
19) Toluene-d8	8.896	98	187373	4.36	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	87.20%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	140892	5.40	ug/L		97
3) Chloromethane	2.795	50	197709	5.15	ug/L		94
4) 1,1-Dichloroethene	4.085	61	182933	5.66	ug/L		91
5) Methylene Chloride	4.700	49	270684	5.34	ug/L		94
6) trans-1,2-Dichloroethene	4.865	61	195834	5.25	ug/L		85
7) 1,1-Dichloroethane	5.510	63	228880	5.28	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	100960	4.71	ug/L		83
9) Chloroform	6.333	83	187129	5.01	ug/L		95
10) Carbon Tetrachloride	6.511	117	133372	5.24	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	144075	5.01	ug/L		91
12) Benzene	6.937	78	372379m	5.16	ug/L		
14) 1,2-Dichloroethane	7.139	62	174541	4.94	ug/L		93
15) Trichloroethene	7.512	95	113365	5.15	ug/L		84
16) 1,2-Dichloropropane	8.040	63	124954	5.18	ug/L		95
17) cis-1,3-Dichloropropene	8.707	75	110587	4.42	ug/L		99
20) trans-1,3-Dichloropropene	9.343	75	111001	4.43	ug/L		99
21) Tetrachloroethene	9.338	166	111276	5.34	ug/L		95
22) 1,4-Dichlorobenzene	12.827	146	222405	5.04	ug/L		96
23) 1,2-Dibromo-3-Chloropr...	14.038	75	33648	4.30	ug/L #		76

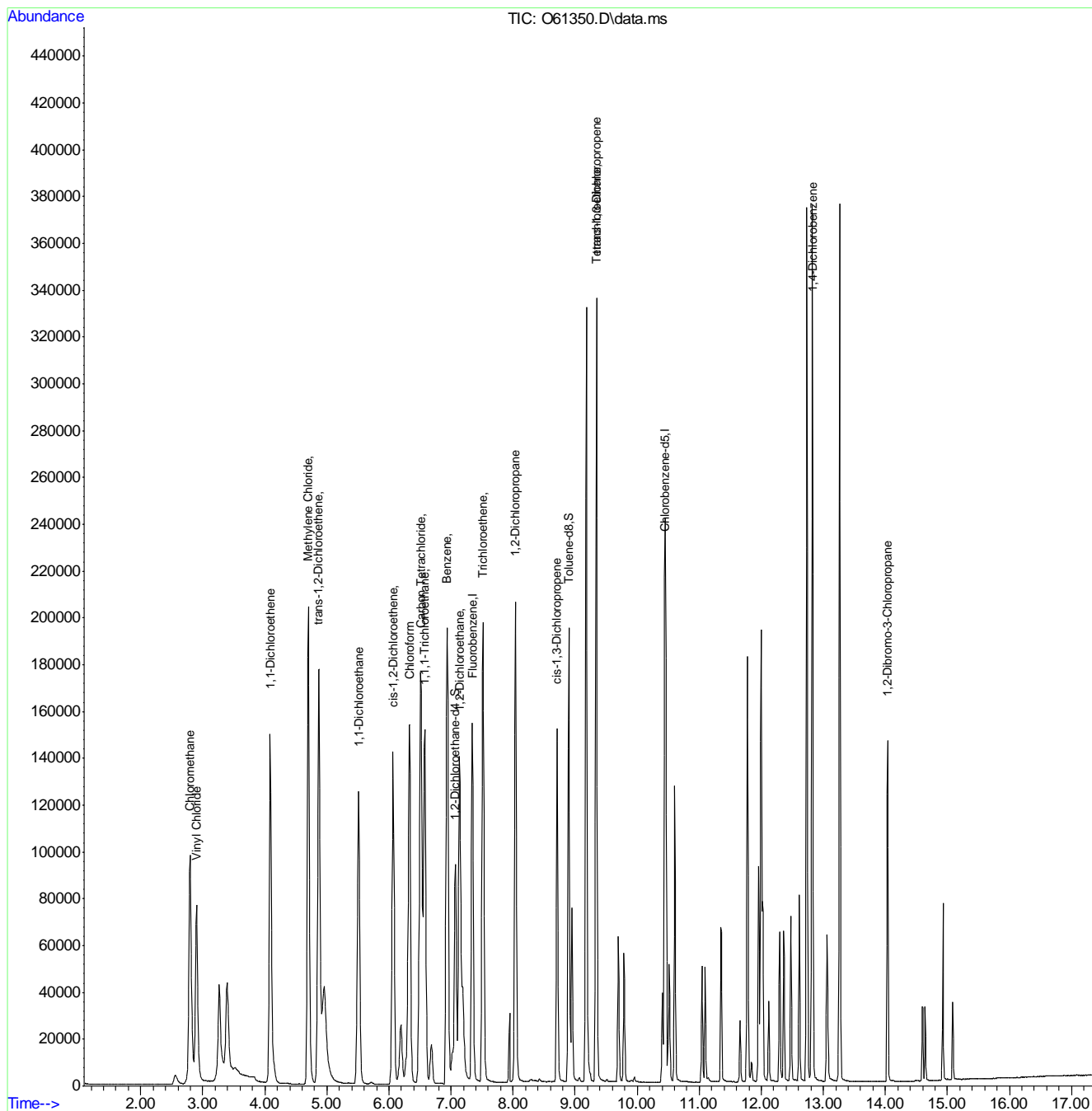
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61350.D  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:50:50 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** FA78564-1MSD      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61350.D      **Analyst approved:** 09/14/20 13:52 Akari Giraldo  
**Injection Time:** 09/13/20 20:12      **Supervisor approved:** 09/14/20 14:22 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

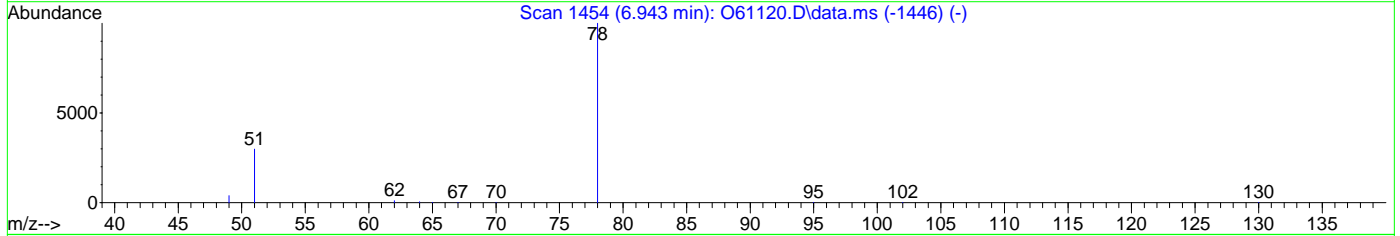
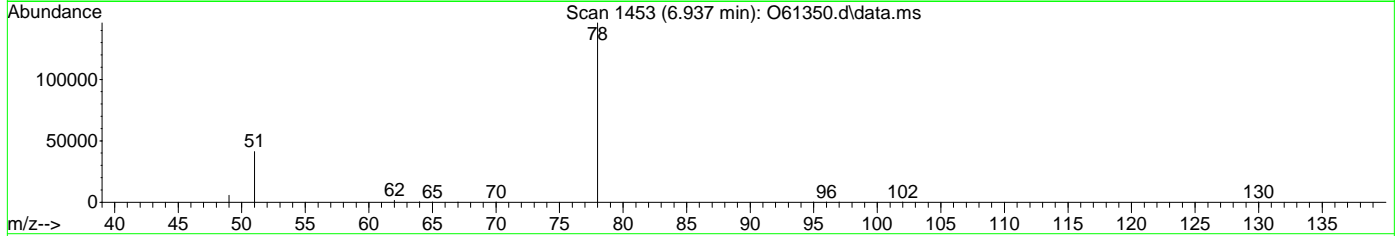
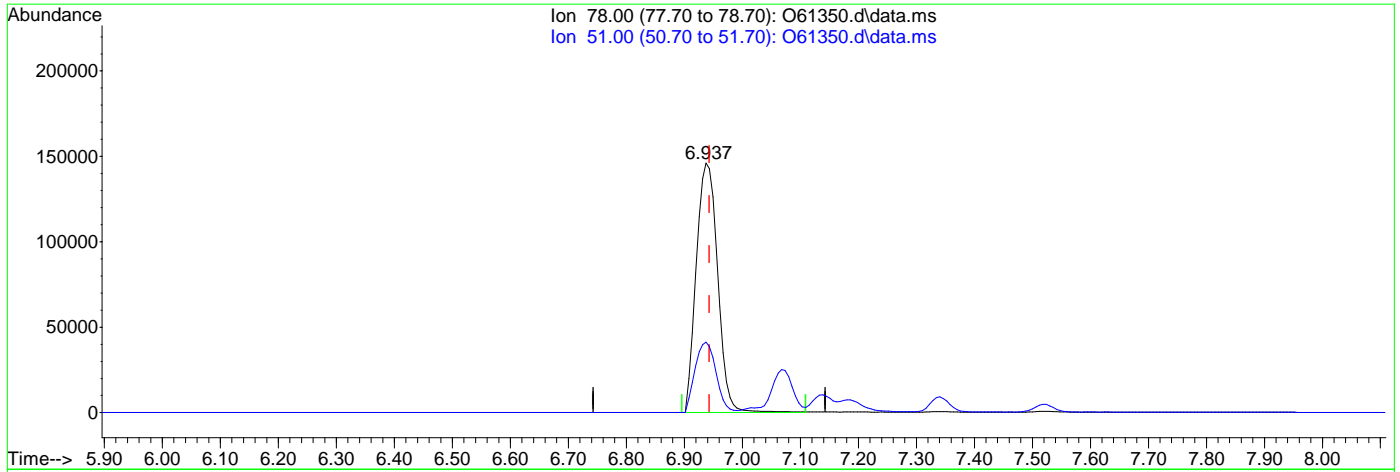
7.4.4.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61350.d  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 07:53:29 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



TIC: O61350.d\data.ms

(12) Benzene ( )

6.937min (-0.006) 5.20ug/L

response 375819

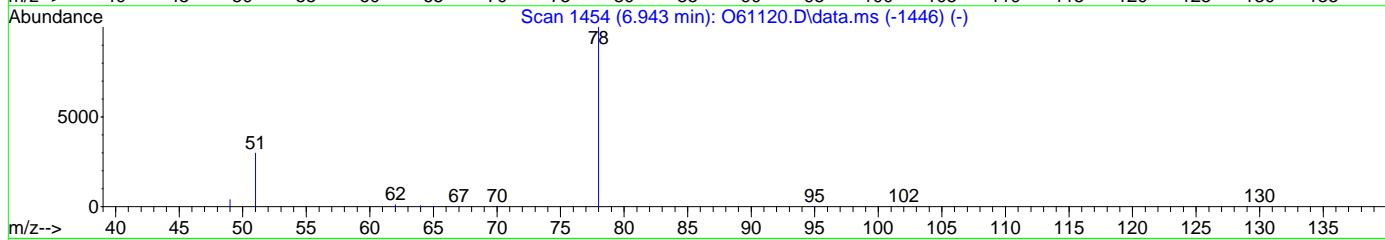
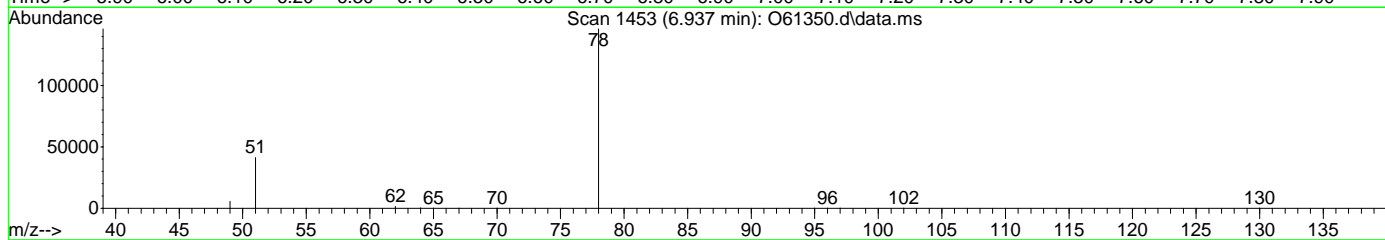
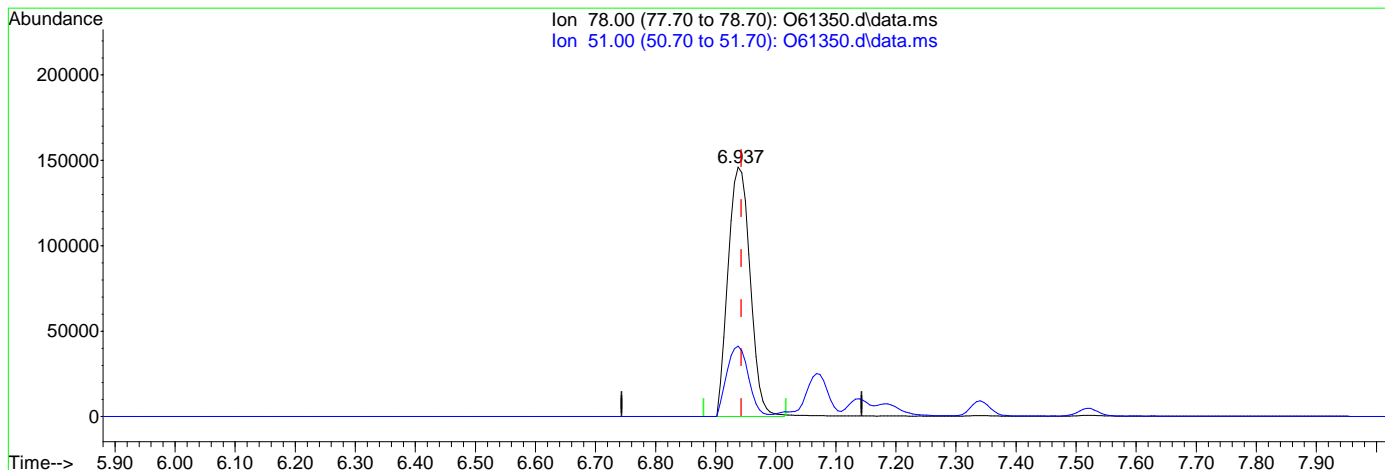
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

7.4.4.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61350.d  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 14 07:53:29 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.16ug/L m

response 372418

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

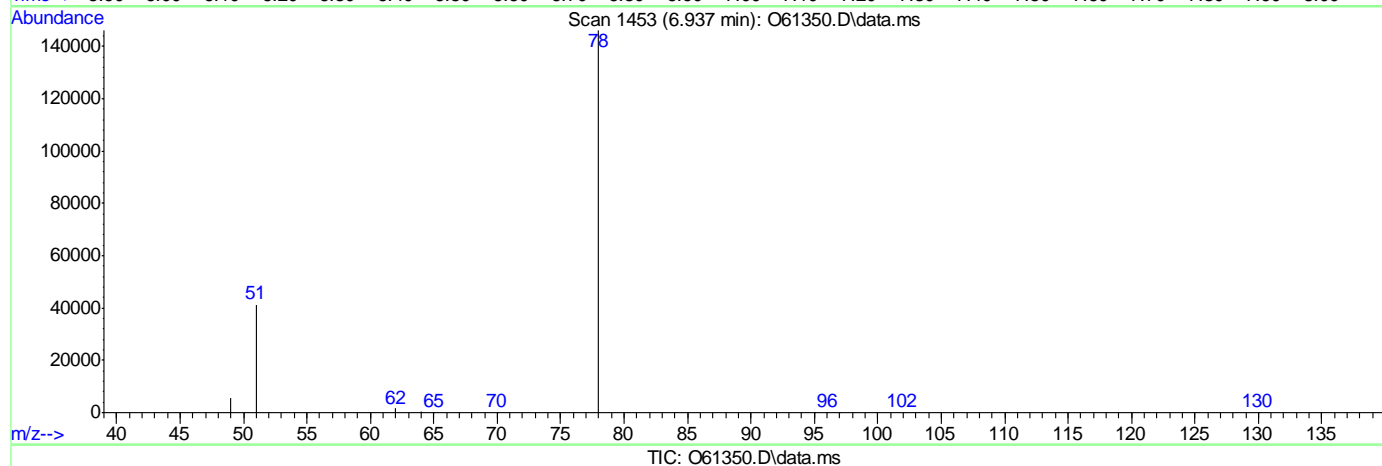
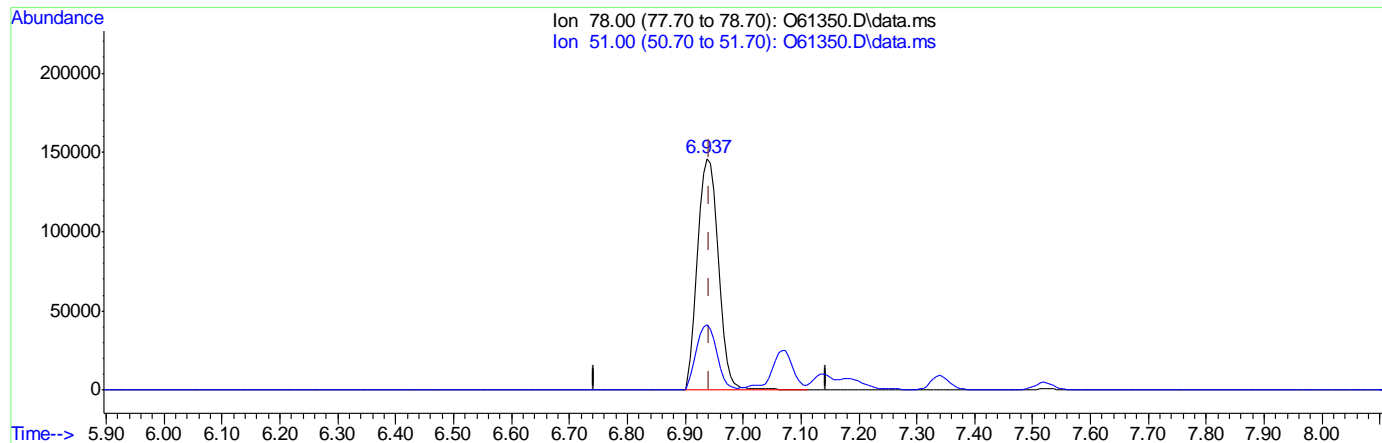
7.4.4.3  
7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61350.D  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:49:00 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 5.20ug/L

response 375819

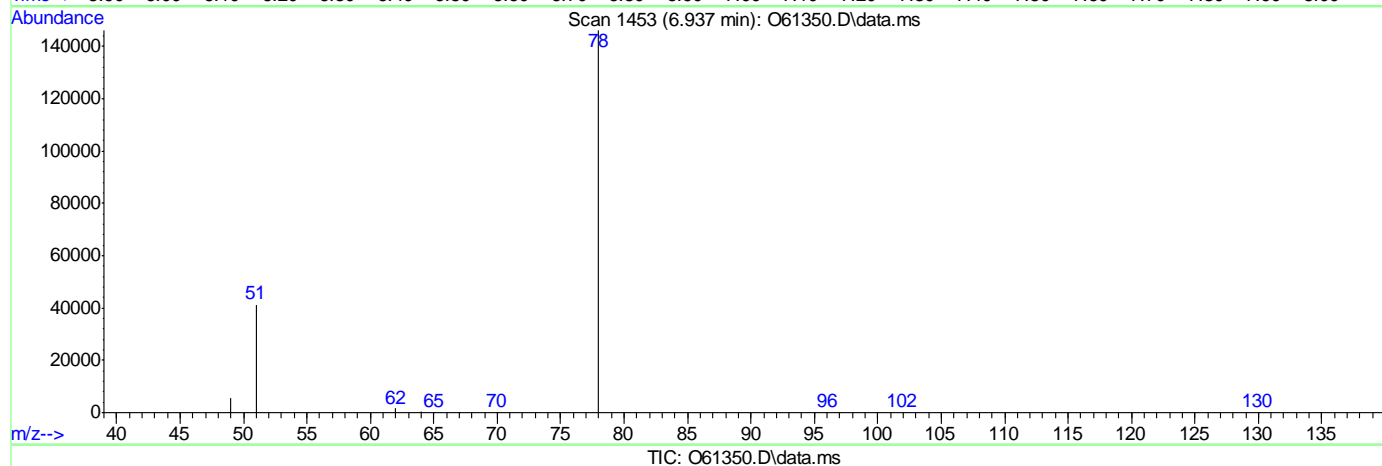
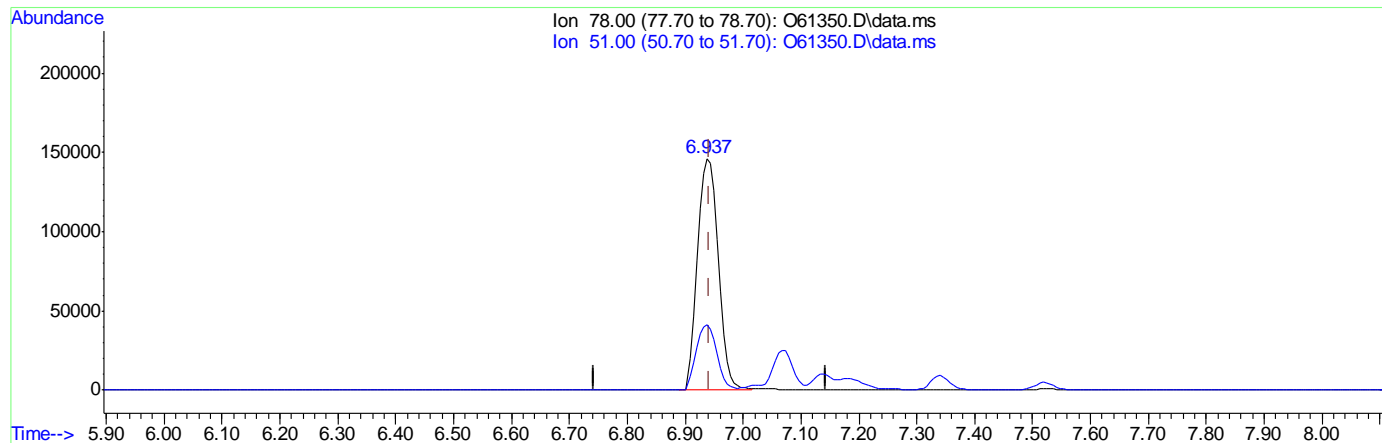
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091320\  
 Data File : O61350.D  
 Acq On : 13 Sep 2020 8:12 pm  
 Operator : stutip  
 Sample : fa78564-1msd,10  
 Misc : MS47201,VO2360,,,,,10  
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 14 13:49:00 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



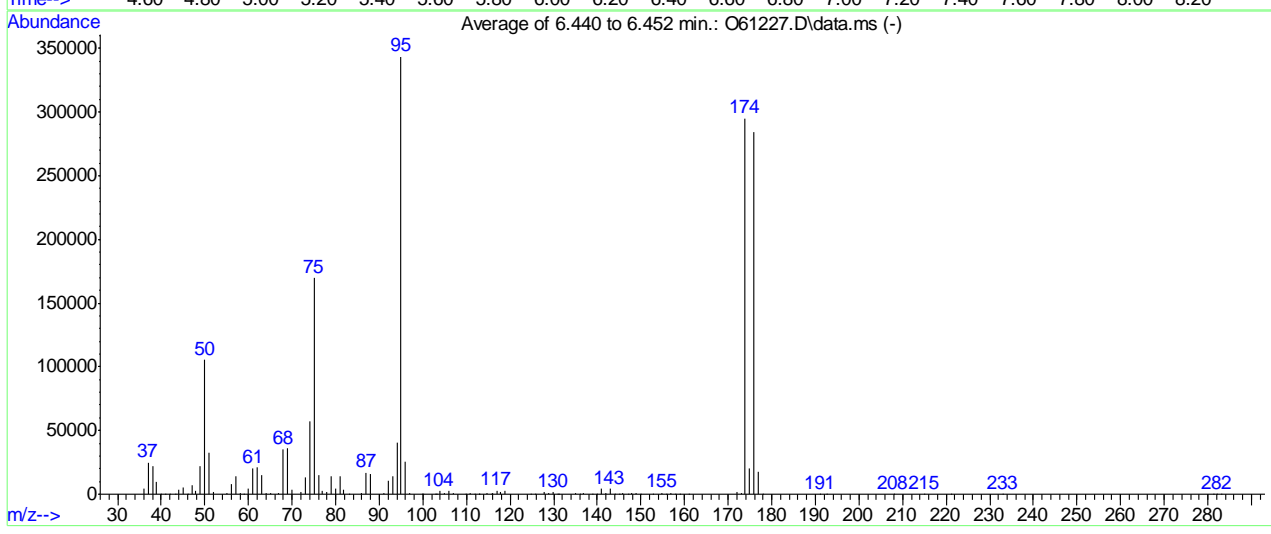
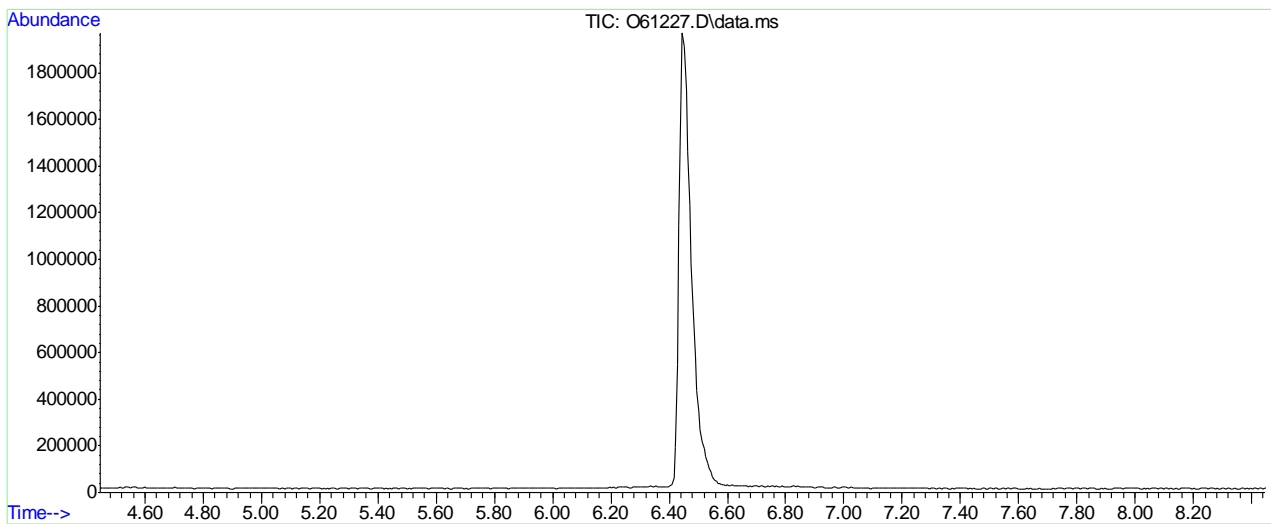
(12) Benzene ( )

6.937min (-0.006) 5.16ug/L m

response 372379

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

Methods: SW-846 8260B  
 Data File : C:\msdchem\2\data\091120\O61227.D Vial: 100  
 Acq On : 11 Sep 2020 2:01 pm Operator: stutip  
 Sample : BFB Inst : MSVOA12  
 Misc : MS47183,VO2356,,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\msdchem\2\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 460

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.7	105346	PASS
75	95	30	60	49.4	169774	PASS
95	95	100	100	100.0	343616	PASS
96	95	5	9	7.4	25531	PASS
173	174	0.00	2	0.5	1340	PASS
174	95	50	100	85.8	294848	PASS
175	174	5	9	7.0	20565	PASS
176	174	95	101	96.4	284096	PASS
177	176	5	9	6.2	17677	PASS

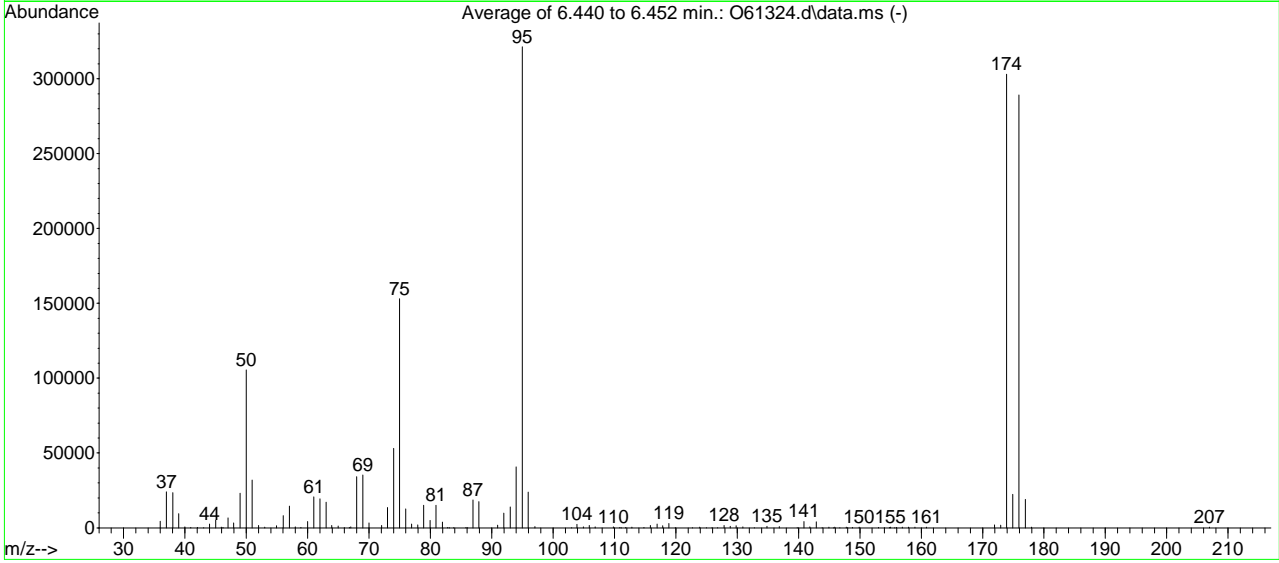
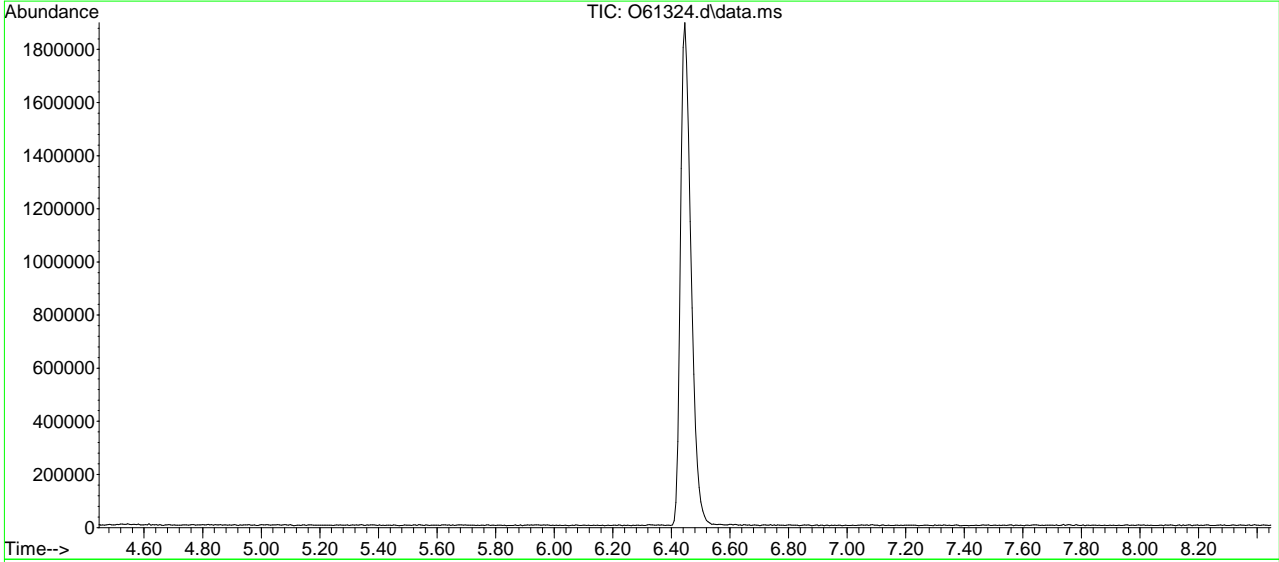
7.5.1  
7



Methods: SW-846 8260B

Data File : C:\msdchem\1\data\je...-2020\VO2360\O61324.d Vial: 3  
 Acq On : 13 Sep 2020 11:21 am Operator: stutip  
 Sample : bfb Inst : MSVOA12  
 Misc : MS47193,VO2360,,,, Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : Standard Methods 6200B



AutoFind: Scans 468, 469, 470; Background Corrected with Scan 459

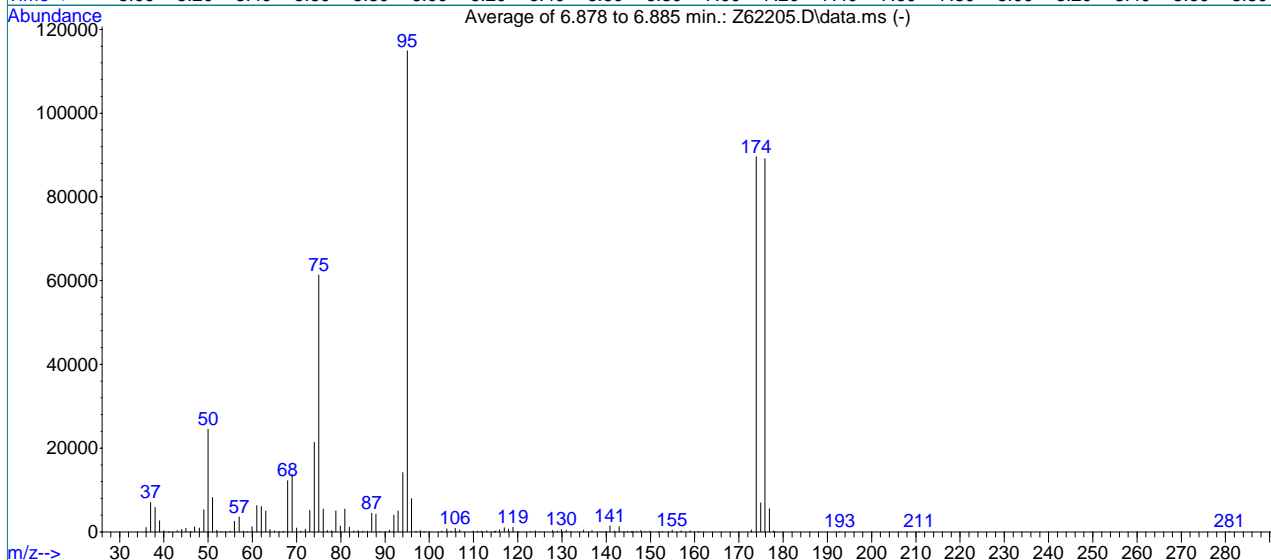
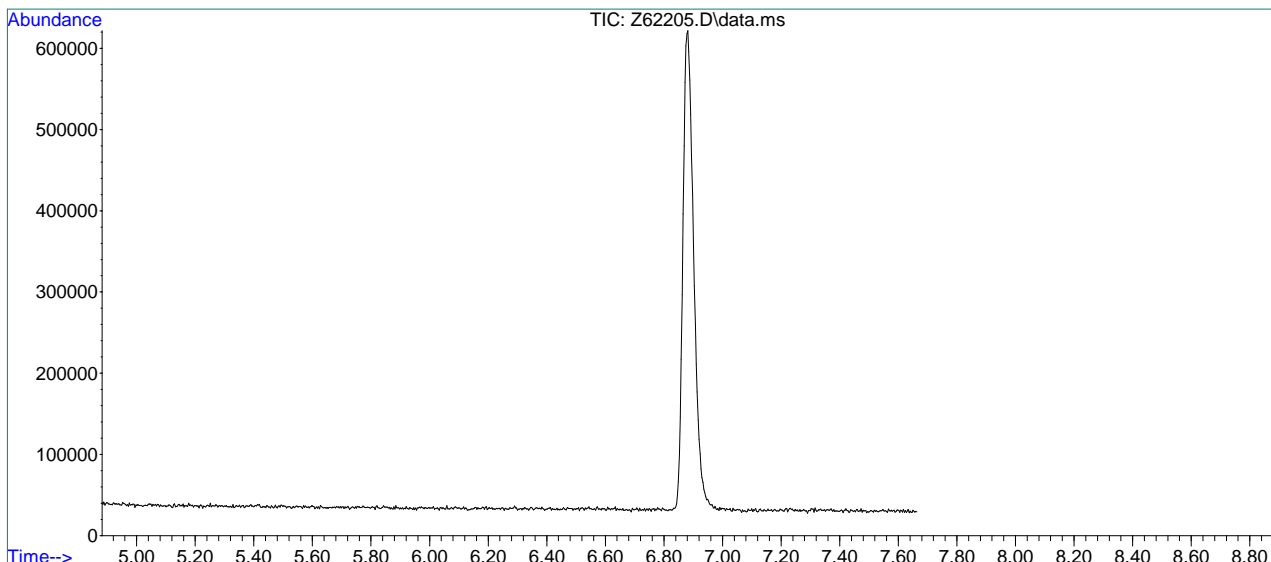
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.9	105581	PASS
75	95	30	60	47.6	153003	PASS
95	95	100	100	100.0	321323	PASS
96	95	5	9	7.4	23851	PASS
173	174	0.00	2	0.6	1727	PASS
174	95	50	100	94.3	302997	PASS
175	174	5	9	7.4	22299	PASS
176	174	95	101	95.5	289216	PASS
177	176	5	9	6.5	18941	PASS

BFB

Data File : C:\msdchem\1\data\091120\Z62205.D  
 Acq On : 11 Sep 2020 5:20 pm  
 Sample : BFB  
 Misc : MS47171,VZ2414,,,,,  
 MS Integration Params: RTEINT.P

Vial: 100  
 Operator: SHANICAO  
 Inst : MSVOA15  
 Multiplr: 1.00

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2112, 2113, 2114; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	24546	PASS
75	95	30	60	53.4	61341	PASS
95	95	100	100	100.0	114880	PASS
96	95	5	9	6.9	7912	PASS
173	174	0.00	2	0.5	429	PASS
174	95	50	100	78.0	89573	PASS
175	174	5	9	7.7	6903	PASS
176	174	95	101	99.5	89128	PASS
177	176	5	9	6.2	5541	PASS

7.5.3  
7

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1011	48.00	892	58.90	60	70.00	922
37.00	6971	49.00	5241	59.95	1253	70.95	177
38.00	5869	49.95	24546	61.00	6279	71.95	655
39.00	2653	51.00	8188	62.00	6060	72.95	5098
39.95	227	51.95	363	63.00	4973	74.00	21419
41.00	0	52.90	63	64.00	544	75.00	61341
43.00	313	53.95	60	65.00	240	76.00	5430
44.00	548	55.00	143	66.10	58	76.95	281
44.95	816	55.95	2492	66.95	149	77.90	294
46.10	125	57.00	3597	68.00	12248	78.90	5021
46.95	1167	57.90	154	69.00	13760	79.90	1372

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	5453	92.95	4978	106.85	414	120.10	70
81.90	1129	94.00	14133	109.90	170	122.85	126
82.95	219	95.00	114880	110.90	179	123.95	220
83.90	276	96.00	7912	111.80	175	125.00	58
84.95	162	97.00	153	113.00	244	127.85	303
86.05	163	97.95	274	114.70	110	128.90	142
86.95	4427	98.85	130	115.00	187	129.90	541
87.95	4242	102.85	150	115.85	519	130.95	388
88.80	60	103.95	710	116.95	998	131.90	56
90.95	419	104.90	190	117.90	667	134.90	414
92.00	4019	105.85	848	118.90	1119	136.80	272

Average of 6.878 to 6.885 min.: Z62205.D\data.ms

BFB

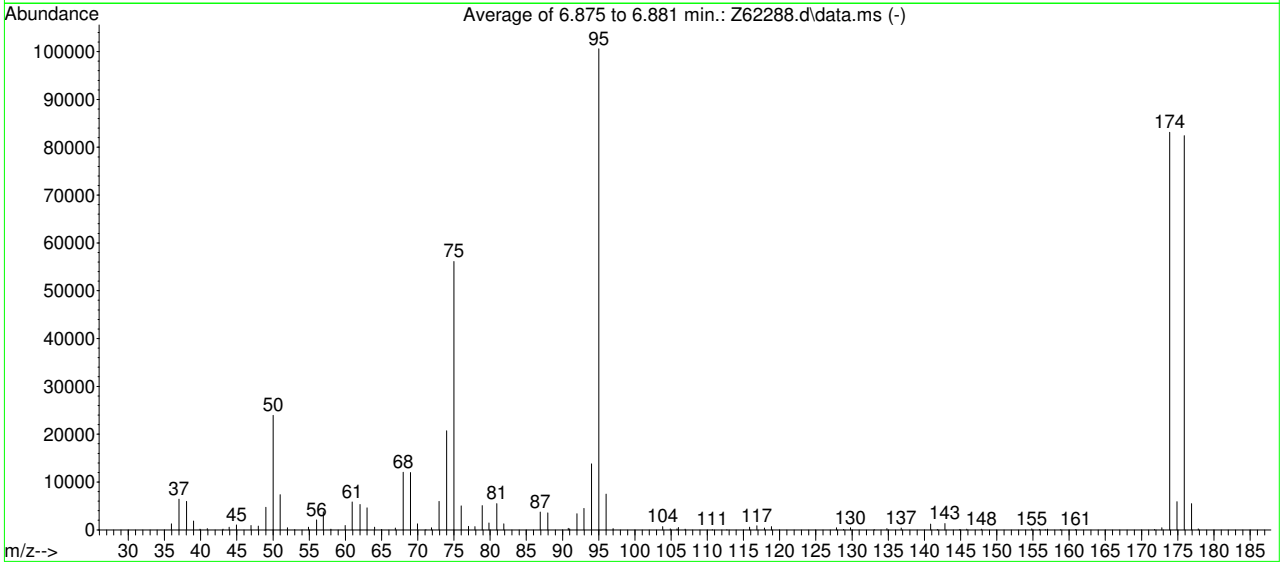
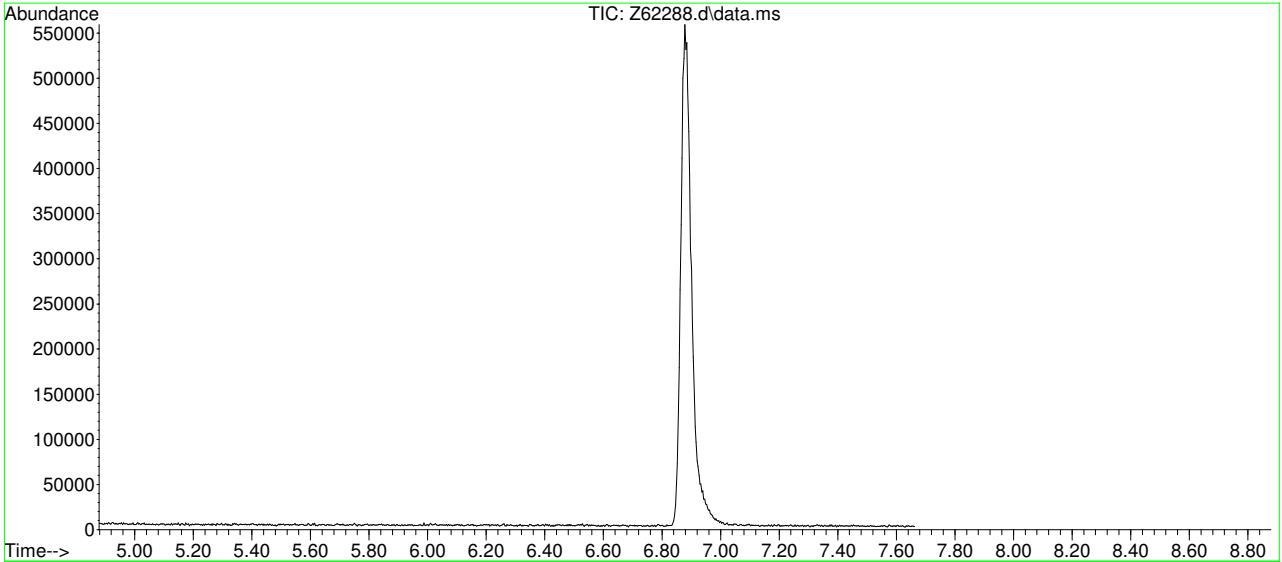
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.00	58	148.80	62	174.90	6903		
139.90	79	149.85	154	175.90	89128		
140.85	1457	151.80	52	176.90	5541		
141.90	160	152.70	111	177.85	205		
142.90	1269	154.10	53	178.10	53		
144.00	56	154.90	432	192.80	68		
144.85	153	156.90	235	210.70	66		
145.70	72	158.95	210	280.90	72		
146.00	182	160.85	116				
146.90	77	172.85	429				
147.80	337	173.90	89573				

BFB

Data File : C:\msdchem\1\data\jo...-2020\vz2417\Z62288.d Vial: 3  
 Acq On : 13 Sep 2020 11:05 am Operator: stutip  
 Sample : BFB Inst : MSVOA15  
 Misc : MS47199,VZ2417,,,,, Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SIMCL091120.M (RTE Integrator)  
 Title : WATER-EPA 8260B



AutoFind: Scans 2111, 2112, 2113; Background Corrected with Scan 2095

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	23957	PASS
75	95	30	60	55.8	56141	PASS
95	95	100	100	100.0	100576	PASS
96	95	5	9	7.4	7461	PASS
173	174	0.00	2	0.5	438	PASS
174	95	50	100	82.7	83139	PASS
175	174	5	9	7.1	5898	PASS
176	174	95	101	99.2	82453	PASS
177	176	5	9	6.7	5508	PASS

7.5.4  
7

Average of 6.875 to 6.881 min.: Z62288.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	1273	49.00	4731	62.00	5299	74.00	20715
37.00	6401	50.00	23957	63.00	4582	75.00	56141
38.05	5941	51.00	7379	64.05	562	76.00	5036
39.00	1872	52.00	424	65.00	78	77.00	748
39.90	125	53.00	52	66.90	398	77.90	672
40.90	284	54.90	560	68.00	12026	78.90	5078
43.10	127	56.00	2095	69.00	12009	79.85	1413
43.95	558	56.95	3784	69.95	1254	80.90	5488
44.95	1009	58.00	176	71.10	62	81.90	1264
46.95	936	59.95	939	71.90	461	86.90	3738
47.95	772	60.95	5849	72.95	5969	87.95	3576

Average of 6.875 to 6.881 min.: Z62288.d\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.80	344	106.00	526	133.10	63	156.70	57
91.00	219	106.95	138	134.80	253	157.00	146
92.00	3400	110.70	60	136.80	384	158.80	51
92.95	4459	112.70	57	140.85	1214	160.90	87
94.00	13832	115.85	546	141.80	65	171.80	79
95.00	100576	116.85	860	142.85	1306	172.80	438
96.00	7461	117.90	404	144.90	65	173.90	83139
97.00	256	118.85	686	145.85	172	174.90	5898
103.85	689	127.85	437	147.85	166	175.90	82453
104.90	189	128.80	69	154.85	205	176.90	5508
105.80	184	129.80	447	155.90	113	177.85	202

7.5.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	316238	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.441	117	240066	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	128832	4.64	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%	
19) Toluene-d8	8.896	98	278677	4.75	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	95.00%	
Target Compounds						
2) Vinyl Chloride	2.905	62	3529	0.11	ug/L	100
3) Chloromethane	2.799	50	8825m	0.19	ug/L	
4) 1,1-Dichloroethene	4.089	61	4096	0.10	ug/L	83
5) Methylene Chloride	4.700	49	136057	1.74	ug/L	97
6) trans-1,2-Dichloroethene	4.869	61	5203	0.10	ug/L	83
7) 1,1-Dichloroethane	5.514	63	5816	0.10	ug/L	97
8) cis-1,2-Dichloroethene	6.072	96	2981	0.11	ug/L	88
9) Chloroform	6.333	83	5313	0.11	ug/L	81
10) Carbon Tetrachloride	6.505	117	3177	0.11	ug/L	80
11) 1,1,1-Trichloroethane	6.576	97	3749	0.11	ug/L	92
12) Benzene	6.943	78	10630m	0.11	ug/L	
14) 1,2-Dichloroethane	7.139	62	4857	0.09	ug/L	92
15) Trichloroethene	7.512	95	2945	0.11	ug/L	89
16) 1,2-Dichloropropane	8.040	63	3248m	0.09	ug/L	
17) cis-1,3-Dichloropropene	8.711	75	3070	0.08	ug/L	97
20) trans-1,3-Dichloropropene	9.343	75	2765	0.08	ug/L	91
21) Tetrachloroethene	9.343	166	2702m	0.12	ug/L	
22) 1,4-Dichlorobenzene	12.827	146	5272	0.10	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.038	75	1605m	0.12	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

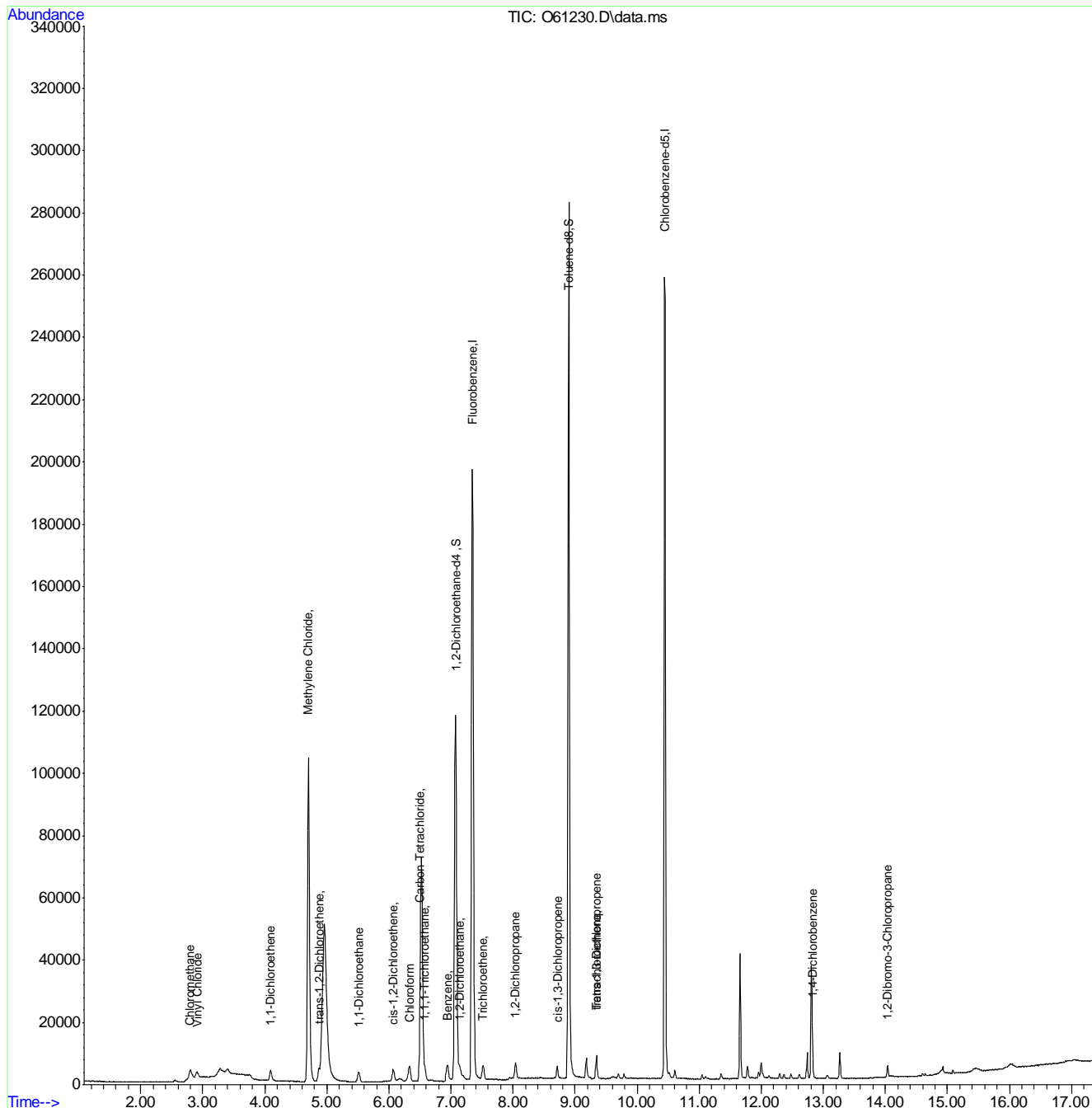
7.6.1  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : stutip  
 Sample : IC2356-1  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:00:06 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



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# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61230.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:34      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.80	Poor instrument integration
Benzene	71-43-2		6.94	Poor instrument integration
1,2-Dichloropropane	78-87-5		8.04	Poor instrument integration
Tetrachloroethylene	127-18-4		9.34	Poor instrument integration
1,2-Dibromo-3-chloropropane	96-12-8		14.04	Poor instrument integration

7.6.1.1

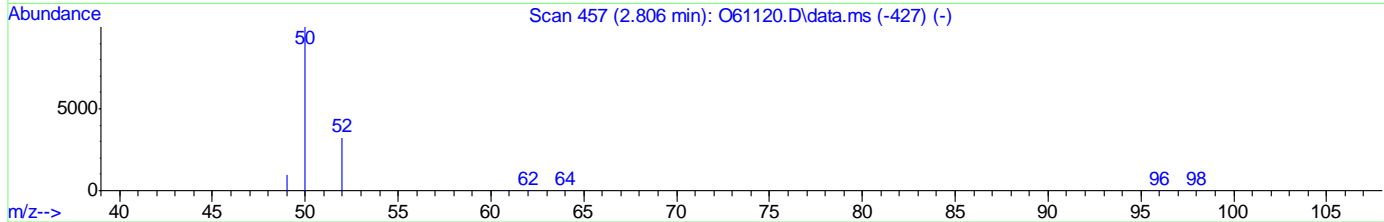
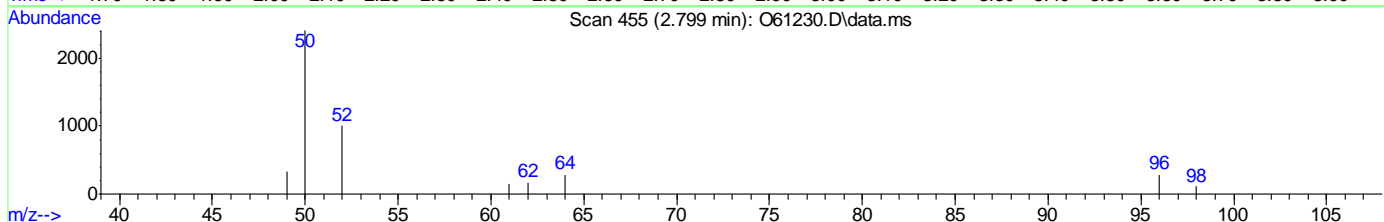
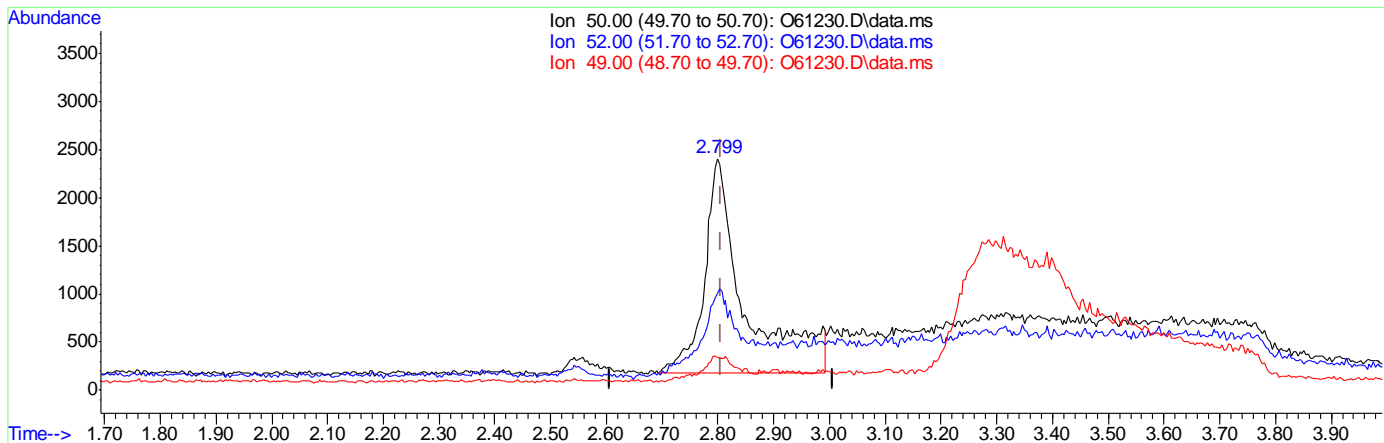
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(3) Chloromethane  
 2.799min (-0.007) 0.24ug/L  
 response 11047

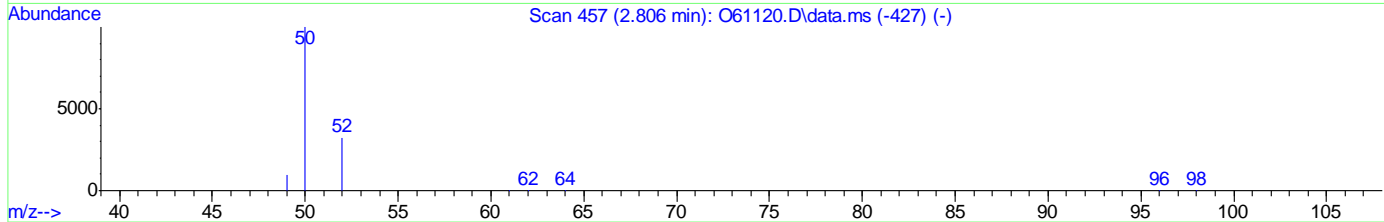
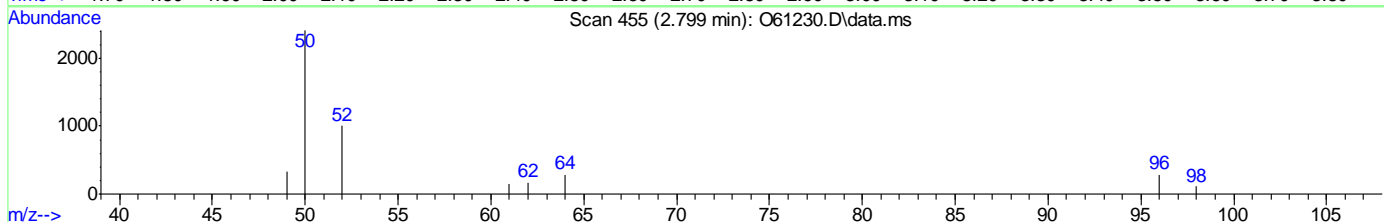
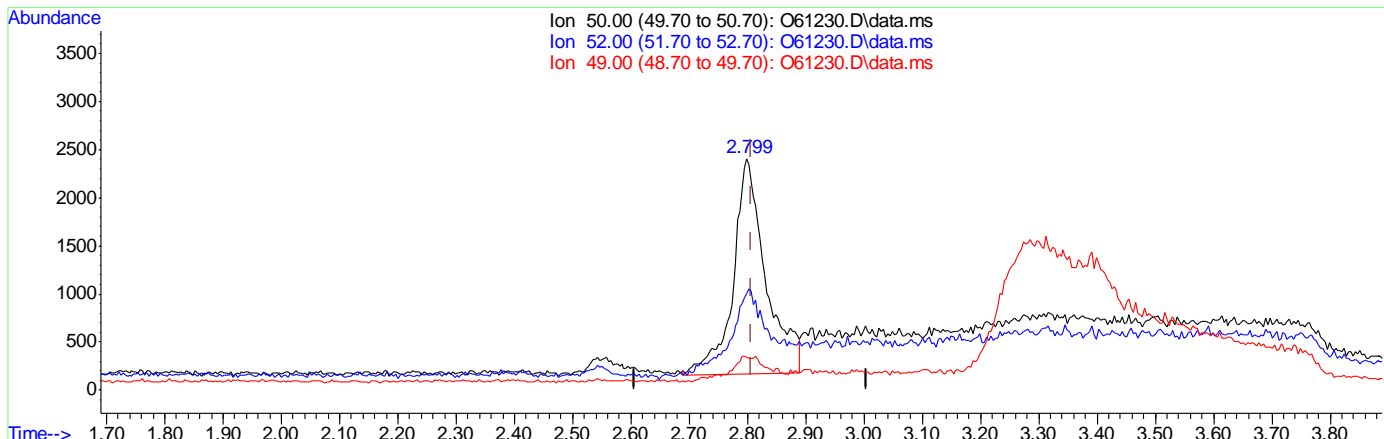
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	37.05
49.00	10.50	11.15
0.00	0.00	0.00

7.6.1.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(3) Chloromethane  
 2.799min (-0.007) 0.19ug/L m  
 response 8787

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

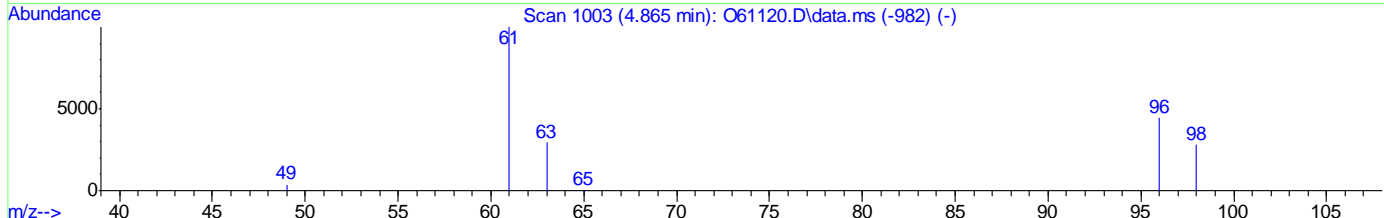
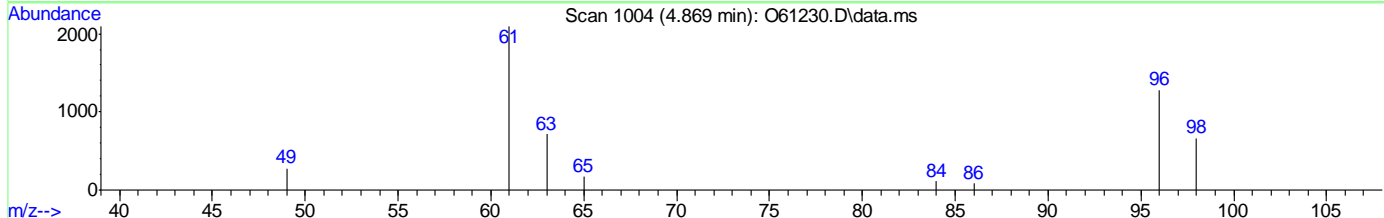
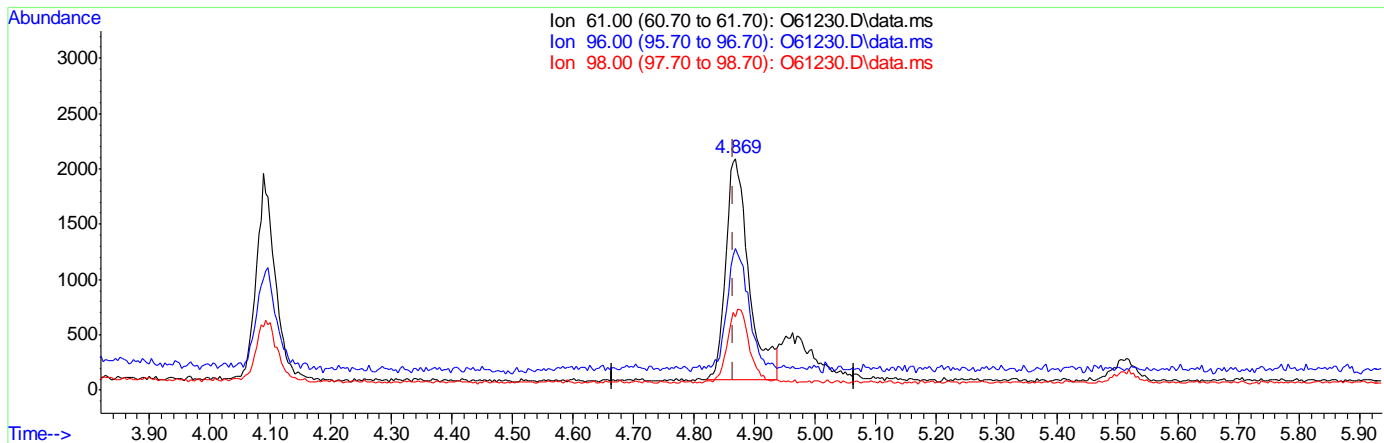
7.6.1.3  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



TIC: O61230.D\data.ms

(6) trans-1,2-Dichloroethene ( )

4.869min (+0.004) 0.10ug/L

response 5203

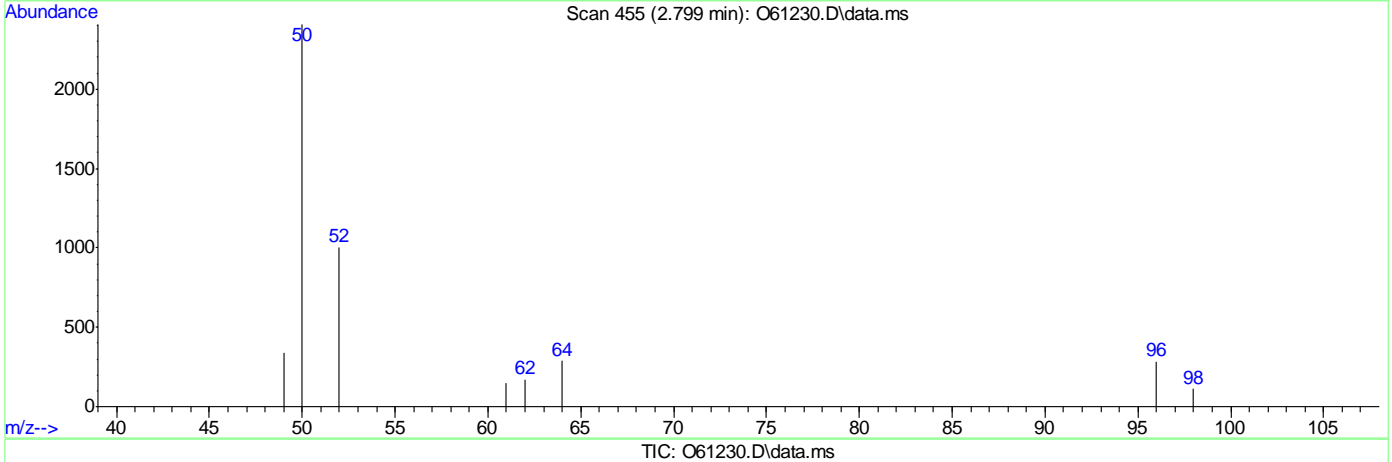
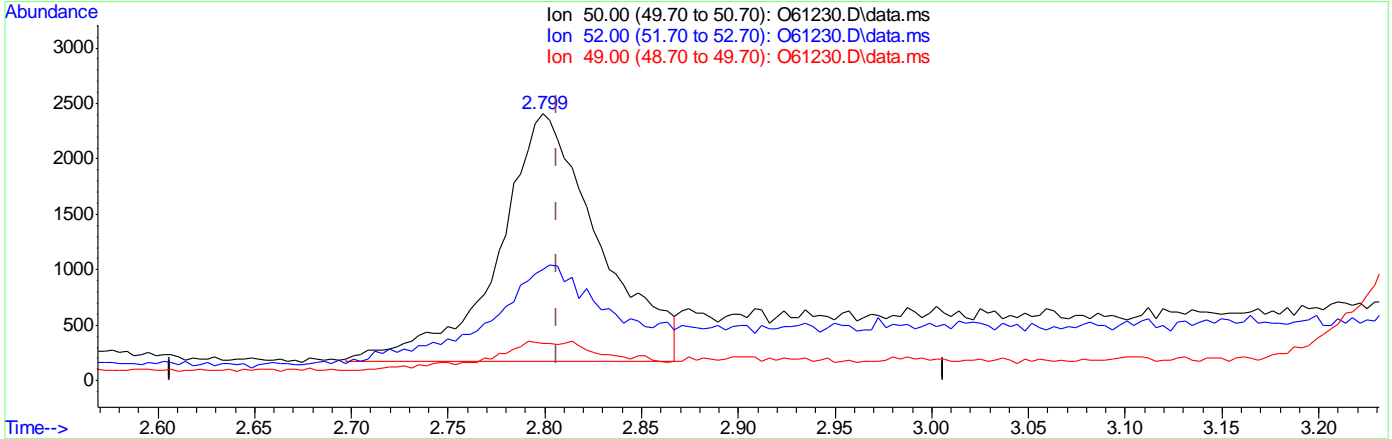
Ion	Exp%	Act%
61.00	100	100
96.00	66.90	54.30
98.00	41.10	28.92
0.00	0.00	0.00

7.6.1.4  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.17ug/L m

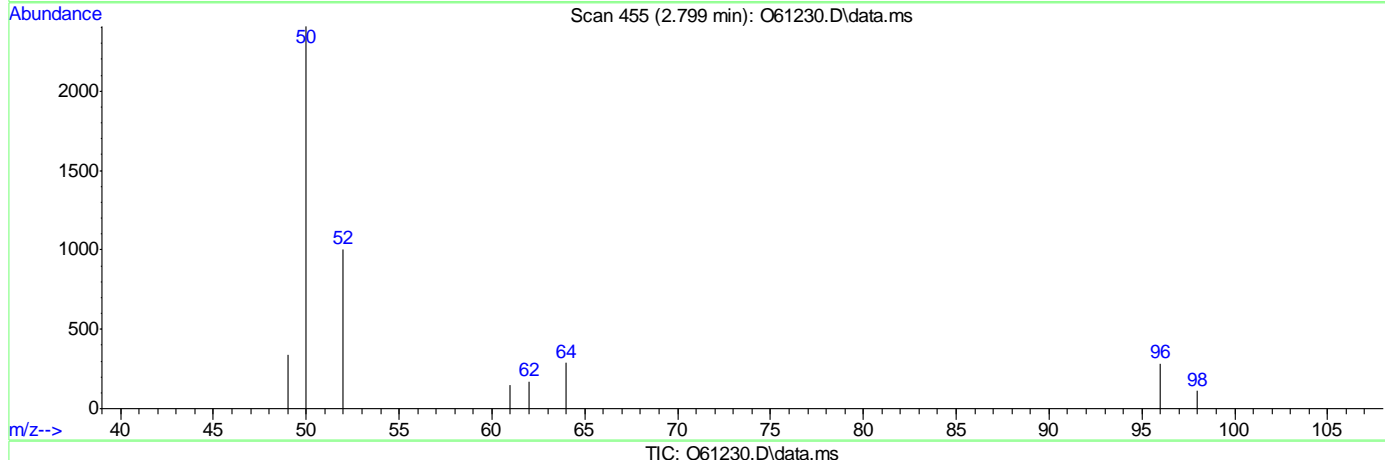
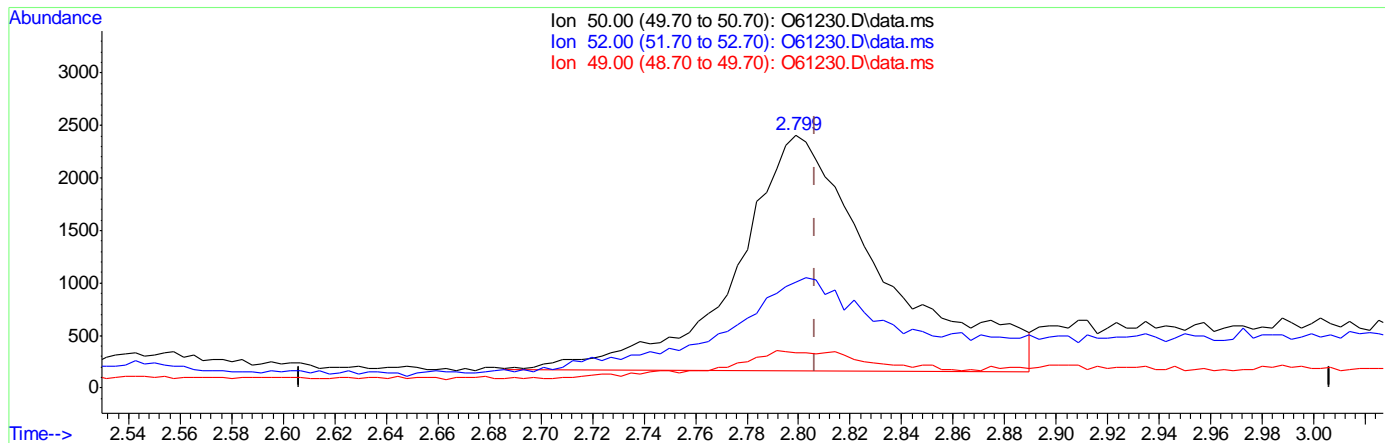
response 8061

Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.799min (-0.007) 0.19ug/L m

response 8825

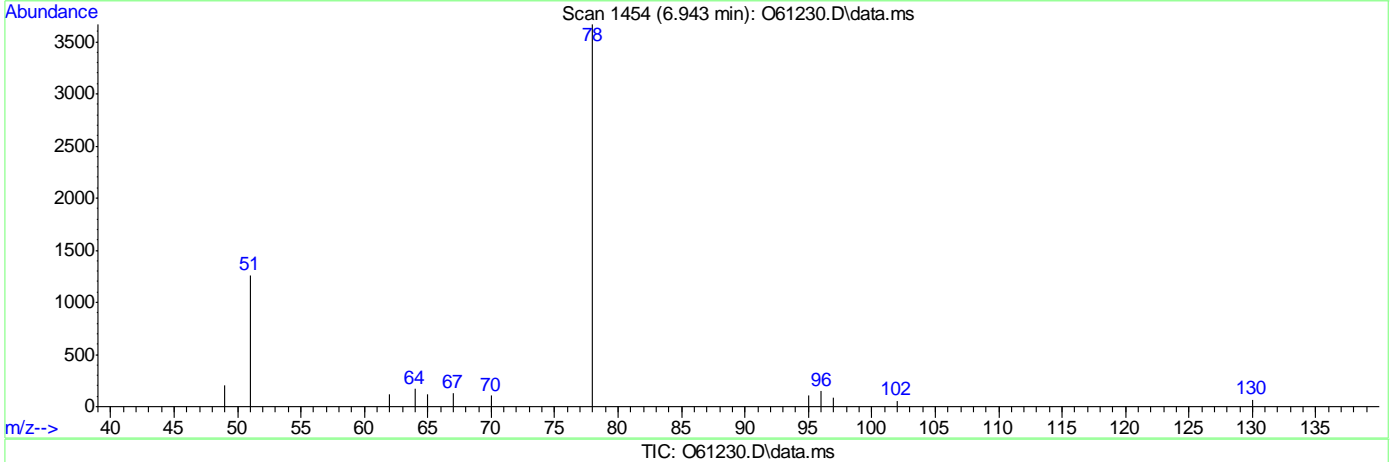
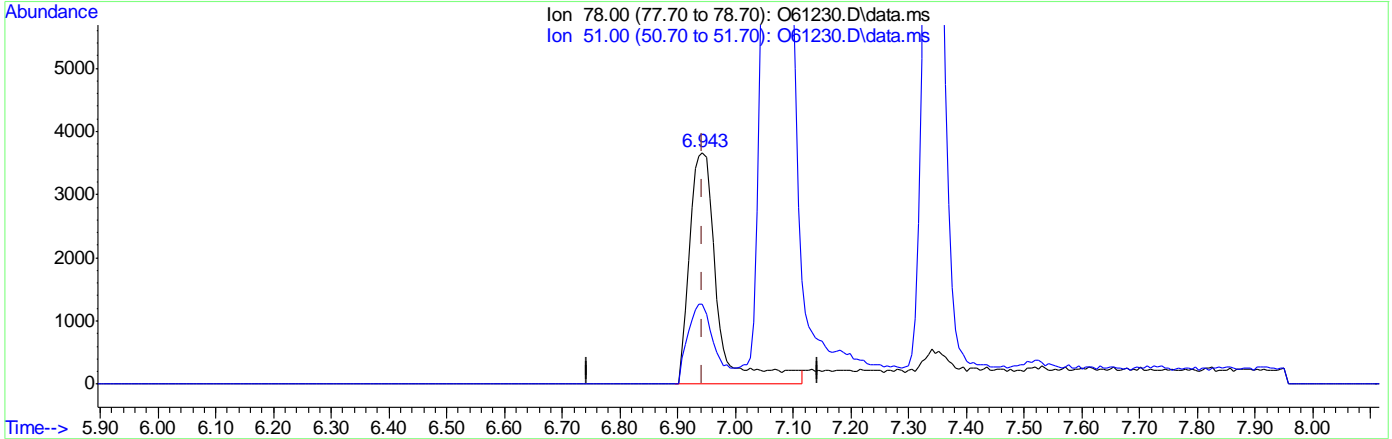
Ion	Exp%	Act%
50.00	100	100
52.00	27.80	41.69
49.00	10.50	14.00
0.00	0.00	0.00

7.6.1.6  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



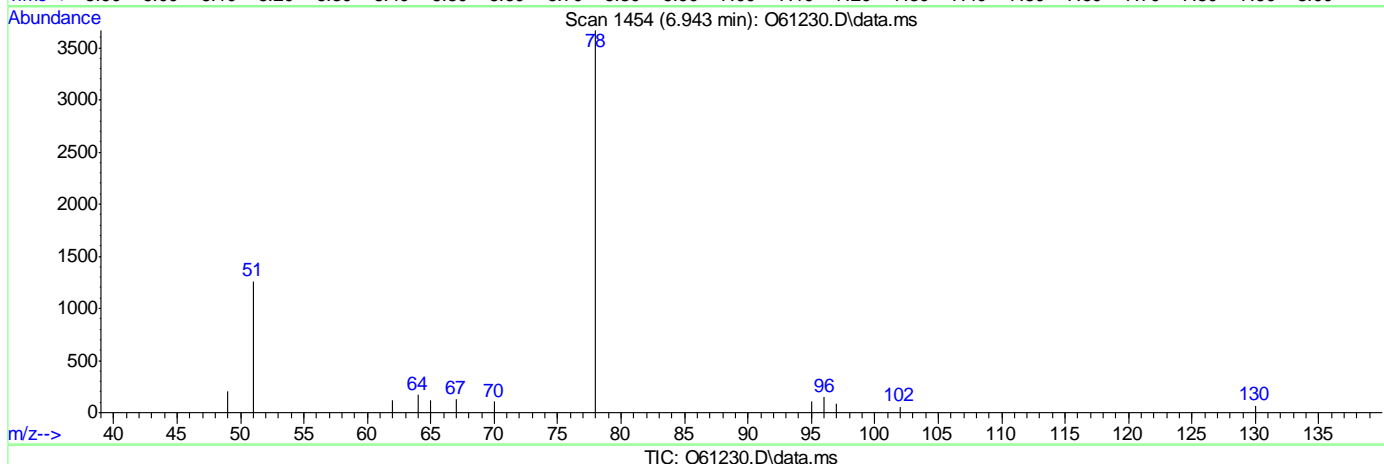
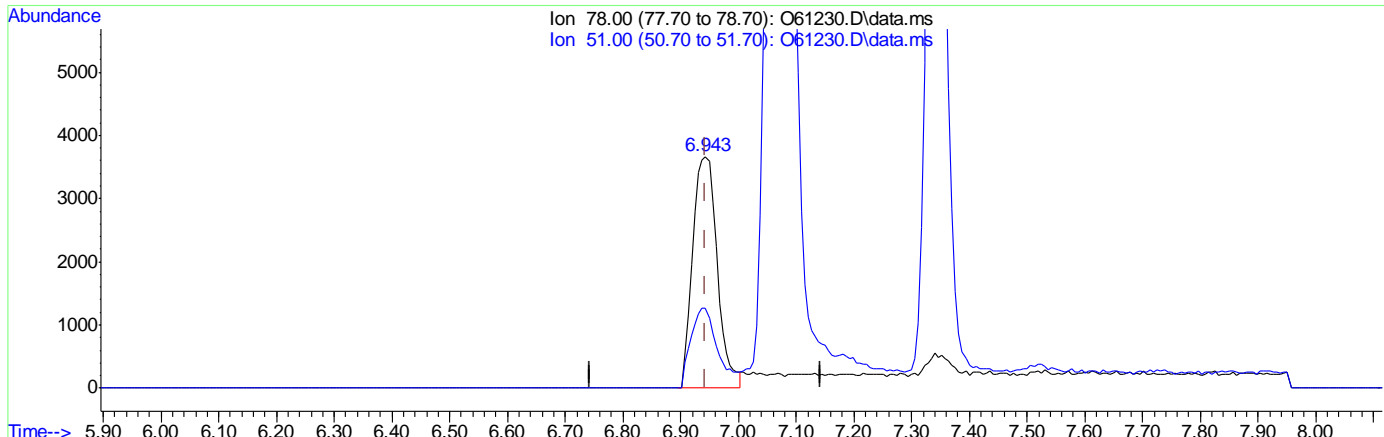
(12) Benzene ( )  
 6.943min (+0.000) 0.13ug/L  
 response 12135

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.11ug/L m  
 response 10630

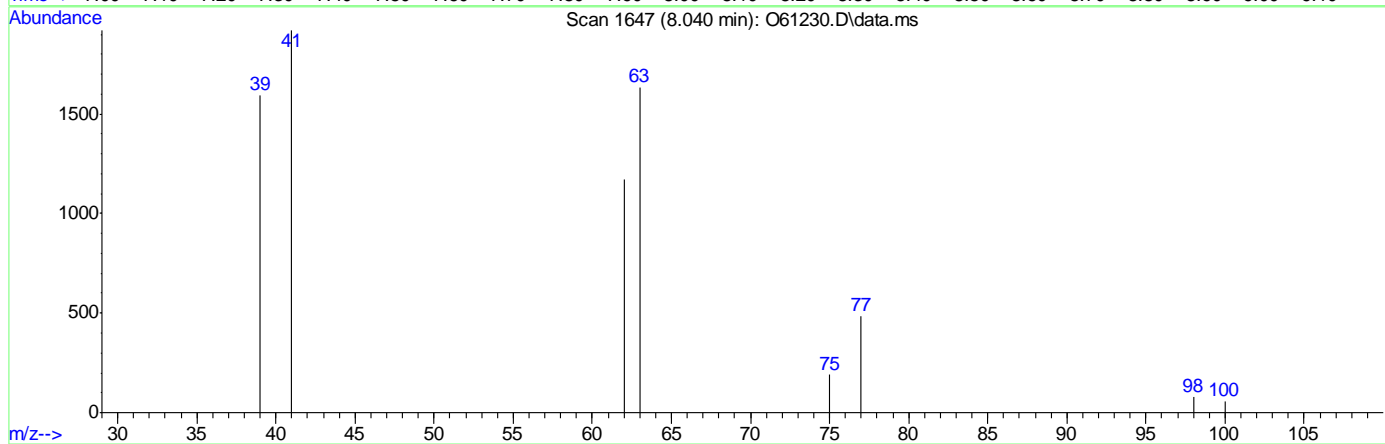
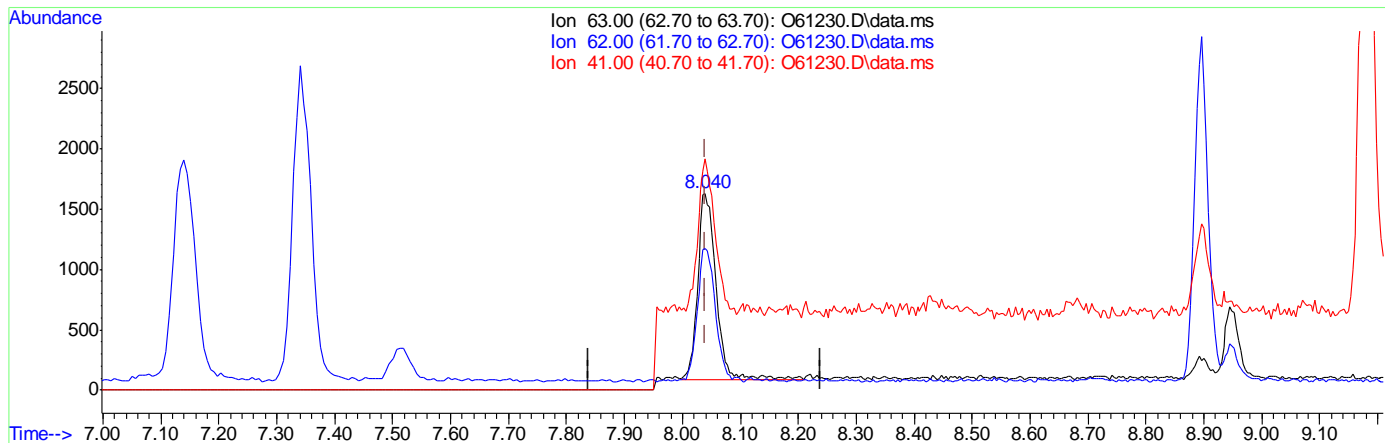
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	34.36
0.00	0.00	0.00
0.00	0.00	0.00

7.6.1.8  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.10ug/L  
 response 3437

Ion	Exp%	Act%
63.00	100	100
62.00	72.70	70.53
41.00	84.50	81.61
0.00	0.00	0.00

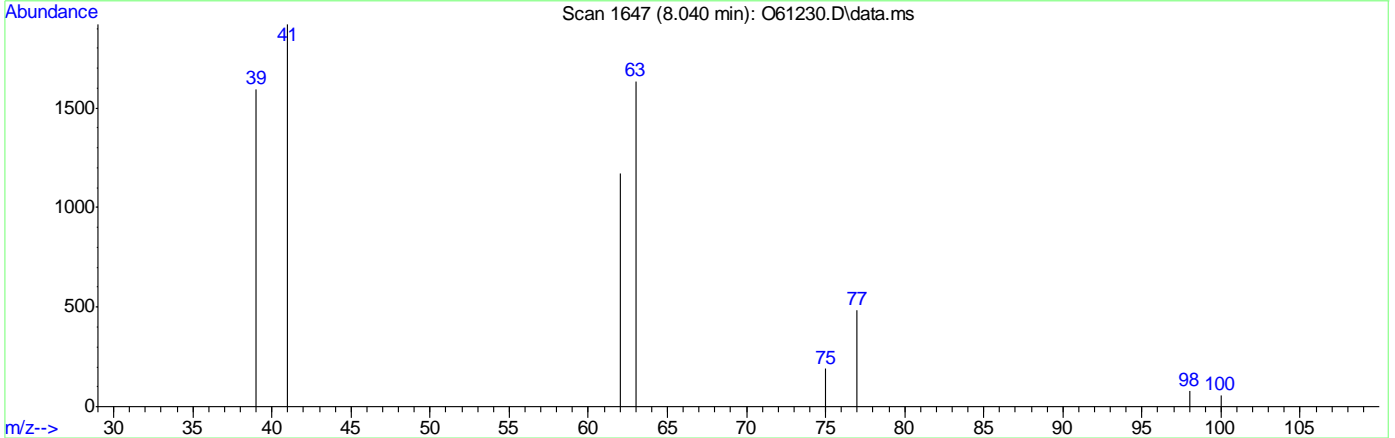
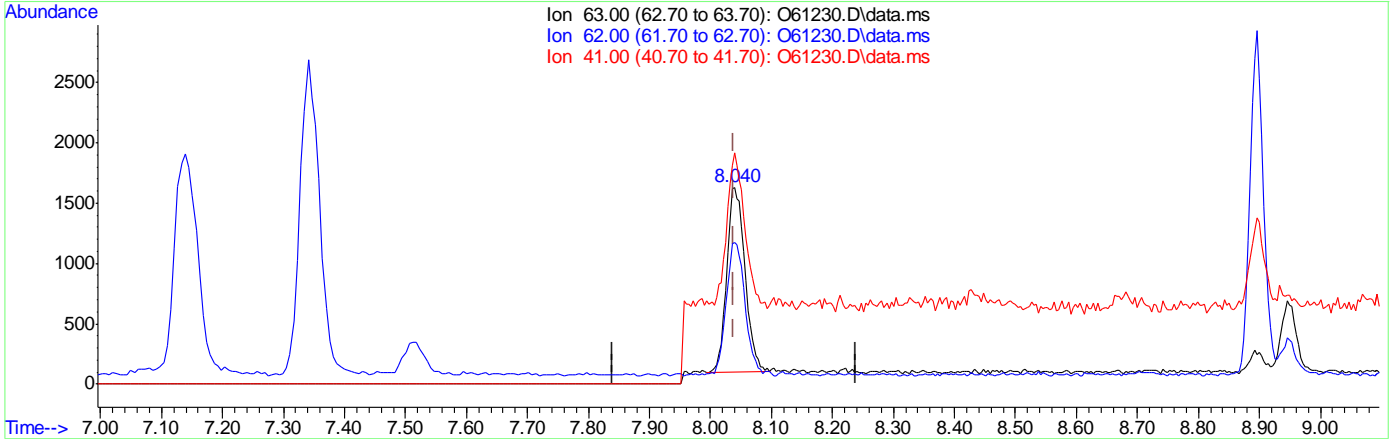
7.6.1.9  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



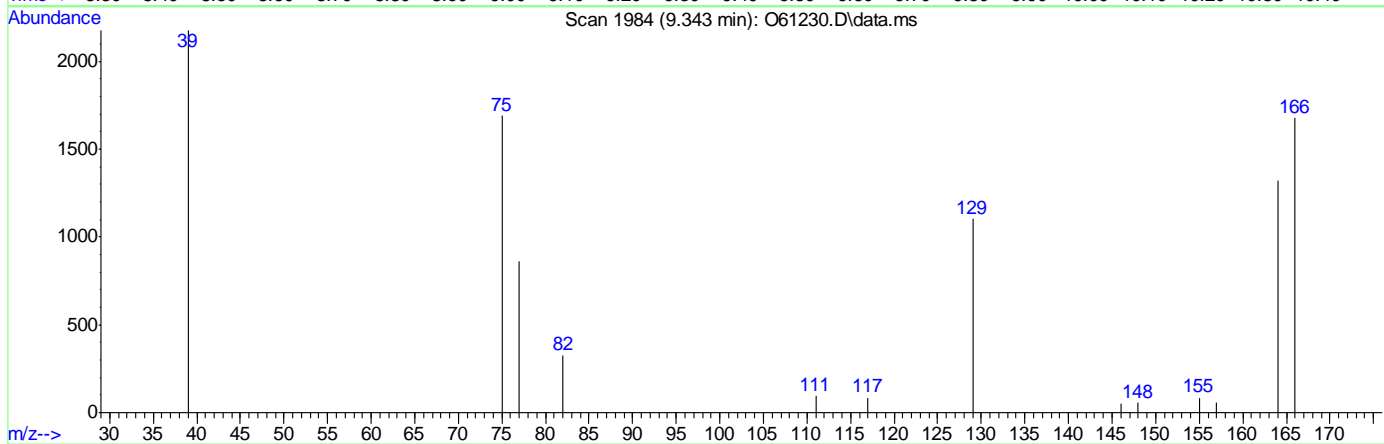
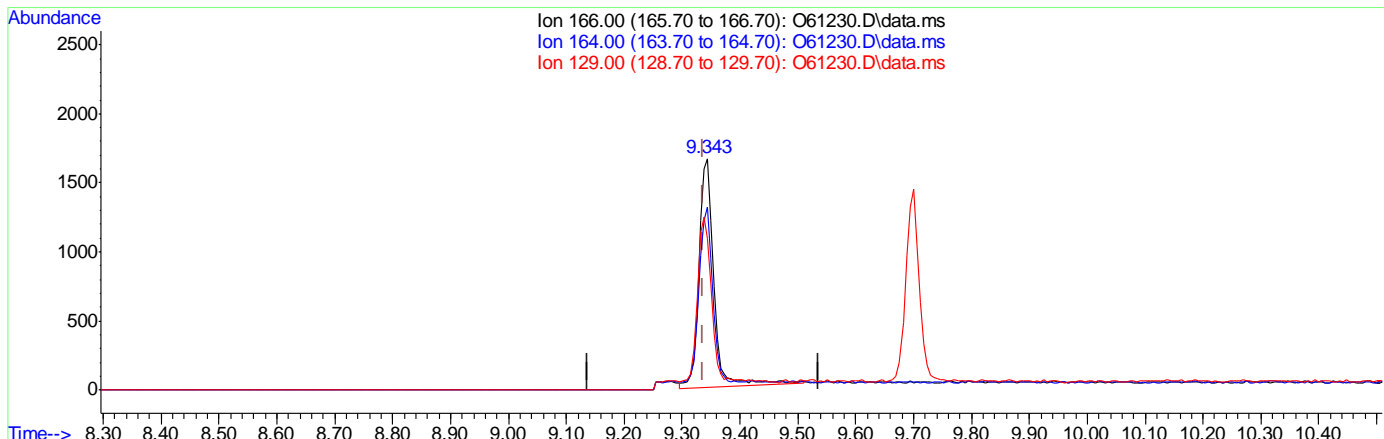
(16) 1,2-Dichloropropane  
 8.040min (+0.000) 0.09ug/L m  
 response 3248

Ion	Exp%	Act%
63.00	100	100
62.00	72.70	71.77
41.00	84.50	117.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )  
 9.343min (+0.006) 0.13ug/L  
 response 2993

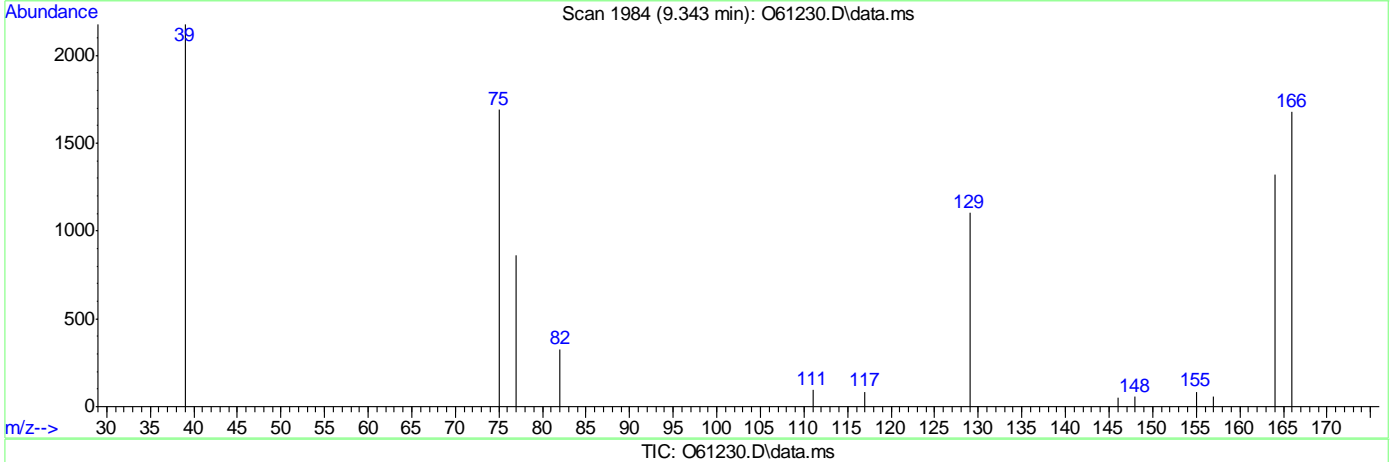
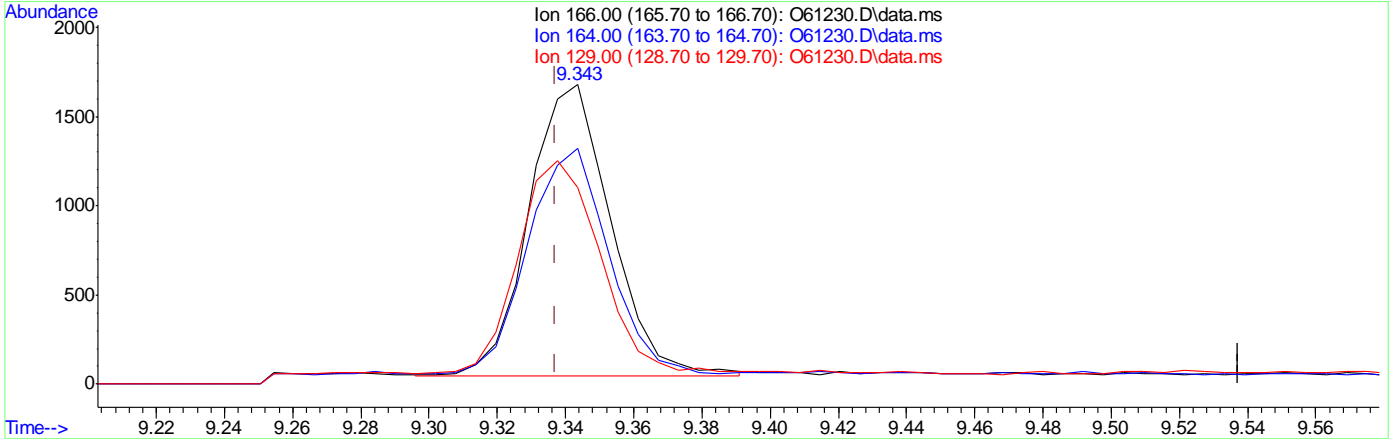
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	77.82
129.00	67.50	64.20
0.00	0.00	0.00

7.6.1.11  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(21) Tetrachloroethene ( )  
 9.343min (+0.006) 0.12ug/L m  
 response 2702

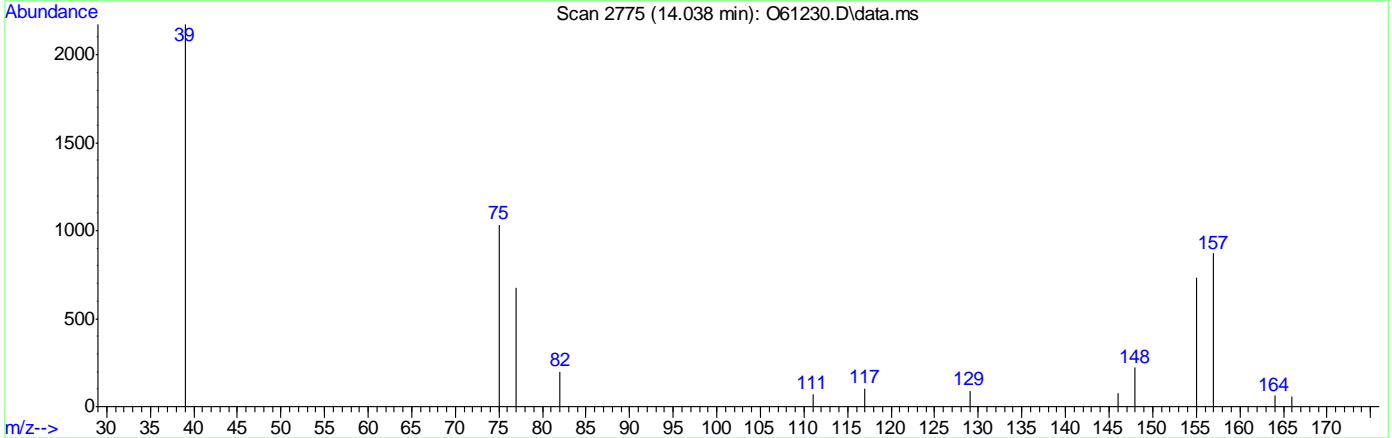
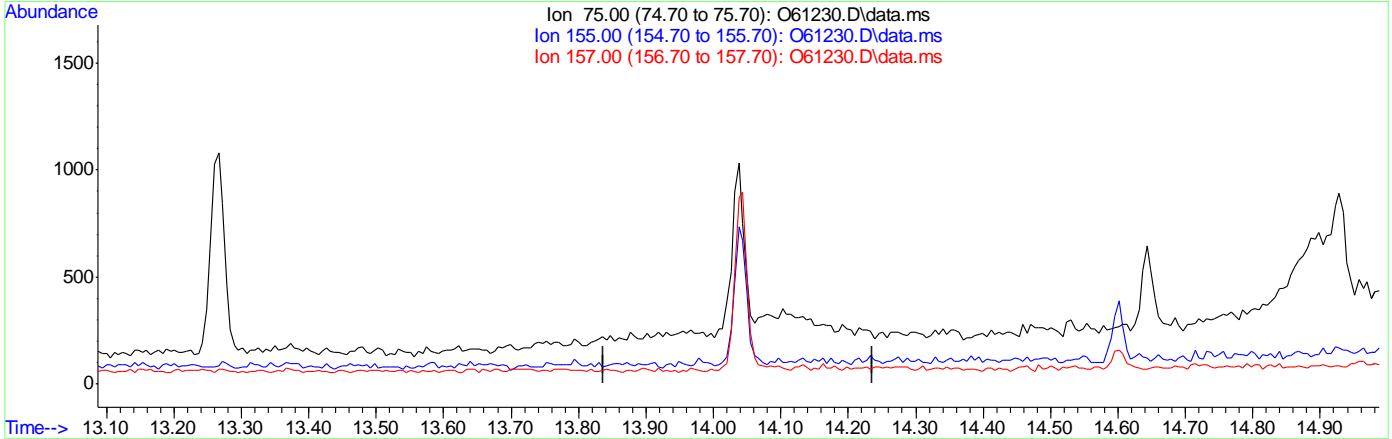
Ion	Exp%	Act%
166.00	100	100
164.00	77.30	78.83
129.00	67.50	65.71
0.00	0.00	0.00

7.6.1.12  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.037min (-14.037) 0.00ug/L

response 0

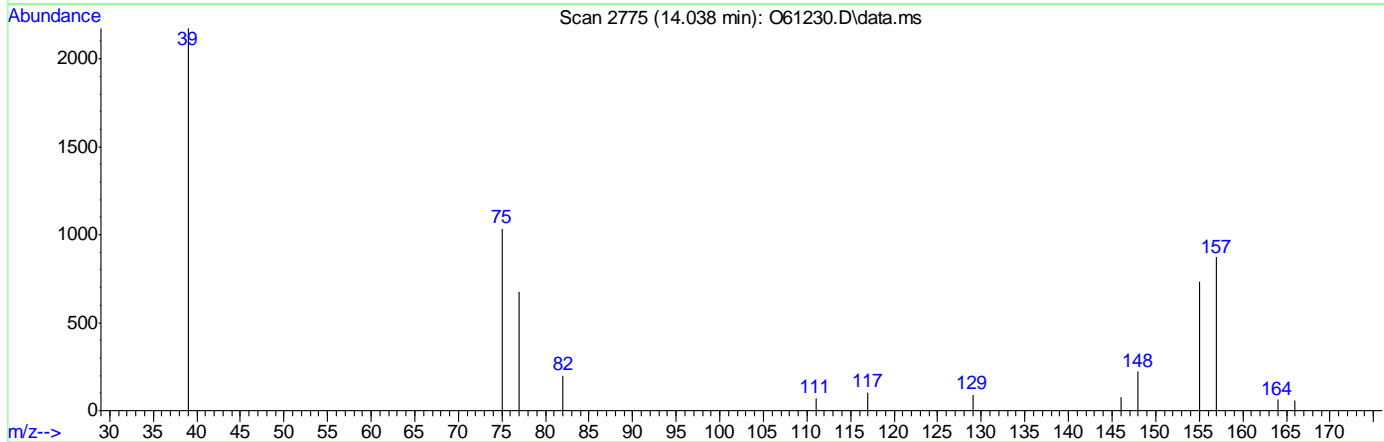
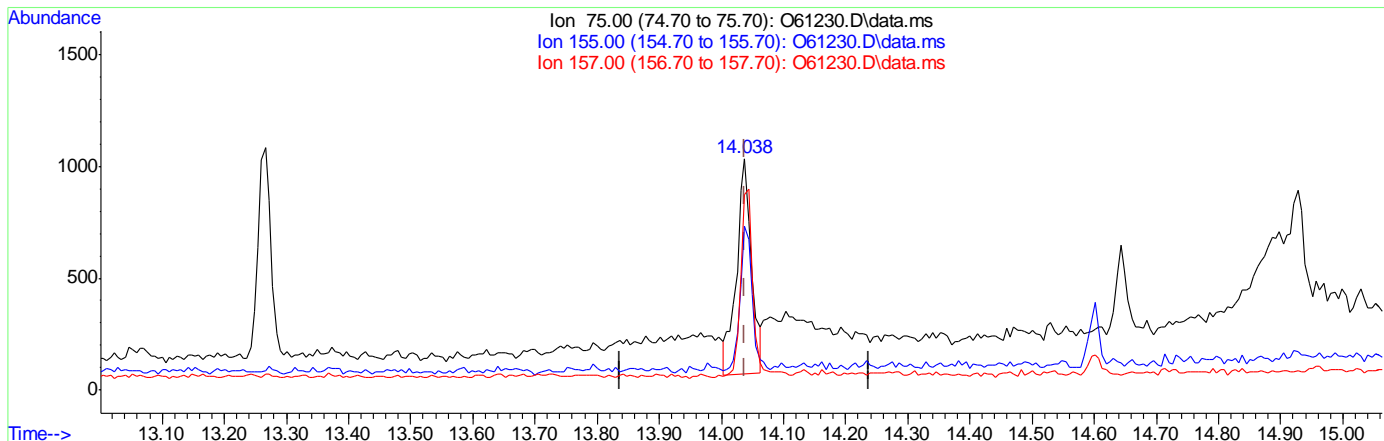
Ion	Exp%	Act%
75.00	100	0.00
155.00	88.00	0.00#
157.00	106.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61230.D  
 Acq On : 11 Sep 2020 3:34 pm  
 Operator : MANAGER  
 Sample : IC2356-1  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:22 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(23) 1,2-Dibromo-3-Chloropropane

14.038min (+0.000) 0.12ug/L m

response 1605

Ion	Exp%	Act%
75.00	100	100
155.00	88.00	70.99
157.00	106.80	84.43#
0.00	0.00	0.00

7.6.1.14  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : stutip  
 Sample : IC2356-2 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 18:02:23 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Fluorobenzene	7.346	96	308238	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	234700	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	125580	4.64	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	92.80%		
19) Toluene-d8	8.896	98	269907	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	94.20%		
Target Compounds							
2) Vinyl Chloride	2.908	62	19507	0.64	ug/L	96	
3) Chloromethane	2.799	50	33695	0.75	ug/L	90	
4) 1,1-Dichloroethene	4.092	61	22337	0.54	ug/L	92	
5) Methylene Chloride	4.703	49	128834	1.69	ug/L	98	
6) trans-1,2-Dichloroethene	4.869	61	28030	0.55	ug/L	84	
7) 1,1-Dichloroethane	5.514	63	30310	0.52	ug/L	99	
8) cis-1,2-Dichloroethene	6.066	96	14558	0.56	ug/L #	80	
9) Chloroform	6.333	83	26026	0.55	ug/L	94	
10) Carbon Tetrachloride	6.510	117	17328	0.59	ug/L	87	
11) 1,1,1-Trichloroethane	6.576	97	19399	0.57	ug/L	89	
12) Benzene	6.943	78	51252m	0.56	ug/L		
14) 1,2-Dichloroethane	7.139	62	24323	0.48	ug/L	91	
15) Trichloroethene	7.512	95	15009	0.56	ug/L	93	
16) 1,2-Dichloropropane	8.040	63	17486	0.52	ug/L	93	
17) cis-1,3-Dichloropropene	8.711	75	15877	0.42	ug/L	96	
20) trans-1,3-Dichloropropene	9.343	75	14216	0.40	ug/L	98	
21) Tetrachloroethene	9.337	166	14813	0.65	ug/L	90	
22) 1,4-Dichlorobenzene	12.827	146	27579	0.56	ug/L	98	
23) 1,2-Dibromo-3-Chloropr...	14.037	75	6106	0.47	ug/L	98	

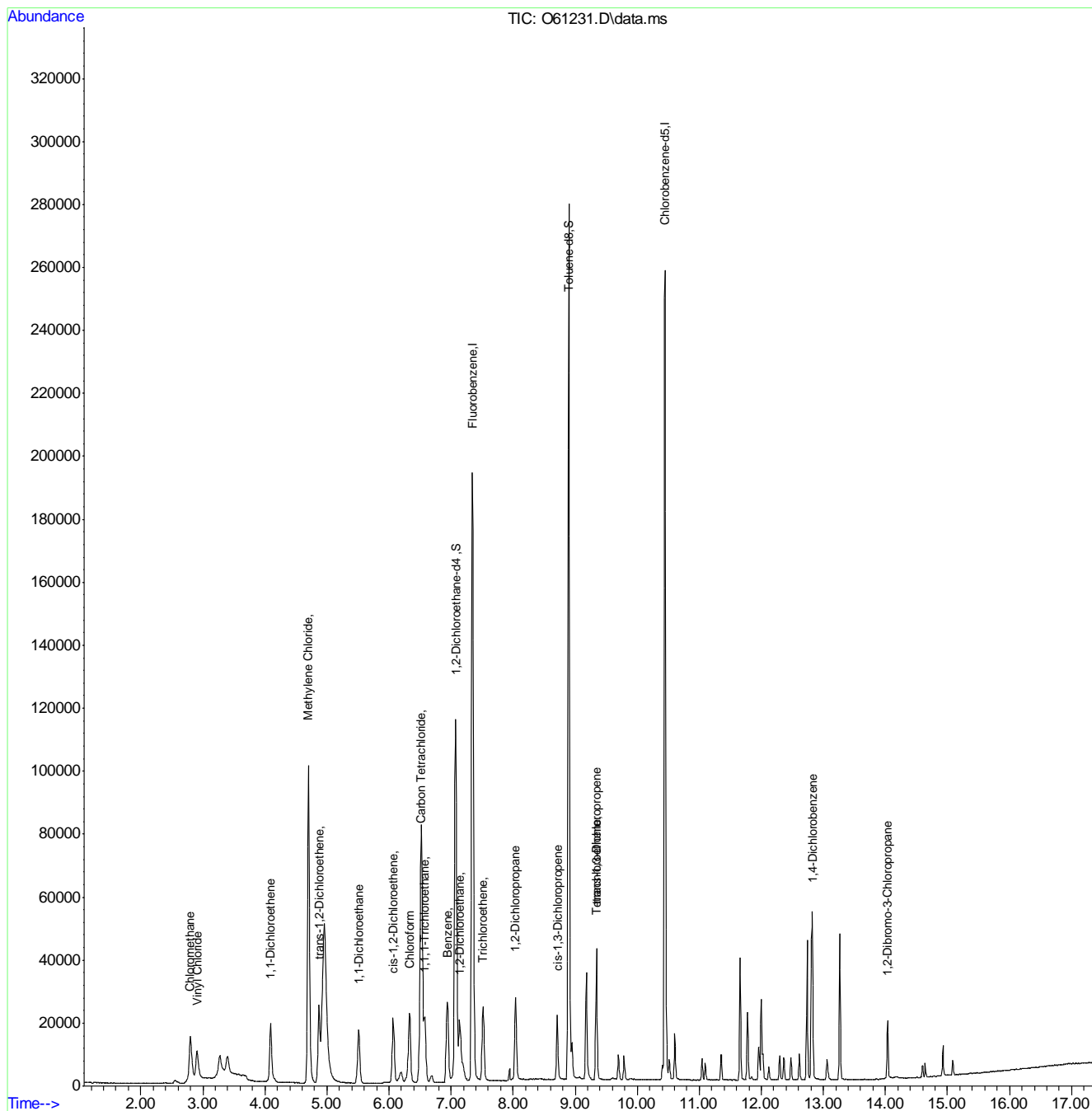
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
Data File : 061231.D  
Acq On : 11 Sep 2020 3:54 pm  
Operator : stutip  
Sample : IC2356-2  
Misc : MS47201,VO2356,,,,,  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:02:23 2020  
Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
Quant Title : Standard Methods 6200B  
QLast Update : Wed Sep 09 12:10:38 2020  
Response via : Initial Calibration



# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61231.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 15:54      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.2.1

7

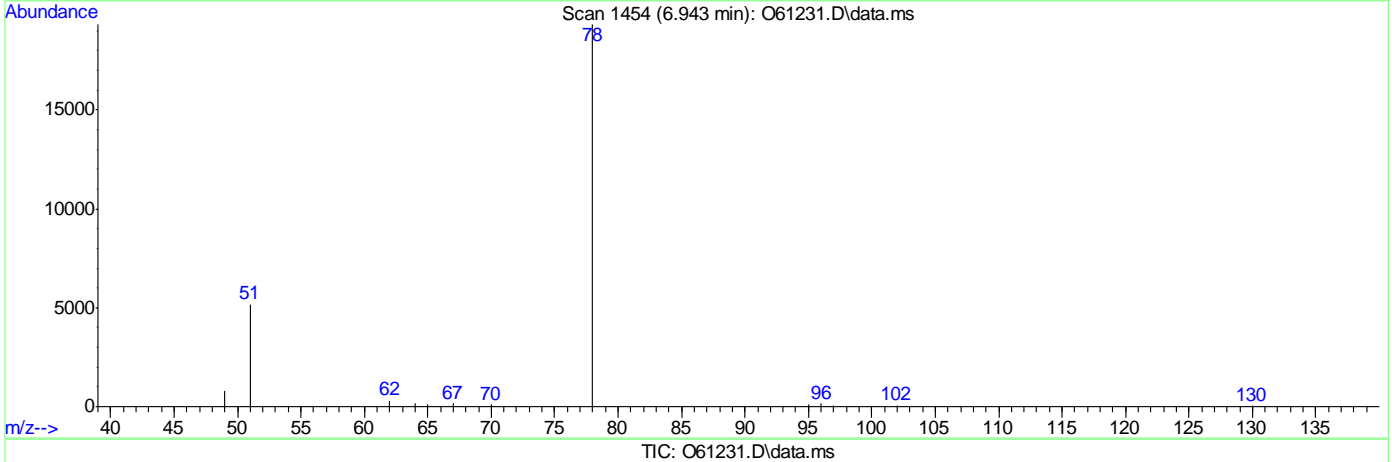
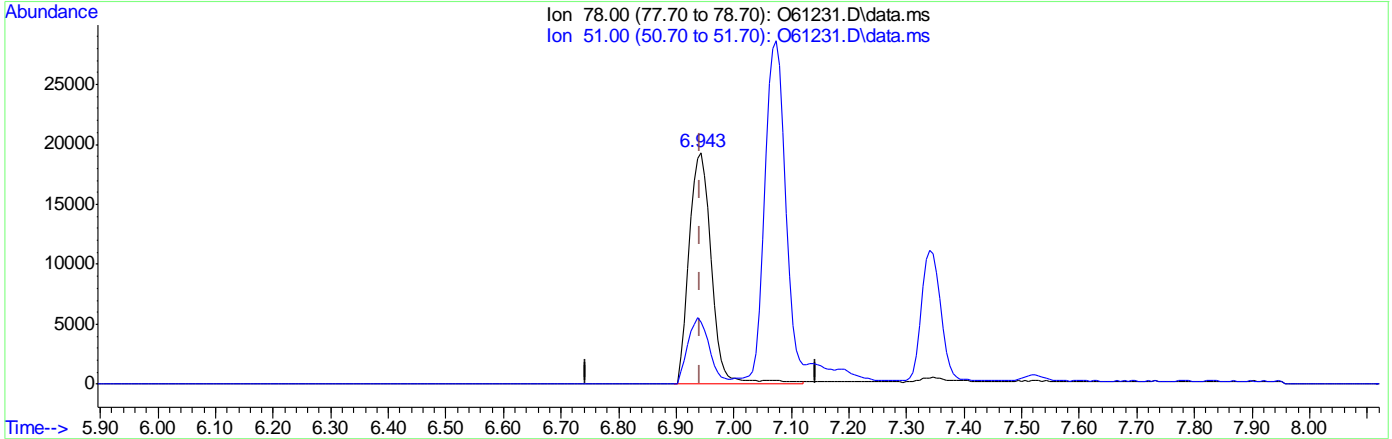


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 0.58ug/L

response 53149

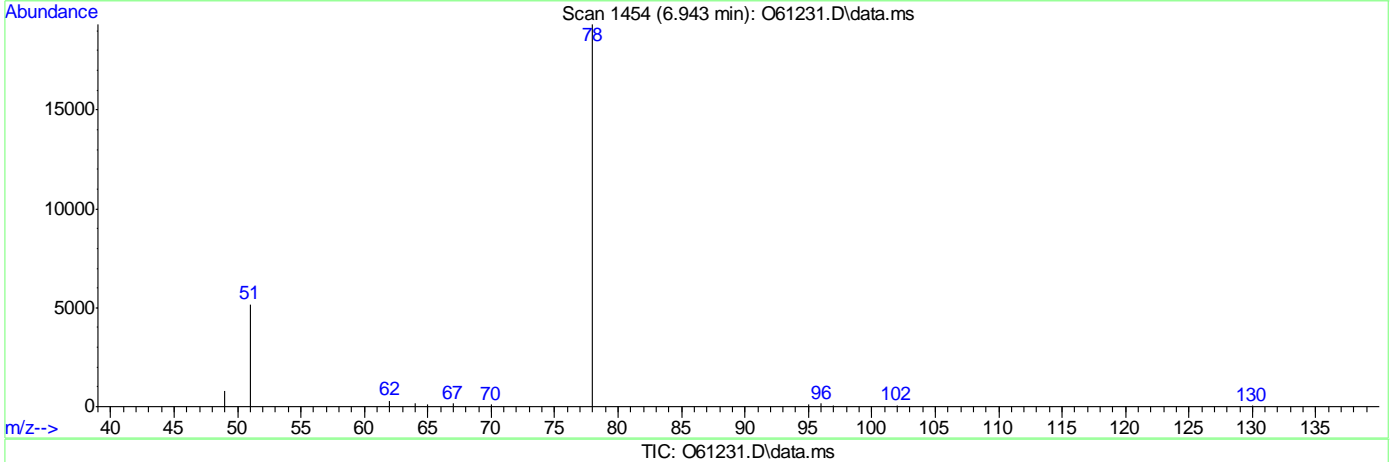
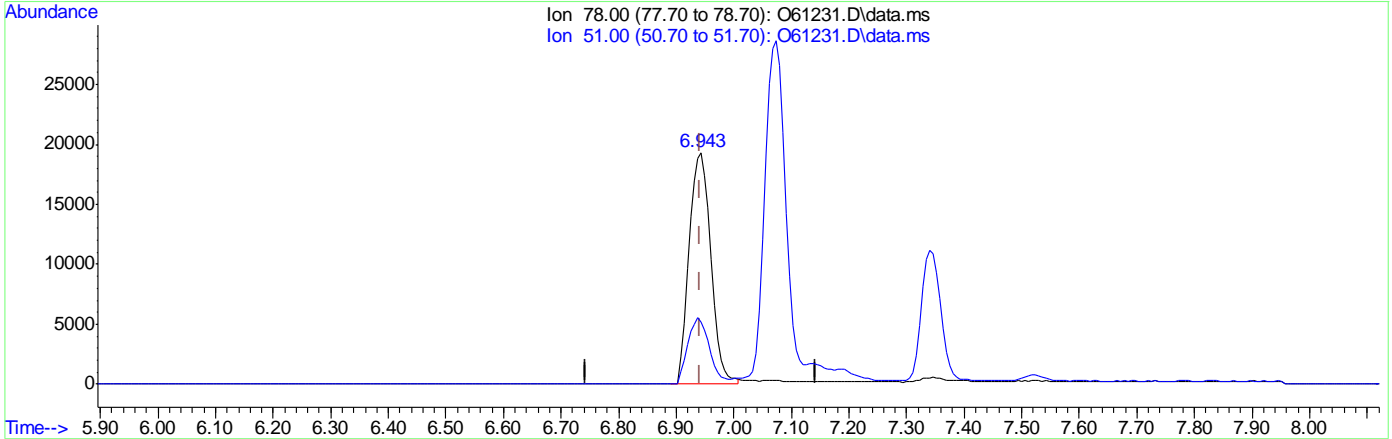
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61231.D  
 Acq On : 11 Sep 2020 3:54 pm  
 Operator : MANAGER  
 Sample : IC2356-2  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:24 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 0.56ug/L m  
 response 51252

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	317169	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	244669	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	131106	4.71	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	94.20%		
19) Toluene-d8	8.900	98	274860	4.60	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.912	62	72414	2.35	ug/L		97
3) Chloromethane	2.810	50	108758	2.40	ug/L		94
4) 1,1-Dichloroethene	4.100	61	84017	1.96	ug/L		92
5) Methylene Chloride	4.707	49	235781	3.07	ug/L		98
6) trans-1,2-Dichloroethene	4.873	61	98273	1.88	ug/L		82
7) 1,1-Dichloroethane	5.518	63	114595	1.92	ug/L		99
8) cis-1,2-Dichloroethene	6.072	96	55181	2.08	ug/L #		81
9) Chloroform	6.339	83	96882	2.01	ug/L		96
10) Carbon Tetrachloride	6.510	117	64256	2.13	ug/L		87
11) 1,1,1-Trichloroethane	6.582	97	73085	2.10	ug/L		93
12) Benzene	6.943	78	190849m	2.02	ug/L		
14) 1,2-Dichloroethane	7.145	62	94612	1.82	ug/L		91
15) Trichloroethene	7.518	95	56329	2.04	ug/L		86
16) 1,2-Dichloropropane	8.043	63	65843	1.91	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	63086	1.64	ug/L		98
20) trans-1,3-Dichloropropene	9.343	75	59845	1.60	ug/L		98
21) Tetrachloroethene	9.343	166	52774	2.22	ug/L		99
22) 1,4-Dichlorobenzene	12.827	146	108631	2.11	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	18565	1.37	ug/L		96

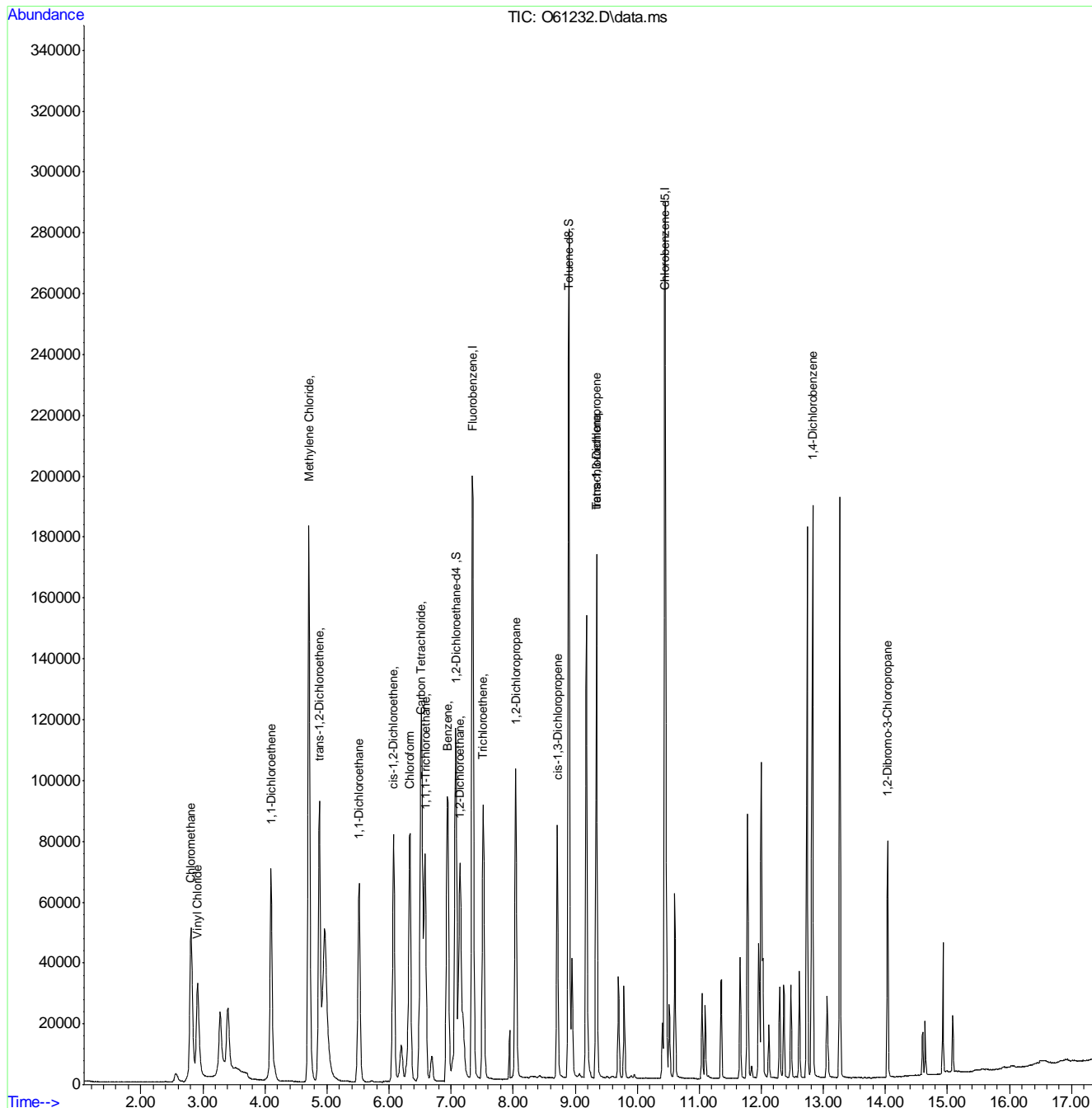
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : stutip  
 Sample : IC2356-3  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:15 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.3  
7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61232.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:14      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.3.1

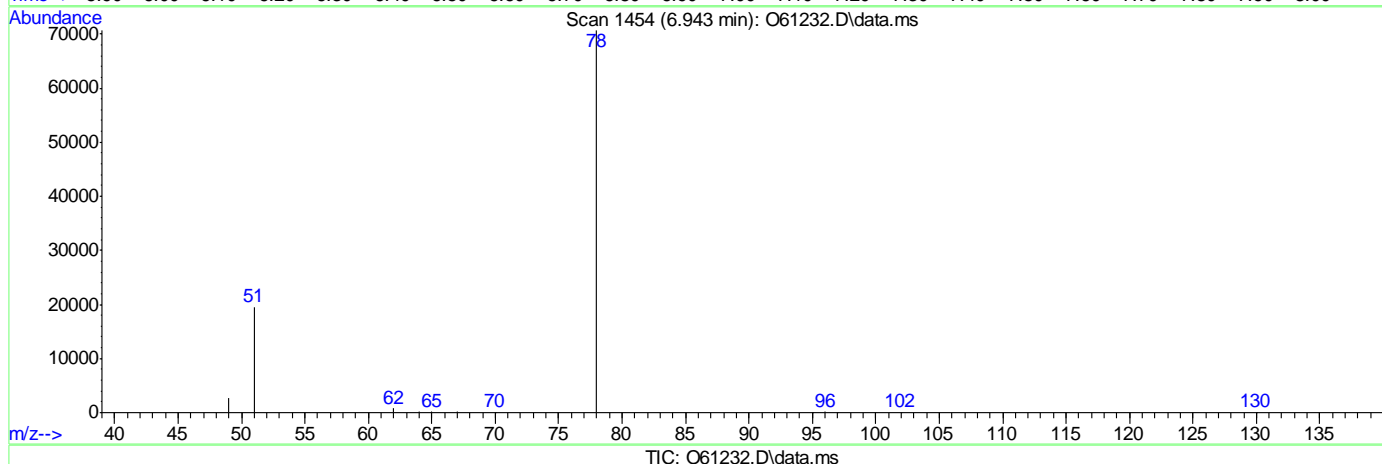
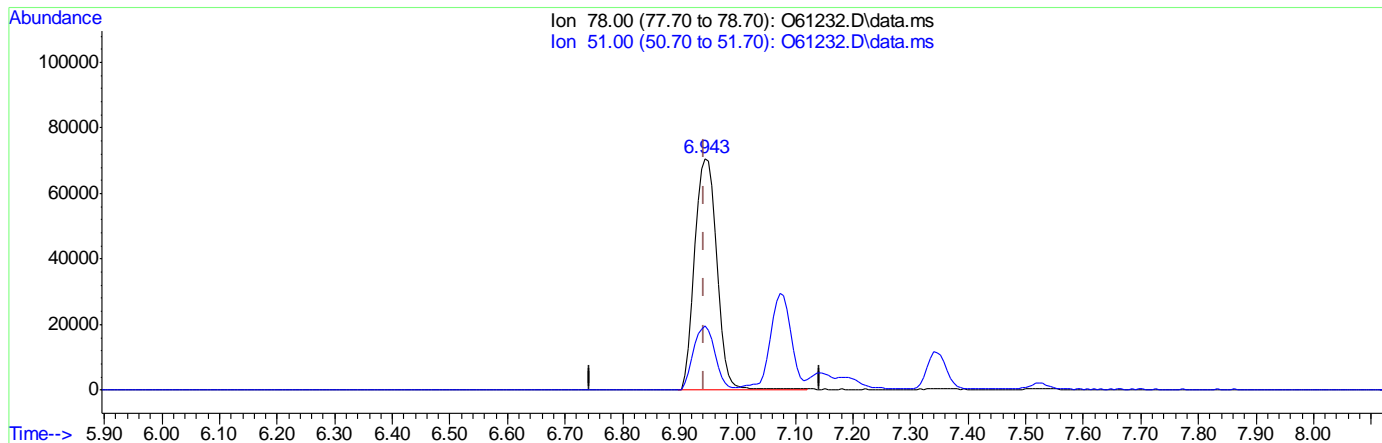
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 2.05ug/L  
 response 193530

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

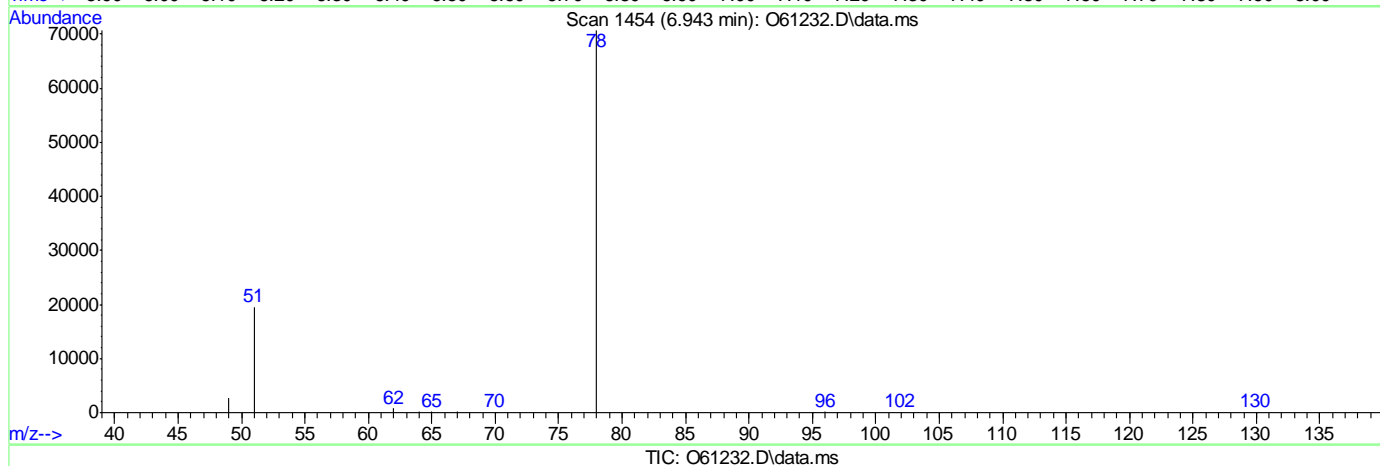
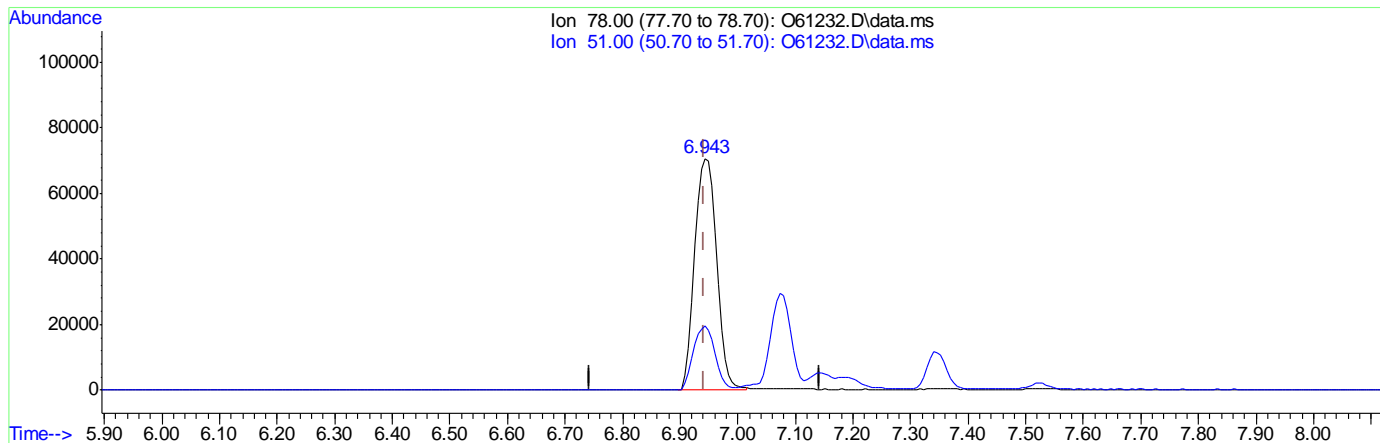
7.6.3.2  
7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61232.D  
 Acq On : 11 Sep 2020 4:14 pm  
 Operator : MANAGER  
 Sample : IC2356-3  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:26 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 2.02ug/L m

response 190849

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.64
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	331492	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	258539	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	143850	4.94	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.80%	
19) Toluene-d8	8.900	98	286563	4.53	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.60%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.916	62	189960	6.08	ug/L	98
3) Chloromethane	2.810	50	274617	5.99	ug/L	94
4) 1,1-Dichloroethene	4.100	61	243476	5.42	ug/L	92
5) Methylene Chloride	4.707	49	387657	4.95	ug/L	99
6) trans-1,2-Dichloroethene	4.873	61	280716	5.19	ug/L	83
7) 1,1-Dichloroethane	5.518	63	322308	5.17	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	156323	5.64	ug/L #	81
9) Chloroform	6.339	83	274074	5.43	ug/L	96
10) Carbon Tetrachloride	6.517	117	189329	6.01	ug/L	88
11) 1,1,1-Trichloroethane	6.582	97	213837	5.87	ug/L	93
12) Benzene	6.943	78	539806m	5.49	ug/L	
14) 1,2-Dichloroethane	7.145	62	258506	4.75	ug/L	90
15) Trichloroethene	7.518	95	161314	5.59	ug/L	88
16) 1,2-Dichloropropane	8.044	63	181717	5.06	ug/L	93
17) cis-1,3-Dichloropropene	8.711	75	182931	4.54	ug/L	99
20) trans-1,3-Dichloropropene	9.343	75	176190	4.47	ug/L	99
21) Tetrachloroethene	9.343	166	150705	6.02	ug/L	98
22) 1,4-Dichlorobenzene	12.827	146	311628	5.72	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	52936	3.70	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

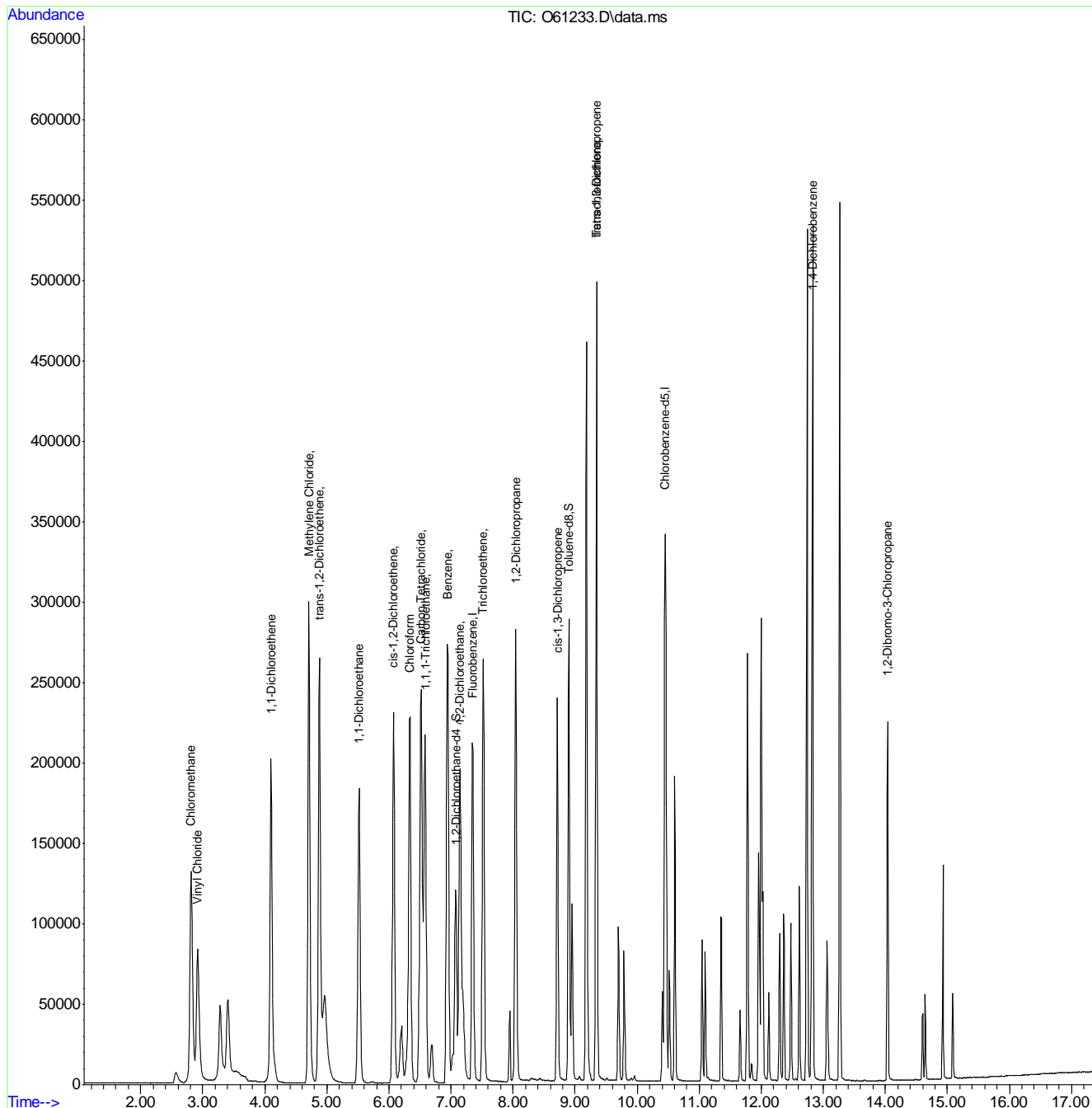


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : stutip  
 Sample : IC2356-4  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:03 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.4  
7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61233.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:35      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.4.1

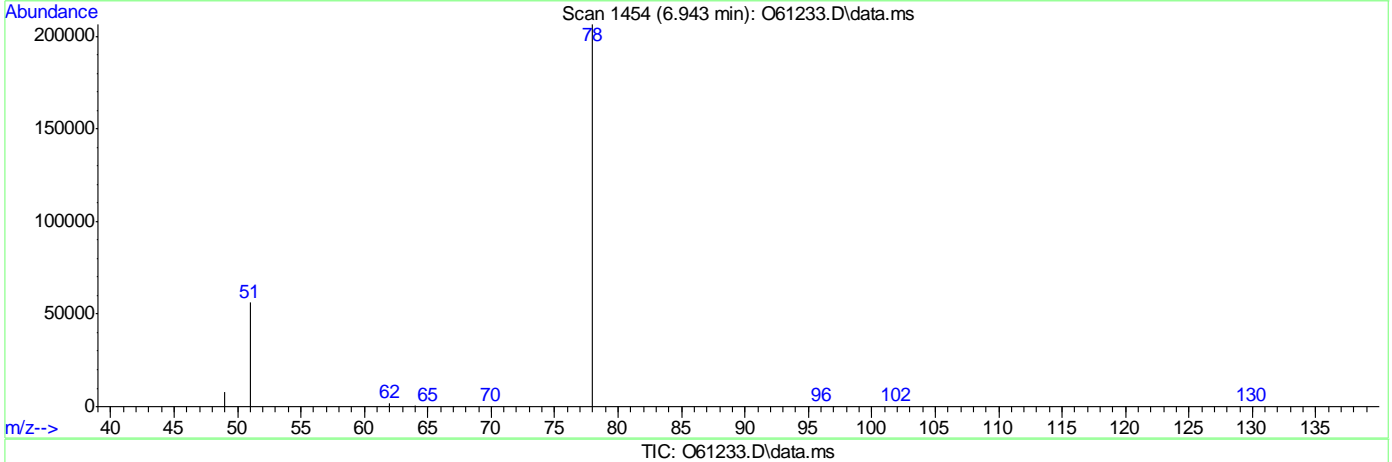
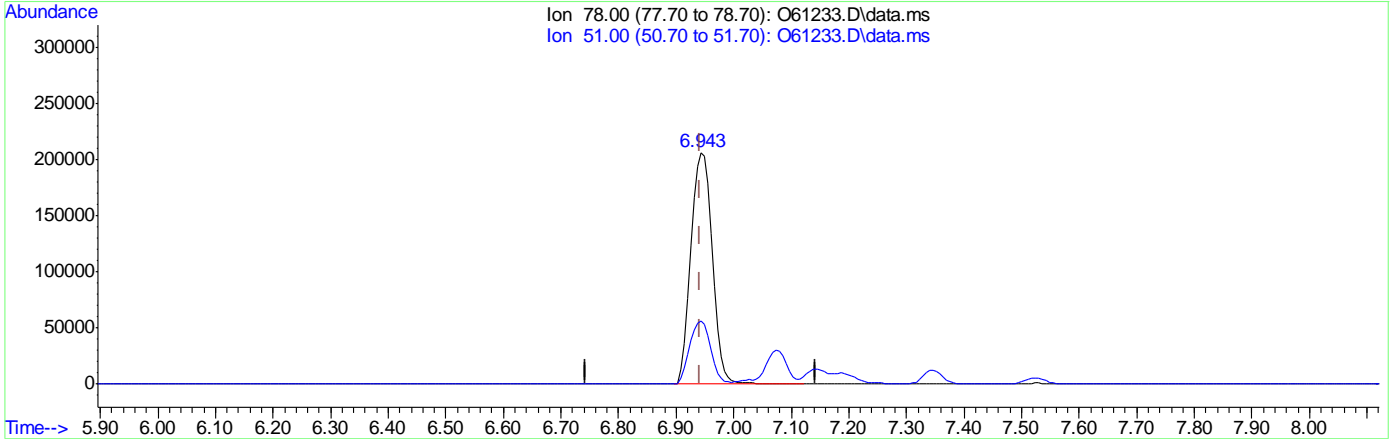
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 5.54ug/L  
 response 544298

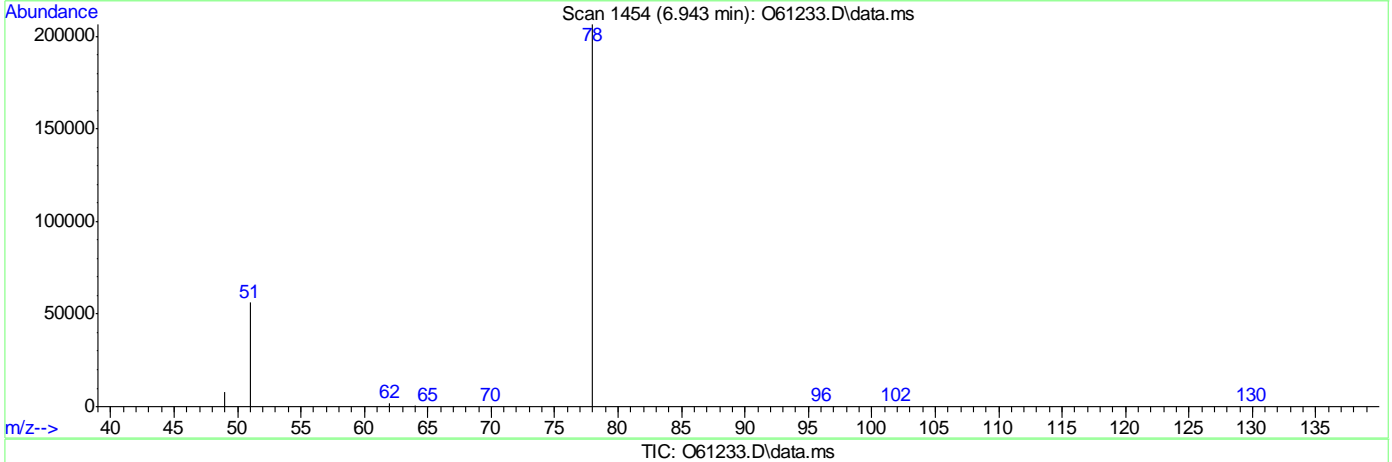
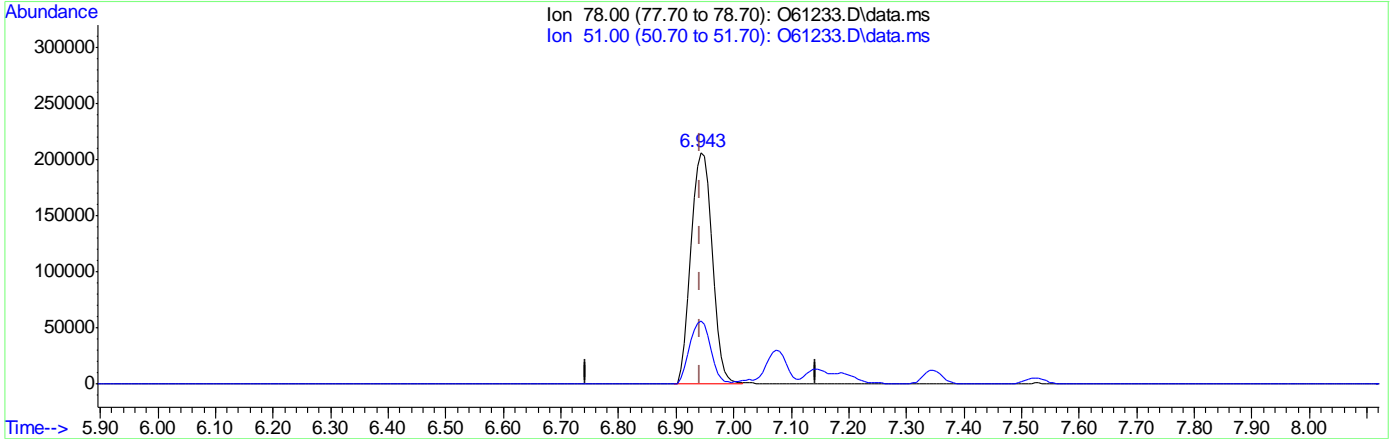
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61233.D  
 Acq On : 11 Sep 2020 4:35 pm  
 Operator : MANAGER  
 Sample : IC2356-4  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:28 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 5.49ug/L m

response 539806

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.17
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICC2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	367891	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	288681	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	143276	4.43	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%		
19) Toluene-d8	8.900	98	317520	4.50	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	90.00%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	385419	11.68	ug/L		97
3) Chloromethane	2.807	50	542034	11.18	ug/L		93
4) 1,1-Dichloroethene	4.096	61	516893	10.38	ug/L		93
5) Methylene Chloride	4.703	49	746865	9.11	ug/L		99
6) trans-1,2-Dichloroethene	4.873	61	592225	10.01	ug/L		86
7) 1,1-Dichloroethane	5.514	63	676382	9.78	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	333880	10.85	ug/L		84
9) Chloroform	6.333	83	573497	10.24	ug/L		97
10) Carbon Tetrachloride	6.511	117	409043	11.71	ug/L		87
11) 1,1,1-Trichloroethane	6.582	97	456875	11.31	ug/L		94
12) Benzene	6.943	78	1143203m	10.51	ug/L		
14) 1,2-Dichloroethane	7.145	62	542073	8.97	ug/L		90
15) Trichloroethene	7.518	95	346969	10.84	ug/L		88
16) 1,2-Dichloropropane	8.043	63	380072	9.56	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	405529	9.07	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	393915	8.95	ug/L		97
21) Tetrachloroethene	9.343	166	320442	11.51	ug/L		98
22) 1,4-Dichlorobenzene	12.827	146	679269	11.17	ug/L		97
23) 1,2-Dibromo-3-Chloropr...	14.038	75	120855	7.57	ug/L		87

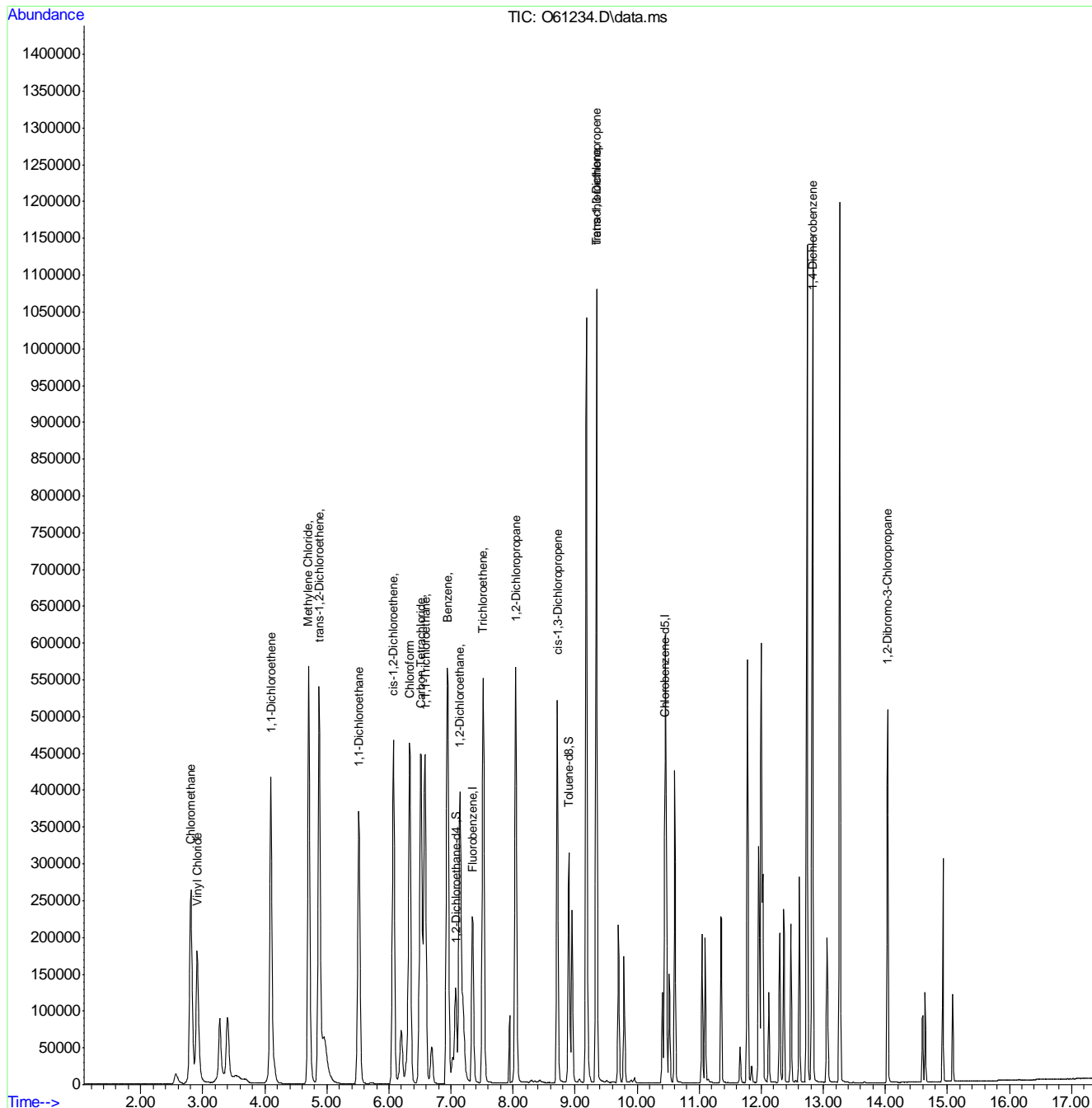
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : stutip  
 Sample : ICc2356-5  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:36 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



7.6.5  
7

# Manual Integration Approval Summary

**Sample Number:** VO2356-ICC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61234.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 16:55      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.5.1

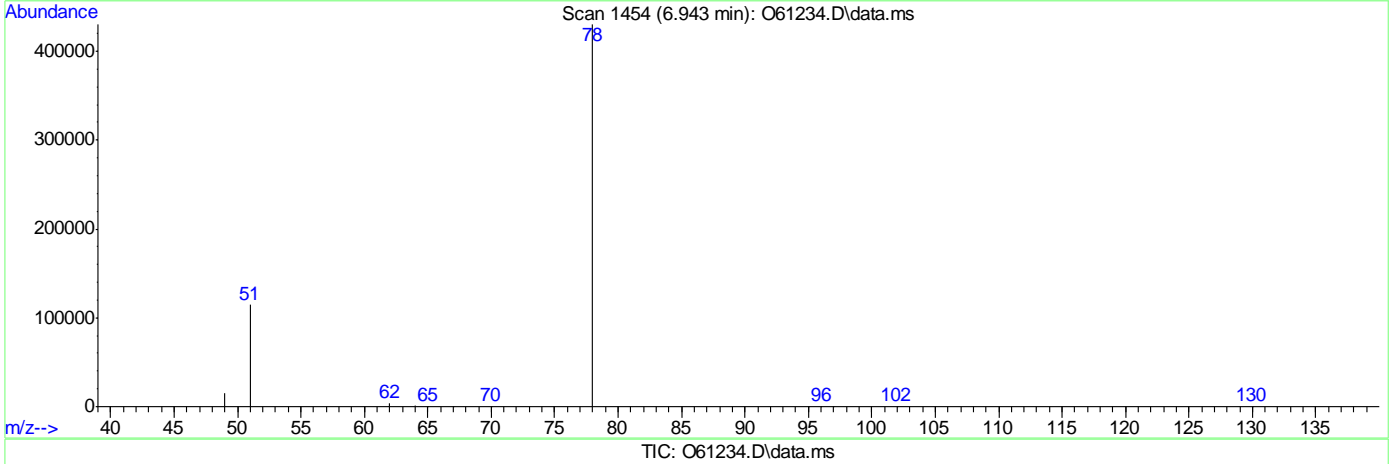
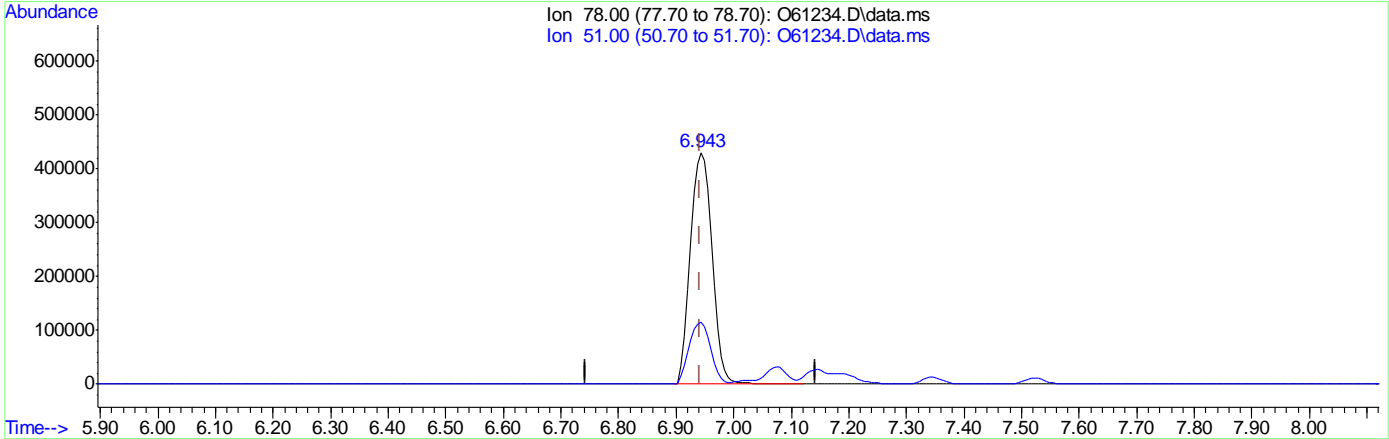
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Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.57ug/L  
 response 1149895

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

7.6.5.2  
7

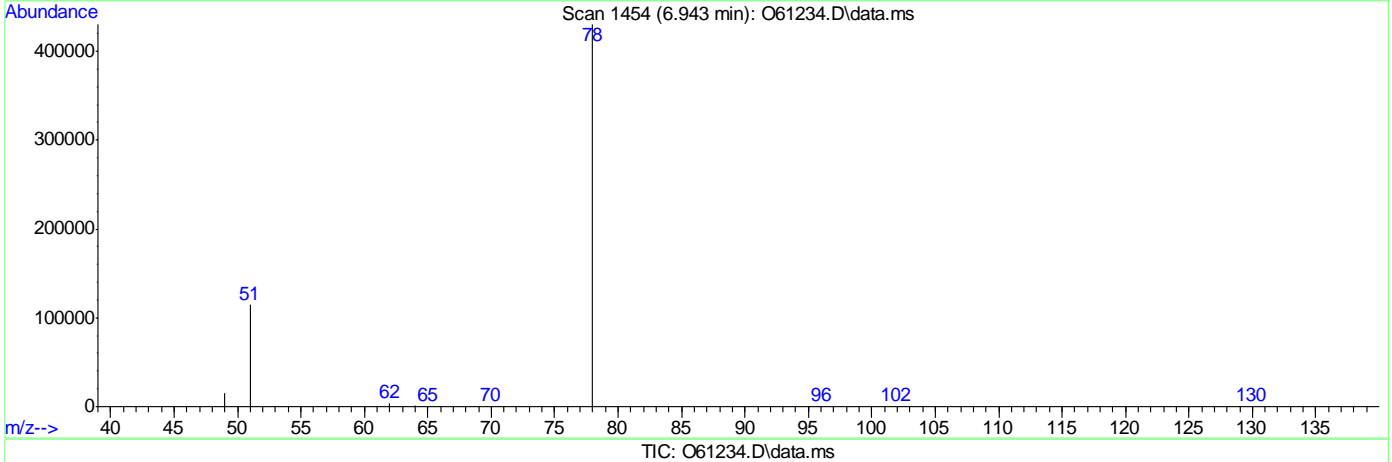
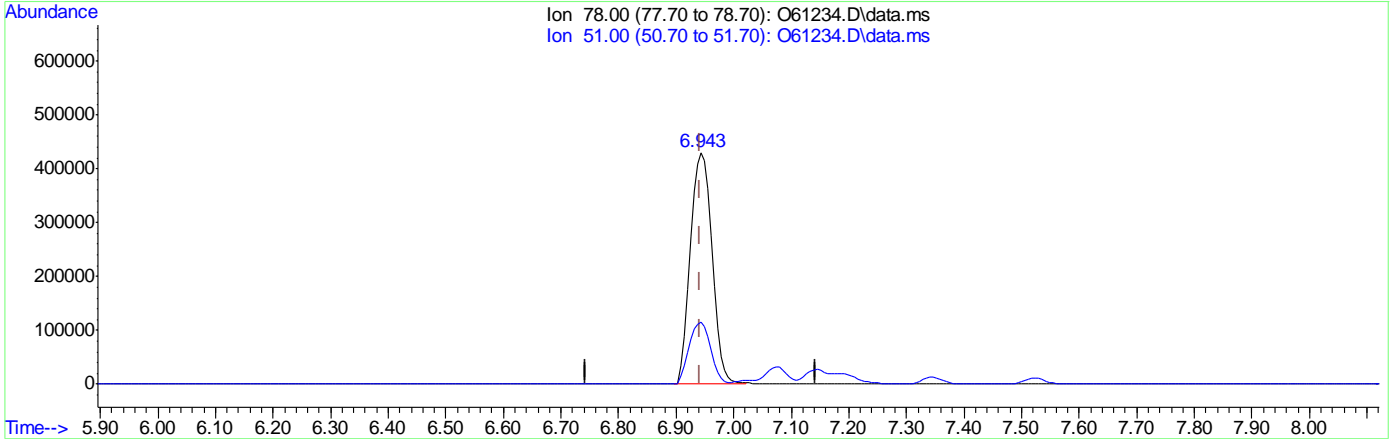


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61234.D  
 Acq On : 11 Sep 2020 4:55 pm  
 Operator : MANAGER  
 Sample : IC2356-5  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:30 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.51ug/L m  
 response 1143203

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.68
0.00	0.00	0.00
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.346	96	393958	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	307376	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.073	65	153155	4.43	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.60%		
19) Toluene-d8	8.896	98	343376	4.57	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.897	62	581790	17.36	ug/L		98
3) Chloromethane	2.791	50	805942	16.33	ug/L		94
4) 1,1-Dichloroethene	4.085	61	794045	14.88	ug/L		93
5) Methylene Chloride	4.696	49	1121963	13.69	ug/L		100
6) trans-1,2-Dichloroethene	4.861	61	919410	14.72	ug/L		84
7) 1,1-Dichloroethane	5.506	63	1045292	14.12	ug/L		100
8) cis-1,2-Dichloroethene	6.066	96	524339	15.91	ug/L		84
9) Chloroform	6.333	83	891365	14.86	ug/L		97
10) Carbon Tetrachloride	6.505	117	634944	16.97	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	713480	16.49	ug/L		94
12) Benzene	6.943	78	1776329m	15.29	ug/L		
14) 1,2-Dichloroethane	7.139	62	860563	13.30	ug/L		90
15) Trichloroethene	7.512	95	544590	15.88	ug/L		90
16) 1,2-Dichloropropane	8.040	63	594236	13.99	ug/L		92
17) cis-1,3-Dichloropropene	8.711	75	663239	13.85	ug/L		93
20) trans-1,3-Dichloropropene	9.343	75	651125	13.89	ug/L		95
21) Tetrachloroethene	9.337	166	499062	16.90	ug/L		92
22) 1,4-Dichlorobenzene	12.827	146	1064594	16.45	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	202684	11.92	ug/L		90

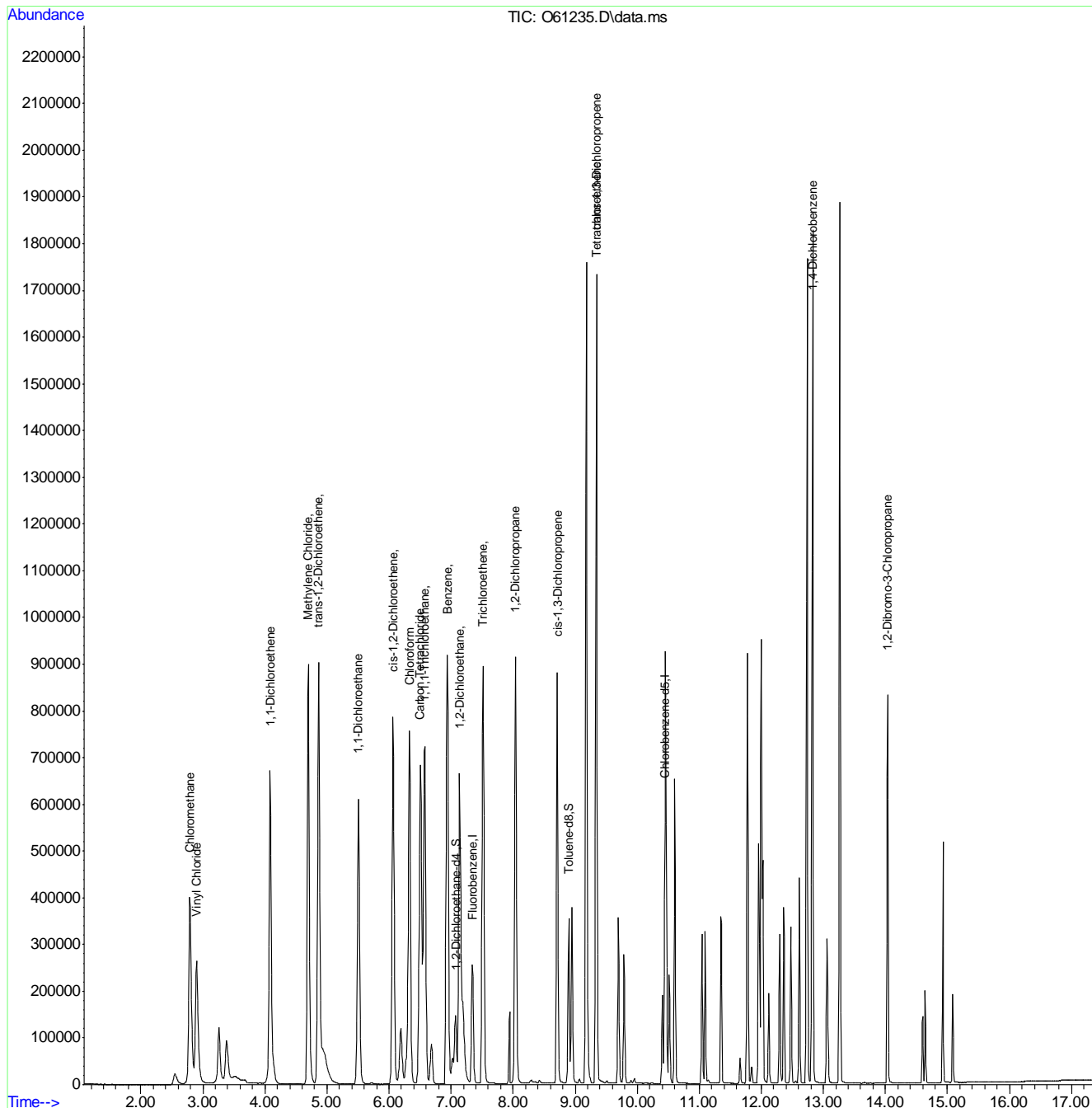
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : stutip  
 Sample : IC2356-6  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:03:51 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



9.9.7

# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61235.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:15      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

7.6.6.1

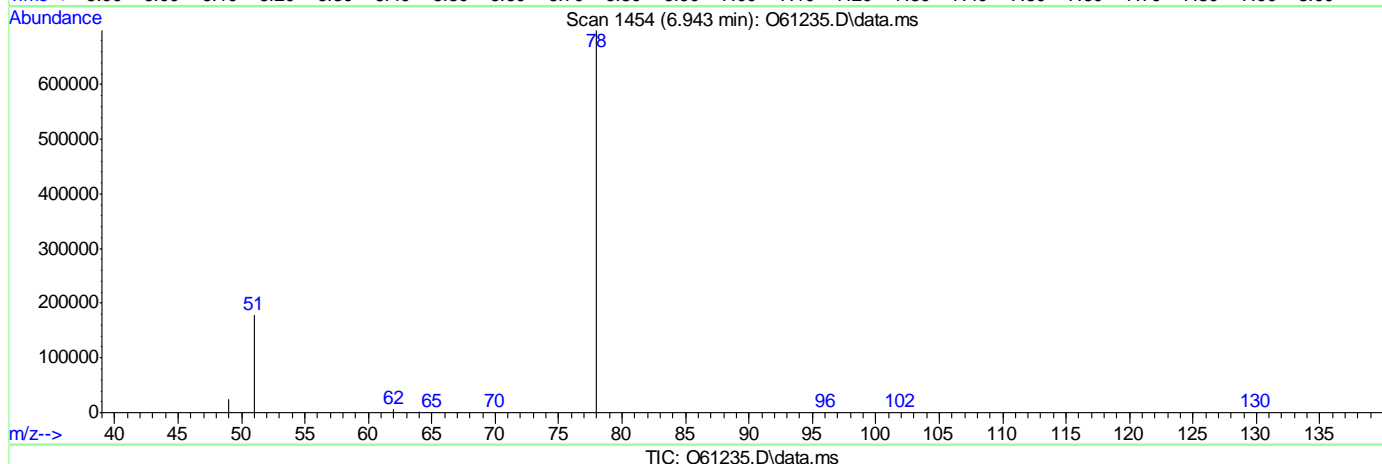
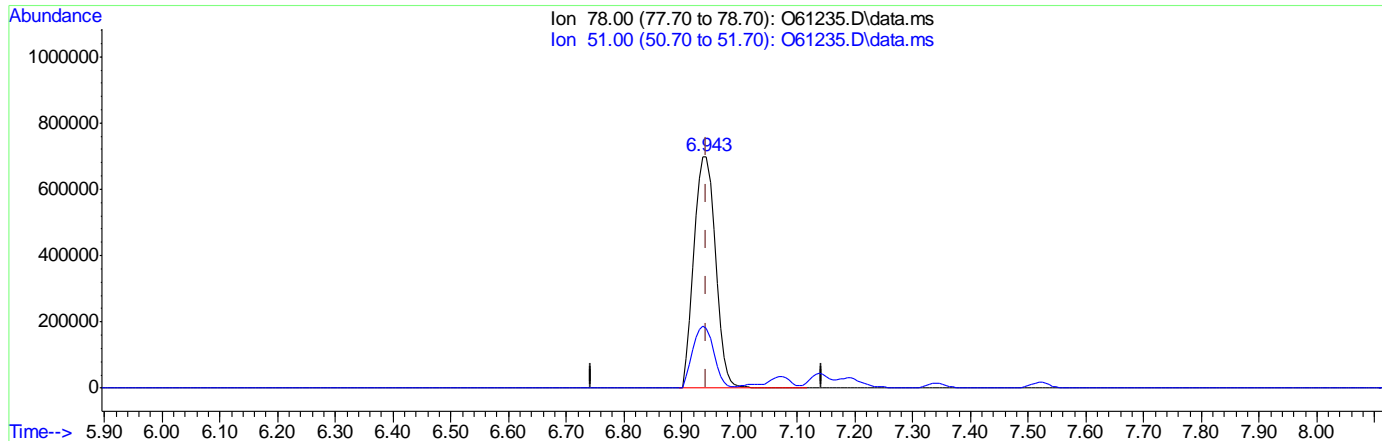
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Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 15.36ug/L

response 1784608

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00

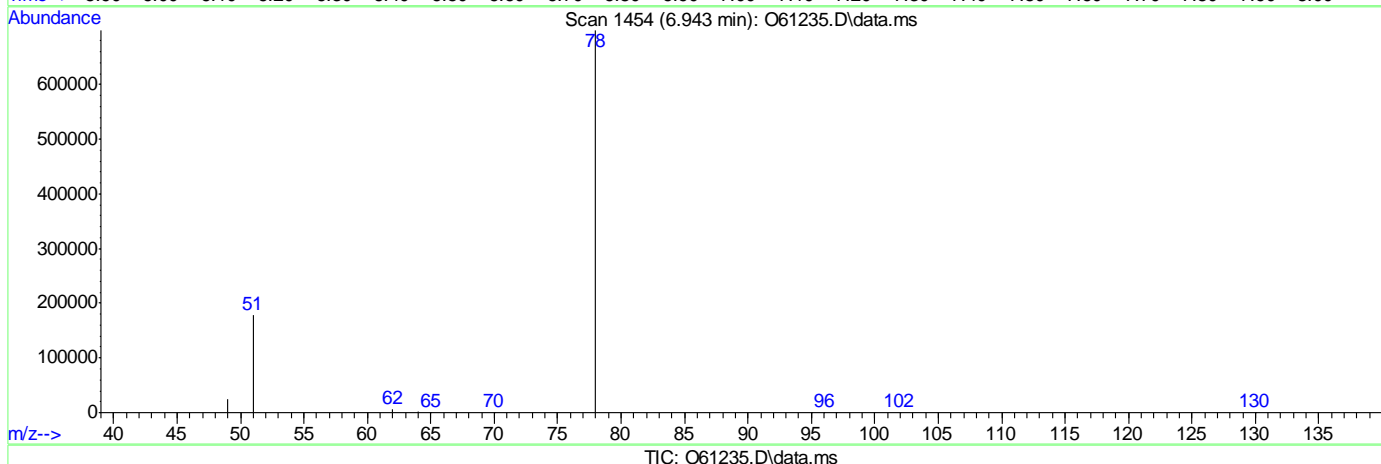
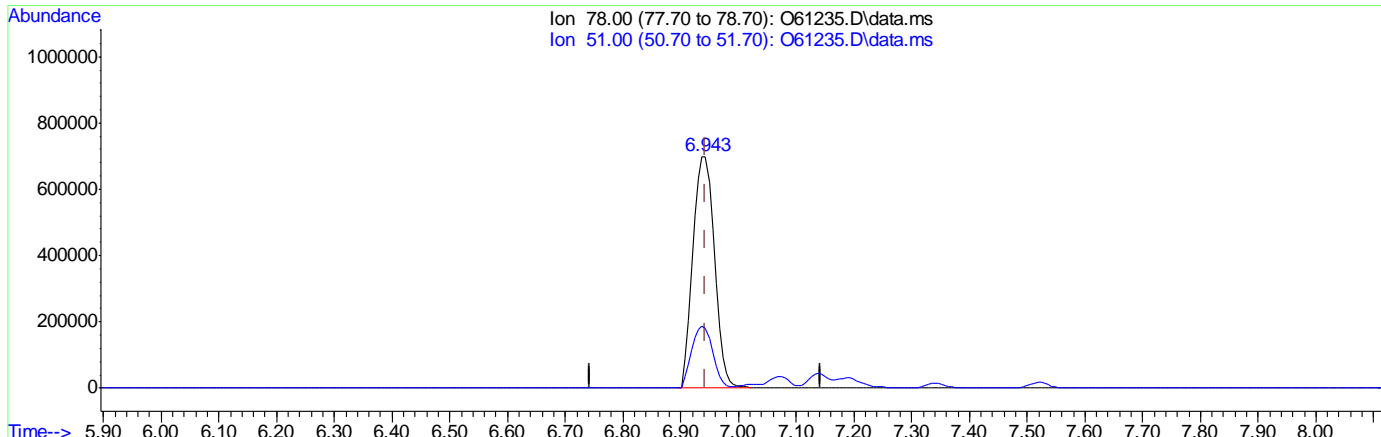
7.6.6.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61235.D  
 Acq On : 11 Sep 2020 5:15 pm  
 Operator : MANAGER  
 Sample : IC2356-6  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 17:52:32 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 15.29ug/L m  
 response 1776329

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	25.61
0.00	0.00	0.00
0.00	0.00	0.00

7.6.6.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : 061236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	7.352	96	430313	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	330631	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.079	65	166372	4.40	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	88.00%		
19) Toluene-d8	8.900	98	374232	4.63	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	92.60%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.908	62	814030	23.66	ug/L		98
3) Chloromethane	2.803	50	1116385	21.95	ug/L		94
4) 1,1-Dichloroethene	4.092	61	1194148	20.49	ug/L		94
5) Methylene Chloride	4.703	49	1613536	19.98	ug/L		98
6) trans-1,2-Dichloroethene	4.869	61	1391011	20.75	ug/L		85
7) 1,1-Dichloroethane	5.514	63	1560149	19.30	ug/L		100
8) cis-1,2-Dichloroethene	6.072	96	791148	21.98	ug/L		85
9) Chloroform	6.333	83	1332932	20.34	ug/L		97
10) Carbon Tetrachloride	6.510	117	982791	24.05	ug/L		88
11) 1,1,1-Trichloroethane	6.576	97	1094990	23.17	ug/L		95
12) Benzene	6.943	78	2670290m	21.11	ug/L		
14) 1,2-Dichloroethane	7.145	62	1260966	17.85	ug/L		89
15) Trichloroethene	7.518	95	818610	21.86	ug/L		88
16) 1,2-Dichloropropane	8.043	63	893916	19.34	ug/L		91
17) cis-1,3-Dichloropropene	8.711	75	1001044	19.14	ug/L		95
20) trans-1,3-Dichloropropene	9.343	75	975862	19.36	ug/L		94
21) Tetrachloroethene	9.343	166	748457	23.68	ug/L		97
22) 1,4-Dichlorobenzene	12.827	146	1570512	22.56	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	297989	16.29	ug/L		91

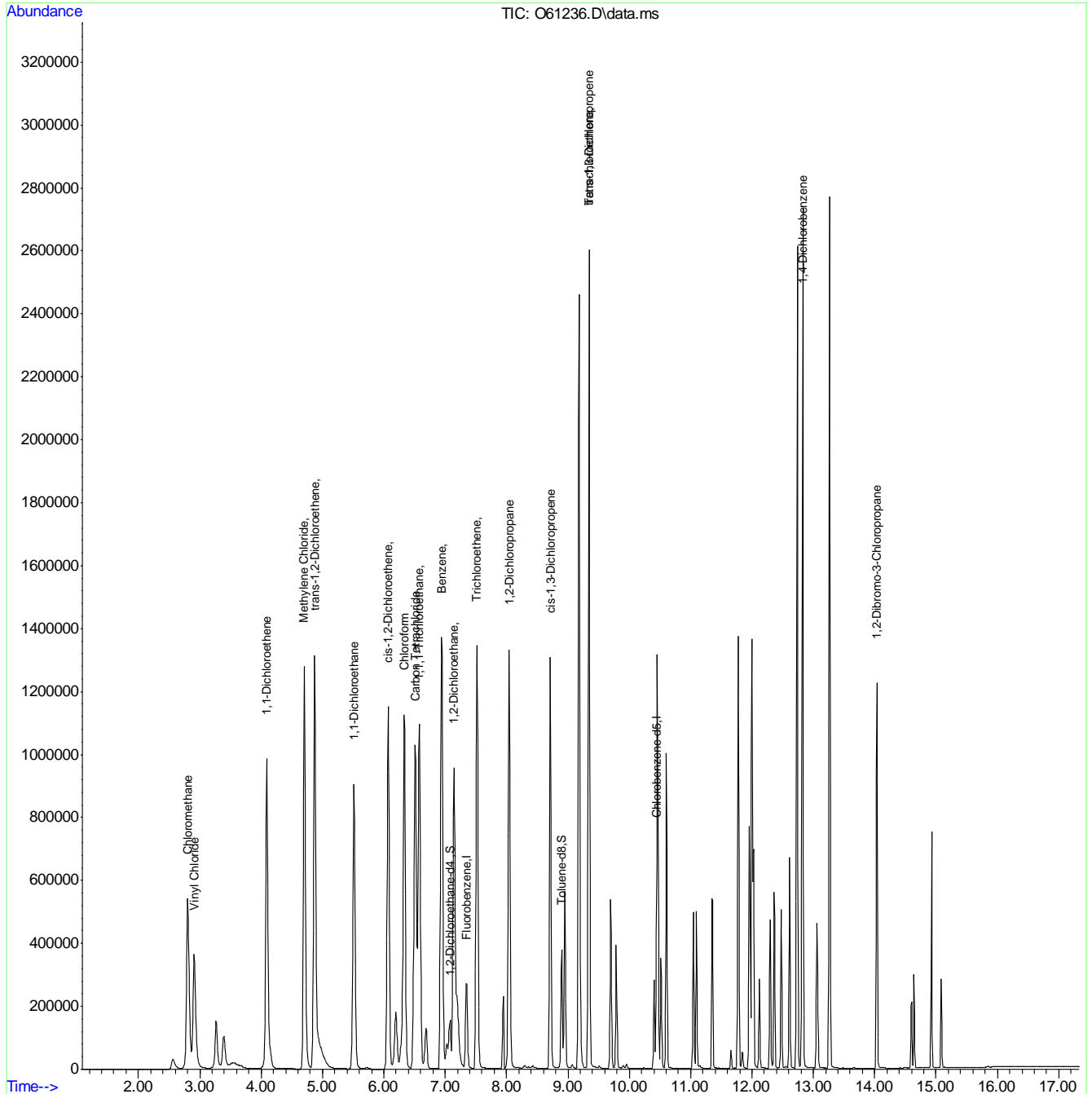
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : stutip  
 Sample : IC2356-7  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA12

Quant Time: Sep 11 18:04:12 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration





# Manual Integration Approval Summary

**Sample Number:** VO2356-IC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61236.D      **Analyst approved:** 09/13/20 19:45 Stuti Patel  
**Injection Time:** 09/11/20 17:36      **Supervisor approved:** 09/14/20 08:34 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

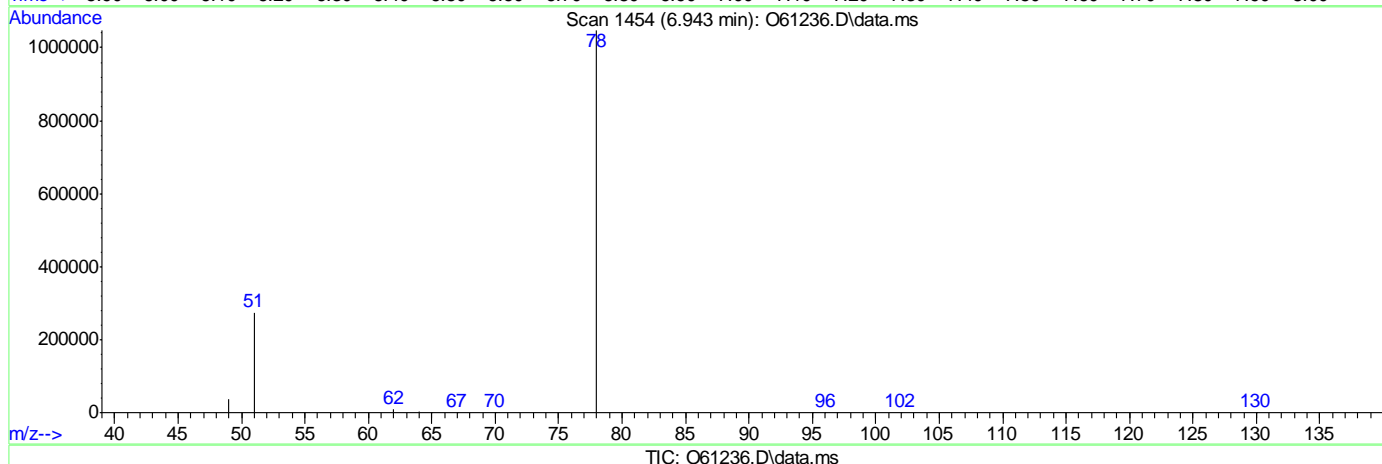
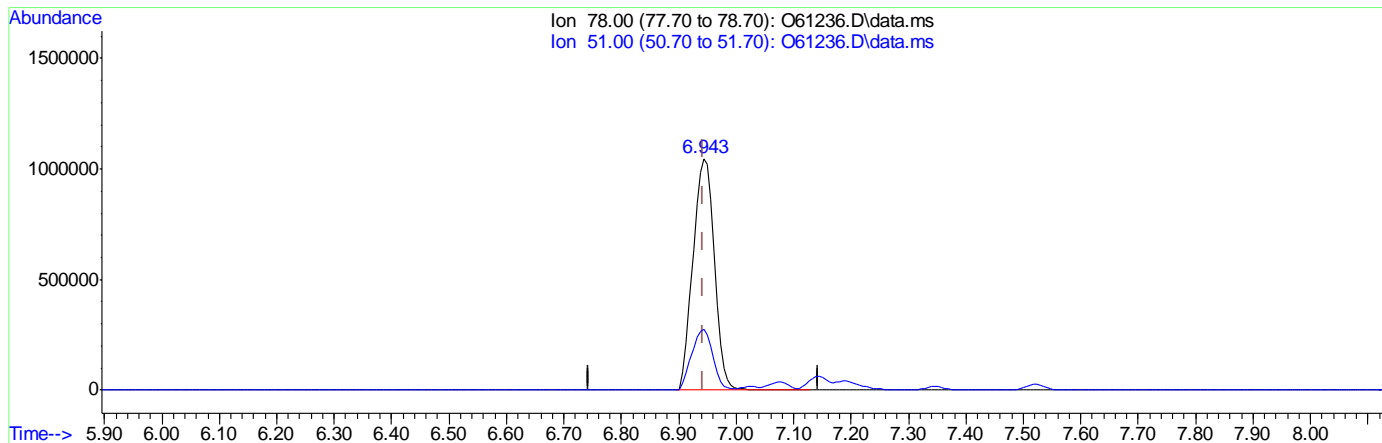
7.6.7.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (-0.000) 21.23ug/L

response 2686132

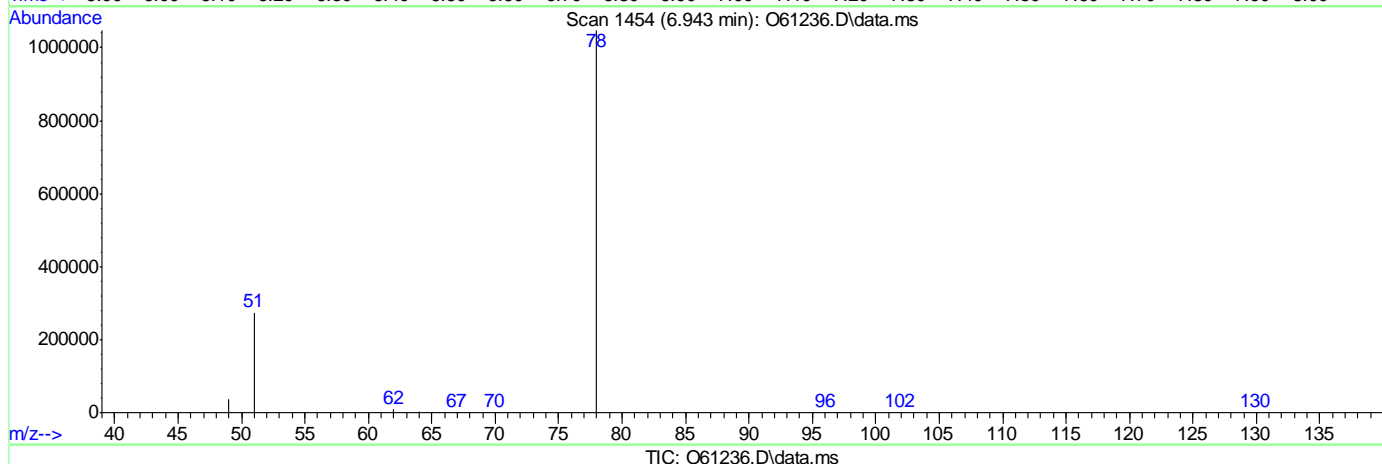
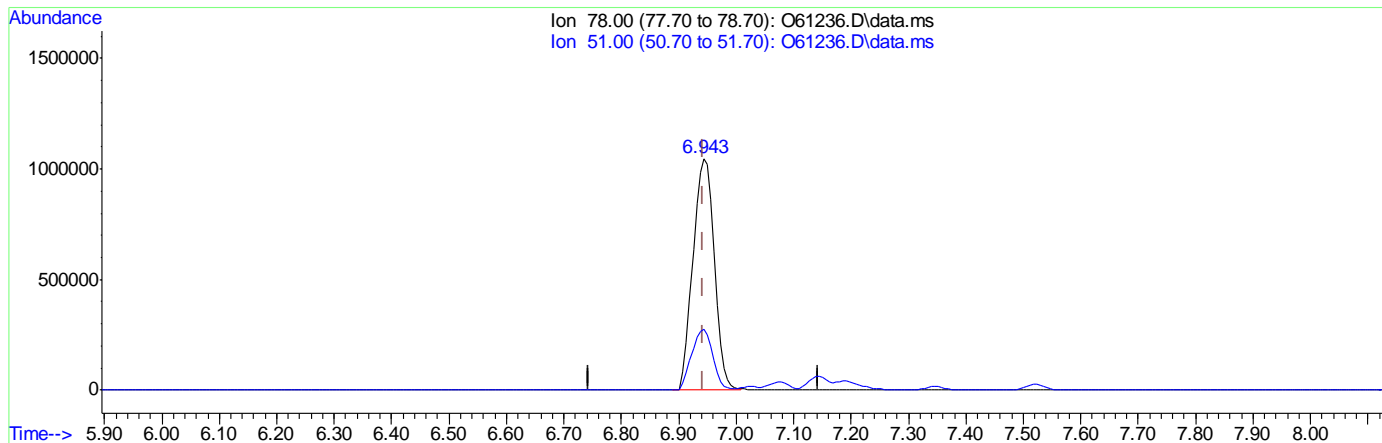
Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61236.D  
 Acq On : 11 Sep 2020 5:36 pm  
 Operator : MANAGER  
 Sample : IC2356-7 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 18:04:05 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Wed Sep 09 12:10:38 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (-0.000) 21.11ug/L m  
 response 2670290

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.17
0.00	0.00	0.00
0.00	0.00	0.00

7.6.7.3  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.346	96	392529	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.447	117	305591	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.074	65	151418	4.78	ug/L	0.00
Spiked Amount	5.000	Range 74 - 125	Recovery	=	95.60%	
19) Toluene-d8	8.896	98	341369	4.95	ug/L	0.00
Spiked Amount	5.000	Range 88 - 111	Recovery	=	99.00%	
Target Compounds						
						Qvalue
2) Vinyl Chloride	2.905	62	359054	8.49	ug/L	98
3) Chloromethane	2.803	50	507353	8.27	ug/L	94
4) 1,1-Dichloroethene	4.092	61	507491	9.35	ug/L	91
5) Methylene Chloride	4.703	49	755284	8.89	ug/L	99
6) trans-1,2-Dichloroethene	4.869	61	597300	9.53	ug/L	84
7) 1,1-Dichloroethane	5.514	63	694519	9.54	ug/L	100
8) cis-1,2-Dichloroethene	6.072	96	347499	9.66	ug/L	85
9) Chloroform	6.333	83	585017	9.34	ug/L	97
10) Carbon Tetrachloride	6.511	117	409874	9.60	ug/L	88
11) 1,1,1-Trichloroethane	6.576	97	455396	9.43	ug/L	94
12) Benzene	6.943	78	1221796	10.10	ug/L	100
14) 1,2-Dichloroethane	7.139	62	581587	9.82	ug/L	90
15) Trichloroethene	7.518	95	365705	9.91	ug/L	88
16) 1,2-Dichloropropane	8.043	63	408716	10.10	ug/L	92
17) cis-1,3-Dichloropropene	8.711	75	449848	10.71	ug/L	94
20) trans-1,3-Dichloropropene	9.343	75	443597	11.04	ug/L	95
21) Tetrachloroethene	9.343	166	323529	9.60	ug/L	99
22) 1,4-Dichlorobenzene	12.827	146	714911	10.10	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.038	75	131759	10.13	ug/L	93

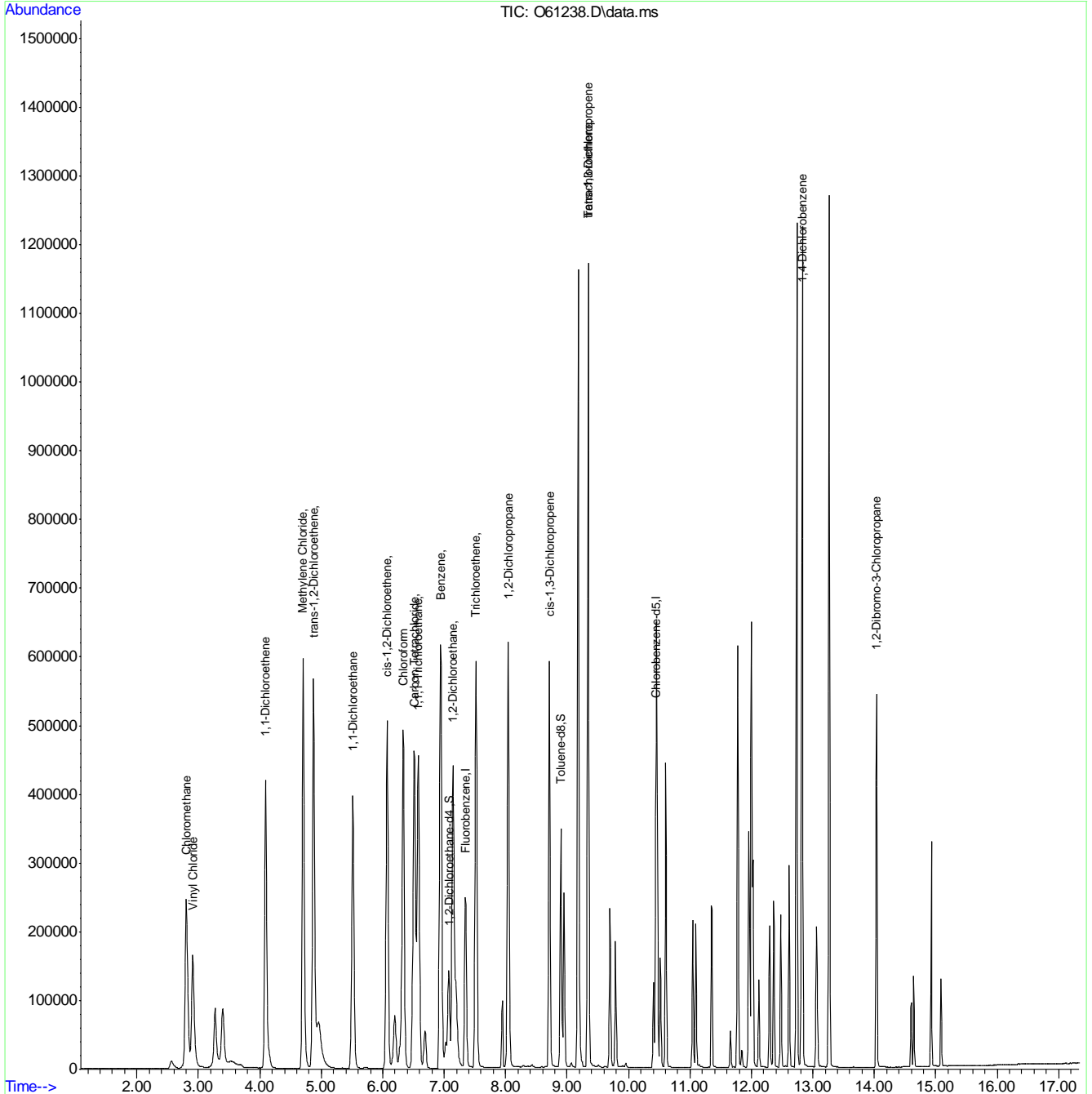
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : stutip  
 Sample : icv2356-5  
 Misc : MS47201,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA12

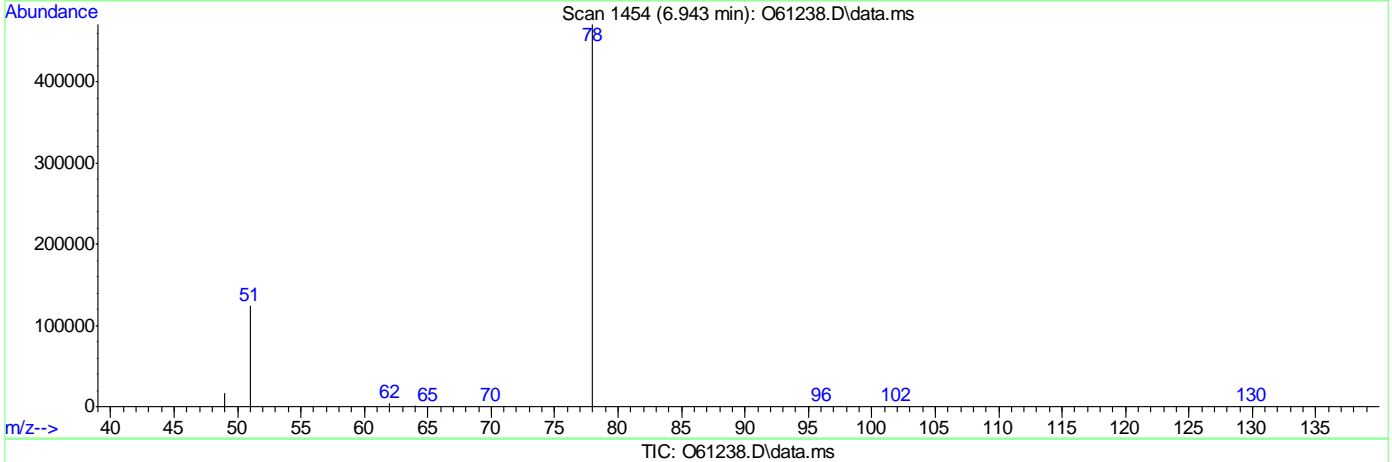
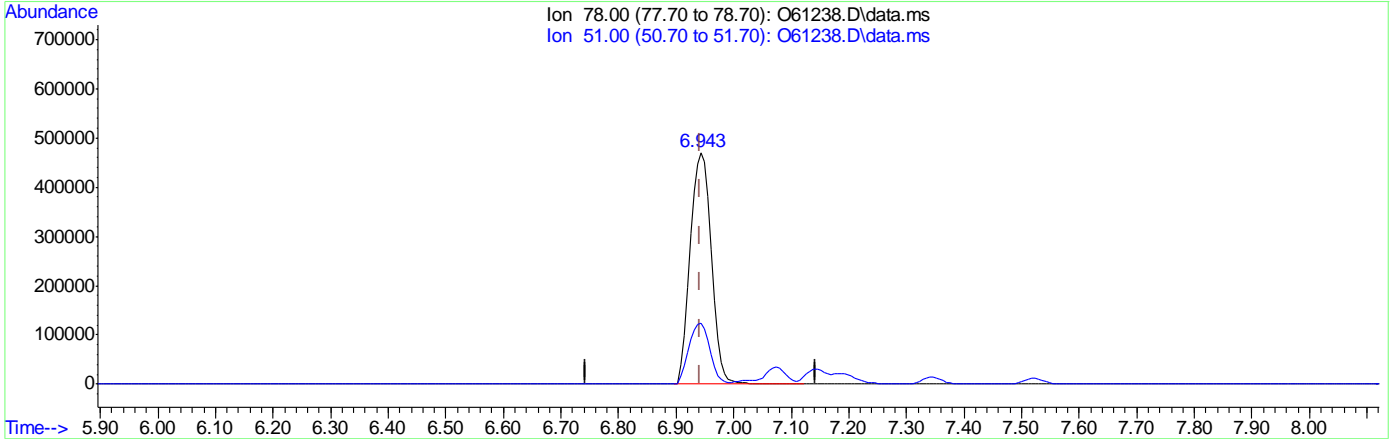
Quant Time: Sep 13 19:20:48 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 10.10ug/L

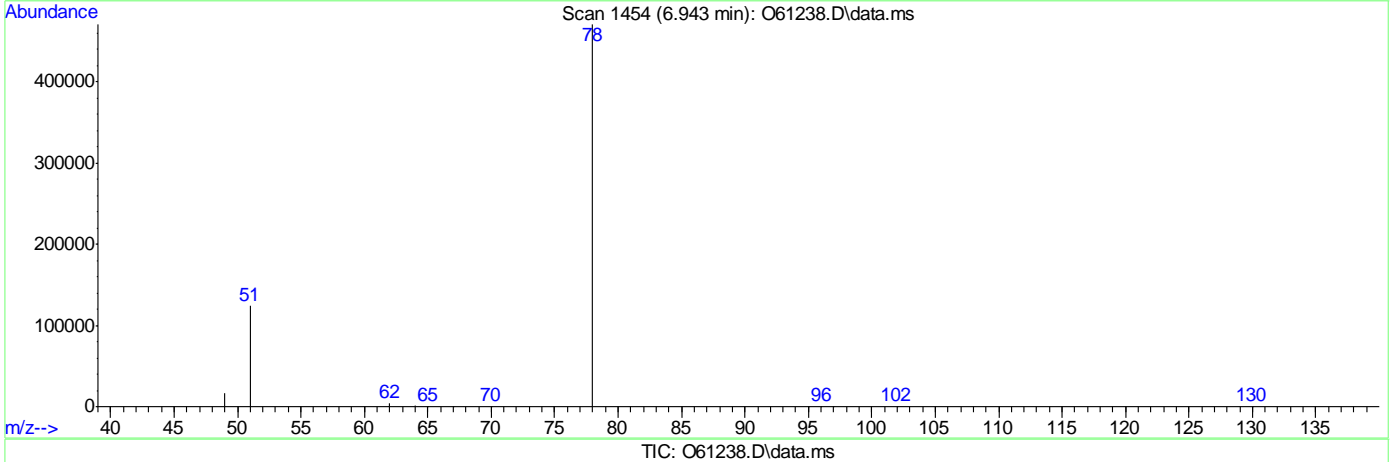
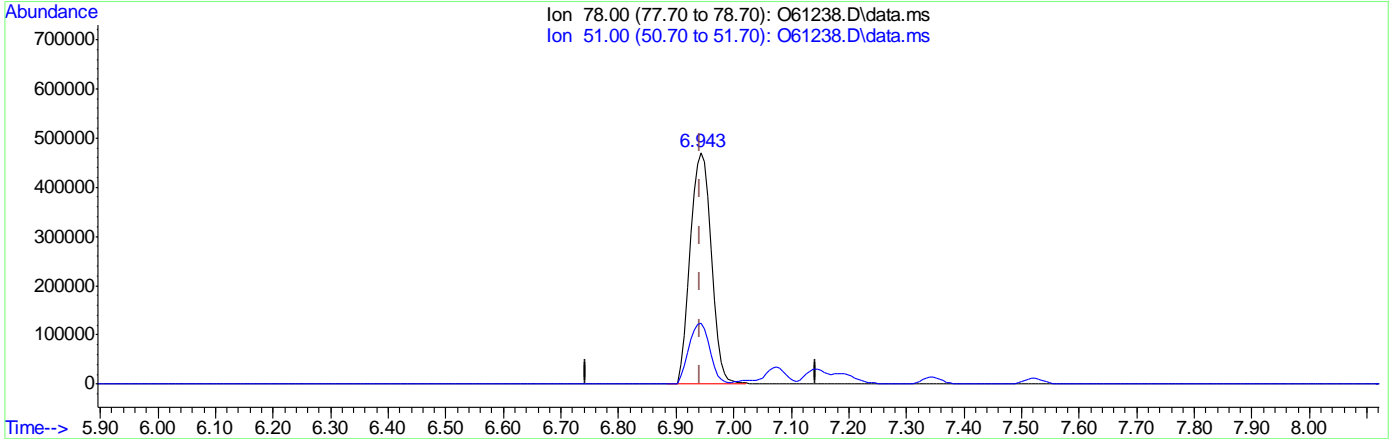
response 1221796

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\091120\  
 Data File : O61238.D  
 Acq On : 11 Sep 2020 6:16 pm  
 Operator : MANAGER  
 Sample : icv2356-5 Inst : MSVOA12  
 Misc : MS47184,VO2356,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 19:14:07 2020  
 Quant Method : C:\msdchem\2\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sat Sep 12 09:29:43 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 10.04ug/L m  
 response 1214827

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	26.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61325.d  
 Acq On : 13 Sep 2020 11:41 am  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 08:28:45 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.340	96	286719	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.441	117	233530	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.068	65	113439	4.90	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.00%		
19) Toluene-d8	8.896	98	240593	4.57	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	91.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	307619	10.15	ug/L		98
3) Chloromethane	2.799	50	454425	10.52	ug/L		94
4) 1,1-Dichloroethene	4.085	61	444036	11.21	ug/L		93
5) Methylene Chloride	4.699	49	662302	10.67	ug/L		98
6) trans-1,2-Dichloroethene	4.865	61	488323	10.67	ug/L		85
7) 1,1-Dichloroethane	5.506	63	573092	10.78	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	268107	10.20	ug/L		84
9) Chloroform	6.327	83	469898	10.27	ug/L		95
10) Carbon Tetrachloride	6.505	117	312524	10.02	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	351649	9.97	ug/L		92
12) Benzene	6.937	78	938711m	10.62	ug/L		
14) 1,2-Dichloroethane	7.139	62	453680	10.49	ug/L		92
15) Trichloroethene	7.512	95	275193	10.21	ug/L		87
16) 1,2-Dichloropropane	8.040	63	318194	10.77	ug/L		93
17) cis-1,3-Dichloropropene	8.707	75	318531	10.39	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	316783	10.32	ug/L		97
21) Tetrachloroethene	9.337	166	255132	9.90	ug/L		97
22) 1,4-Dichlorobenzene	12.821	146	564157	10.43	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.037	75	98829	9.96	ug/L		84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

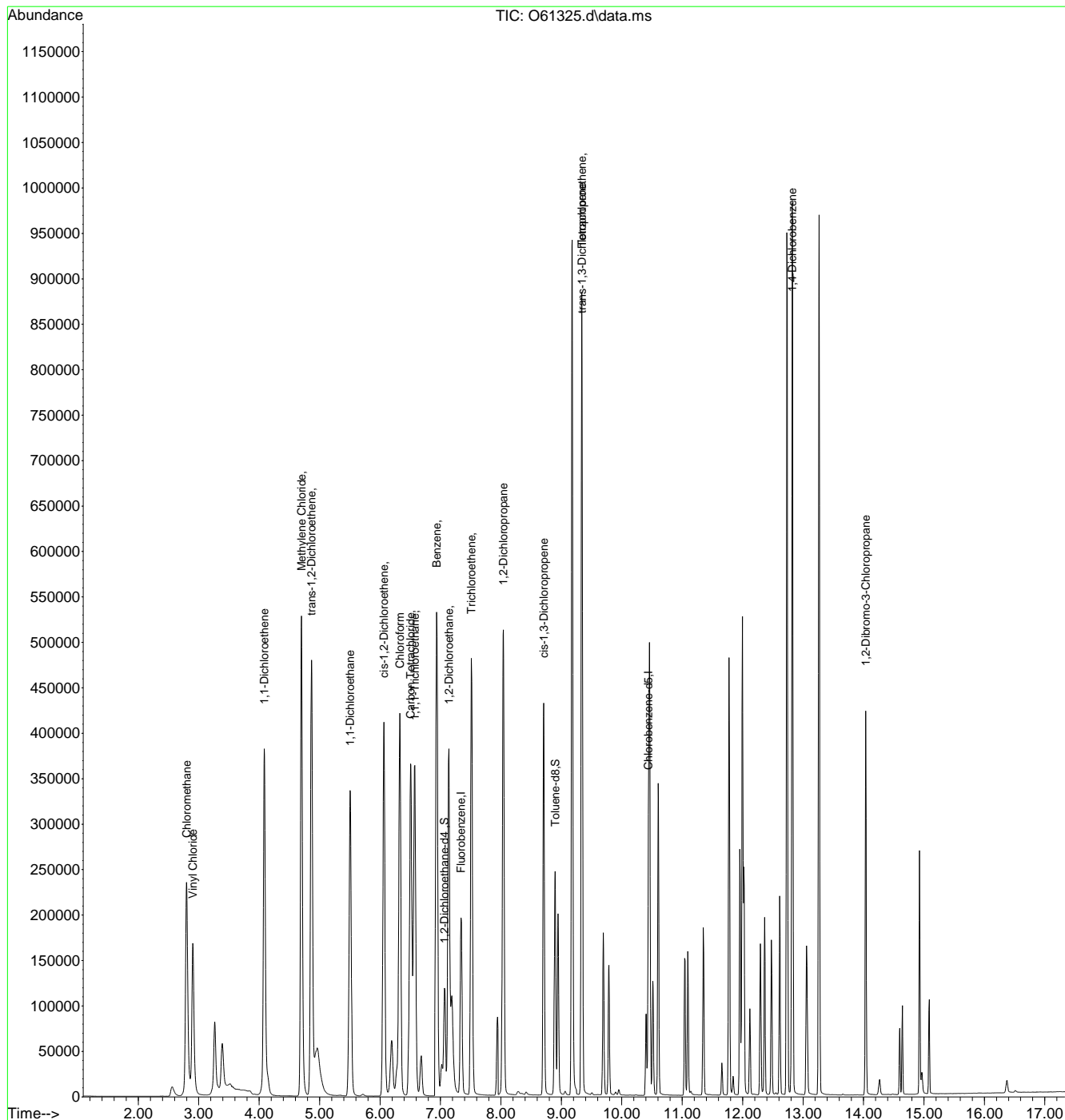
7.6.9  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61325.d  
 Acq On : 13 Sep 2020 11:41 am  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 08:28:45 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



697

# Manual Integration Approval Summary

**Sample Number:** VO2360-CC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61325.D      **Analyst approved:** 09/14/20 08:47 Jennifer Ferreira  
**Injection Time:** 09/13/20 11:41      **Supervisor approved:** 09/14/20 13:35 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

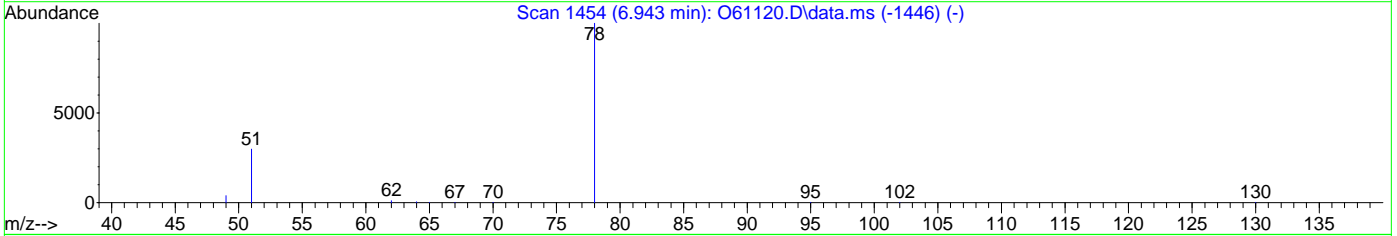
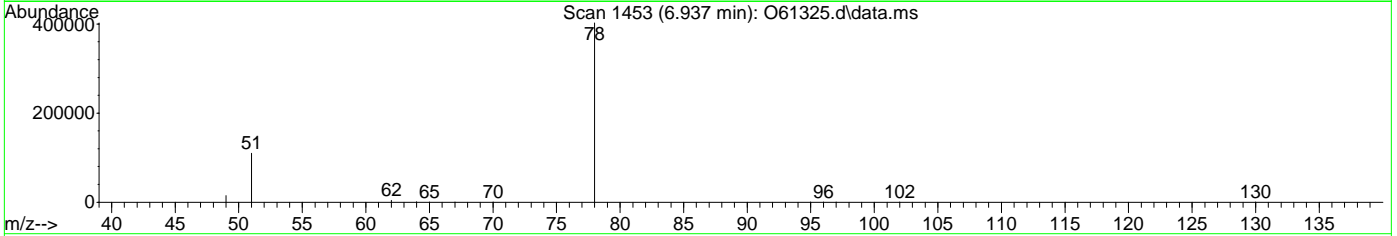
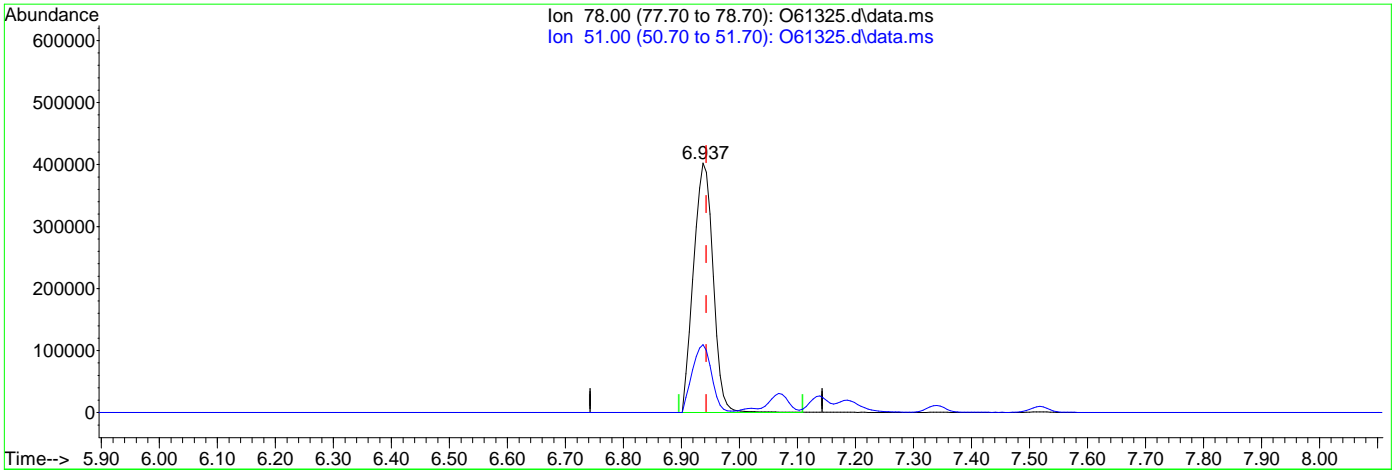
7.6.9.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61325.d  
 Acq On : 13 Sep 2020 11:41 am  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:52:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 10.70ug/L

response 945468

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.25
0.00	0.00	0.00
0.00	0.00	0.00

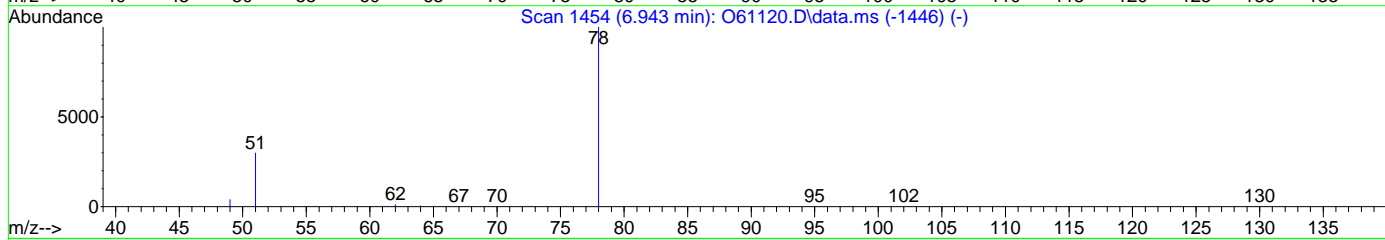
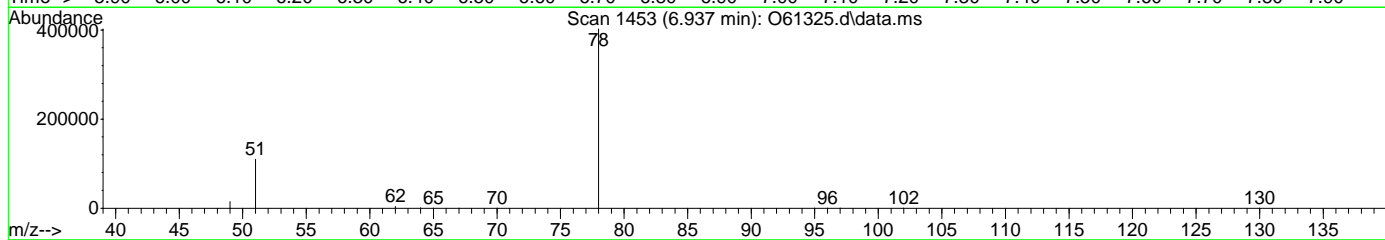
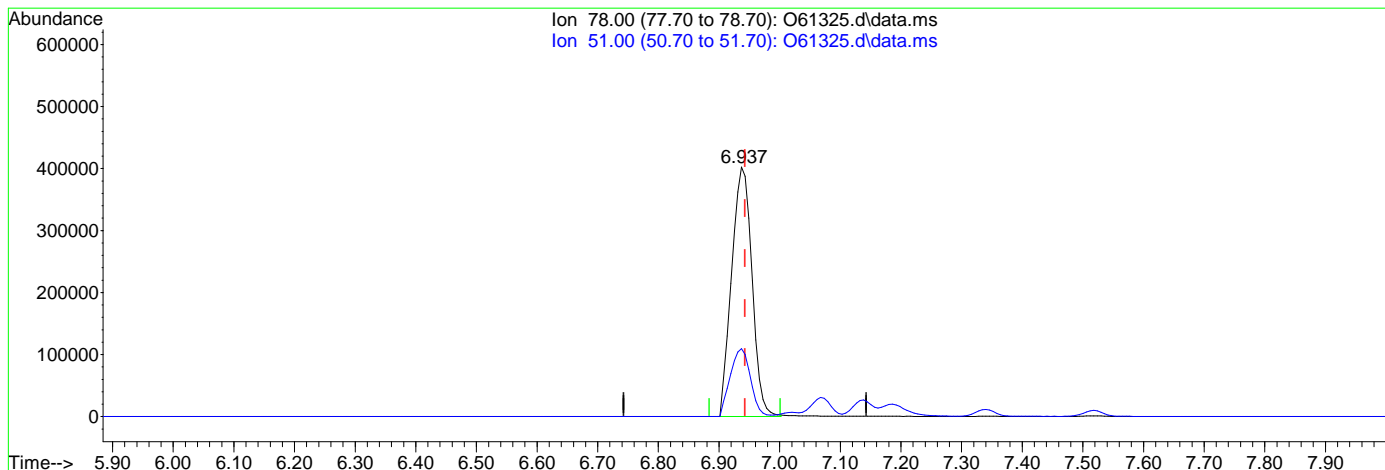
7.69.2

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61325.d  
 Acq On : 13 Sep 2020 11:41 am  
 Operator : stutip  
 Sample : cc2356-5  
 Misc : MS47193,VO2360,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:52:39 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.937min (-0.006) 10.62ug/L m

response 938711

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.25
0.00	0.00	0.00
0.00	0.00	0.00

7.69.3  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61351.d  
 Acq On : 13 Sep 2020 8:32 pm  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 08:40:54 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.346	96	254568	5.00	ug/L	0.00	
18) Chlorobenzene-d5	10.447	117	207589	5.00	ug/L	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.074	65	100968	4.91	ug/L	0.00	
Spiked Amount	5.000	Range 74 - 125	Recovery	=	98.20%		
19) Toluene-d8	8.896	98	205296	4.39	ug/L	0.00	
Spiked Amount	5.000	Range 88 - 111	Recovery	=	87.80%#		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.901	62	242387	8.88	ug/L		97
3) Chloromethane	2.799	50	353873	9.00	ug/L		94
4) 1,1-Dichloroethene	4.089	61	323640	9.20	ug/L		92
5) Methylene Chloride	4.700	49	508398	9.22	ug/L		94
6) trans-1,2-Dichloroethene	4.869	61	362417	8.92	ug/L		85
7) 1,1-Dichloroethane	5.510	63	419399	8.89	ug/L		99
8) cis-1,2-Dichloroethene	6.066	96	194215	8.33	ug/L #		82
9) Chloroform	6.333	83	348668	8.59	ug/L		95
10) Carbon Tetrachloride	6.511	117	235689	8.51	ug/L		87
11) 1,1,1-Trichloroethane	6.576	97	261973	8.37	ug/L		91
12) Benzene	6.943	78	673294m	8.58	ug/L		
14) 1,2-Dichloroethane	7.139	62	327497	8.53	ug/L		94
15) Trichloroethene	7.512	95	200555	8.38	ug/L		88
16) 1,2-Dichloropropane	8.040	63	228374	8.70	ug/L		94
17) cis-1,3-Dichloropropene	8.711	75	215989	7.93	ug/L		96
20) trans-1,3-Dichloropropene	9.343	75	216249	7.92	ug/L		99
21) Tetrachloroethene	9.337	166	192902	8.44	ug/L		93
22) 1,4-Dichlorobenzene	12.821	146	414851	8.63	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.038	75	69494	7.97	ug/L #		77

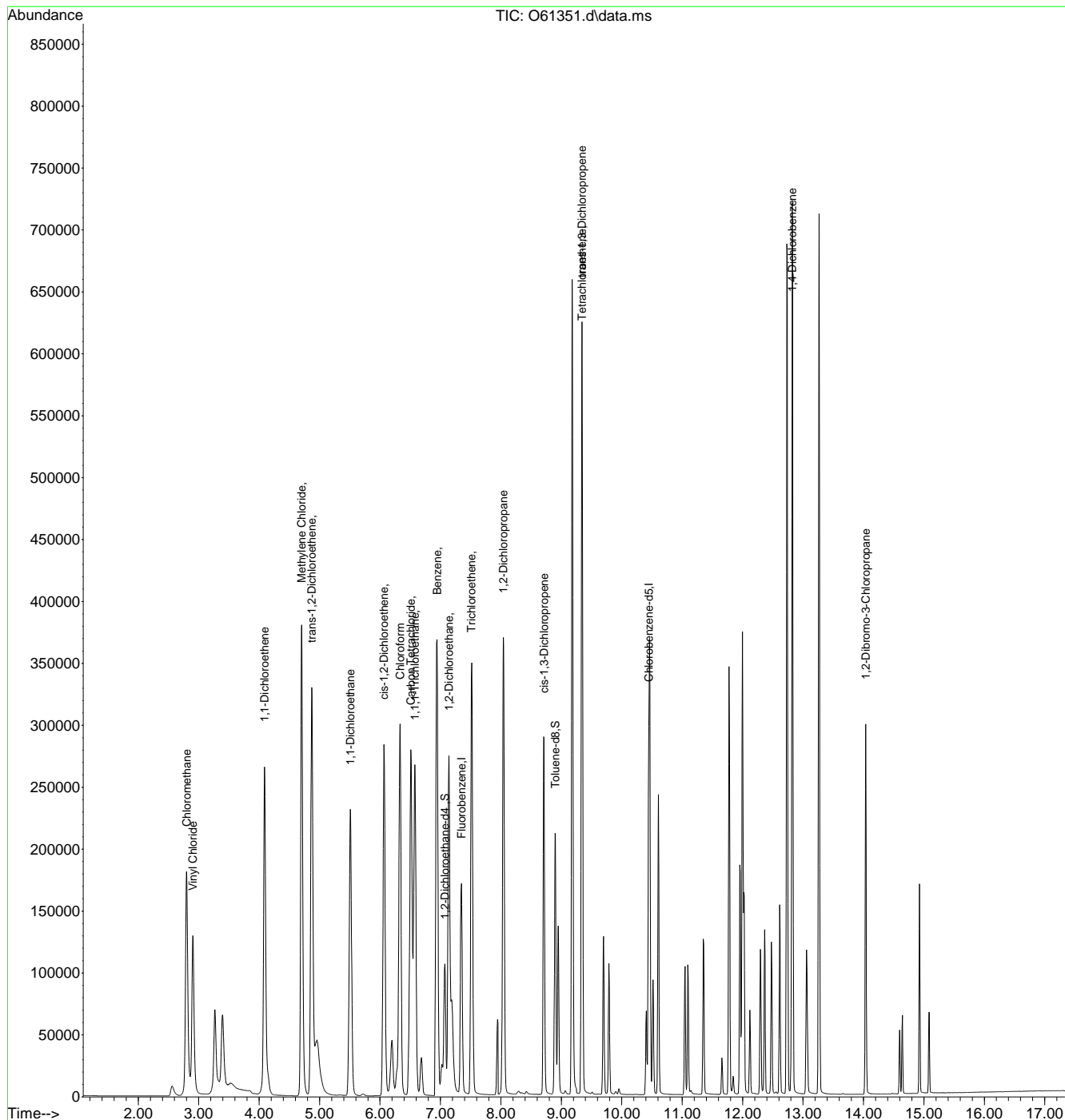
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10  
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61351.d  
 Acq On : 13 Sep 2020 8:32 pm  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 08:40:54 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



7.6.10  
7

# Manual Integration Approval Summary

**Sample Number:** VO2360-ECC2356      **Method:** SW846 8260B BY SIM  
**Lab FileID:** O61351.D      **Analyst approved:** 09/14/20 08:47 Jennifer Ferreira  
**Injection Time:** 09/13/20 20:32      **Supervisor approved:** 09/14/20 13:36 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzene	71-43-2		6.94	Poor instrument integration

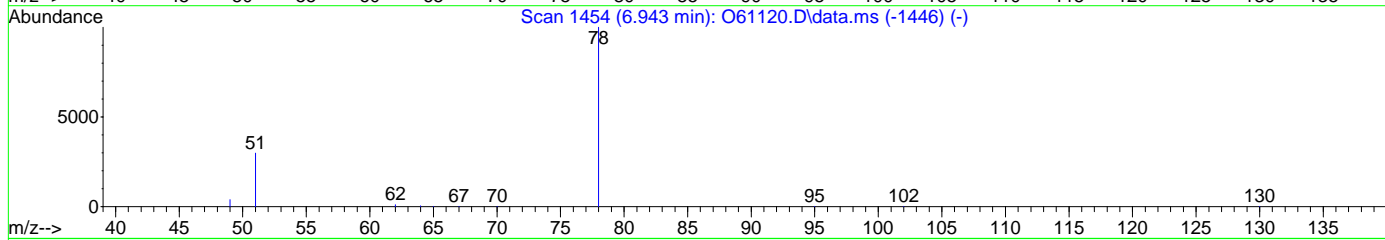
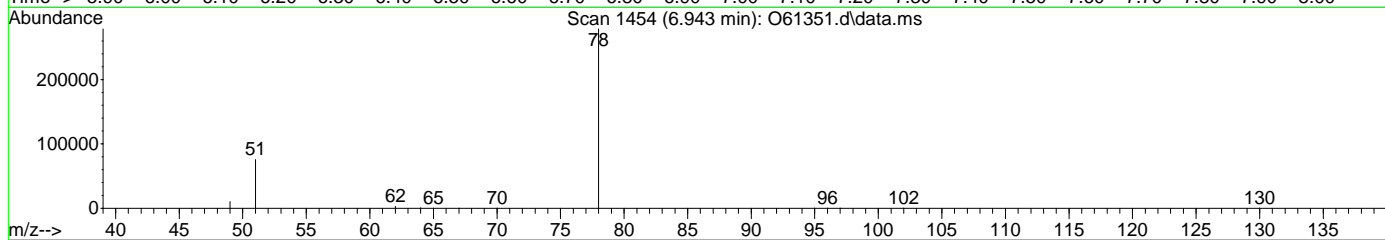
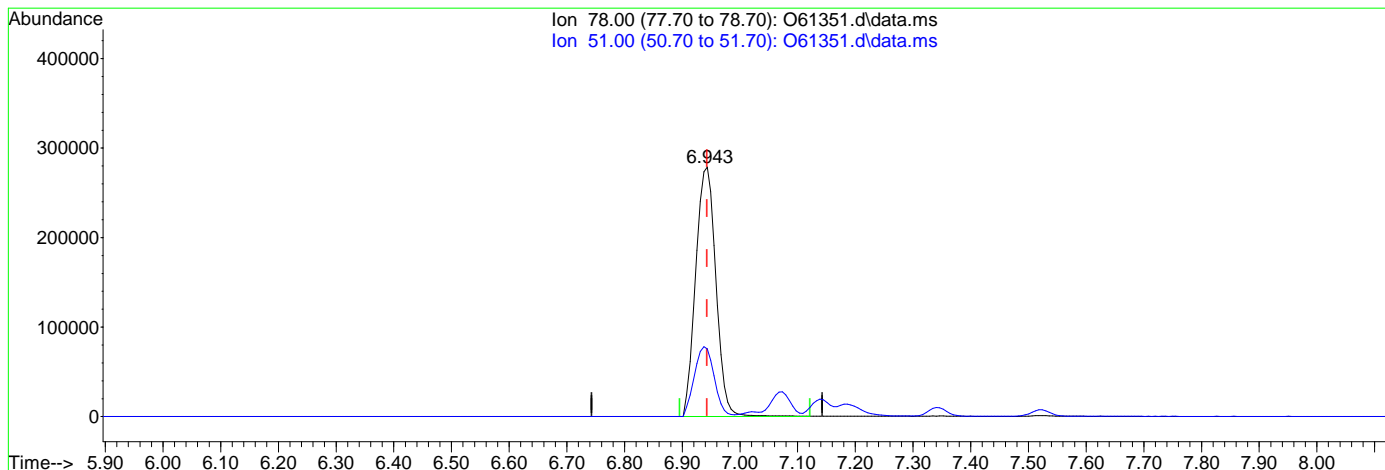
7.6.10.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61351.d  
 Acq On : 13 Sep 2020 8:32 pm  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 07:53:31 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )

6.943min (+0.000) 8.64ug/L

response 678435

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.15
0.00	0.00	0.00
0.00	0.00	0.00

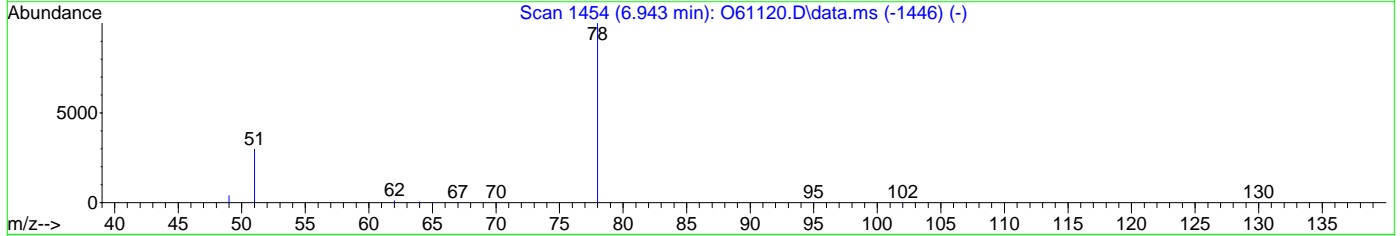
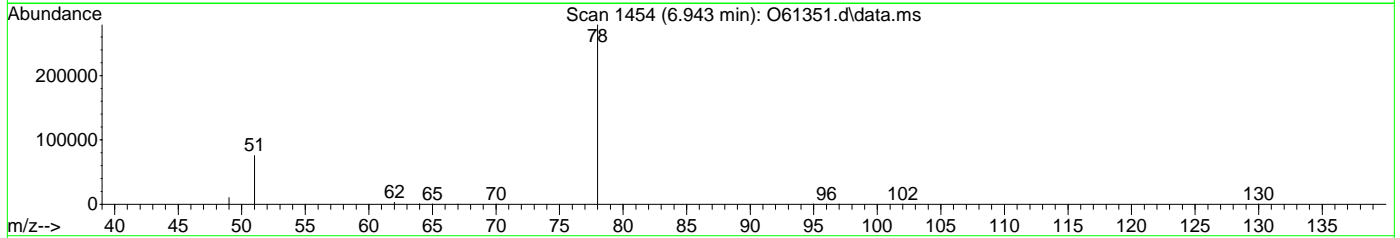
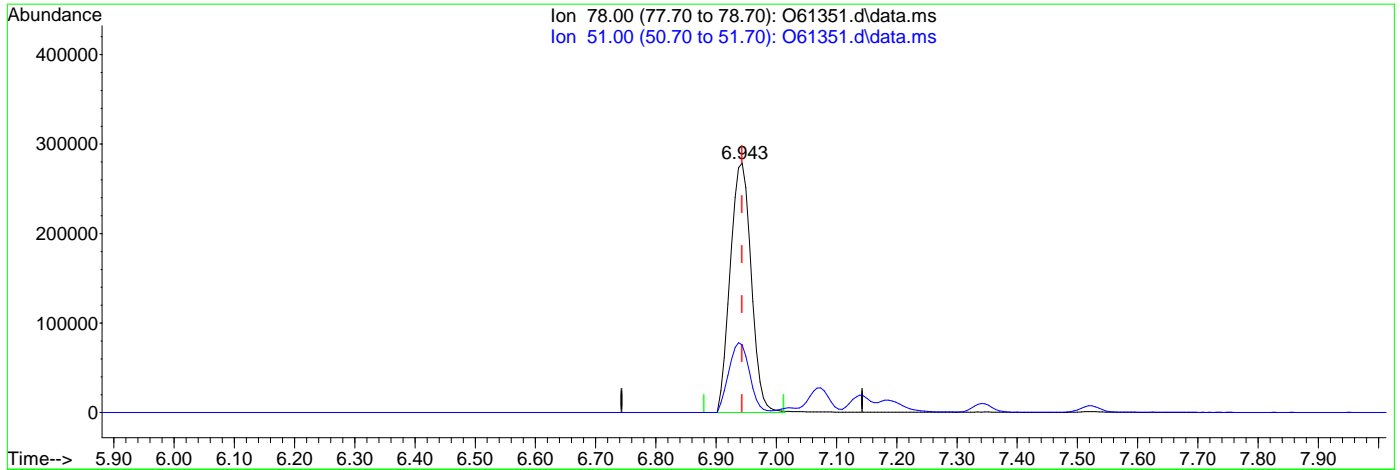
7.6.10.2  
7



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\jenniferf\SEPTEMBER 2020\09-14-2020\VO2360\  
 Data File : O61351.d  
 Acq On : 13 Sep 2020 8:32 pm  
 Operator : stutip  
 Sample : ecc2356-5  
 Misc : MS47201,VO2360,,,,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 14 07:53:31 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : Standard Methods 6200B  
 QLast Update : Sun Sep 13 19:20:40 2020  
 Response via : Initial Calibration



(12) Benzene ( )  
 6.943min (+0.000) 8.58ug/L m  
 response 673294

Ion	Exp%	Act%
78.00	100	100
51.00	26.20	27.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62207.D  
 Acq On : 11 Sep 2020 6:15 pm  
 Operator : SHANICAO  
 Sample : IC2414-1  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 20:45:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1911916	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1500837	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	582041	4.07	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	81.40%		
19) Toluene-d8	8.961	98	1882184	5.19	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	103.80%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	28495	0.14	ppb		64
3) Chloromethane	2.741	50	25350	0.11	ppb		98
4) 1,1-Dichloroethene	4.083	96	11716	0.09	ppb	#	82
5) Methylene Chloride	4.713	84	104791	0.50	ppb	#	85
6) trans-1,2-Dichloroethene	4.886	96	13680	0.09	ppb	#	86
7) 1,1-Dichloroethane	5.542	63	21987	0.07	ppb	#	93
8) cis-1,2-Dichloroethene	6.104	96	16012	0.10	ppb		90
9) Chloroform	6.371	83	29706	0.09	ppb		94
10) Carbon Tetrachloride	6.543	117	19024	0.09	ppb		96
11) 1,1,1-Trichloroethane	6.614	97	24317	0.09	ppb		56
12) Benzene	6.994	78	51294	0.09	ppb		91
14) 1,2-Dichloroethane	7.198	62	19143	0.08	ppb		99
15) Trichloroethene	7.564	95	15849	0.09	ppb		96
16) 1,2-Dichloropropane	8.101	63	13157	0.09	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	13481	0.09	ppb		96
20) trans-1,3-Dichloropropene	9.411	75	10019	0.09	ppb		96
21) Tetrachloroethene	9.399	166	15170	0.09	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

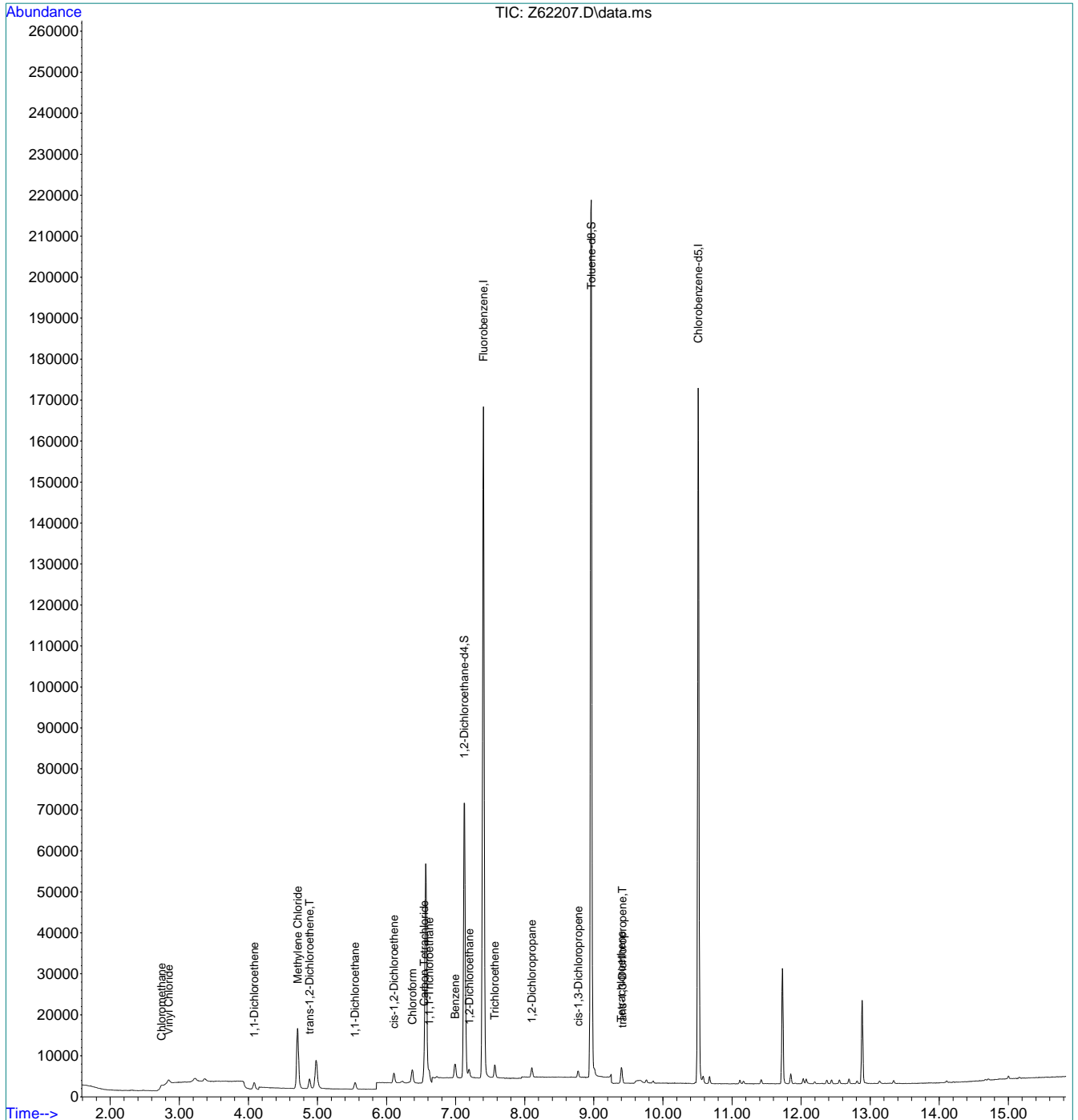
7.6.11  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62207.D  
 Acq On : 11 Sep 2020 6:15 pm  
 Operator : SHANICAO  
 Sample : IC2414-1  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 20:45:22 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.11  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62208.D  
 Acq On : 11 Sep 2020 6:34 pm  
 Operator : SHANICAO  
 Sample : IC2414-2  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 20:45:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

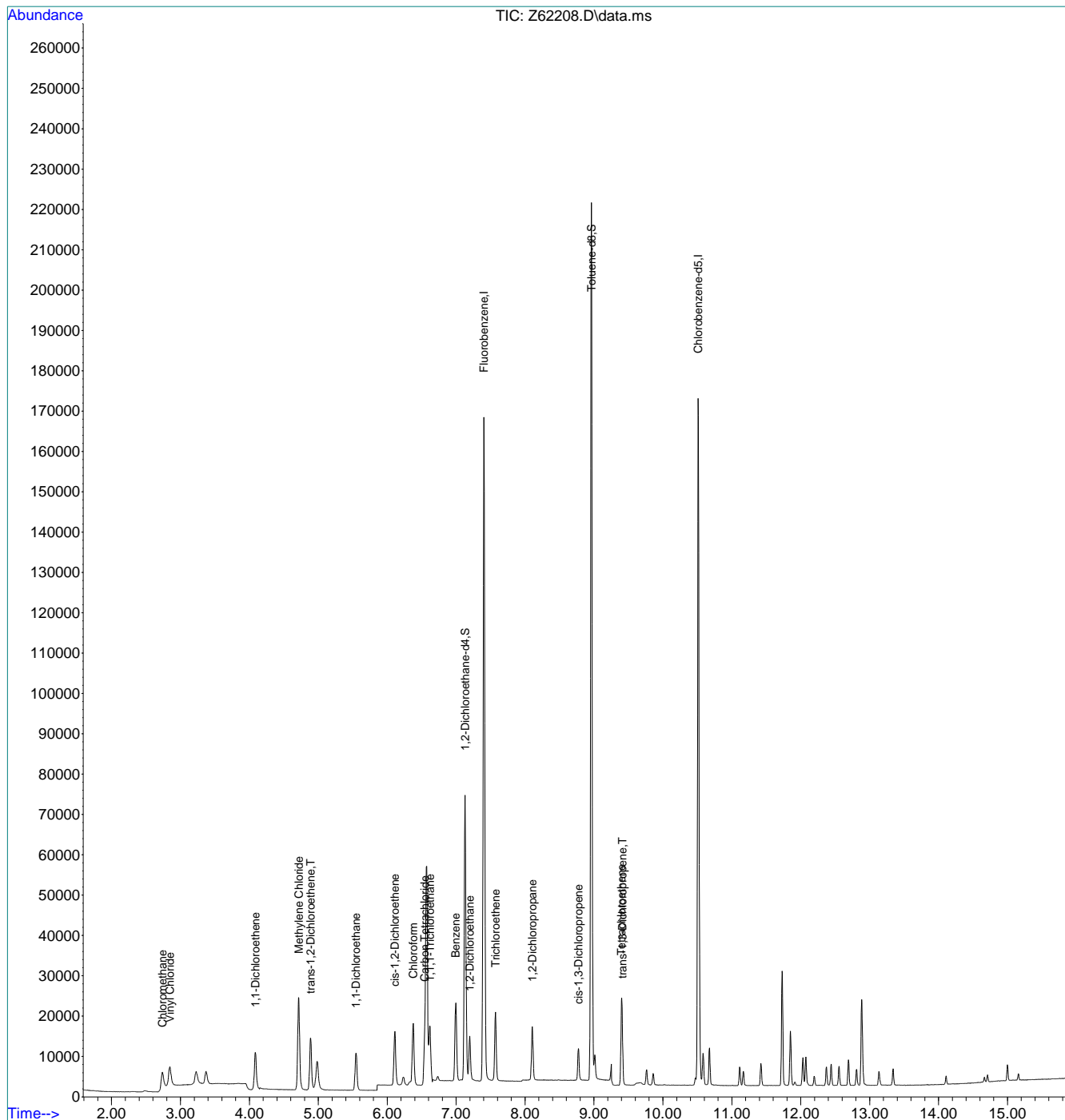
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1904308	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1505590	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	590498	4.14	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.80%	
19) Toluene-d8	8.961	98	1879356	5.17	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	100902	0.49	ppb		94
3) Chloromethane	2.737	50	94917	0.43	ppb		99
4) 1,1-Dichloroethene	4.087	96	56778	0.46	ppb	#	85
5) Methylene Chloride	4.717	84	159658	0.77	ppb	#	84
6) trans-1,2-Dichloroethene	4.890	96	72093	0.47	ppb	#	87
7) 1,1-Dichloroethane	5.546	63	125841	0.43	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	81784	0.50	ppb		91
9) Chloroform	6.377	83	149761	0.46	ppb		99
10) Carbon Tetrachloride	6.543	117	93184	0.46	ppb		100
11) 1,1,1-Trichloroethane	6.620	97	125772	0.46	ppb		93
12) Benzene	6.994	78	278106	0.49	ppb		95
14) 1,2-Dichloroethane	7.198	62	107084	0.46	ppb		99
15) Trichloroethene	7.571	95	81536	0.46	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	71854	0.47	ppb		96
17) cis-1,3-Dichloropropene	8.773	75	62431	0.42	ppb		97
20) trans-1,3-Dichloropropene	9.411	75	51134	0.43	ppb		97
21) Tetrachloroethene	9.399	166	81006	0.45	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62208.D  
 Acq On : 11 Sep 2020 6:34 pm  
 Operator : SHANICAO  
 Sample : IC2414-2  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 20:45:24 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.12  
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62209.D  
 Acq On : 11 Sep 2020 6:53 pm  
 Operator : SHANICAO  
 Sample : IC2414-3  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 20:45:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

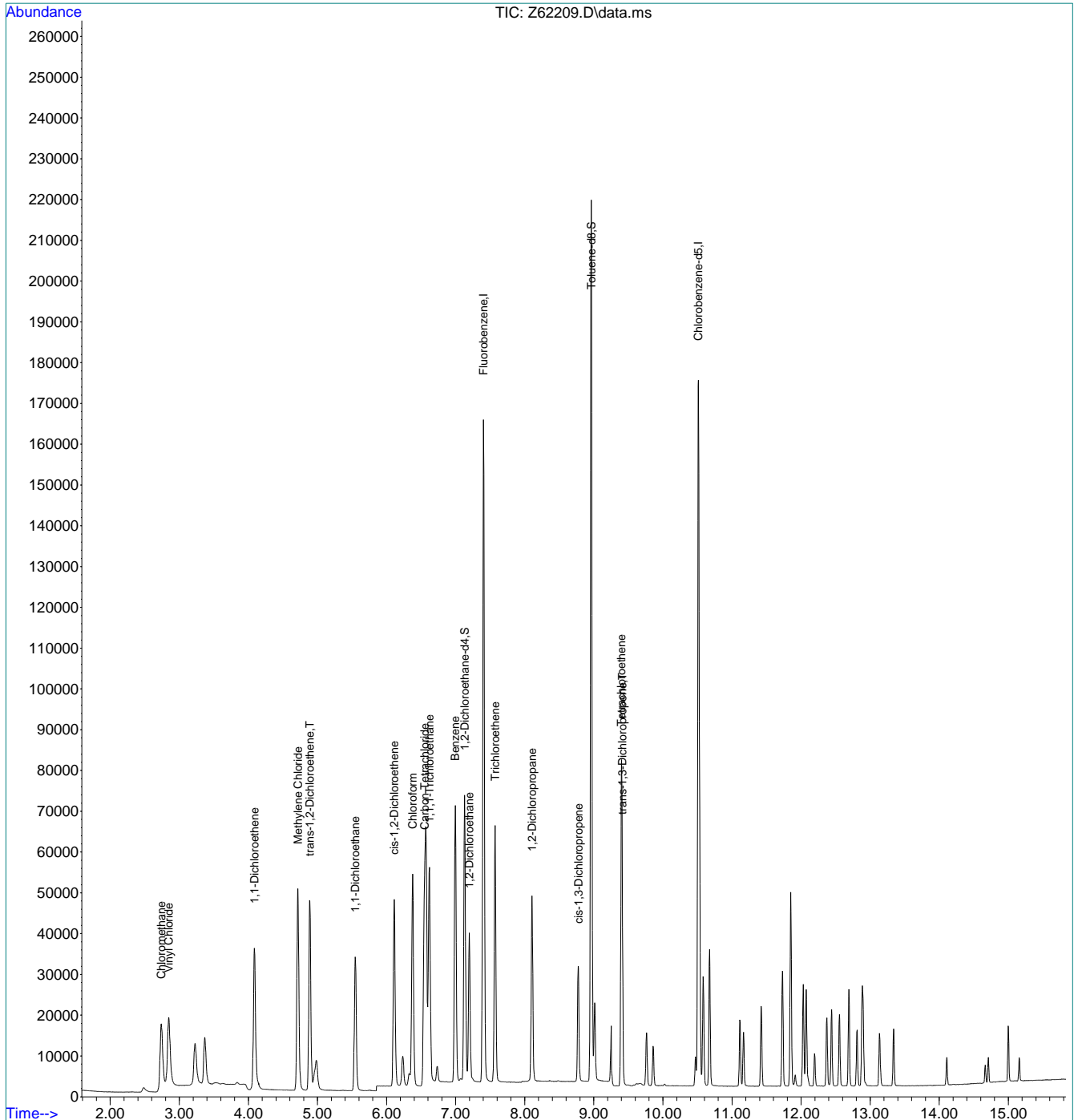
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1880383	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1501976	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	577590	4.10	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.00%	
19) Toluene-d8	8.961	98	1874357	5.17	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	355035	1.73	ppb		99
3) Chloromethane	2.737	50	361423	1.66	ppb		99
4) 1,1-Dichloroethene	4.087	96	211318	1.74	ppb	#	86
5) Methylene Chloride	4.717	84	343631	1.70	ppb	#	85
6) trans-1,2-Dichloroethene	4.890	96	256460	1.69	ppb	#	88
7) 1,1-Dichloroethane	5.546	63	437656	1.50	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	282000	1.74	ppb		93
9) Chloroform	6.377	83	511484	1.59	ppb		99
10) Carbon Tetrachloride	6.549	117	347244	1.75	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	460357	1.71	ppb		97
12) Benzene	6.994	78	967414	1.72	ppb		96
14) 1,2-Dichloroethane	7.198	62	357979	1.54	ppb		100
15) Trichloroethene	7.571	95	292723	1.66	ppb		86
16) 1,2-Dichloropropane	8.105	63	240964	1.60	ppb		94
17) cis-1,3-Dichloropropene	8.777	75	222972	1.51	ppb		97
20) trans-1,3-Dichloropropene	9.411	75	182860	1.51	ppb		99
21) Tetrachloroethene	9.399	166	294888	1.65	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62209.D  
 Acq On : 11 Sep 2020 6:53 pm  
 Operator : SHANICAO  
 Sample : IC2414-3  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 20:45:26 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62210.D  
 Acq On : 11 Sep 2020 7:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-4  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 20:45:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1874569	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1501119	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	580143	4.14	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	82.80%	
19) Toluene-d8	8.961	98	1856134	5.12	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	746636	3.65	ppb		100
3) Chloromethane	2.737	50	689642	3.18	ppb		100
4) 1,1-Dichloroethene	4.087	96	578860	4.78	ppb	#	84
5) Methylene Chloride	4.713	84	844960	4.28	ppb	#	87
6) trans-1,2-Dichloroethene	4.887	96	721782	4.77	ppb		90
7) 1,1-Dichloroethane	5.546	63	1240697	4.27	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	799673	4.96	ppb		91
9) Chloroform	6.377	83	1469750	4.59	ppb		100
10) Carbon Tetrachloride	6.543	117	991099	5.00	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	1287900	4.80	ppb		99
12) Benzene	6.994	78	2731897	4.86	ppb		94
14) 1,2-Dichloroethane	7.198	62	1039442	4.49	ppb		100
15) Trichloroethene	7.571	95	828558	4.70	ppb	#	84
16) 1,2-Dichloropropane	8.105	63	697663	4.66	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	770426	4.98	ppb		99
20) trans-1,3-Dichloropropene	9.412	75	644715	4.96	ppb		99
21) Tetrachloroethene	9.399	166	826179	4.63	ppb		100

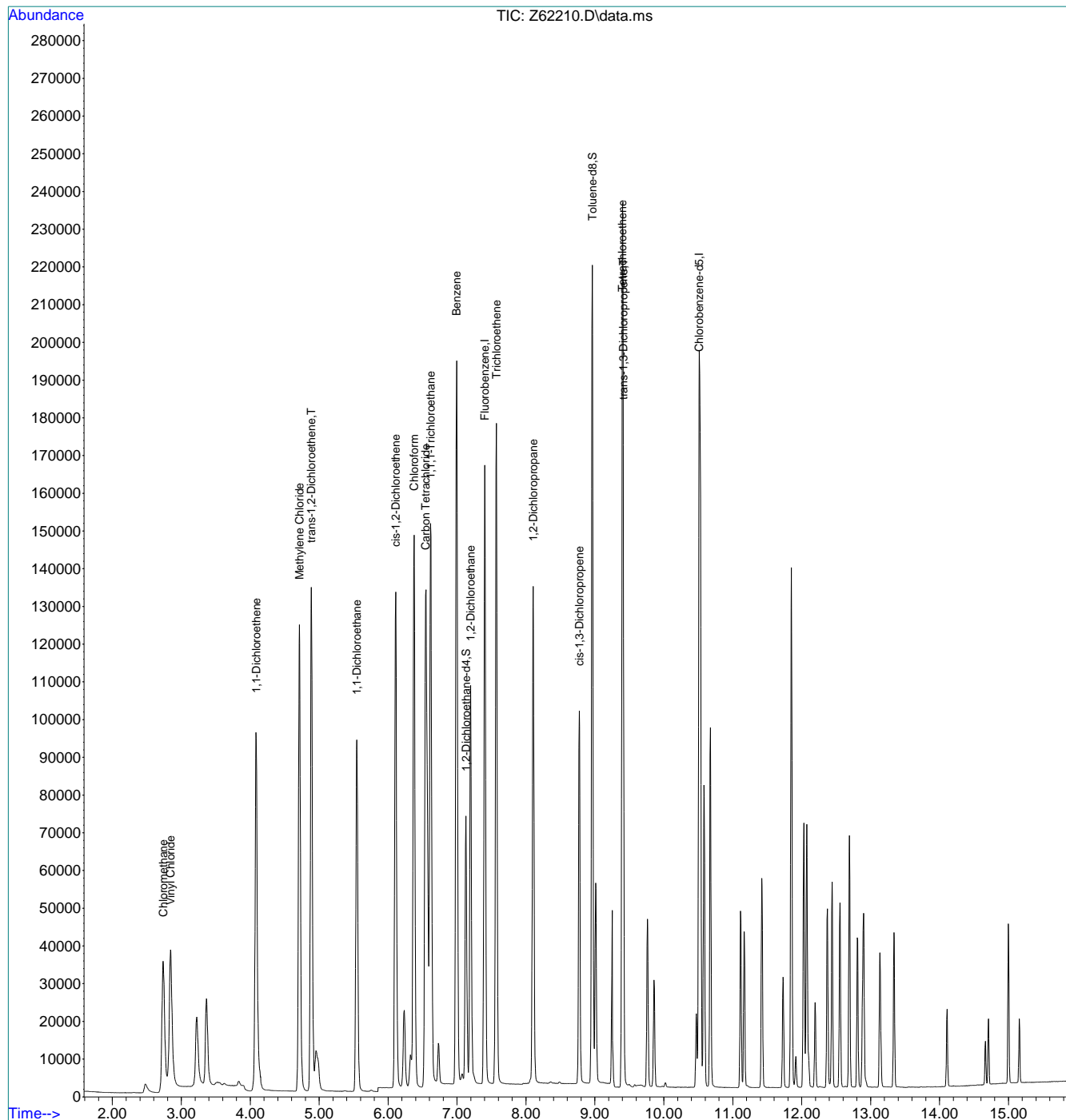
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62210.D  
 Acq On : 11 Sep 2020 7:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-4  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 20:45:28 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.14  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62211.D  
 Acq On : 11 Sep 2020 7:32 pm  
 Operator : SHANICAO  
 Sample : ICC2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 20:45:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

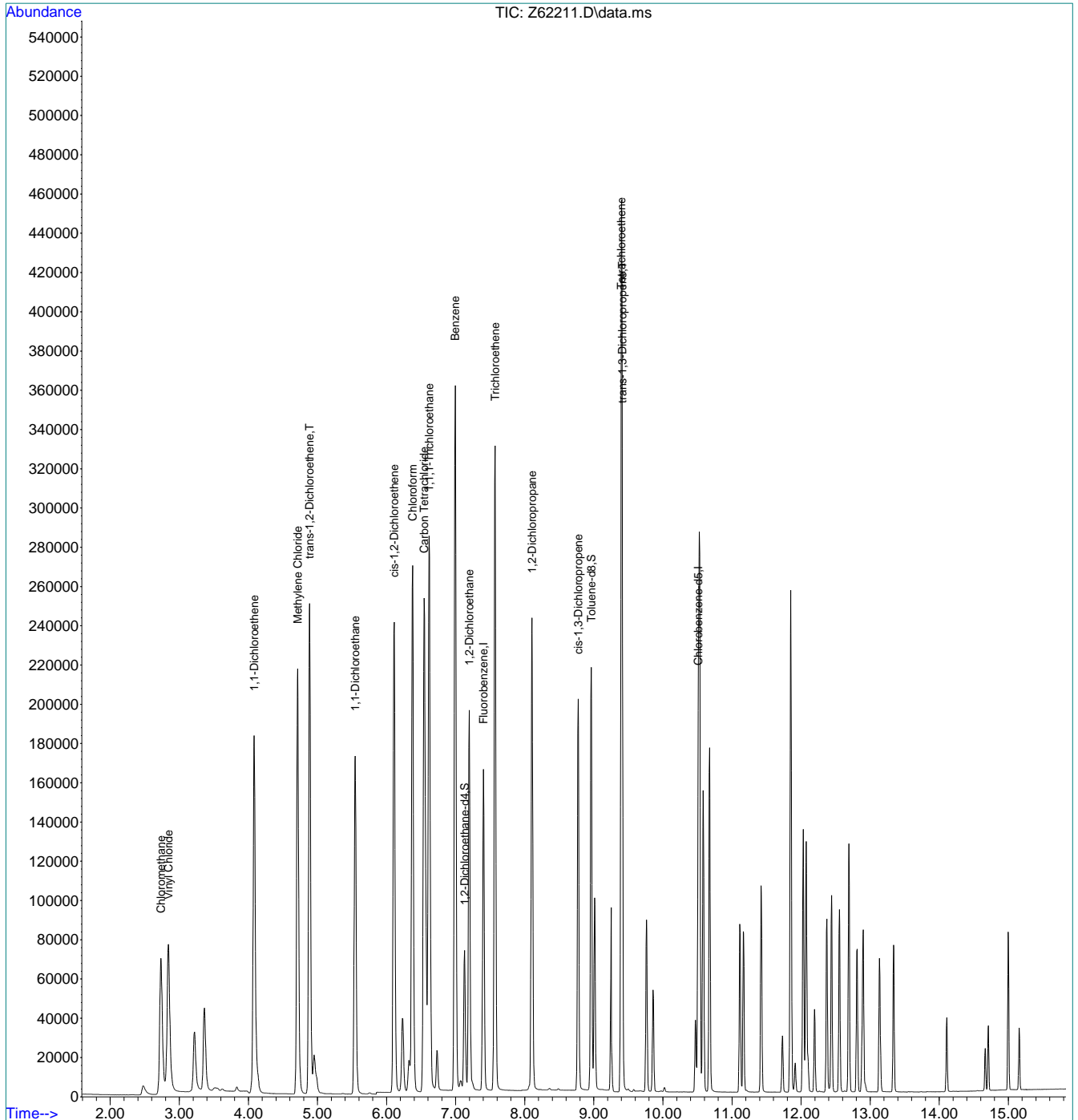
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1875869	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1507669	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	588321	4.19	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	83.80%	
19) Toluene-d8	8.961	98	1858099	5.10	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1492558	7.29	ppb		99
3) Chloromethane	2.733	50	1346933	6.21	ppb		100
4) 1,1-Dichloroethene	4.083	96	1096324	9.05	ppb	#	86
5) Methylene Chloride	4.713	84	1470542	7.68	ppb	#	86
6) trans-1,2-Dichloroethene	4.886	96	1349910	8.92	ppb		89
7) 1,1-Dichloroethane	5.546	63	2297659	7.91	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1467363	9.09	ppb		90
9) Chloroform	6.377	83	2692203	8.40	ppb		99
10) Carbon Tetrachloride	6.543	117	1927309	9.72	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2452792	9.14	ppb		99
12) Benzene	6.994	78	5069961	9.02	ppb		94
14) 1,2-Dichloroethane	7.198	62	1897782	8.19	ppb		100
15) Trichloroethene	7.571	95	1558656	8.84	ppb	#	82
16) 1,2-Dichloropropane	8.105	63	1281972	8.55	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	1534300	9.33	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	1291984	9.12	ppb		98
21) Tetrachloroethene	9.399	166	1556787	8.70	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62211.D  
 Acq On : 11 Sep 2020 7:32 pm  
 Operator : SHANICAO  
 Sample : ICC2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 20:45:30 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.15  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 13:35:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

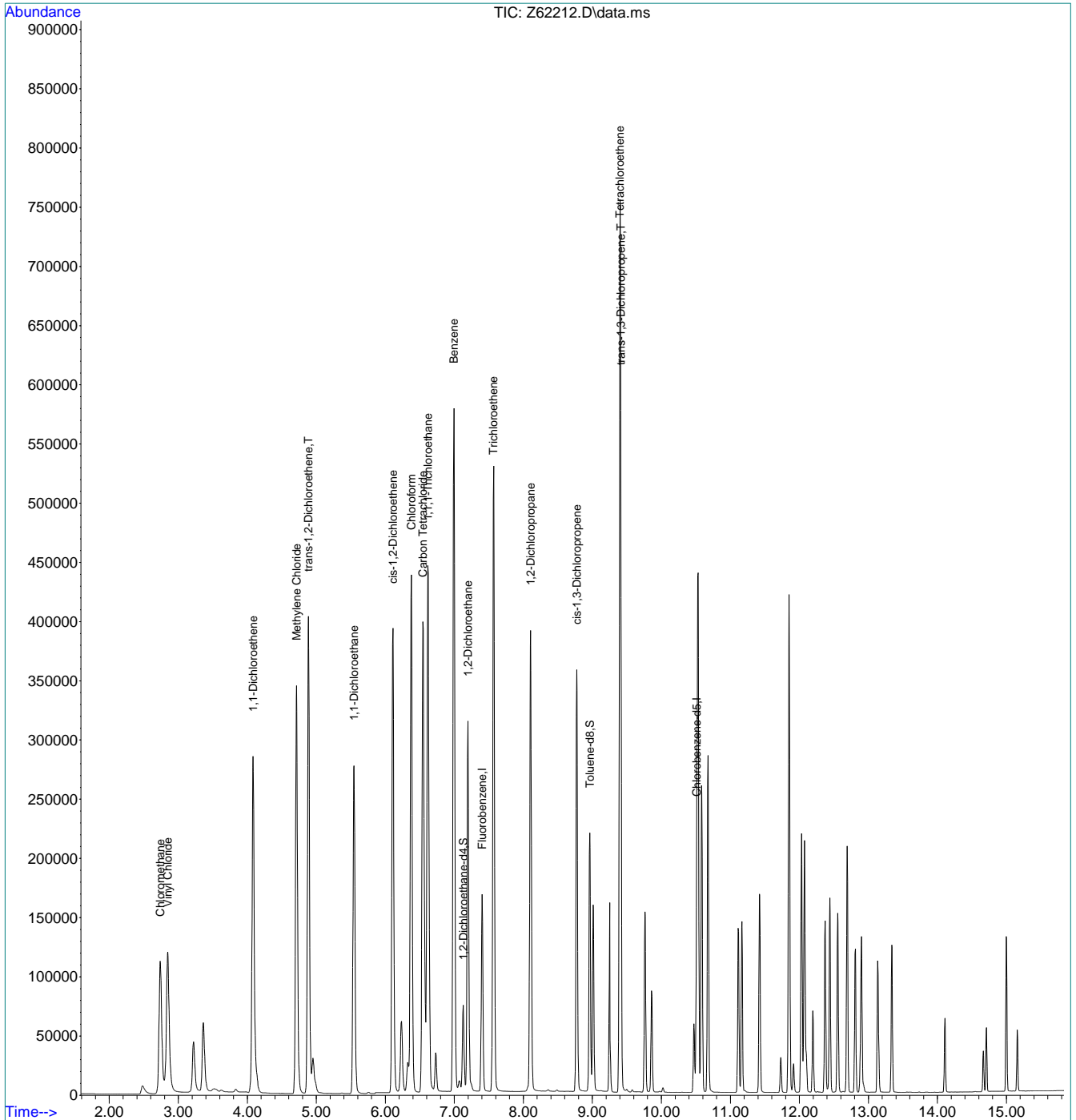
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1928565	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1554348	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	598324	4.15	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	83.00%		
19) Toluene-d8	8.961	98	1902886	5.07	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	101.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.846	62	2372157	11.27	ppb		99
3) Chloromethane	2.737	50	2193747m	9.84	ppb		
4) 1,1-Dichloroethene	4.083	96	1744774	14.01	ppb	#	85
5) Methylene Chloride	4.713	84	2365093	12.57	ppb	#	86
6) trans-1,2-Dichloroethene	4.886	96	2193890	14.11	ppb		89
7) 1,1-Dichloroethane	5.546	63	3742058	12.53	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	2407966	14.50	ppb		90
9) Chloroform	6.377	83	4396659	13.34	ppb		99
10) Carbon Tetrachloride	6.543	117	3121791	15.31	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	3949841	14.31	ppb		100
12) Benzene	6.994	78	8243521	14.26	ppb		94
14) 1,2-Dichloroethane	7.198	62	3118382	13.08	ppb		100
15) Trichloroethene	7.564	95	2545311	14.04	ppb		96
16) 1,2-Dichloropropane	8.105	63	2098124	13.62	ppb		94
17) cis-1,3-Dichloropropene	8.773	75	2732029	15.02	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2318445	14.41	ppb		99
21) Tetrachloroethene	9.399	166	2516093	13.63	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 13:35:41 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.16  
7

# Manual Integration Approval Summary

**Sample Number:** VZ2414-IC2414      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62212.D      **Analyst approved:** 09/13/20 13:47 Stuti Patel  
**Injection Time:** 09/11/20 19:51      **Supervisor approved:** 09/14/20 11:09 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.74	Overlapping peak

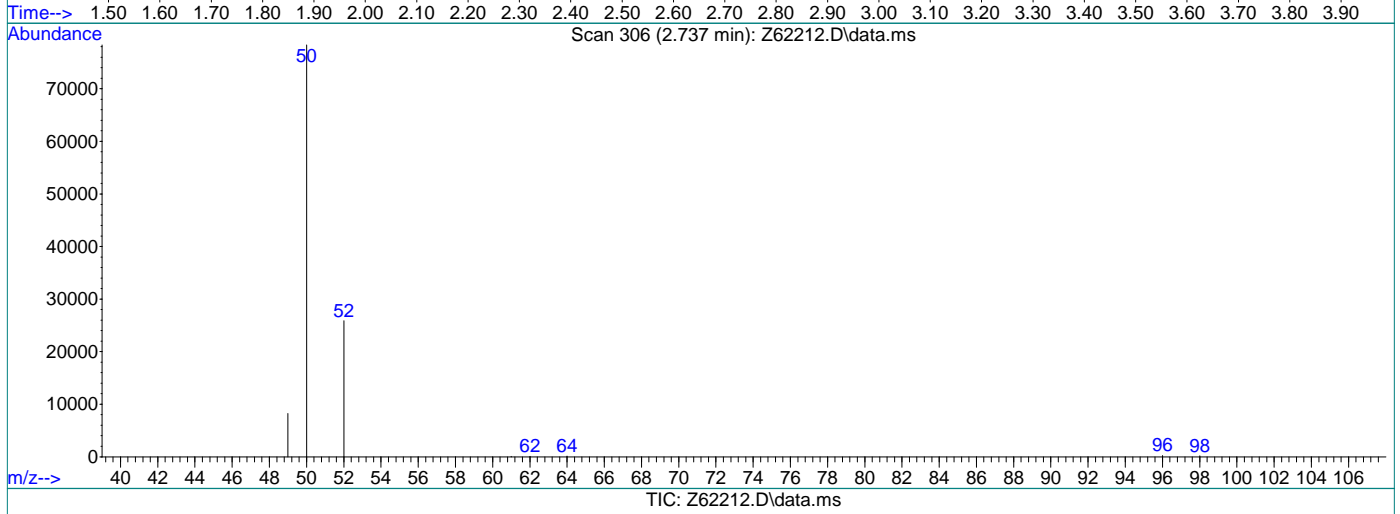
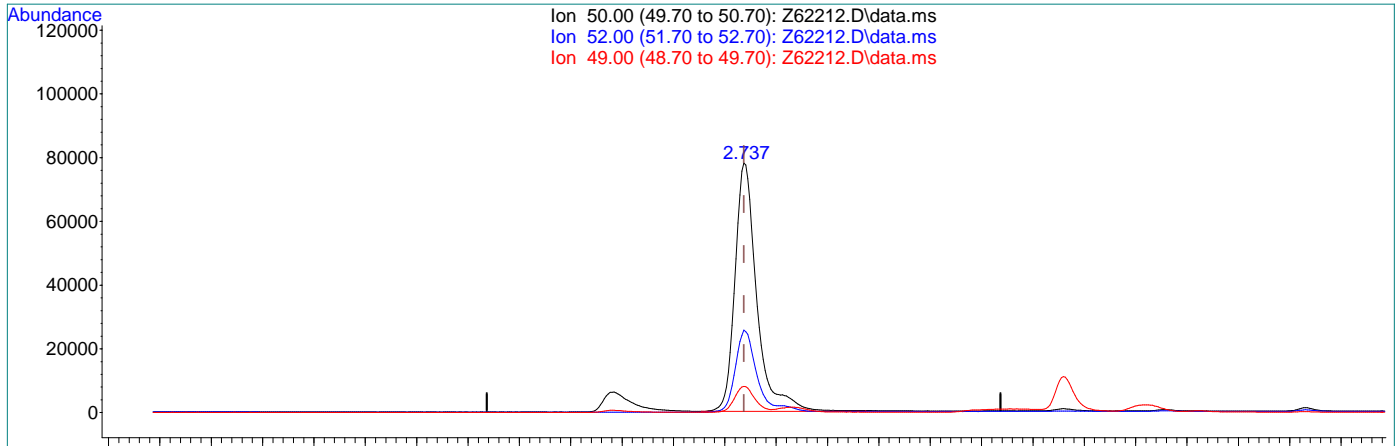
7.6.16.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 20:45:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.737min (-0.000) 10.40ppb

response 2319513

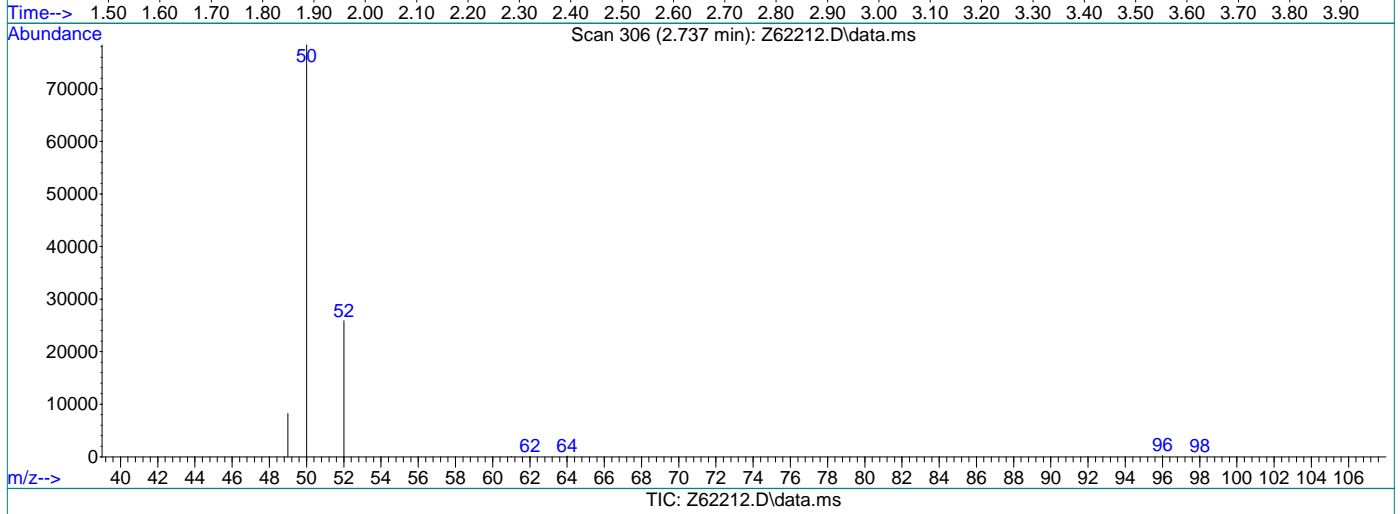
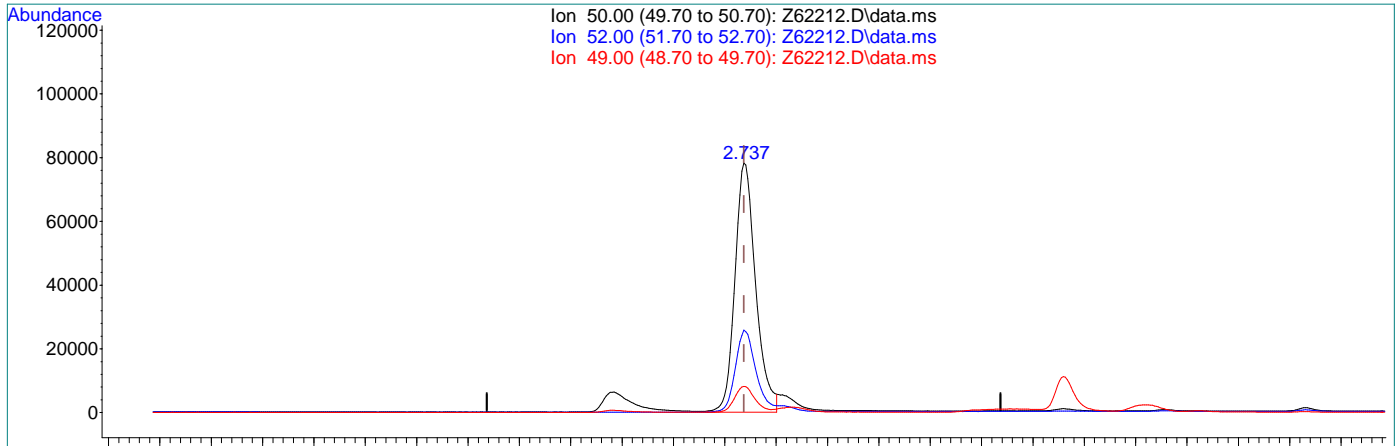
Ion	Exp%	Act%
50.00	100	100
52.00	32.60	33.01
49.00	10.80	10.46
0.00	0.00	0.00

7.6.16.2  
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62212.D  
 Acq On : 11 Sep 2020 7:51 pm  
 Operator : SHANICAO  
 Sample : IC2414-6  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 20:45:32 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane  
 2.737min (-0.000) 9.84ppb m  
 response 2193747

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	33.03
49.00	10.80	10.53
0.00	0.00	0.00



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 13:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration

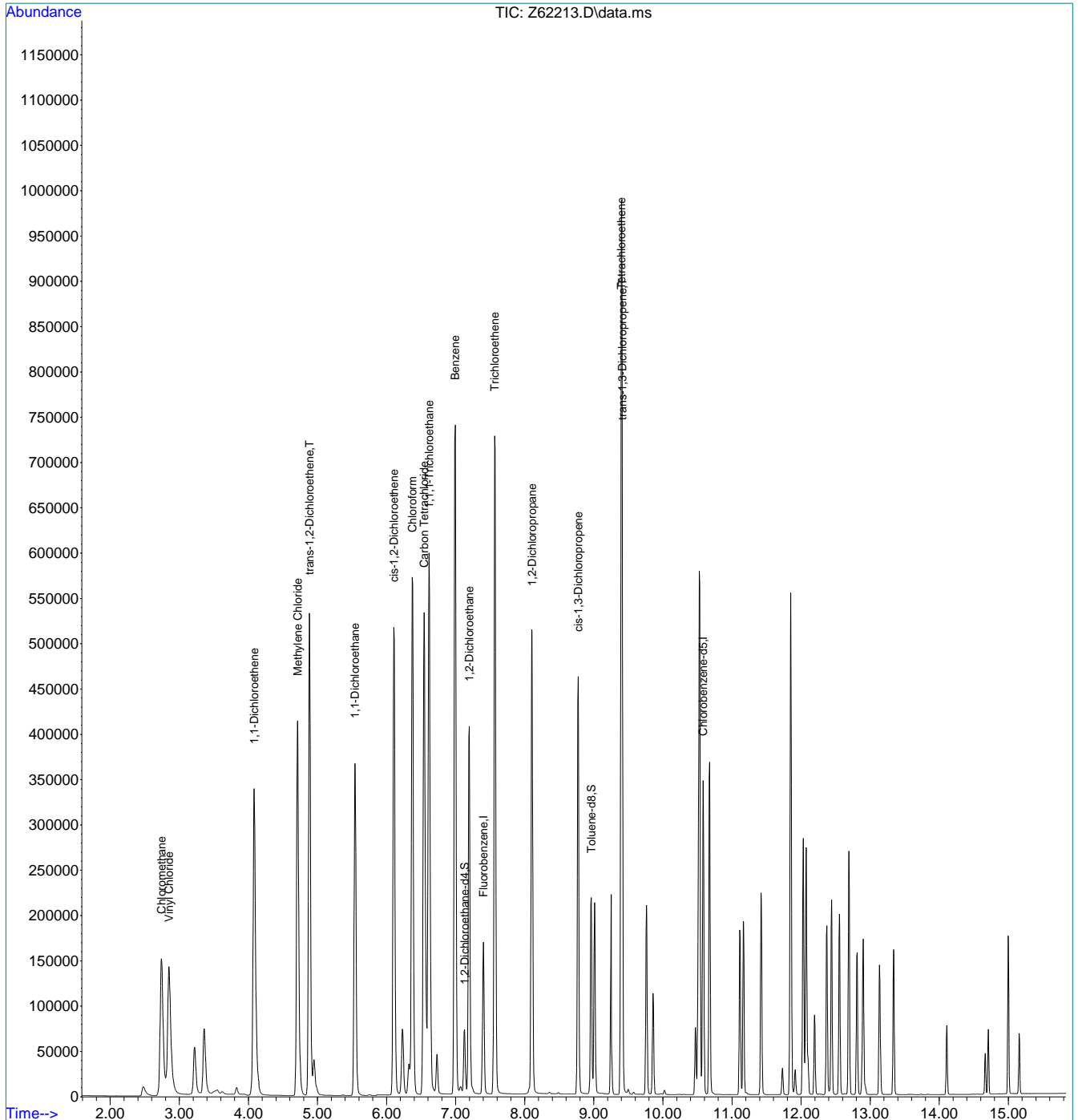
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1917621	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.583	117	1788256	5.00	ppb	# 0.07	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	594422	4.14	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	82.80%		
19) Toluene-d8	8.961	98	1887402	4.37	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	87.40%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.850	62	3290825	15.73	ppb		100
3) Chloromethane	2.741	50	3221181m	14.53	ppb		
4) 1,1-Dichloroethene	4.083	96	2349554	18.97	ppb	#	85
5) Methylene Chloride	4.713	84	3082122	17.24	ppb	#	85
6) trans-1,2-Dichloroethene	4.886	96	2926695	18.93	ppb	#	87
7) 1,1-Dichloroethane	5.542	63	4937816	16.63	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	3175295	19.23	ppb		94
9) Chloroform	6.371	83	5799532	17.70	ppb		99
10) Carbon Tetrachloride	6.543	117	4140429	20.43	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	5188910	18.91	ppb		100
12) Benzene	6.994	78	10899346	18.97	ppb		93
14) 1,2-Dichloroethane	7.198	62	4096394	17.29	ppb		100
15) Trichloroethene	7.564	95	3527962	19.57	ppb		93
16) 1,2-Dichloropropane	8.105	63	2768908	18.07	ppb		93
17) cis-1,3-Dichloropropene	8.773	75	3527102	18.66	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	2974601m	15.72	ppb		
21) Tetrachloroethene	9.399	166	3343761	15.75	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 13:36:00 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



7.6.17  
7



# Manual Integration Approval Summary

**Sample Number:** VZ2414-IC2414      **Method:** SW846 8260B BY SIM  
**Lab FileID:** Z62213.D      **Analyst approved:** 09/13/20 13:47 Stuti Patel  
**Injection Time:** 09/11/20 20:13      **Supervisor approved:** 09/14/20 11:09 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		2.74	Overlapping peak
trans-1,3-Dichloropropene	10061-02-6		9.41	Missed peak

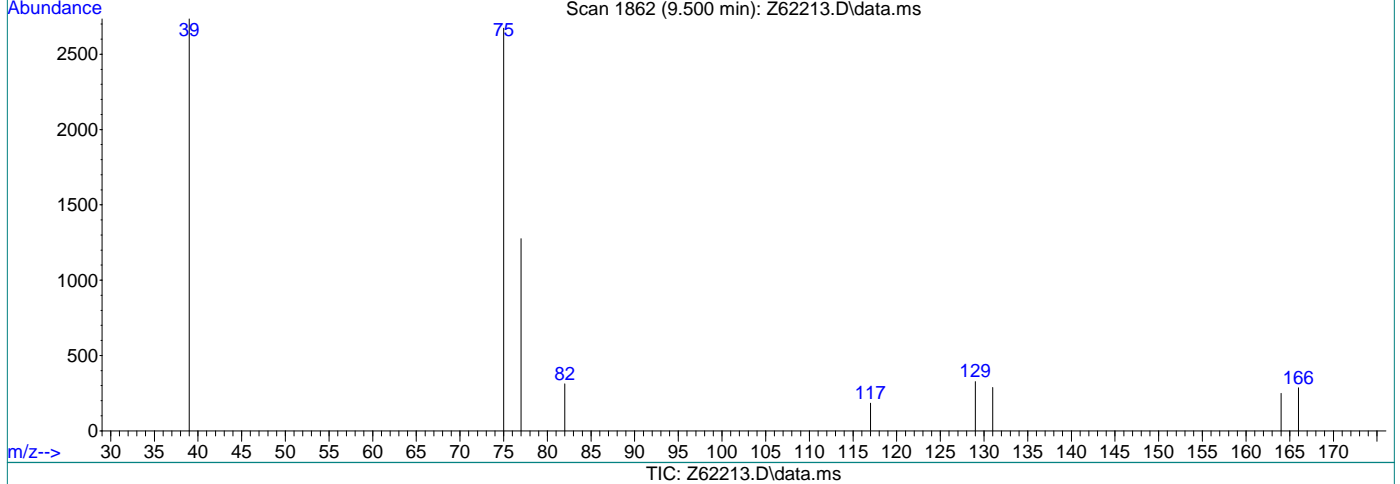
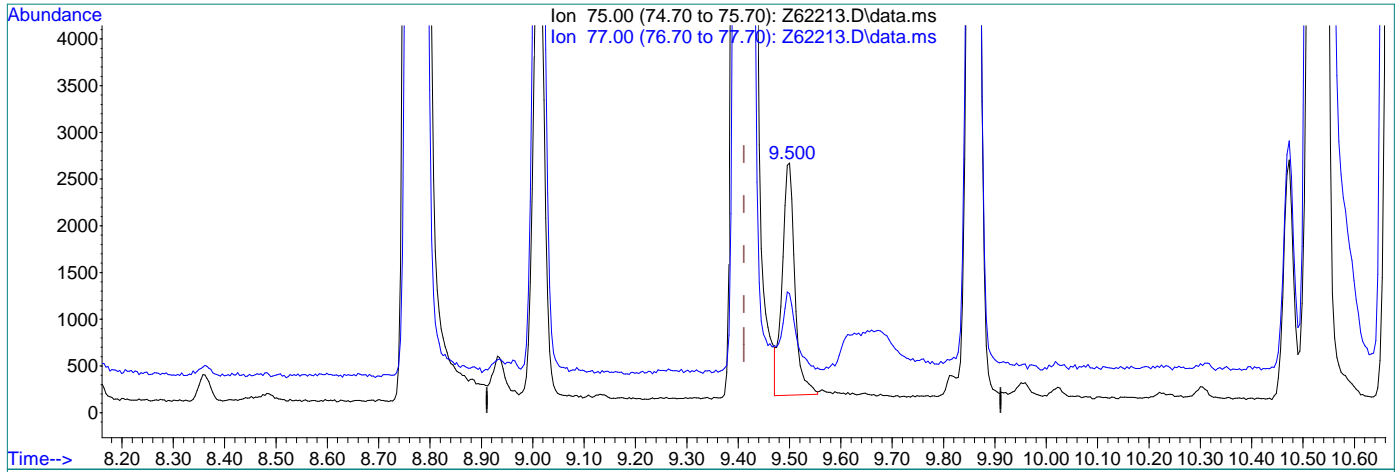
7.6.17.1

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:45:34 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.500min (+0.089) 0.30ppb

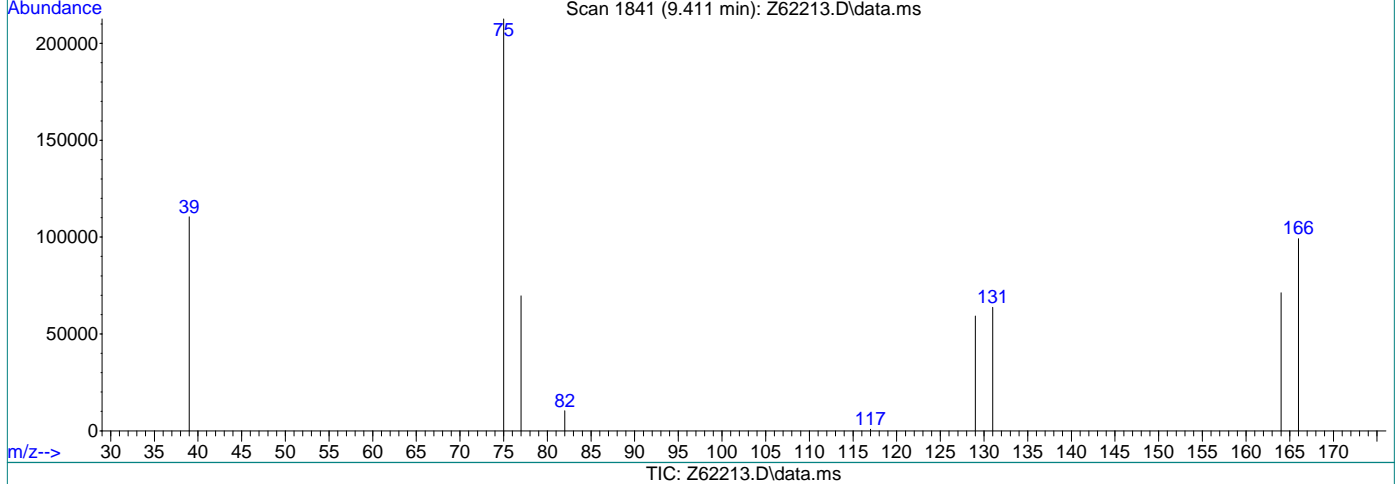
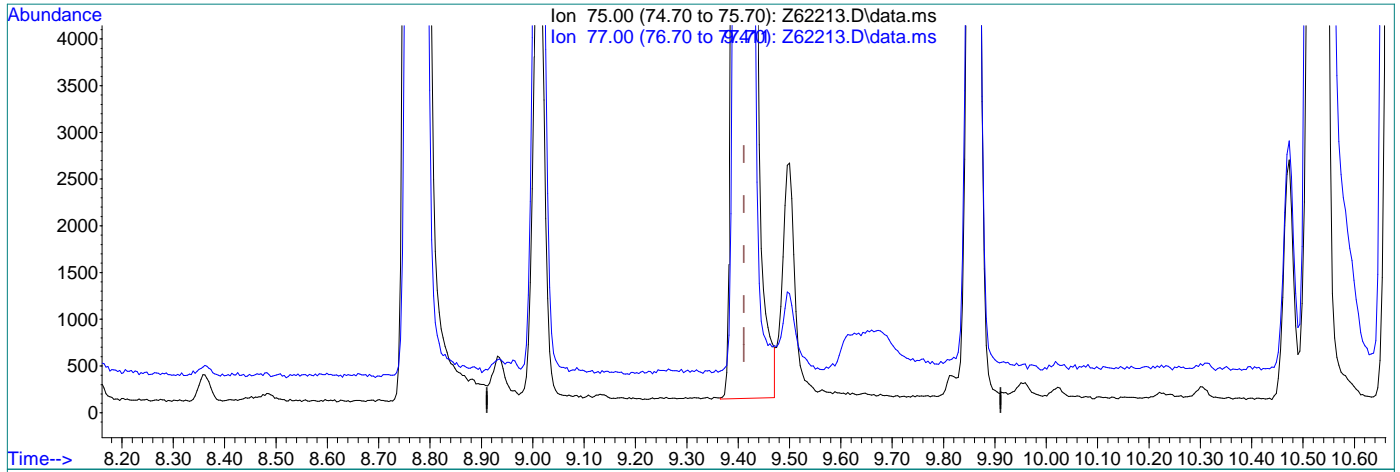
response 42280

Ion	Exp%	Act%
75.00	100	100
77.00	31.50	32.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:45:34 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(20) trans-1,3-Dichloropropene (T)

9.411min (+0.000) 15.72ppb m

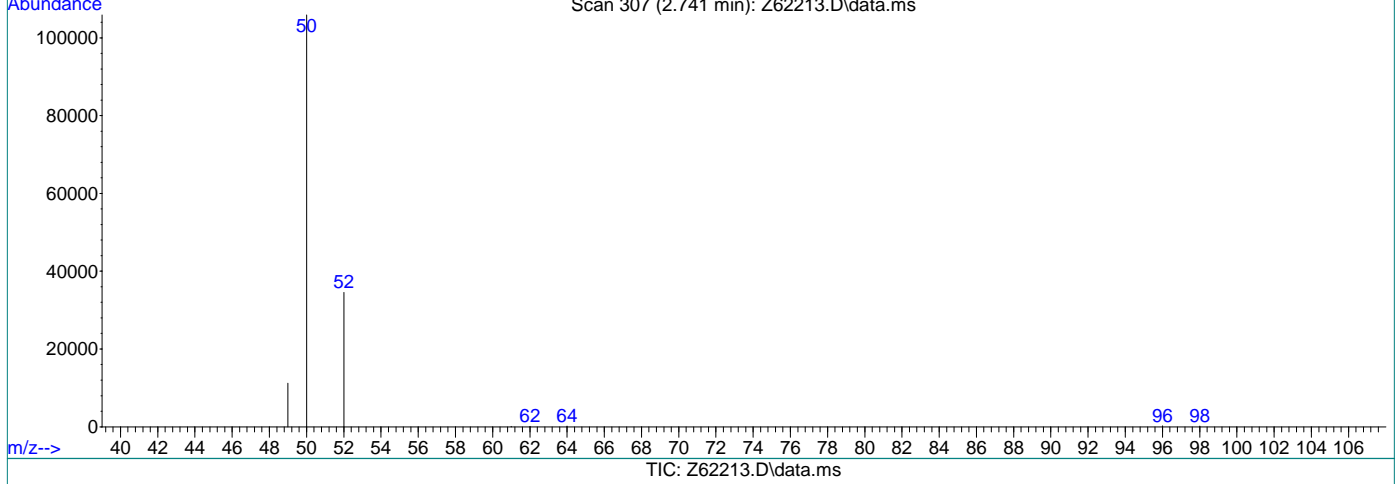
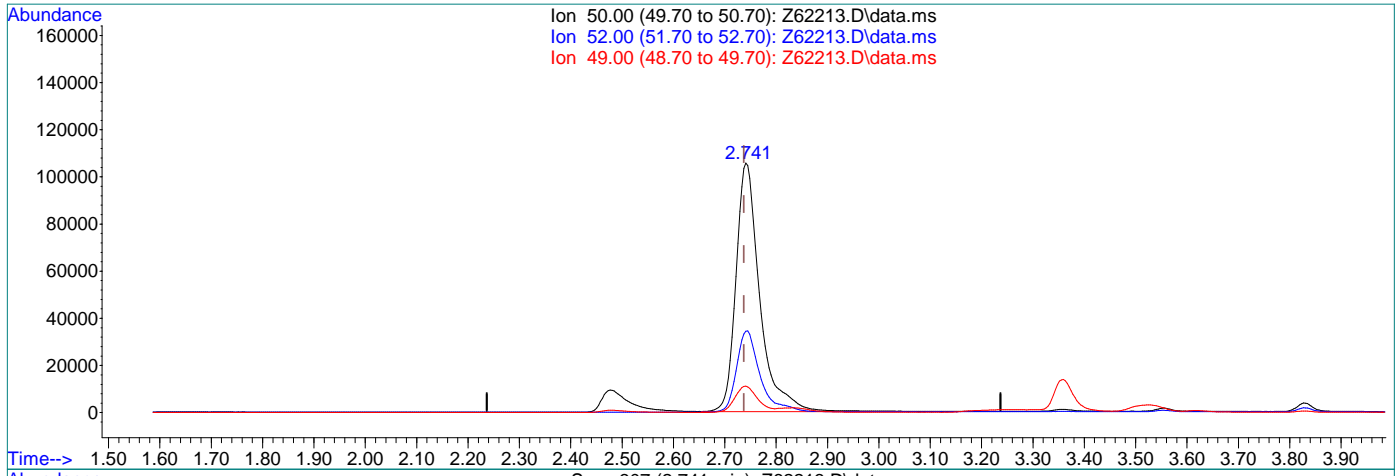
response 2974601

Ion	Exp%	Act%
75.00	100	100
77.00	31.50	32.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:49:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.741min (+0.004) 15.35ppb

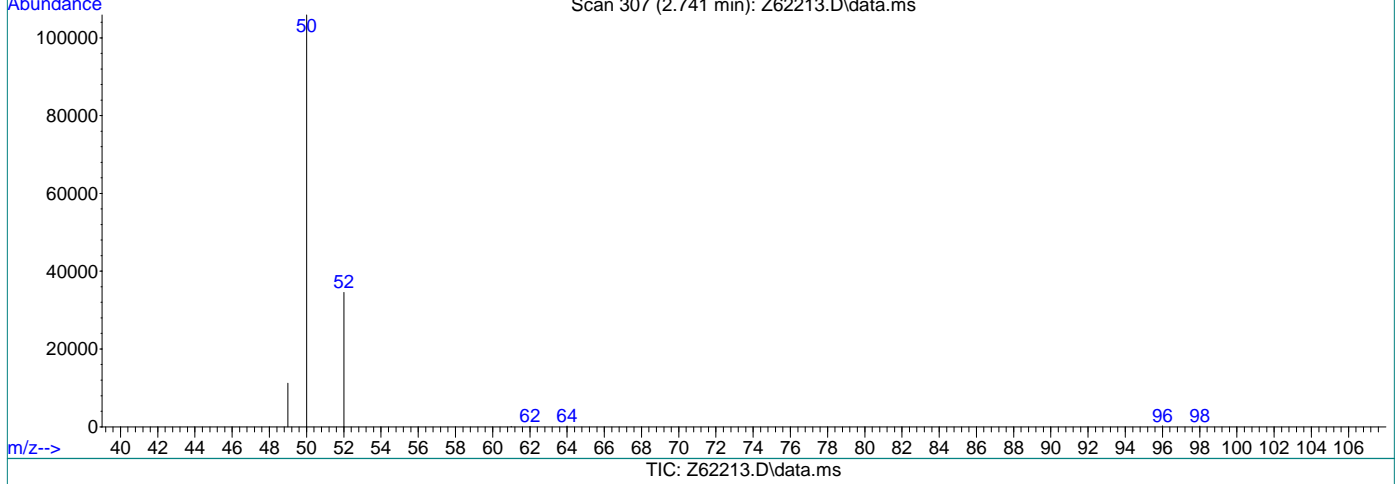
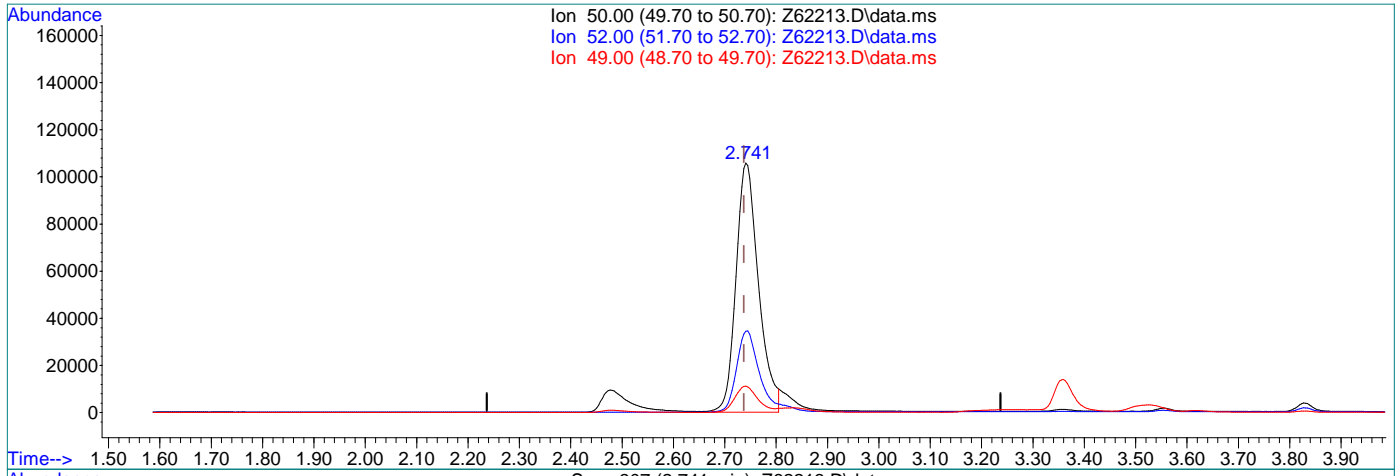
response 3403148

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	32.61
49.00	10.80	10.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62213.D  
 Acq On : 11 Sep 2020 8:13 pm  
 Operator : SHANICAO  
 Sample : IC2414-7  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 20:49:58 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Tue Sep 08 14:39:51 2020  
 Response via : Initial Calibration



(3) Chloromethane

2.741min (+0.004) 14.53ppb m

response 3221181

Ion	Exp%	Act%
50.00	100	100
52.00	32.60	32.60
49.00	10.80	10.61
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62215.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : SHANICAO  
 Sample : ICV2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 13:41:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.402	96	1913422	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.512	117	1533777	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.131	65	601973	5.09	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	101.80%	
19) Toluene-d8	8.962	98	1888455	5.07	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.843	62	1616654	10.13	ppb		99
3) Chloromethane	2.733	50	1398748	9.96	ppb		100
4) 1,1-Dichloroethene	4.083	96	1273981	10.99	ppb	#	85
5) Methylene Chloride	4.713	84	1568776	9.19	ppb	#	87
6) trans-1,2-Dichloroethene	4.886	96	1451630	10.28	ppb		91
7) 1,1-Dichloroethane	5.546	63	2482127	10.36	ppb	#	99
8) cis-1,2-Dichloroethene	6.110	96	1578267	10.06	ppb		91
9) Chloroform	6.377	83	2861428	9.95	ppb		99
10) Carbon Tetrachloride	6.543	117	2066805	10.59	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2614500	10.38	ppb		100
12) Benzene	6.995	78	5609186	10.53	ppb		94
14) 1,2-Dichloroethane	7.199	62	2071875	10.32	ppb		100
15) Trichloroethene	7.565	95	1708163	10.45	ppb		95
16) 1,2-Dichloropropane	8.106	63	1410167	10.40	ppb		94
17) cis-1,3-Dichloropropene	8.774	75	1756808	10.89	ppb		98
20) trans-1,3-Dichloropropene	9.412	75	1511145	11.39	ppb		98
21) Tetrachloroethene	9.400	166	1702489	10.36	ppb		99
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

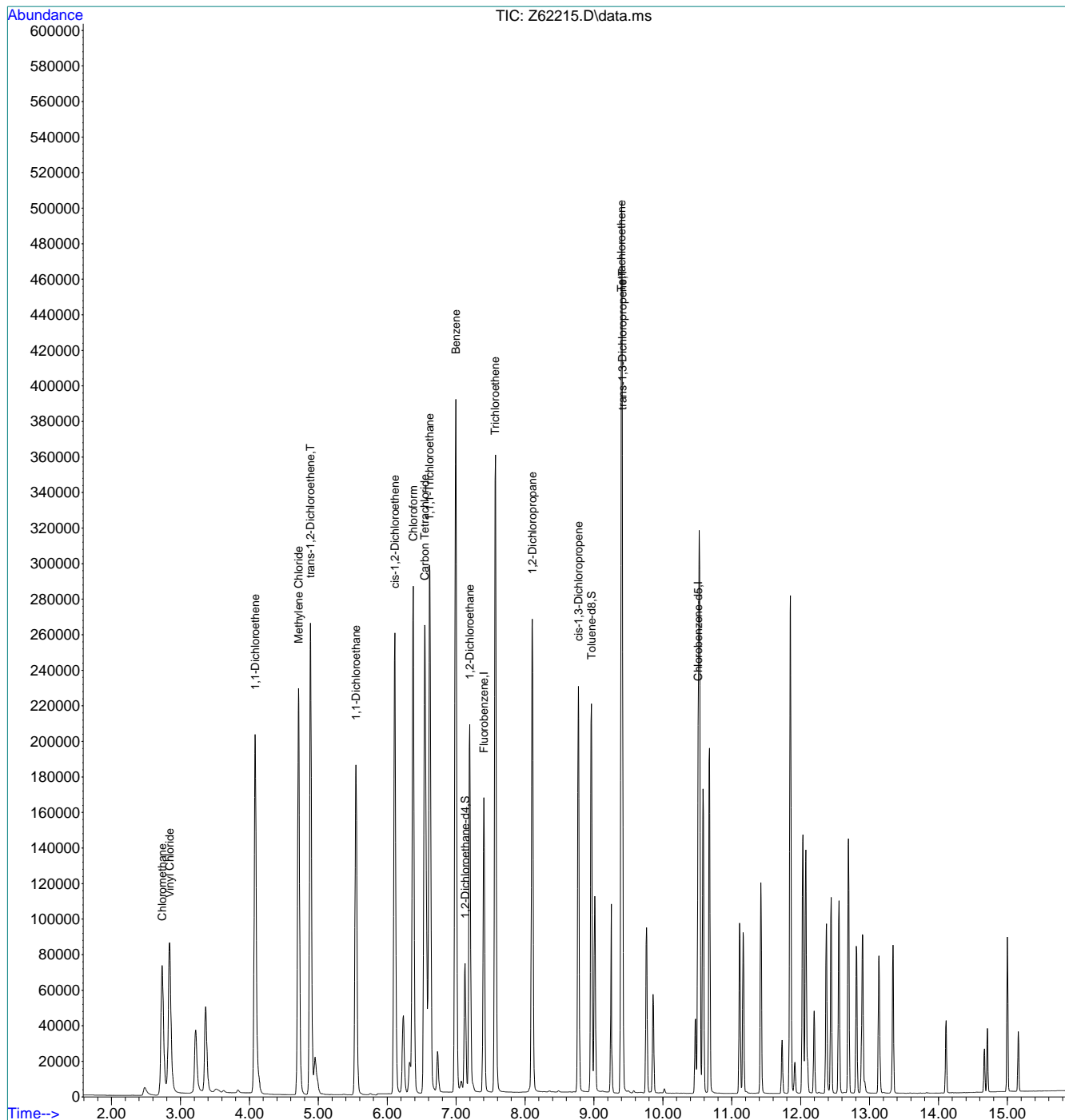
7.6.18  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091120\  
 Data File : Z62215.D  
 Acq On : 11 Sep 2020 8:51 pm  
 Operator : SHANICAO  
 Sample : ICV2414-5  
 Misc : MS47171,VZ2414,,,,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 13 13:41:02 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.18  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2417\  
 Data File : Z62289.d  
 Acq On : 13 Sep 2020 11:28 am  
 Operator : stutip  
 Sample : CC2414-5  
 Misc : MS47199,VZ2417,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:07:10 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1988867	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1615294	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.123	65	646369	5.25	ppb	0.00	
Spiked Amount	5.000	Range 79 - 125	Recovery	=	105.00%		
19) Toluene-d8	8.958	98	1946356	4.96	ppb	0.00	
Spiked Amount	5.000	Range 70 - 130	Recovery	=	99.20%		
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.835	62	1833648	11.05	ppb		99
3) Chloromethane	2.726	50	1688699	11.37	ppb		99
4) 1,1-Dichloroethene	4.083	96	1115829	9.26	ppb	#	88
5) Methylene Chloride	4.709	84	1616963	9.10	ppb		90
6) trans-1,2-Dichloroethene	4.883	96	1421373	9.68	ppb		93
7) 1,1-Dichloroethane	5.543	63	2522667	10.13	ppb	#	99
8) cis-1,2-Dichloroethene	6.104	96	1521455	9.33	ppb		94
9) Chloroform	6.371	83	2850140	9.53	ppb		99
10) Carbon Tetrachloride	6.543	117	1843488	9.09	ppb		98
11) 1,1,1-Trichloroethane	6.614	97	2453906	9.37	ppb		99
12) Benzene	6.987	78	5448290	9.84	ppb		98
14) 1,2-Dichloroethane	7.191	62	2016614	9.66	ppb		100
15) Trichloroethene	7.564	95	1592938	9.38	ppb		90
16) 1,2-Dichloropropane	8.101	63	1320826	9.38	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	1541672	9.39	ppb		99
20) trans-1,3-Dichloropropene	9.407	75	1301782	9.40	ppb		100
21) Tetrachloroethene	9.399	166	1573527	8.95	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

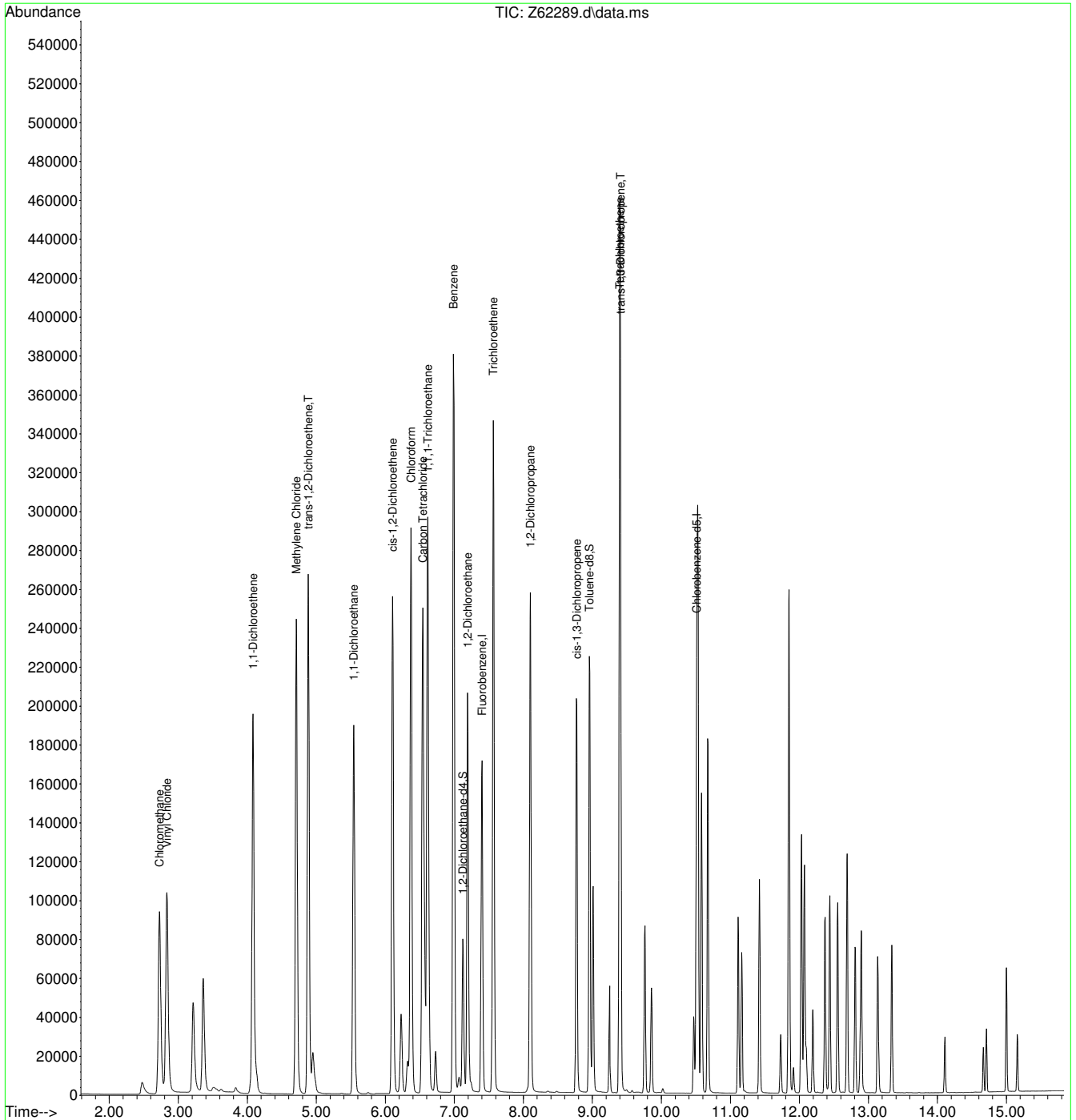
7.6.19  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2417\  
 Data File : Z62289.d  
 Acq On : 13 Sep 2020 11:28 am  
 Operator : stutip  
 Sample : CC2414-5  
 Misc : MS47199,VZ2417,,,,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 07:07:10 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\vz2417\  
 Data File : Z62318.d  
 Acq On : 13 Sep 2020 8:54 pm  
 Operator : stutip  
 Sample : ecc2414-5  
 Misc : MS47203,VZ2417,,,,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 14 07:08:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
-----							
Internal Standards							
1) Fluorobenzene	7.401	96	1638791	5.00	ppb	0.00	
18) Chlorobenzene-d5	10.511	117	1378925	5.00	ppb	0.00	
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.130	65	552303	5.45	ppb	0.00	
Spiked Amount	5.000	Range	79 - 125	Recovery	=	109.00%	
19) Toluene-d8	8.961	98	1587084	4.74	ppb	0.00	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%	
Target Compounds							
							Qvalue
2) Vinyl Chloride	2.839	62	1750150	12.79	ppb		100
3) Chloromethane	2.733	50	1537005	12.39	ppb		100
4) 1,1-Dichloroethene	4.087	96	1053952	10.61	ppb	#	89
5) Methylene Chloride	4.713	84	1539709	10.74	ppb		91
6) trans-1,2-Dichloroethene	4.890	96	1346848	11.14	ppb		89
7) 1,1-Dichloroethane	5.546	63	2397909	11.69	ppb	#	100
8) cis-1,2-Dichloroethene	6.110	96	1454134	10.82	ppb		93
9) Chloroform	6.377	83	2814392	11.43	ppb		100
10) Carbon Tetrachloride	6.549	117	1670176	9.99	ppb		98
11) 1,1,1-Trichloroethane	6.620	97	2351468	10.90	ppb		99
12) Benzene	6.994	78	5180769	11.36	ppb		96
14) 1,2-Dichloroethane	7.198	62	2004191	11.66	ppb		100
15) Trichloroethene	7.571	95	1554815	11.11	ppb		86
16) 1,2-Dichloropropane	8.105	63	1303945	11.23	ppb		97
17) cis-1,3-Dichloropropene	8.773	75	1201103	8.93	ppb		98
20) trans-1,3-Dichloropropene	9.411	75	1025985	8.70	ppb		99
21) Tetrachloroethene	9.399	166	1525746	10.32	ppb		100
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

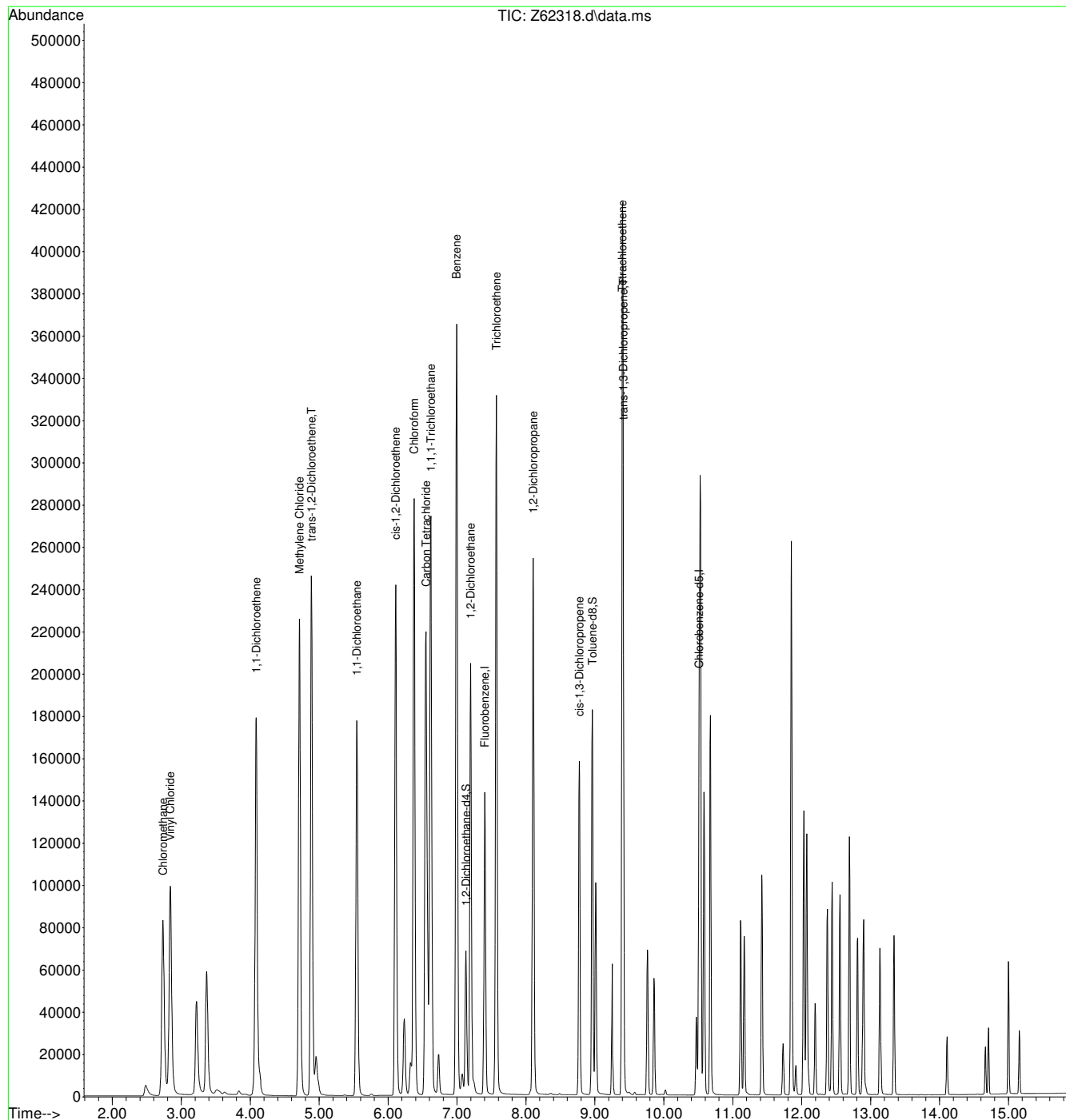
7.6.20  
7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\September 2020\09-14-2020\ vz2417\  
 Data File : Z62318.d  
 Acq On : 13 Sep 2020 8:54 pm  
 Operator : stutip  
 Sample : ecc2414-5  
 Misc : MS47203,VZ2417,,,,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 14 07:08:19 2020  
 Quant Method : C:\msdchem\1\methods\SIMCL091120.M  
 Quant Title : WATER-EPA 8260B  
 QLast Update : Sun Sep 13 13:38:26 2020  
 Response via : Initial Calibration



7.6.20  
7

Date: 9/11/2020  
 COLUMN TYPE: RTX VMS  
 DETECTOR: 5975 MSD  
 INSTRUMENT: MSVOA12-O  
 PURGE PRESSURE: 8.4PSI  
 PURGE VOLUME: 5 mL  
 ANALYST: AKARI(G)stutip

METHODS\*: SIMCLm  
 METHOD FILE: SIMCL091120.M  
 CALIB. DATE: 9/11/2020  
 EM VOLTAGE: 1424v  
 BFB RESPONSE: 6052279  
 RUN ID: VO2356

BFB: V25942b  
 ICAL/JC: V25806, VS0804  
 ISTD/SUR: VS0799  
 ICV/QC: VS0805 VS0802  
 data reviewed by: stutip

PH LOT1-12 :230814  
 ph lot 0.0-3.0 : 220416a  
 KI PAPER LOT:030317  
 SAMPLE ID VERIFIED BY:  
 stutip  
 DATE VERIFIED: 09/14/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
O61211	BLANK	-	-	w	1	ACQ_SIMCL		-	?		
O61212	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61213	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61214	BLANK	-	-	w	2	ACQ_SIMCL		-	-		
O61215	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61216	COND. STD.	-	-	w	2	ACQ_SIMCL		-	-		
O61217	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61218	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61219	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, returned
O61220	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61221	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61222	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, increased voltage
O61223	BFB	-	-	w	100	BFB		-	-		autofind 2ul failed, decreased voltage
O61224	BFB	-	-	w	100	BFB		-	-		autofind 2ul passed
O61225	CC2352-5	-	-	w	2	ACQ_SIMCL		-	-		50ul -> 50ml passed
O61226	BS	-	-	w	3	ACQ_SIMCL		-	-		20ul -> vial passed
O61227	BFB	-	-	w	100	BFB		-	-		pass autofind 2ul
O61228	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61229	BLANK	-	-	w	1	ACQ_SIMCL		-	-		
O61230	IC2356-1	-	-	w	2	ACQ_SIMCL	pii-3,12,16,21,30	-	-		1ul -> 100ml
O61231	IC2356-2	-	-	w	3	ACQ_SIMCL	pii-12	-	-		5ul -> 100ml
O61232	IC2356-3	-	-	w	4	ACQ_SIMCL	pii-12	-	-		10ul -> 50ml
O61233	IC2356-4	-	-	w	5	ACQ_SIMCL	pii-12	-	-		25ul -> 50ml
O61234	ICe2356-5	-	-	w	6	ACQ_SIMCL	pii-12	-	-		50ul -> 50ml
O61235	IC2356-6	-	-	w	7	ACQ_SIMCL	pii-12	-	-		75ul -> 50ml
O61236	IC2356-7	-	-	w	8	ACQ_SIMCL	pii-12	-	-		100ul -> 50ml
O61237	BLANK	-	-	w	9	ACQ_SIMCL		-	-		
O61238	iev2356-5	-	-	w	10	ACQ_SIMCL	pii-12	-	-		50ul-50ml

\* For NELAC purposes, Method 8280 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate. Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

Date: 9/13/2020  
 COLUMN TYPE: RTX VMS  
 DETECTOR: 5975 MSD  
 INSTRUMENT: MSV0A12-O  
 PURGE PRESSURE: 8.4PSI  
 PURGE VOLUME: 5 mL  
 ANALYST: stutip

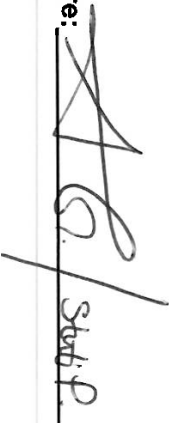
METHODS:\* SIMCLm  
 METHOD FILE: SIMCL091120.M  
 CALIB. DATE: 9/11/2020  
 EM VOLTAGE: 1424v  
 BFB RESPONSE: 679465  
 RUN ID: V02360

BFB: V25942b  
 ICAL/CC: V25806, VS0804  
 ISTD/SUR: VS0799  
 ICV/QC: VS0805 VS0802  
 data reviewed by: Jennifer F

PH LOT:1-12 :230814  
 ph lot 0.0-3.0 : 220416a  
 KI PAPER LOT:030317  
 SAMPLE ID VERIFIED BY:  
 stutip  
 DATE VERIFIED: 09/14/2020

Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAK RATIONAL, PEAK #	PH	CL	RR	COMMENTS
061321	blk	-	-	w	1	ACQ_SIMCL		-	-		
061322	blk	-	-	w	2	ACQ_SIMCL		-	-		
061323	bfb	-	-	w	3	bfb		-	-		
061324	bfb	-	-	w	4	bfb		-	-		autofnd 2ul passed ✓
061325	cc2356-5	-	-	w	5	ACQ_SIMCL	#12(P11)	-	-		50ul-50ml ✓ 20ul-40ml ✓
061326	bs	-	-	w	6	ACQ_SIMCL		-	-		ND ✓
061327	mb	-	-	w	7	ACQ_SIMCL		-	-		ND ✓
061328	mb	-	-	w	8	ACQ_SIMCL		1	n		ND ✓
061329	fa78565-25	-	-	w	9	ACQ_SIMCL		1	n		1x
061330	fa78565-26	-	-	w	10	ACQ_SIMCL		1	n		1x
061331	fa78565-27	-	-	w	11	ACQ_SIMCL		1	n		SS Fail
061332	fa78549-30	-	-	w	12	ACQ_SIMCL		1	n		1x
061333	fa78549-31	-	-	w	13	ACQ_SIMCL		1	n		1x
061334	fa78549-32	-	-	w	14	ACQ_SIMCL		1	n		1x
061335	fa78549-33	-	-	w	15	ACQ_SIMCL		1	n		1x
061336	fa78549-34	-	-	w	16	ACQ_SIMCL		1	n		1x
061337	fa78549-35	-	-	w	17	ACQ_SIMCL		1	n		1x
061338	fa78549-36	-	-	w	18	ACQ_SIMCL		1	n		1x
061339	fa78549-37	-	-	w	19	ACQ_SIMCL		1	n		1x
061340	fa78549-38	-	-	w	20	ACQ_SIMCL		1	n		1x
061341	fa78549-39	-	-	w	21	ACQ_SIMCL		1	n		1x
061342	fa78549-40	-	-	w	22	ACQ_SIMCL		1	n		1x
061343	fa78549-41	-	-	w	23	ACQ_SIMCL		1	n		SS Fail
061344	fa78549-42	-	-	w	24	ACQ_SIMCL		1	n		1x
061345	fa78564-1	-	-	w	25	ACQ_SIMCL		1	n		✓
061346	fa78564-2	-	-	w	26	ACQ_SIMCL		1	n		✓
061347	fa78564-3	-	-	w	27	ACQ_SIMCL		1	n		✓
061348	fa78564-4	-	-	w	28	ACQ_SIMCL		1	n		✓
061349	fa78564-1ms,10	-	-	w	29	ACQ_SIMCL	5mL-50mL #12(P11)	1	n		20ul-40ml ✓
061350	fa78564-1msd,10	-	-	w	30	ACQ_SIMCL	5mL-50mL #12(P11)	1	n		20ul-40ml ✓
061351	ecc2356-5	-	-	w	30	ACQ_SIMCL	#12(P11)	1	n		50ul-50ml ✓

\* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.  
 Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, P11 Poor Instrument



MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/11/20		METHOD FILE(s): simcl0911120.m		METHOD(s): SimCl		BFB: V25942A		PH LOT: 1 to 12 pH lot #: 200814			
COLUMN TYPE: RTX-VMS		CALIB. DATE: 09/11/20		EM VOLTAGE: 1718V		ICAL/CC: VS0806, VS0804		0 to 3 pH lot#: 220416			
DETECTOR: 5975C MSD		BFB Response: 15262853		RUN ID: VZ2414		ISTD/SURR: VS0791		KI PAPER LOT: 060117			
INSTRUMENT: MSVOA15-z		VIAL #		MATRIX		ALS POS.		Processed BY: SO/SPIES			
PURGE PRESSURE: 9.7psi		DIL.		SAMPLE METHOD		MANUALLY INTEGRATED PEAKS		SAMPLE ID VERIFIED BY:			
PURGE VOLUME: 5 mL		-		-		RATIONAL, PEAK #		stutip			
ANALYST: STUTIP		-		-		?		DATE VERIFIED: 09/14/20			
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS	PH	CL	RR	COMMENTS
Z62205	BFB	-	-	w	1	bfb		-	-	-	Passed Autofind✓
Z62206	MB	-	-	w	2	acq_simcl0214		-	-	-	✓
Z62207	IC2414-1	-	-	w	3	acq_simcl0214		-	-	-	1ul-100ml
Z62208	IC2414-2	-	-	w	4	acq_simcl0214		-	-	-	5ul-100ml
Z62209	IC2414-3	-	-	w	5	acq_simcl0214		-	-	-	10ul-50ml
Z62210	IC2414-4	-	-	w	6	acq_simcl0214		-	-	-	25ul-50ml
Z62211	IC2414-5	-	-	w	7	acq_simcl0214		-	-	-	50ul-50ml
Z62212	IC2414-6	-	-	w	8	acq_simcl0214	op-3	-	-	-	75ul-50ml
Z62213	IC2414-7	-	-	w	9	acq_simcl0214	mp-20,op-3	-	-	-	100ul-50ml
Z62214	MB	-	-	w	10	acq_simcl0214		-	-	-	
Z62215	ICV2414-5	-	-	w	11	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62216	BS	-	-	w	12	acq_simcl0214		-	-	-	20ul-40ml✓
Z62217	MB	-	-	w	13	acq_simcl0214		-	-	-	xNot used
Z62218	MB	-	-	w	14	acq_simcl0214		-	-	-	ND✓
Z62219	FA78573-1	-	2	w	15	acq_simcl0214		1	NO	-	✓
Z62220	FA78573-2	-	2	w	16	acq_simcl0214		1	NO	-	✓
Z62221	FA78573-3	-	2	w	17	acq_simcl0214		1	NO	-	ND✓
Z62222	FA78573-4	-	2	w	18	acq_simcl0214		1	NO	-	ND✓
Z62223	FA78573-5	-	2	w	19	acq_simcl0214		1	NO	-	✓
Z62224	FA78573-6	-	2	w	20	acq_simcl0214		1	NO	-	✓
Z62225	FA78573-7	-	2	w	21	acq_simcl0214		1	NO	-	✓
Z62226	FA78573-8	-	2	w	22	acq_simcl0214		1	NO	-	✓
Z62227	FA78573-9	-	2	w	23	acq_simcl0214		1	NO	-	✓
Z62228	FA78573-10	-	2	w	24	acq_simcl0214		1	NO	-	✓
Z62229	FA78573-11	-	2	w	25	acq_simcl0214		1	NO	-	✓
Z62230	FA78573-12	-	2	w	26	acq_simcl0214		1	NO	-	✓
Z62231	FA78573-13	-	2	w	27	acq_simcl0214		1	NO	-	✓
Z62232	FA78573-14	-	2	w	28	acq_simcl0214		1	NO	-	ND✓
Z62233	FA78573-1MS,10	-	2	w	29	acq_simcl0214	5ml-50ml	1	NO	-	20ul-40ml✓
Z62234	FA78573-1MSD,10	-	2	w	30	acq_simcl0214	5ml-50ml	1	NO	-	20ul-40ml✓
Z62235	ECC2414-5	-	-	w	31	acq_simcl0214		-	-	-	50µL→50mL ✓

Analyst's Signature: 





MSVOA17-1A-ANALYSIS LOG

SGS -ORLANDO

DATE: 09/13/20		METHOD(s): SimCI		BFB: V25942A		PH LOT: 1 to 12 pH lot # 200814					
COLUMN TYPE: RTX-VMS		METHOD FILE(s): simcl091120.m		ICAL/CC: VS0806, VS0804		0 to 3 pH lot#: 220416					
DETECTOR: 5975C.MSD		CALIB. DATE: 09/11/20		ISTD/SURR: VS0791		KI PAPER LOT: 060117					
INSTRUMENT: MSVOA15-z		EM VOLTAGE: 1776V		ICV/QC: VS0802, VS0805		Processed BY: johnm					
PURGE PRESSURE: 9.7psi		BFB Response: 14257835		AFA: VS0418A		SAMPLE ID VERIFIED BY:					
PURGE VOLUME: 5 mL		RUN ID: VZ2417		DATE VERIFIED: 09/14/20		JuanG					
ANALYST: STUTJP											
Data File	Sample ID	DIL.	VIAL #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONAL, PEAK #	PH	CL	RR	COMMENTS
Z62286	blk	-	-	w	1	acq_simcl0214		-	-	-	✓
Z62287	blk	-	-	w	2	acq_simcl0214		-	-	-	
Z62288	bfb	-	-	w	3	bfb		-	-	-	Passed Autofind✓
Z62289	cc2414-5	-	-	w	4	acq_simcl0214		-	-	-	50µL→50mL ✓
Z62290	bs	-	-	w	1	acq_simcl0214		-	-	-	20µL→40mL ✓
Z62291	MB	-	-	w	2	acq_simcl0214		-	-	-	ND✓
Z62292	MB	-	-	w	3	acq_simcl0214		-	-	-	ND✓
Z62293	fa78549-16	1x	1	w	4	acq_simcl0214		1	n	-	✓
Z62294	fa78549-17	1x	2	w	5	acq_simcl0214		1	n	-	✓
Z62295	fa78549-18	1x	1	w	6	acq_simcl0214	#9, OP	1	n	-	✓
Z62296	fa78549-19	1x	1	w	7	acq_simcl0214		1	n	-	✓
Z62297	fa78549-20	1x	2	w	8	acq_simcl0214		1	n	-	✓
Z62298	fa78549-21	1x	1	w	9	acq_simcl0214		1	n	-	✓
Z62299	fa78549-22	1x	2	w	10	acq_simcl0214		1	n	-	✓
Z62300	fa78549-23	1x	2	w	11	acq_simcl0214		1	n	-	✓
Z62301	fa78549-24	1x	2	w	12	acq_simcl0214		1	n	-	✓
Z62302	fa78549-25	1x	2	w	13	acq_simcl0214		1	n	-	✓
Z62303	fa78549-26	1x	2	w	14	acq_simcl0214	#9, OP	1	n	-	✓
Z62304	fa78549-27	1x	1	w	15	acq_simcl0214	#9, OP	1	n	-	✓
Z62305	fa78549-28	1x	1	w	16	acq_simcl0214	#9, OP	1	n	-	✓
Z62306	fa78549-29	1x	1	w	17	acq_simcl0214	#9, OP	1	n	-	✓
Z62307	fa78564-5	1x	1	w	18	acq_simcl0214		1	n	-	ND✓
Z62308	fa78564-6	1x	1	w	19	acq_simcl0214	#9, OP	1	n	-	ND✓
Z62309	fa78576-1	1x	1	w	20	acq_simcl0214		1	n	-	✓
Z62310	fa78576-2	1x	1	w	21	acq_simcl0214		1	n	-	✓
Z62311	fa78576-3	1x	1	w	22	acq_simcl0214		1	n	-	✓
Z62312	fa78576-4	1x	1	w	23	acq_simcl0214		1	n	-	✓
Z62313	fa78576-5	1x	1	w	24	acq_simcl0214		1	n	-	✓
Z62314	fa78549-16ms	1x	5	w	25	acq_simcl0214		1	n	-	20µL→40mL ✓
Z62315	fa78549-16msd	1x	6	w	26	acq_simcl0214		1	n	-	20µL→40mL ✓
Z62316	fa78576-2ms	1x	2	w	27	acq_simcl0214		1	n	-	20µL→40mL ✓
Z62317	fa78576-2msd	1x	2	w	28	acq_simcl0214		1	n	-	20µL→40mL ✓
Z62318	ecc2414-5	-	-	w	29	acq_simcl0214		-	-	-	50µL→50mL ✓

Analyst's Signature:

## **APPENDIX B**

### Select Monitoring Wells COC Trends

**Table B1. Well Trend Figure List**

By Well ID/Figure #			
Figure #B	Well ID	Hydraulic Zone	EISB Deployment Area
<b>A-Aquifer</b>			
1	EISB-EW-01	5	Pilot Study
2	EISB-EW-02	5	Pilot Study
3	EISB-EW-09	5	Pilot Study
4	EISB-MW-01	5	Pilot Study
5	EW-BW-109-A	1	1C
6	EW-BW-112-A	1	1C
7	EW-BW-119-A	1	1C
8	EW-BW-124-A	4	2A
9	EW-BW-129-A	4	2A
10	EW-BW-132-A	4	2B
11	EW-BW-135-A	4	2A
12	EW-BW-149-A	4	2B
13	EW-BW-150-A	4	2B
14	EW-BW-155-A	4	2B
15	EW-BW-160-A	2	3A
16	EW-BW-165-A	3	3A
17	EW-BW-166-A	3	3A
18	EW-BW-167-A	3	3A
19	EW-BW-168-A	3	3A
20	EW-BW-169-A	3	3A
21	MP-BW-46-095	1	1C
22	MW-B-14-A	4	2B
23	MW-BW-15-A	4	2B
24	MW-BW-17-A	4	2A
25	MW-BW-24-A	1	None
26	MW-BW-26-A	4	2A
27	MW-BW-28-A	4	None
28	MW-BW-31-A	4	None
29	MW-BW-32-A	4	None
30	MW-BW-35-A	4	None
31	MW-BW-36-A	4	None
32	MW-BW-42-A	4	None
33	MW-BW-49-A	5	None
34	MW-BW-56-A	3	3A
35	MW-BW-60-A	4	2B
36	MW-BW-65-A	5	None
37	MW-BW-66-A	5	Pilot Study
38	MW-BW-74-A	5	None
39	MW-BW-75-A	5	None
40	MW-BW-79-A	5	None
41	MW-BW-80-A	5	None

**Table B1. Well Trend Figure List**

Figure #B	Well ID	Hydraulic Zone	EISB Deployment Area
42	MW-BW-82-A	5	None
43	MW-BW-85-A	2	None
44	MW-BW-87-A	2	3A
45	MW-BW-88-A	3	None
46	MW-BW-89-A	3	None
47	MW-BW-90-A	2	None
48	MW-BW-91-A	2	3A
49	MW-BW-92-A	4	None
50	MW-BW-93-A	3	None
51	MW-BW-94-AR	2	None
52	MW-BW-95-A	3	None
<b>Upper 180-Foot Aquifer</b>			
53	EW-OU2-09-180	6	N/A
54	MP-BW-46-170	6	N/A
55	MW-BW-52-180	6	N/A
56	MW-BW-57-180	6	N/A
57	MW-OU2-64-180	6	N/A
58	MW-OU2-67-180	6	N/A
<b>Lower 180-Foot Aquifer</b>			
59	Airfield	8	N/A
60	EW-OU2-07-180	N/A	N/A
61	FO-29	N/A	N/A
62	FO-30	N/A	N/A
63	FO-31	N/A	N/A
64	Mini-Storage	8	N/A
65	MP-BW-31-292	8	N/A
66	MP-BW-41-353	N/A	N/A
67	MP-BW-42-345	N/A	N/A
68	MP-BW-49-316	7	N/A
69	MP-BW-49-400	7	N/A
70	MP-BW-50-339	7	N/A
71	MP-BW-50-384	7	N/A
72	MP-BW-51-405	7	N/A
73	MW-BW-04-180	N/A	N/A
74	MW-BW-59-180	N/A	N/A
75	MW-OU2-69-180	7	N/A
76	MW-OU2-72-180	N/A	N/A
77	MW-OU2-82-180	N/A	N/A

**Notes:**

#: number

EISB: enhanced in-situ bioremediation

**Table B1. Well Trend Figure List**

By Hydraulic Zone			
Figure #B	Well ID	Hydraulic Zone	EISB Deployment Area
<b>A-Aquifer</b>			
5	EW-BW-109-A	1	1C
6	EW-BW-112-A	1	1C
7	EW-BW-119-A	1	1C
21	MP-BW-46-095	1	1C
25	MW-BW-24-A	1	None
15	EW-BW-160-A	2	3A
43	MW-BW-85-A	2	None
44	MW-BW-87-A	2	3A
47	MW-BW-90-A	2	None
48	MW-BW-91-A	2	3A
51	MW-BW-94-AR	2	None
16	EW-BW-165-A	3	3A
17	EW-BW-166-A	3	3A
18	EW-BW-167-A	3	3A
19	EW-BW-168-A	3	3A
20	EW-BW-169-A	3	3A
34	MW-BW-56-A	3	3A
45	MW-BW-88-A	3	None
46	MW-BW-89-A	3	None
50	MW-BW-93-A	3	None
52	MW-BW-95-A	3	None
8	EW-BW-124-A	4	2A
9	EW-BW-129-A	4	2A
10	EW-BW-132-A	4	2B
11	EW-BW-135-A	4	2A
12	EW-BW-149-A	4	2B
13	EW-BW-150-A	4	2B
14	EW-BW-155-A	4	2B
22	MW-B-14-A	4	2B
23	MW-BW-15-A	4	2B
24	MW-BW-17-A	4	2A
26	MW-BW-26-A	4	2A
27	MW-BW-28-A	4	None
28	MW-BW-31-A	4	None
29	MW-BW-32-A	4	None
30	MW-BW-35-A	4	None
31	MW-BW-36-A	4	None
32	MW-BW-42-A	4	None
35	MW-BW-60-A	4	2B
49	MW-BW-92-A	4	None
1	EISB-EW-01	5	Pilot Study

**Table B1. Well Trend Figure List**

Figure #B	Well ID	Hydraulic Zone	EISB Deployment Area
2	EISB-EW-02	5	Pilot Study
3	EISB-EW-09	5	Pilot Study
4	EISB-MW-01	5	Pilot Study
33	MW-BW-49-A	5	None
36	MW-BW-65-A	5	None
37	MW-BW-66-A	5	Pilot Study
38	MW-BW-74-A	5	None
39	MW-BW-75-A	5	None
40	MW-BW-79-A	5	None
41	MW-BW-80-A	5	None
42	MW-BW-82-A	5	None
<b>Upper 180-Foot Aquifer</b>			
53	EW-OU2-09-180	6	N/A
54	MP-BW-46-170	6	N/A
55	MW-BW-52-180	6	N/A
56	MW-BW-57-180	6	N/A
57	MW-OU2-64-180	6	N/A
58	MW-OU2-67-180	6	N/A
<b>Lower 180-Foot Aquifer</b>			
68	MP-BW-49-316	7	N/A
69	MP-BW-49-400	7	N/A
70	MP-BW-50-339	7	N/A
71	MP-BW-50-384	7	N/A
72	MP-BW-51-405	7	N/A
75	MW-OU2-69-180	7	N/A
59	Airfield	8	N/A
64	Mini-Storage	8	N/A
65	MP-BW-31-292	8	N/A
60	EW-OU2-07-180	N/A	N/A
61	FO-29	N/A	N/A
62	FO-30	N/A	N/A
63	FO-31	N/A	N/A
66	MP-BW-41-353	N/A	N/A
67	MP-BW-42-345	N/A	N/A
73	MW-BW-04-180	N/A	N/A
74	MW-BW-59-180	N/A	N/A
76	MW-OU2-72-180	N/A	N/A
77	MW-OU2-82-180	N/A	N/A

**Notes:**

#: number

EISB: enhanced in-situ bioremediation

**Table B1. Well Trend Figure List**

By EISB Deployment Area (A-Aquifer only)			
Figure #B	Well ID	Hydraulic Zone	EISB Deployment Area
<b>A-Aquifer</b>			
1	EISB-EW-01	5	Pilot Study
2	EISB-EW-02	5	Pilot Study
3	EISB-EW-09	5	Pilot Study
4	EISB-MW-01	5	Pilot Study
37	MW-BW-66-A	5	Pilot Study
5	EW-BW-109-A	1	1C
6	EW-BW-112-A	1	1C
7	EW-BW-119-A	1	1C
21	MP-BW-46-095	1	1C
8	EW-BW-124-A	4	2A
9	EW-BW-129-A	4	2A
11	EW-BW-135-A	4	2A
24	MW-BW-17-A	4	2A
26	MW-BW-26-A	4	2A
10	EW-BW-132-A	4	2B
12	EW-BW-149-A	4	2B
13	EW-BW-150-A	4	2B
14	EW-BW-155-A	4	2B
22	MW-B-14-A	4	2B
23	MW-BW-15-A	4	2B
35	MW-BW-60-A	4	2B
15	EW-BW-160-A	2	3A
16	EW-BW-165-A	3	3A
17	EW-BW-166-A	3	3A
18	EW-BW-167-A	3	3A
19	EW-BW-168-A	3	3A
20	EW-BW-169-A	3	3A
34	MW-BW-56-A	3	3A
44	MW-BW-87-A	2	3A
48	MW-BW-91-A	2	3A
25	MW-BW-24-A	1	None
27	MW-BW-28-A	4	None
28	MW-BW-31-A	4	None
29	MW-BW-32-A	4	None
30	MW-BW-35-A	4	None
31	MW-BW-36-A	4	None
32	MW-BW-42-A	4	None
33	MW-BW-49-A	5	None
36	MW-BW-65-A	5	None
38	MW-BW-74-A	5	None
39	MW-BW-75-A	5	None

**Table B1. Well Trend Figure List**

Figure #B	Well ID	Hydraulic Zone	EISB Deployment Area
40	MW-BW-79-A	5	None
41	MW-BW-80-A	5	None
42	MW-BW-82-A	5	None
43	MW-BW-85-A	2	None
45	MW-BW-88-A	3	None
46	MW-BW-89-A	3	None
47	MW-BW-90-A	2	None
49	MW-BW-92-A	4	None
50	MW-BW-93-A	3	None
51	MW-BW-94-AR	2	None
52	MW-BW-95-A	3	None

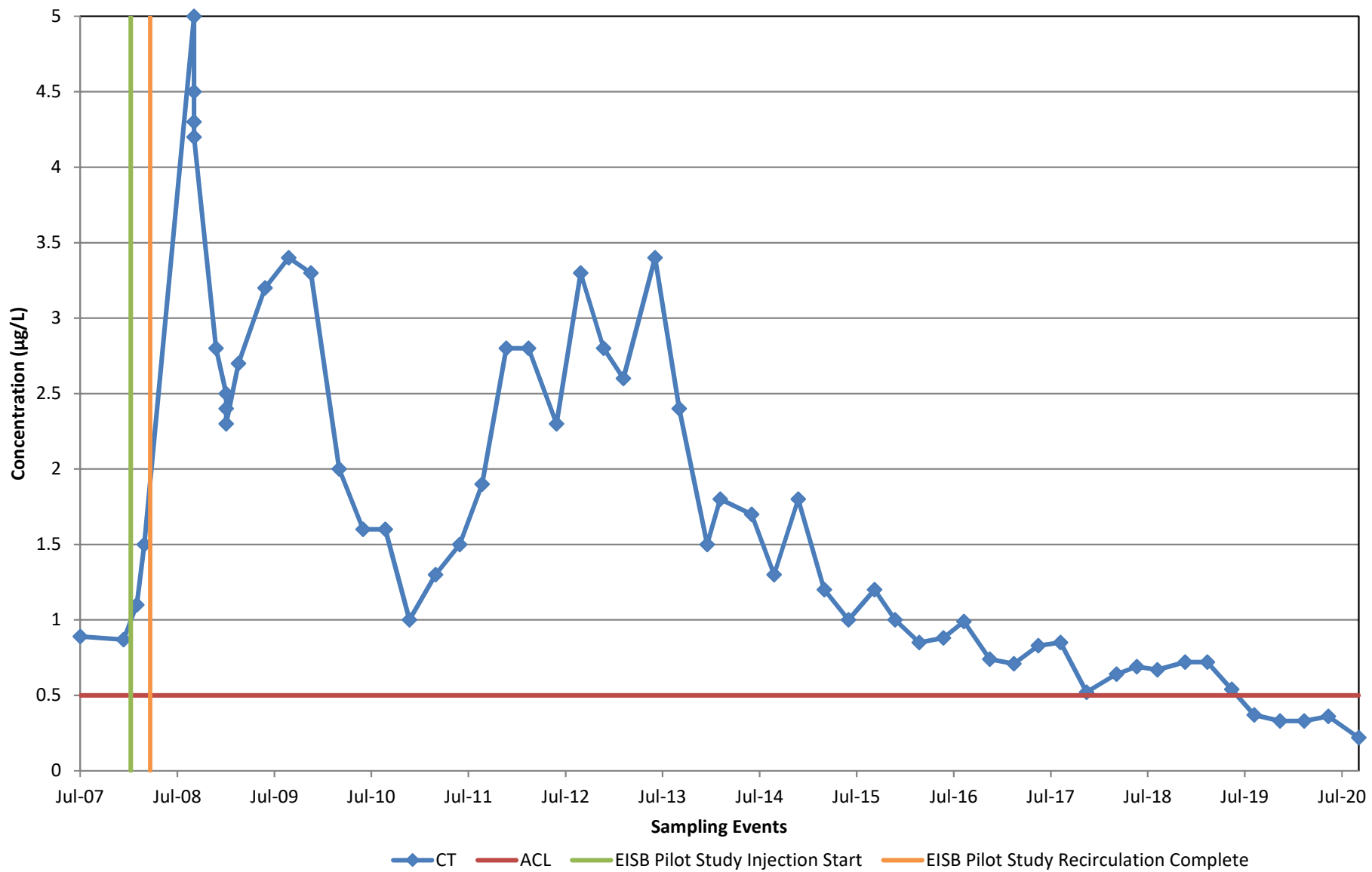
**Notes:**

#: number

EISB: enhanced in-situ bioremediation

N/A: not applicable



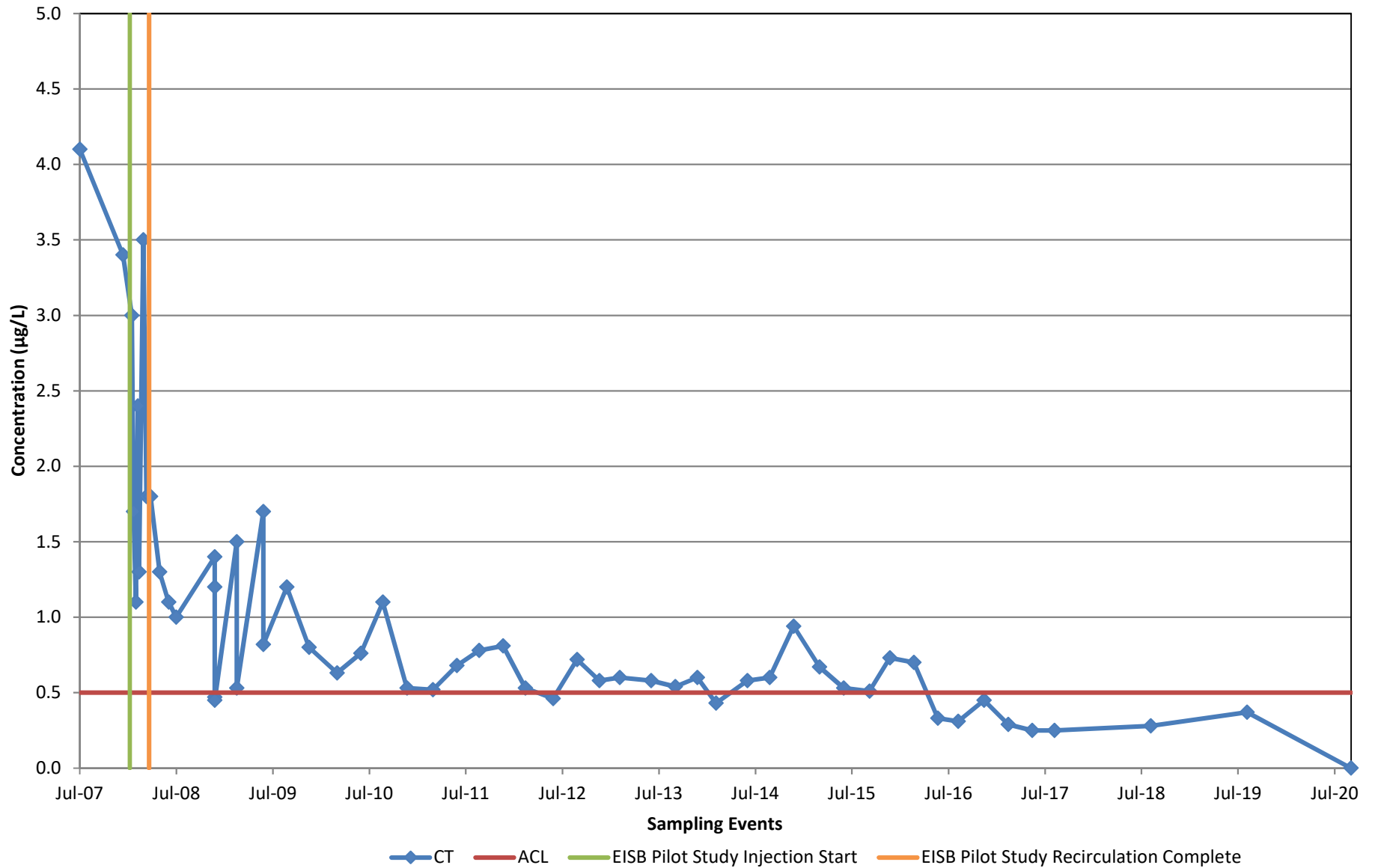


**EISB-EW-01**  
**(Hydraulic Zone 5) [EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B1**

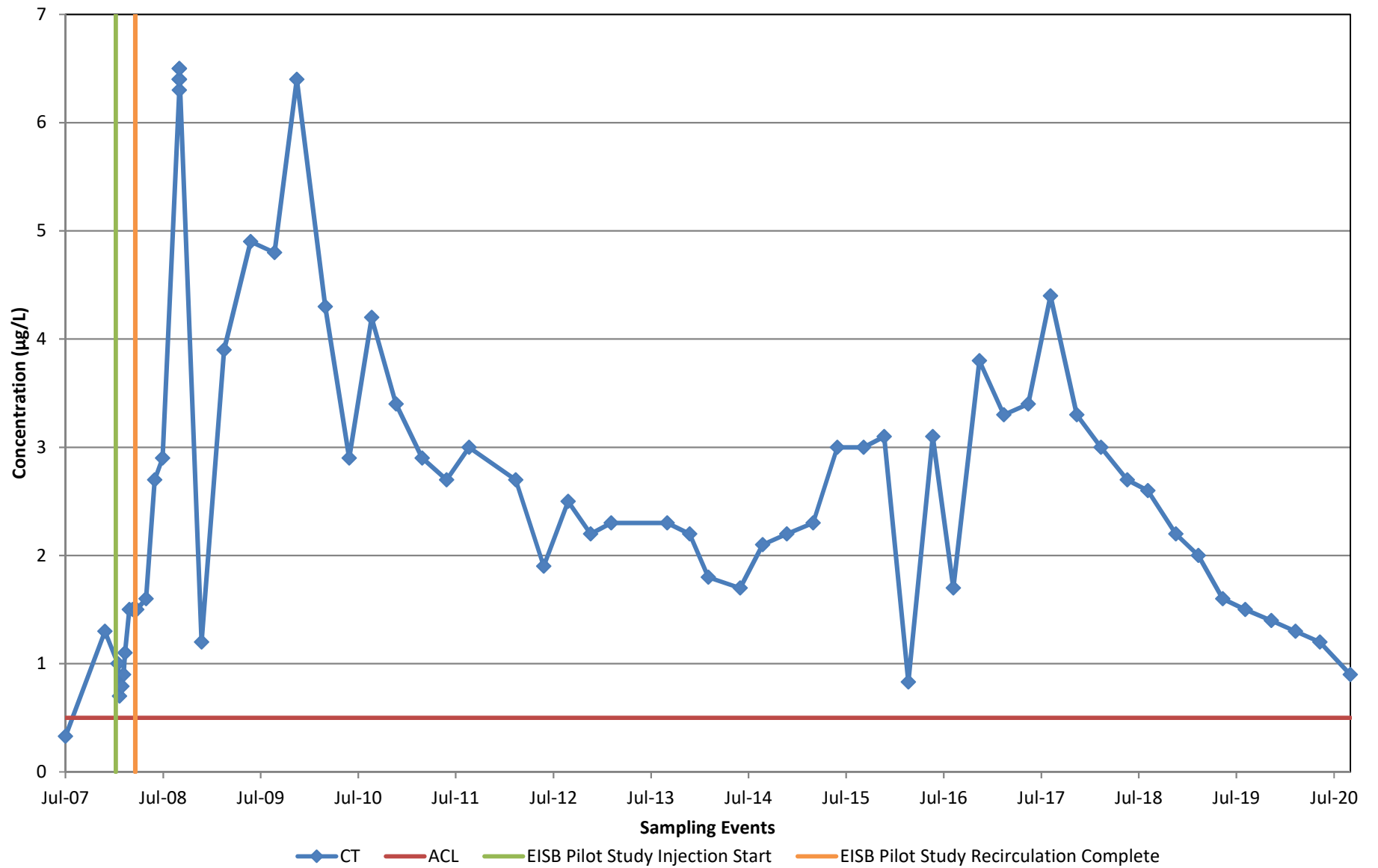


**EISB-EW-02  
(Hydraulic Zone 5) [EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B2**

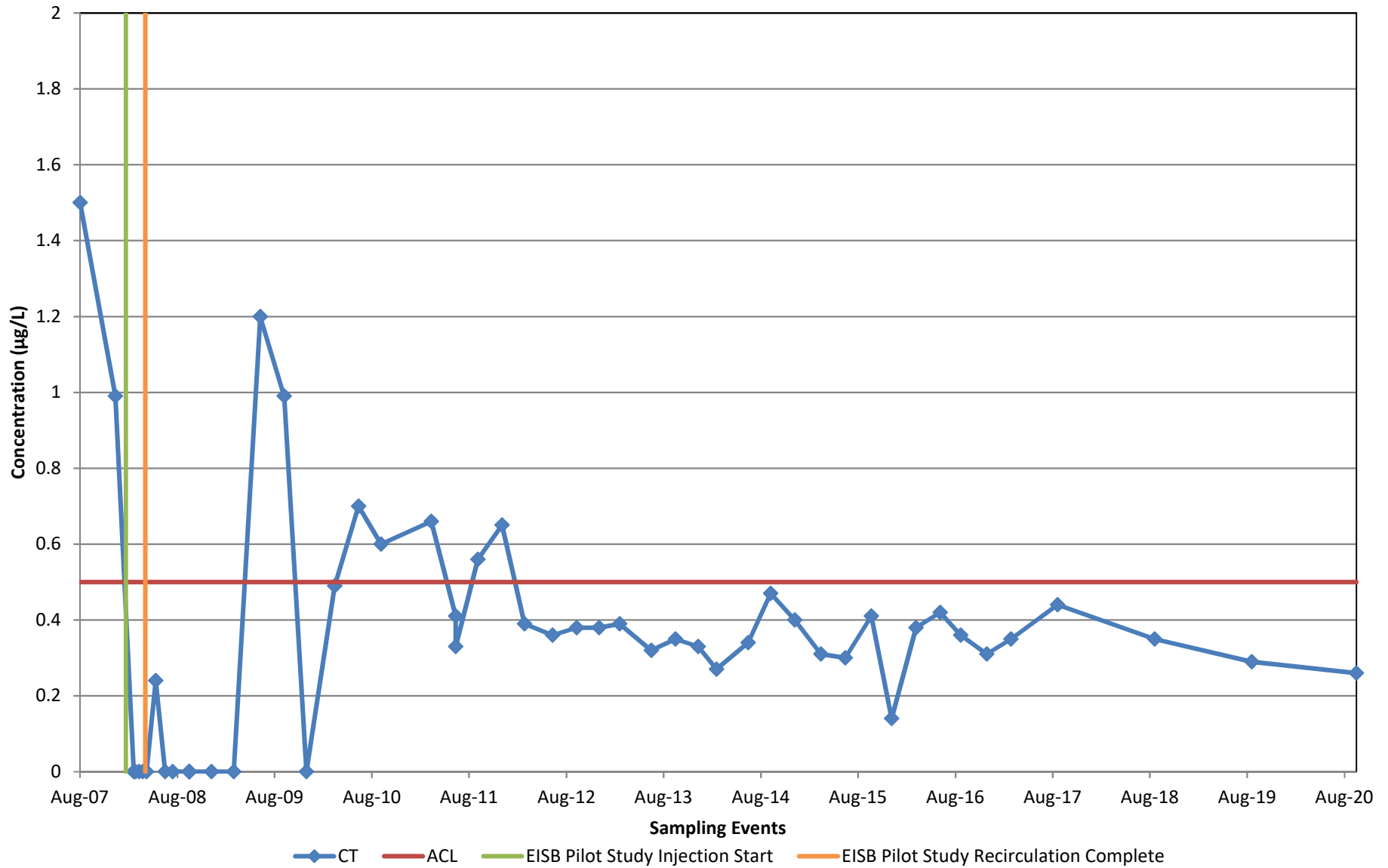


**EISB-EW-09  
(Hydraulic Zone 5) [EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B3**

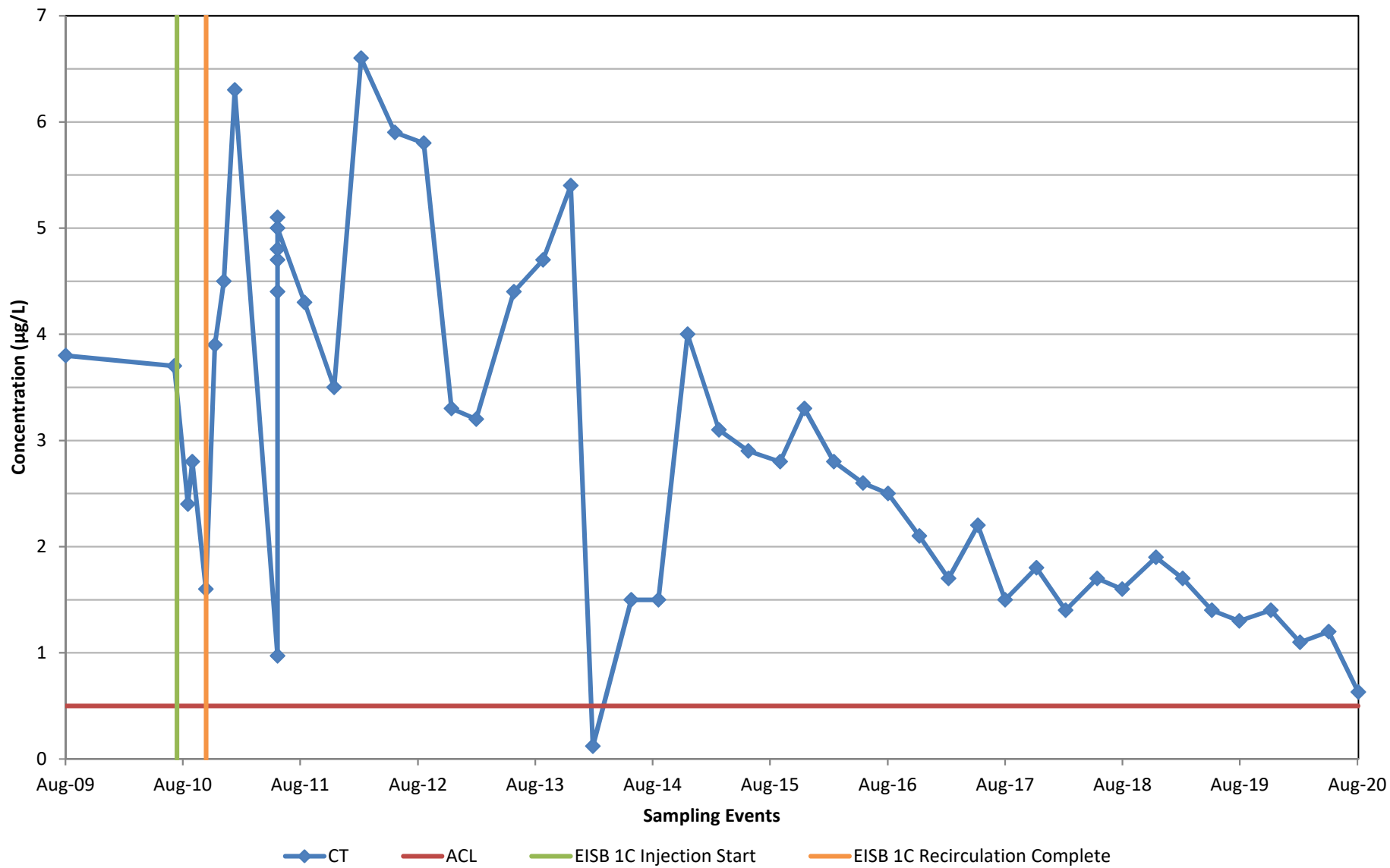


**EISB-MW-01  
(Hydraulic Zone 5) [EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B4**

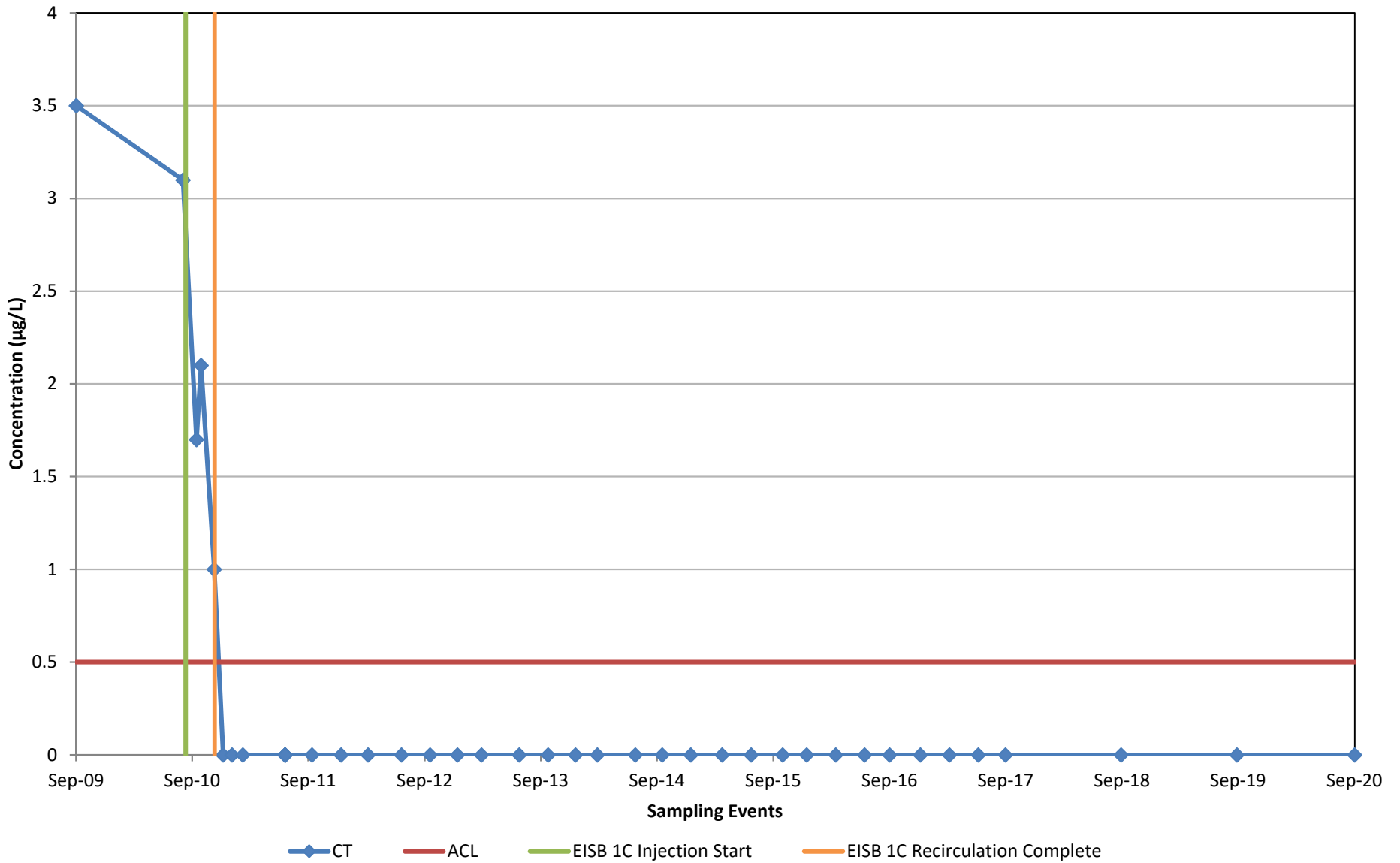


**EW-BW-109-A  
(Hydraulic Zone 1) [EISB Deployment Area 1C]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B5**

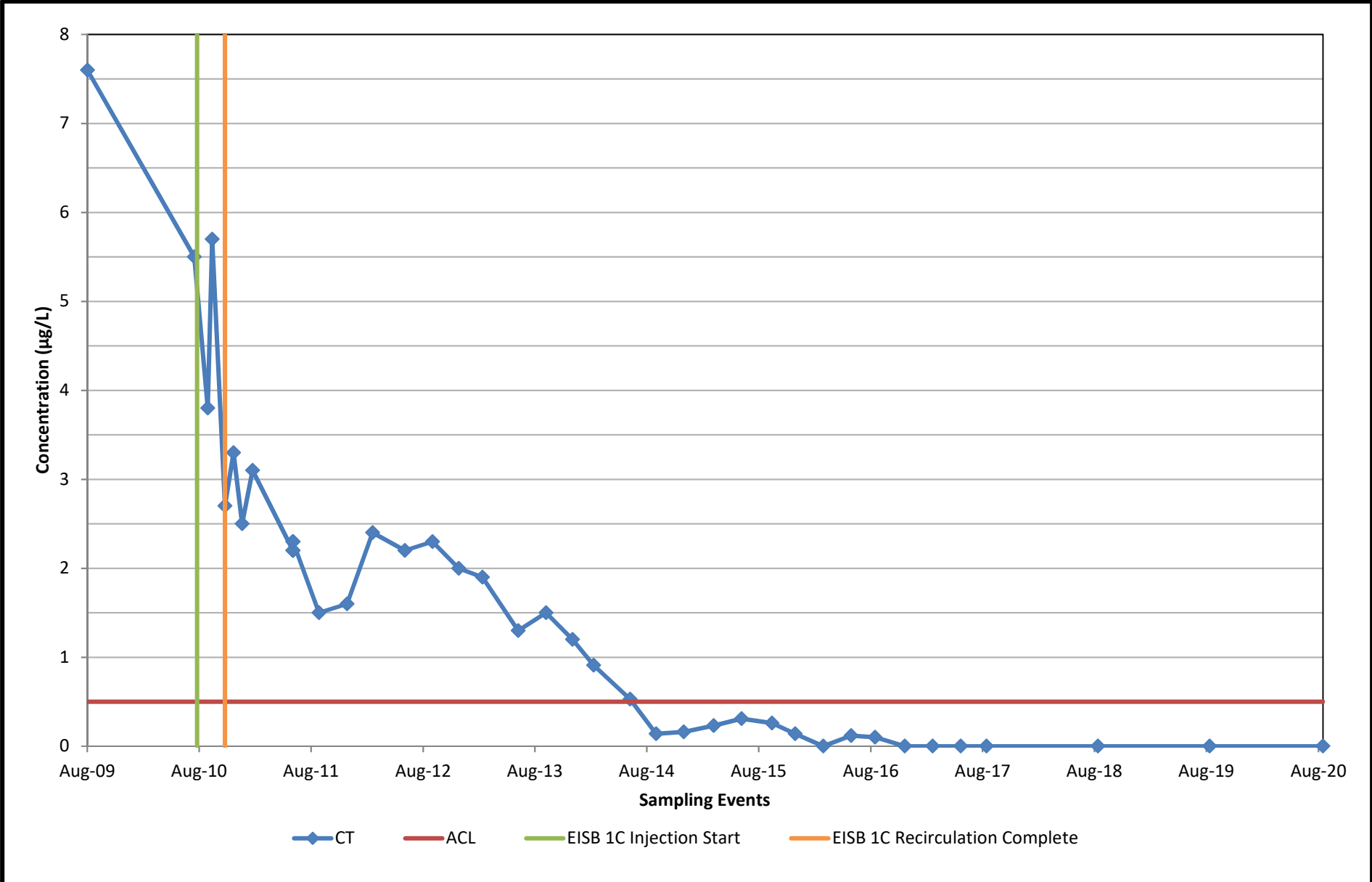


**EW-BW-112-A  
(Hydraulic Zone 1) [EISB Deployment Area 1C]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B6**

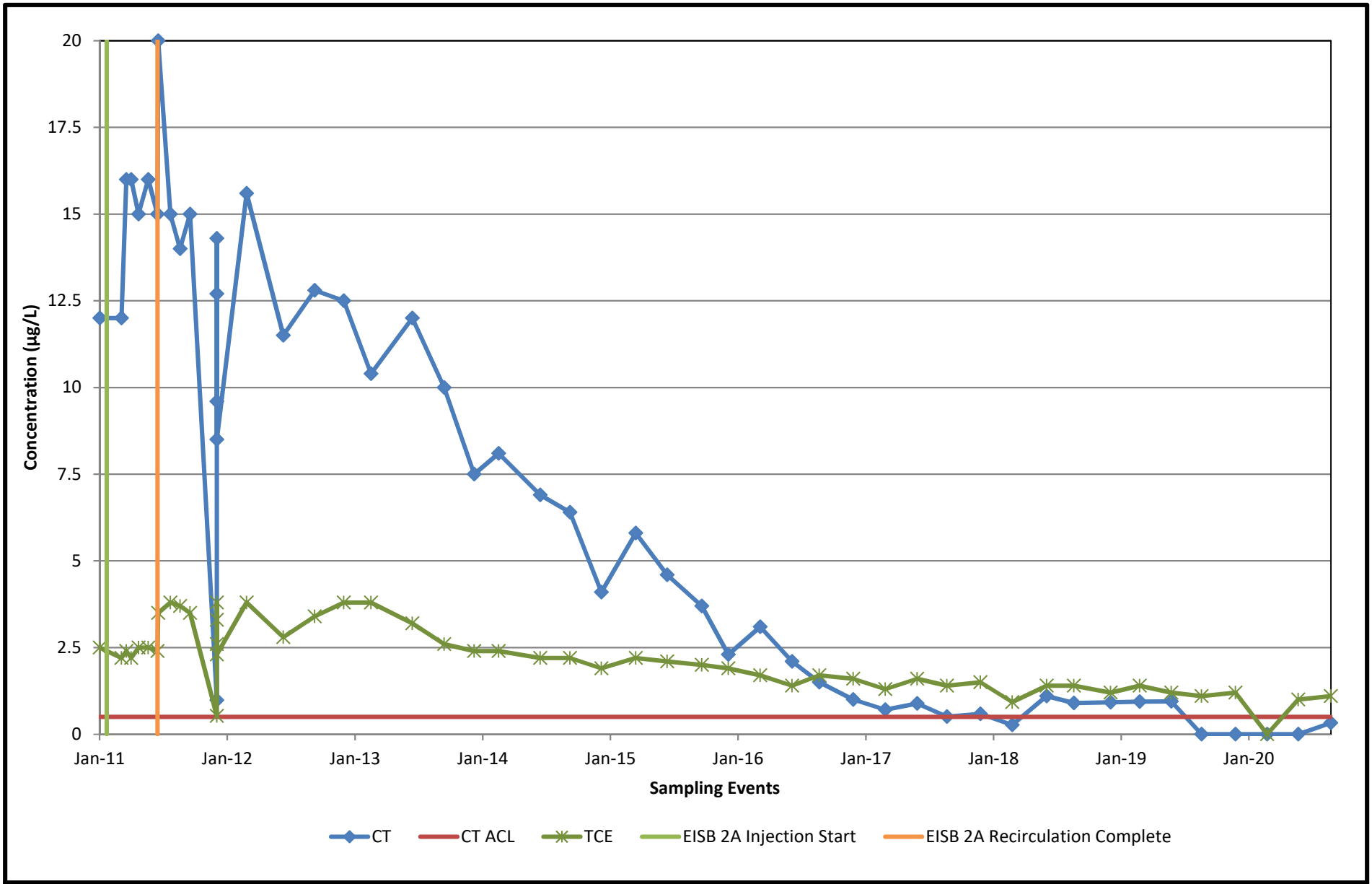


**EW-BW-119-A  
(Hydraulic Zone 1) [EISB Deployment Area 1C]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B7**

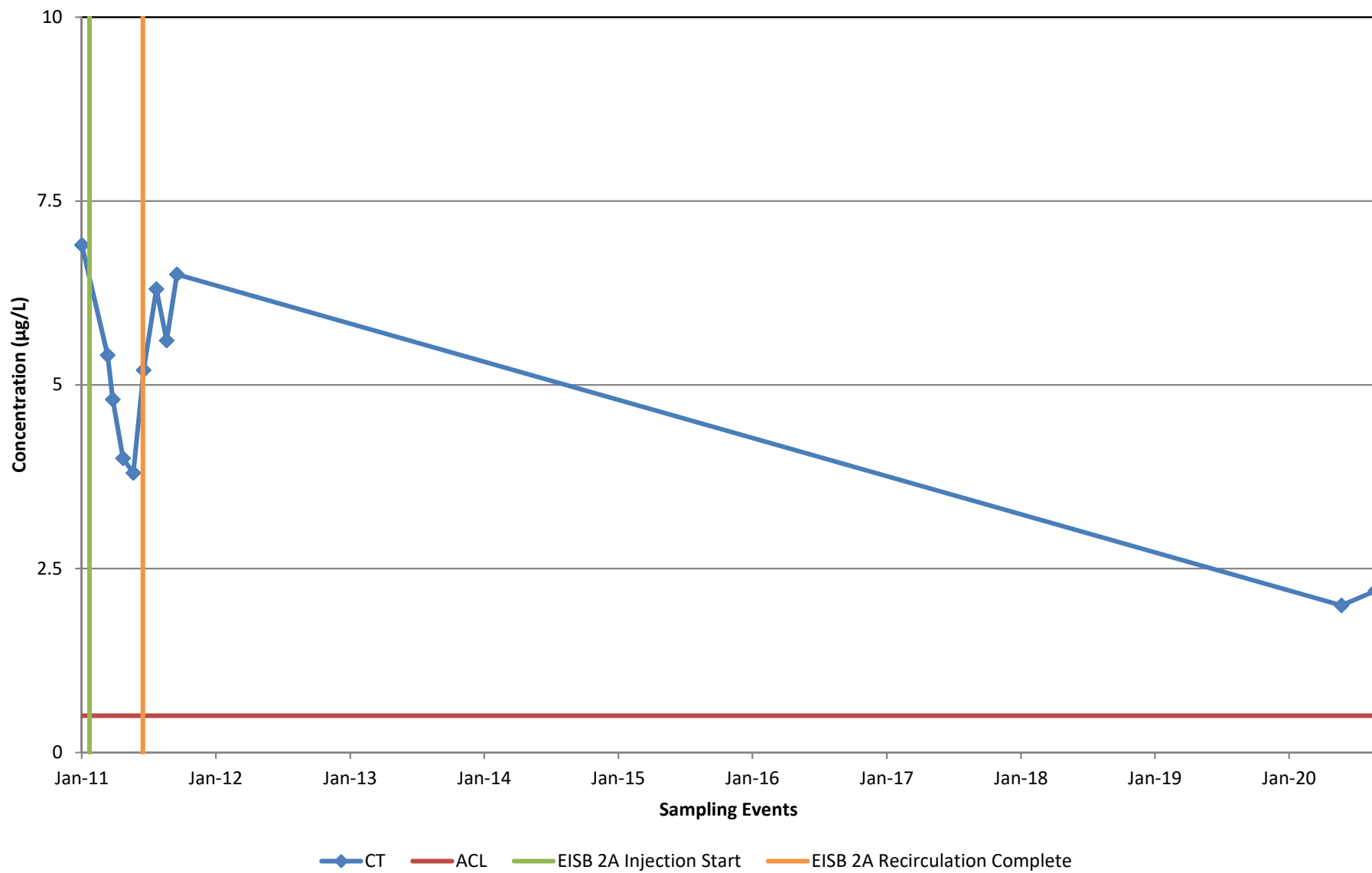


**EW-BW-124-A  
(Hydraulic Zone 4) [EISB Deployment Area 2A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B8**



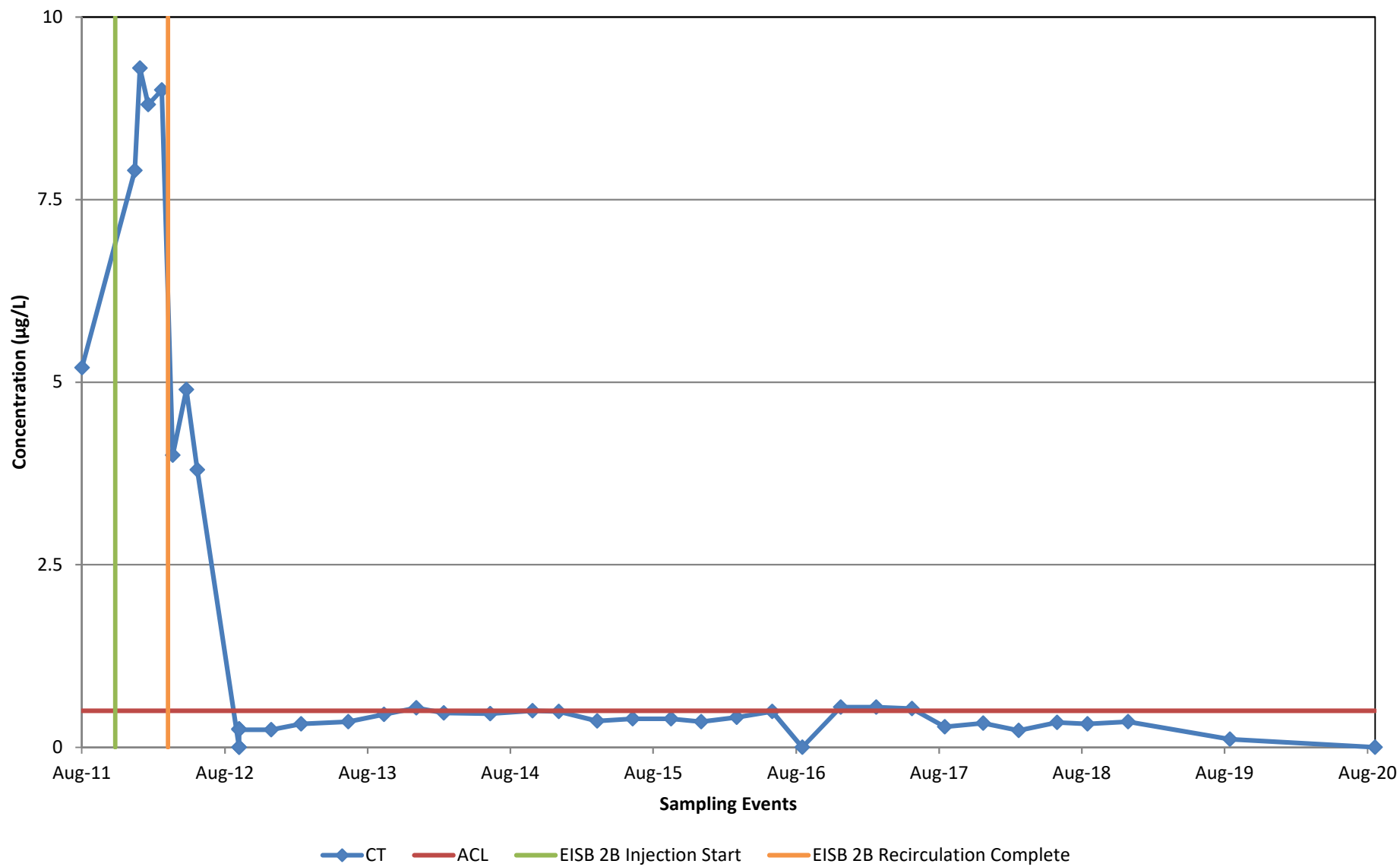


**EW-BW-129-A  
(Hydraulic Zone 4) [EISB Deployment Area 2A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B9**

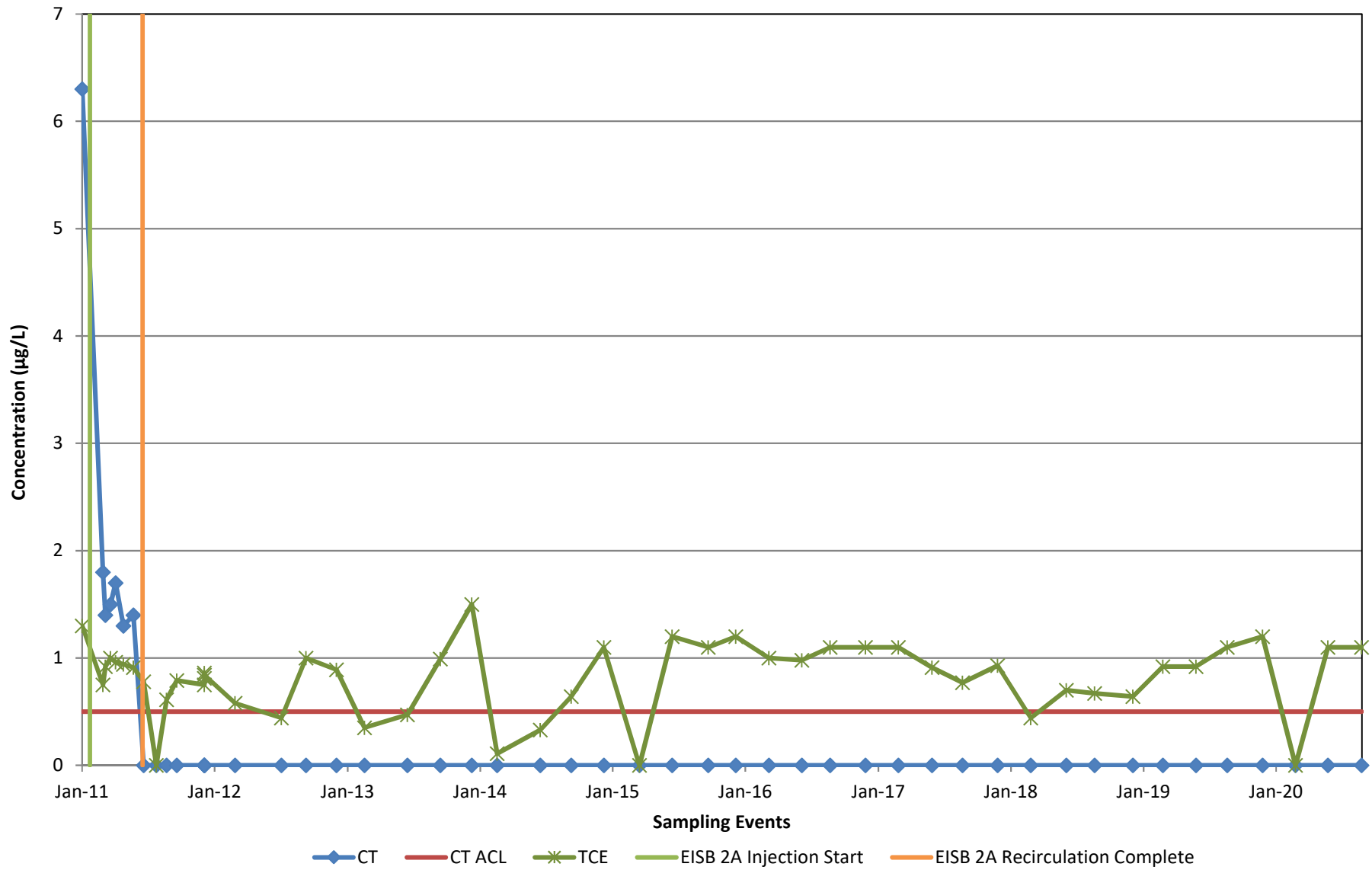


**EW-BW-132-A  
(Hydraulic Zone 4) [EISB Deployment Area 2B]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B10**



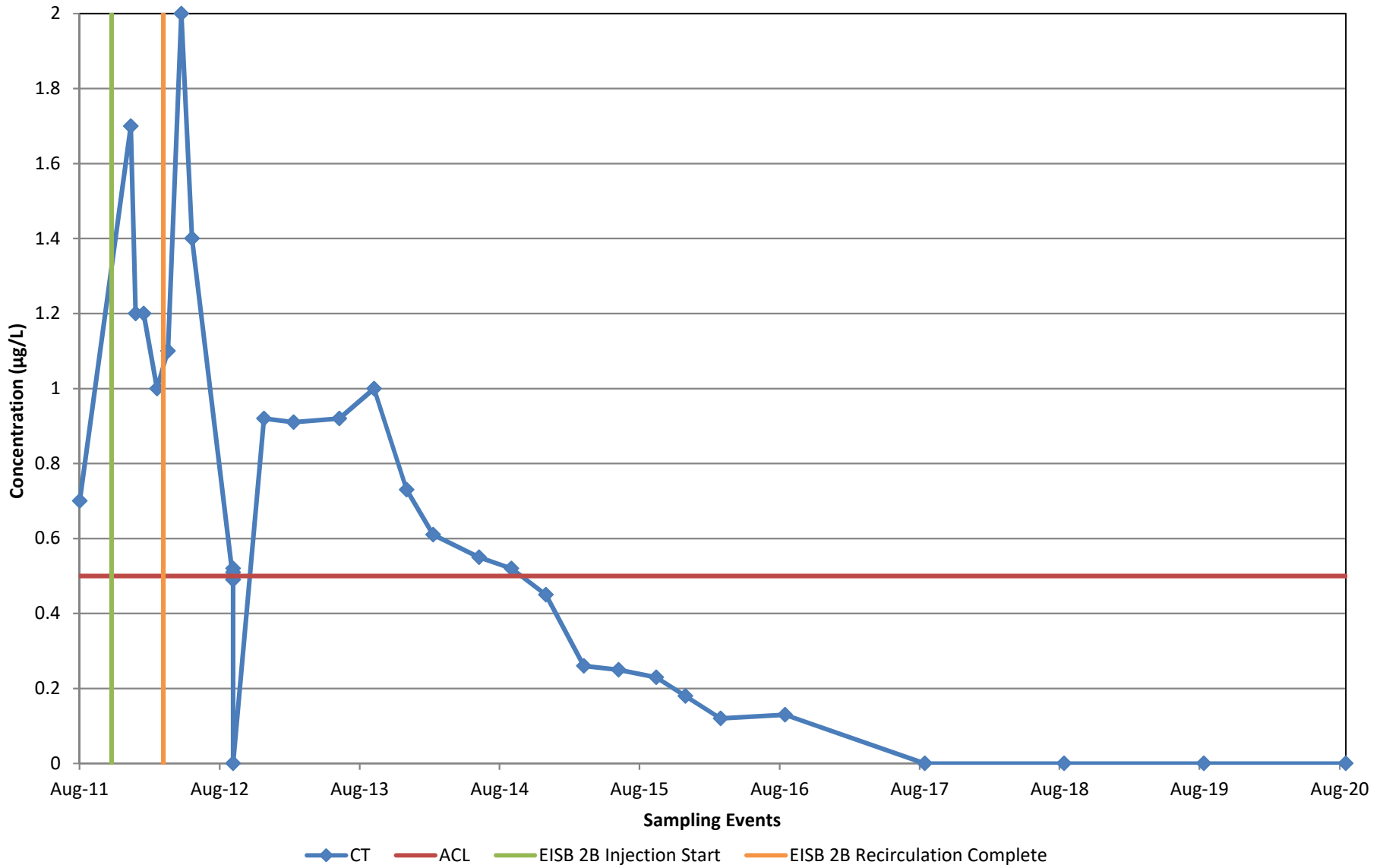
**EW-BW-135-A  
(Hydraulic Zone 4) [EISB Deployment Area 2A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B11**



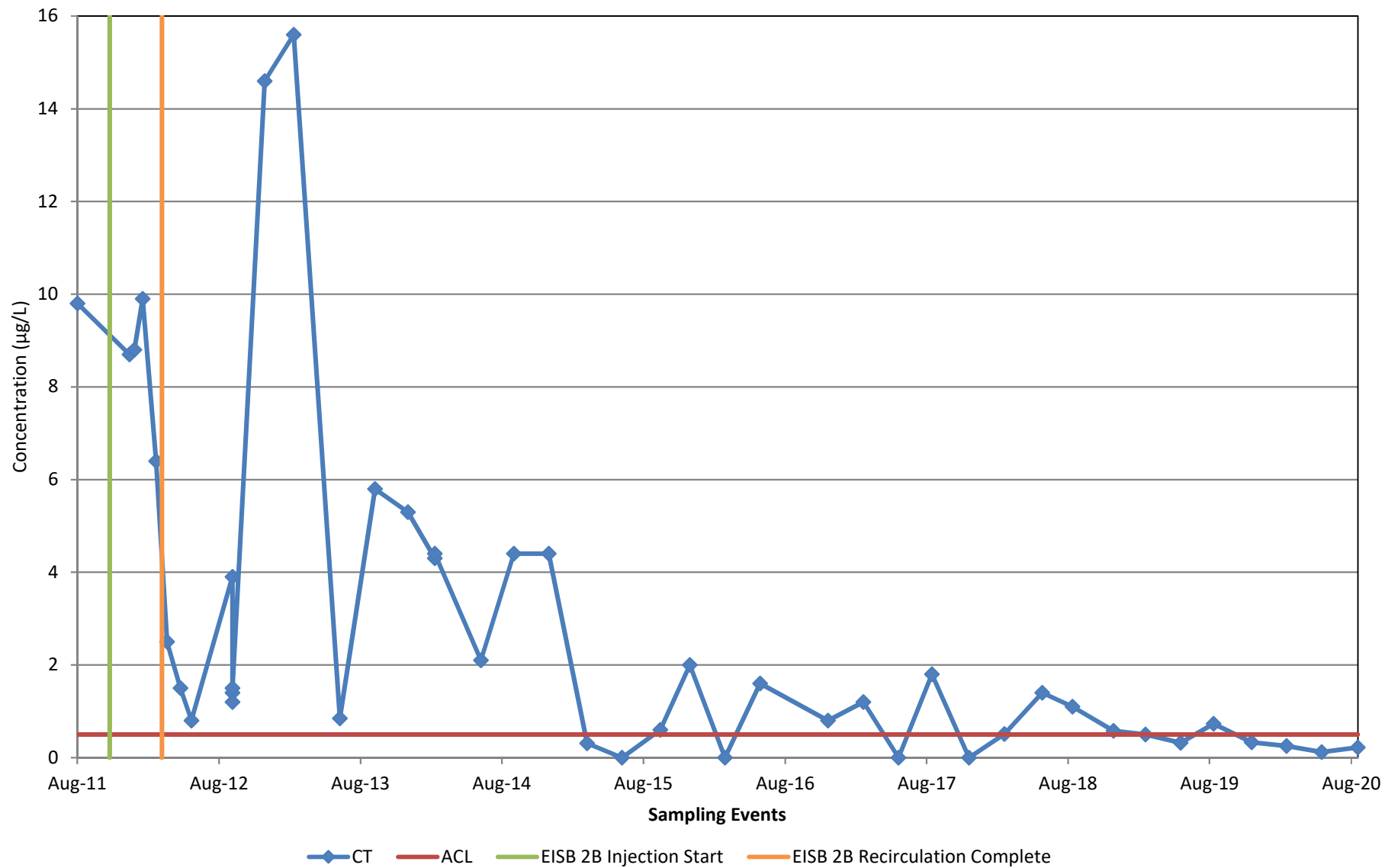


**EW-BW-150-A  
(Hydraulic Zone 4) [EISB Deployment Area 2A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B13**

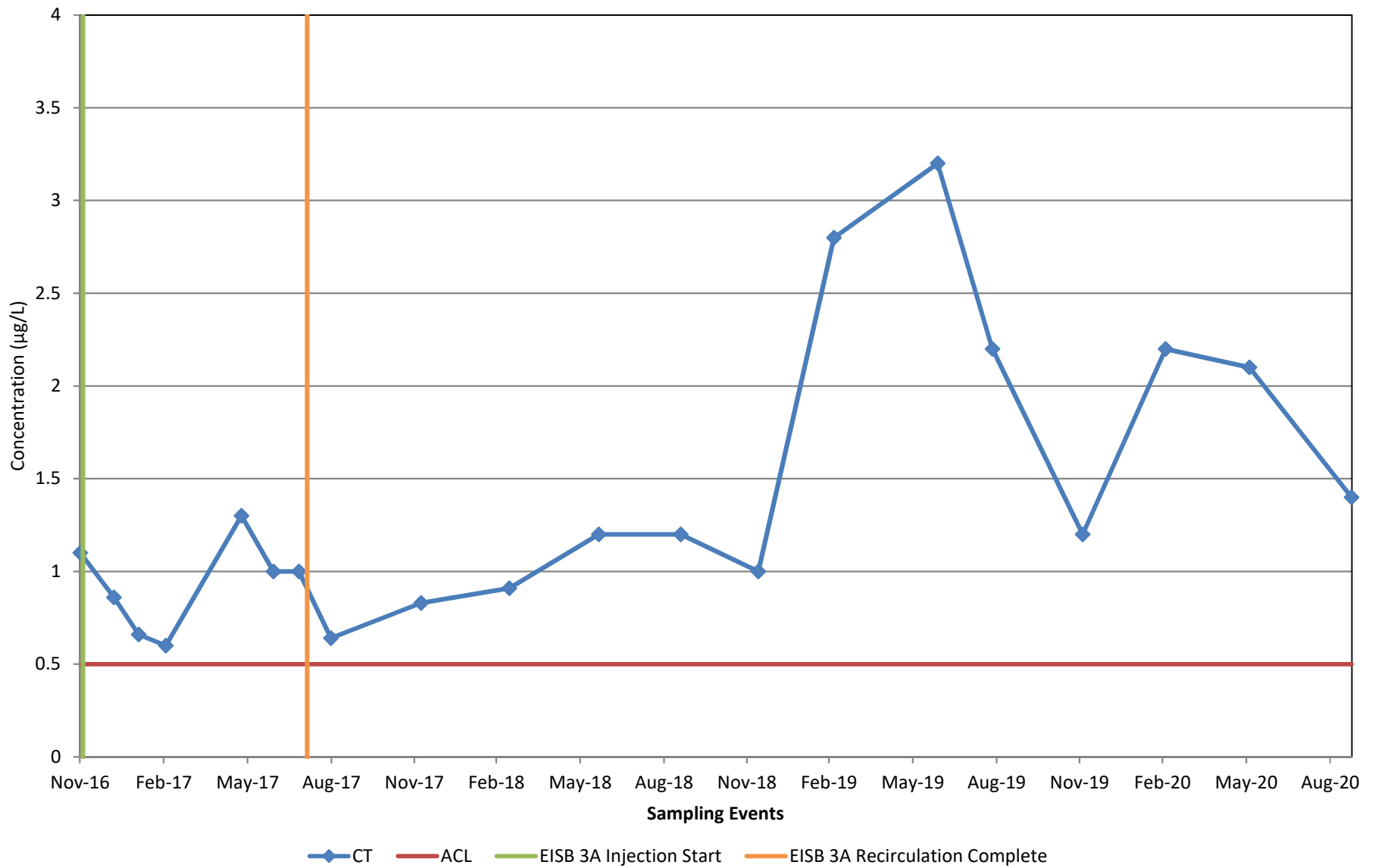


**EW-BW-155-A  
(Hydraulic Zone 4) [EISB Deployment Area 2B]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B14**

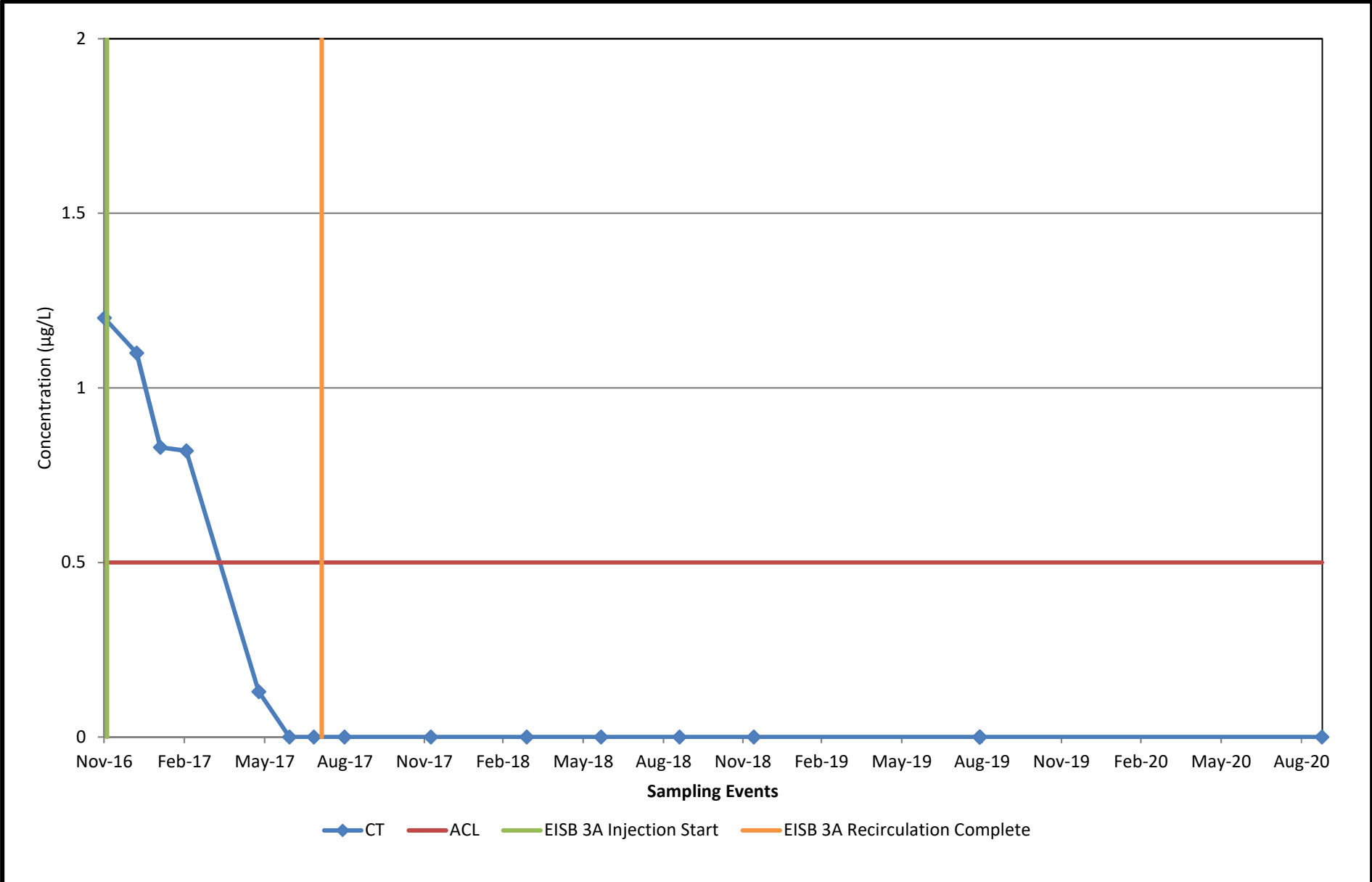


**EW-BW-160-A  
(Hydraulic Zone 2) [EISB Deployment Area 3A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B15**



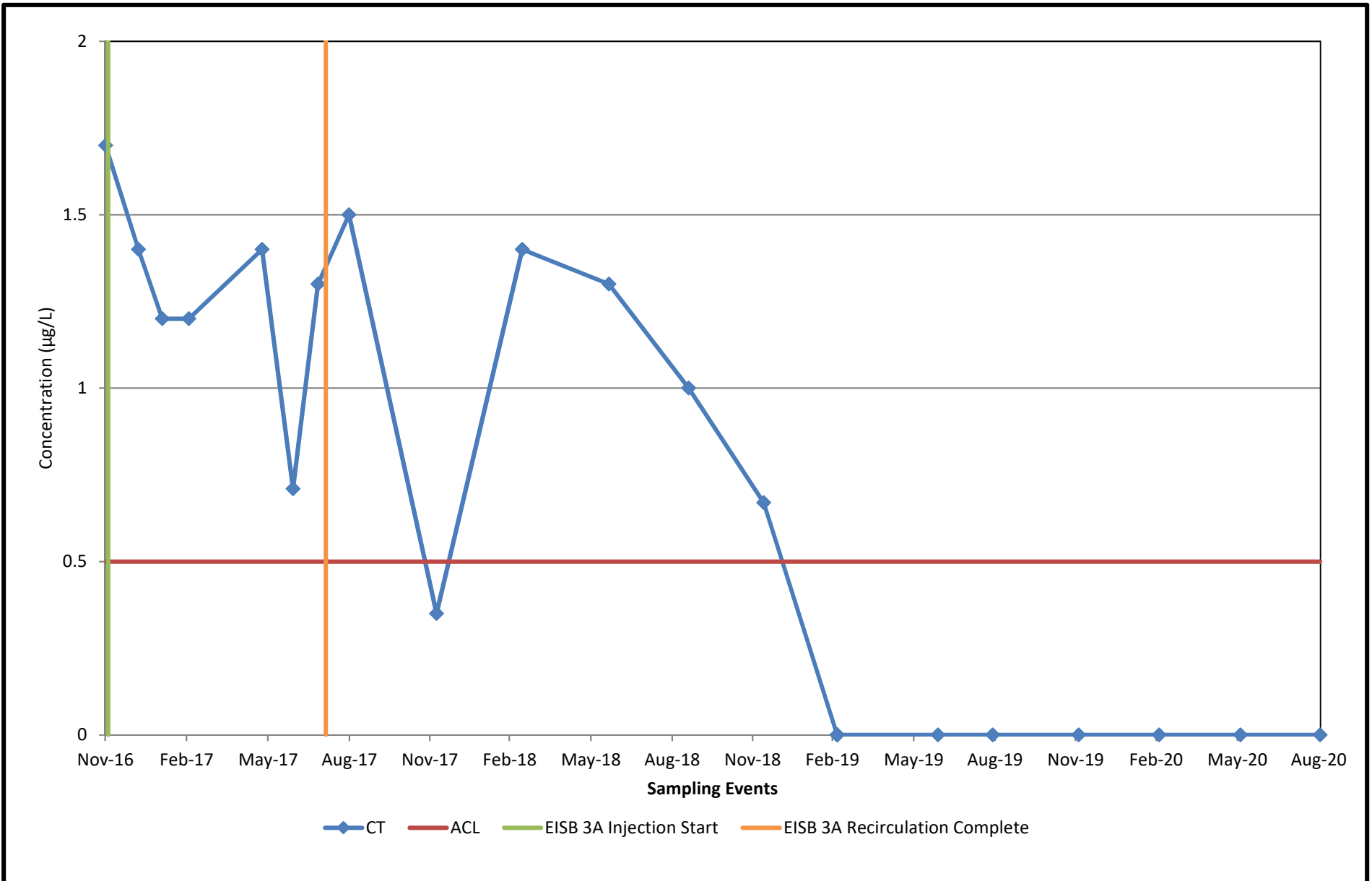
**EW-BW-165-A  
(Hydraulic Zone 3) [EISB Deployment Area 3A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B16**



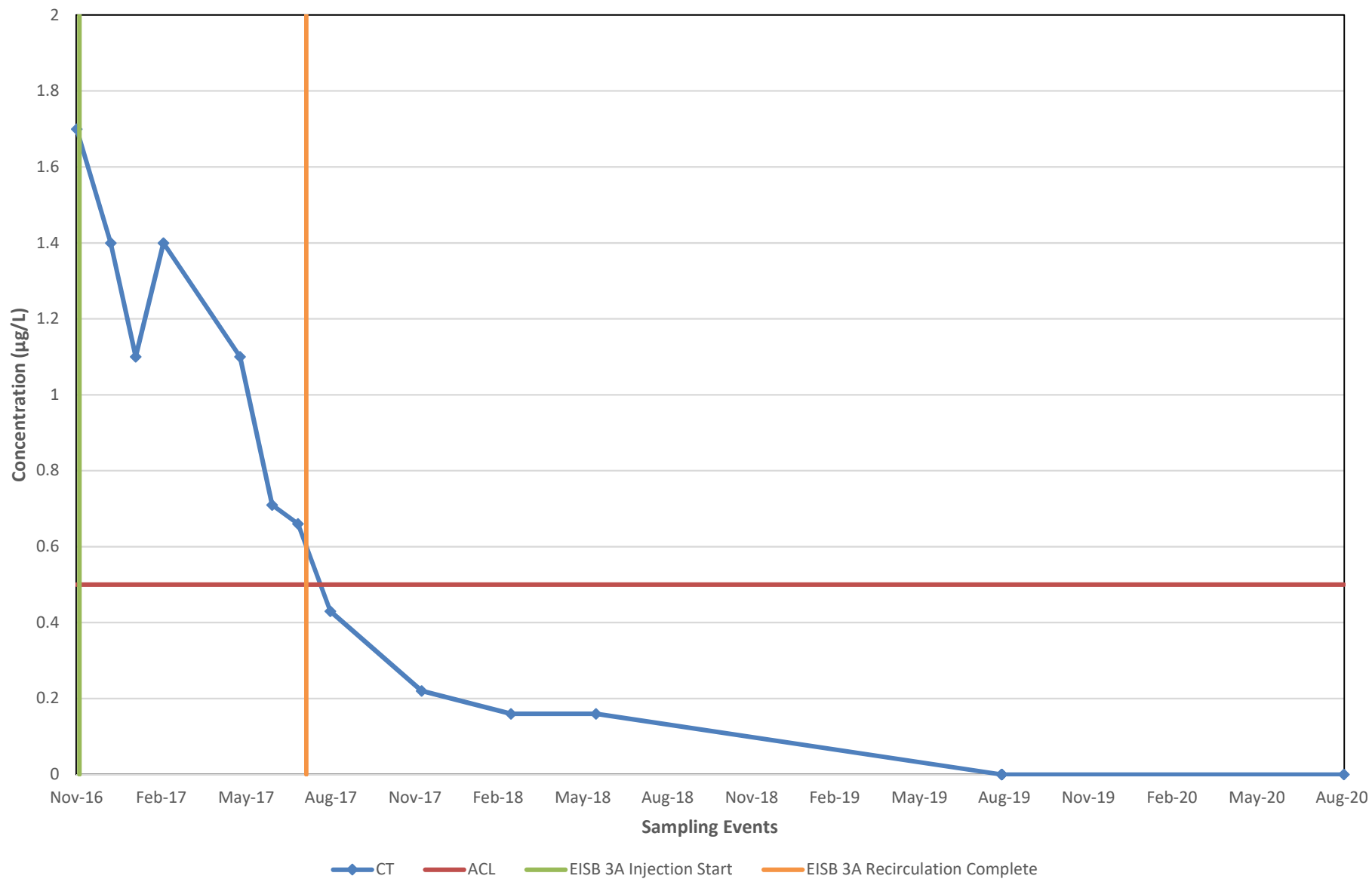


**EW-BW-166-A  
(Hydraulic Zone 3) [EISB Deployment Area 3A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

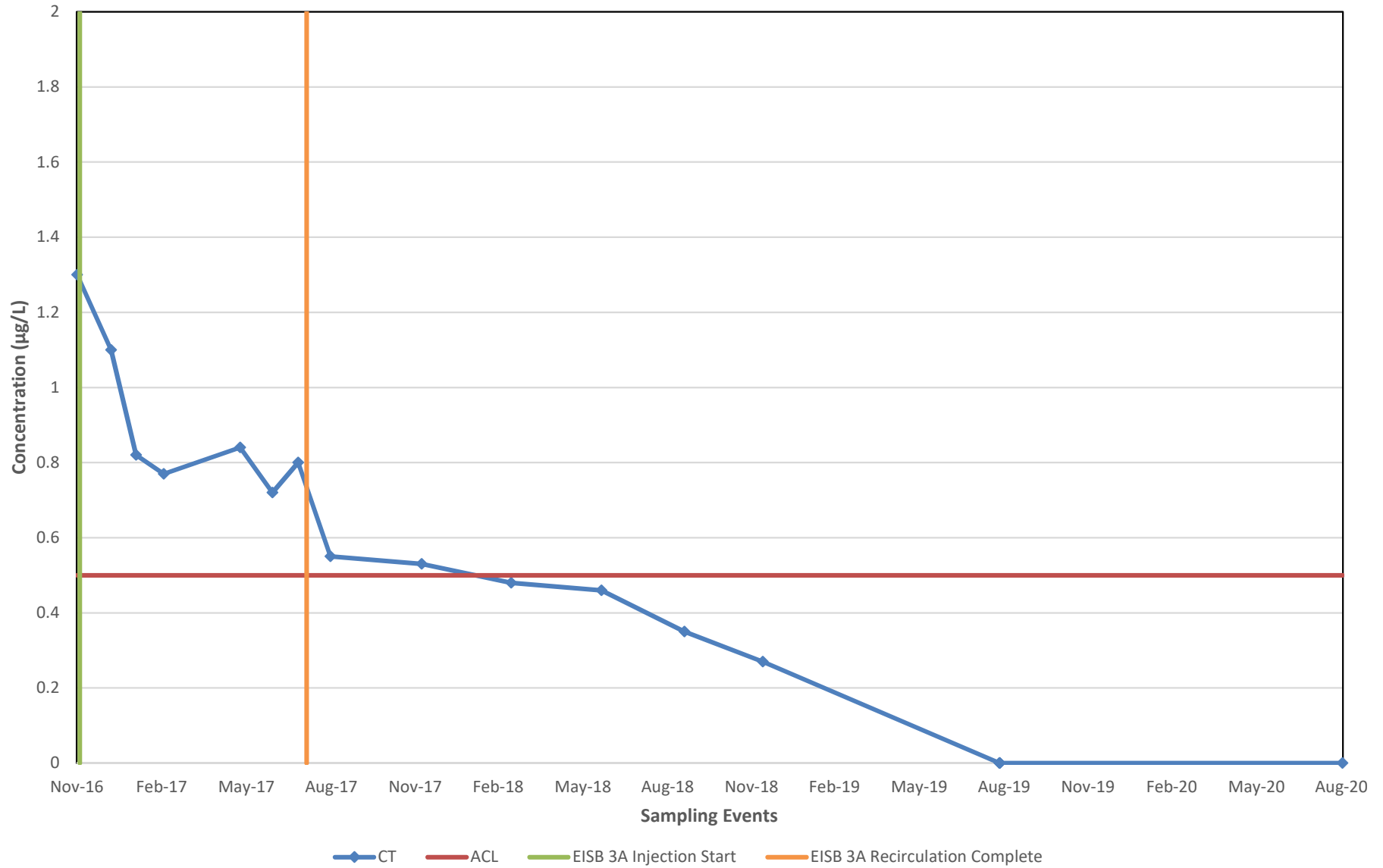
**B17**



**EW-BW-167-A  
(Hydraulic Zone 3) [EISB Deployment Area 3A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B18**

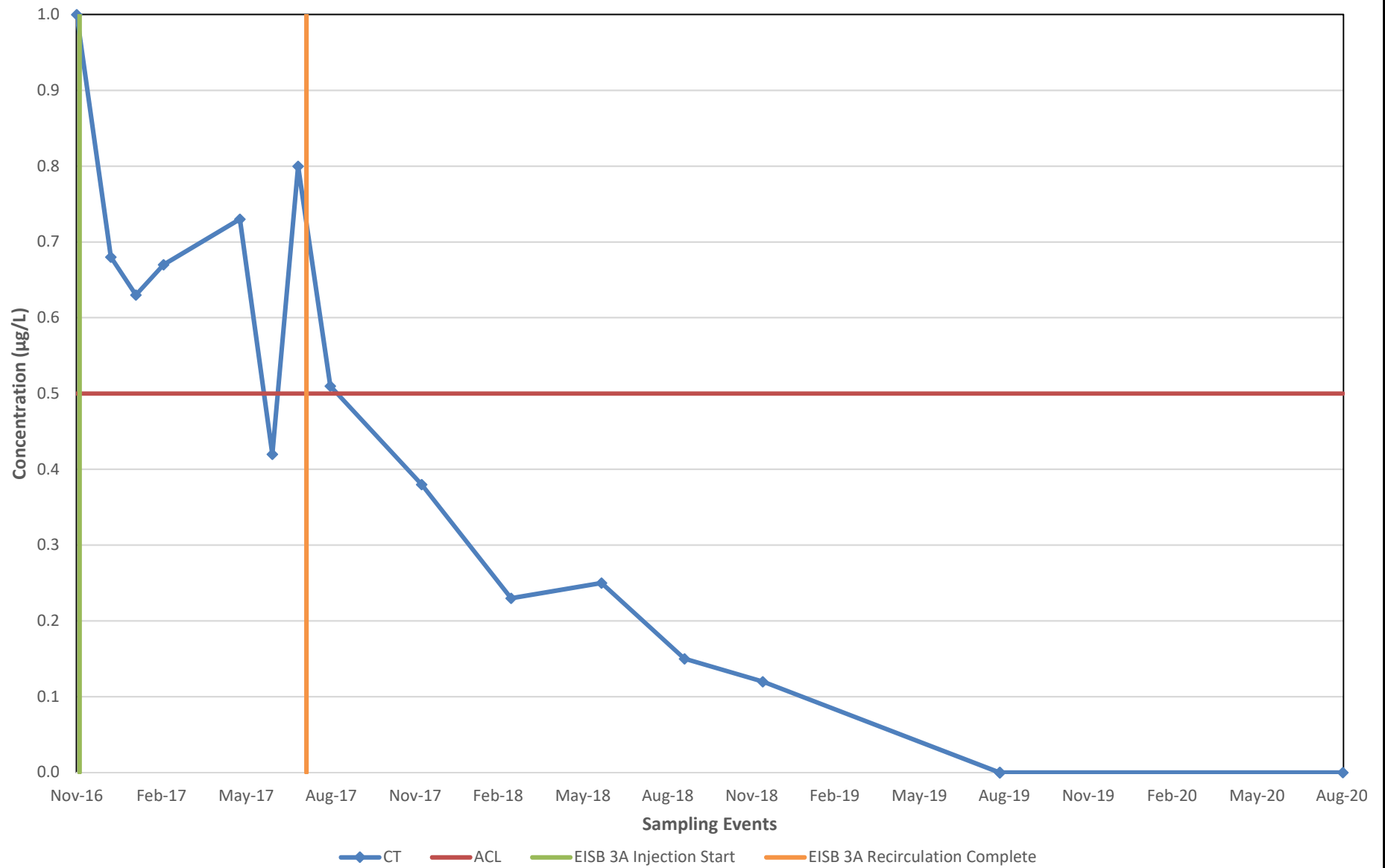


**EW-BW-168-A  
(Hydraulic Zone 3) [EISB Deployment Area 3A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B19**

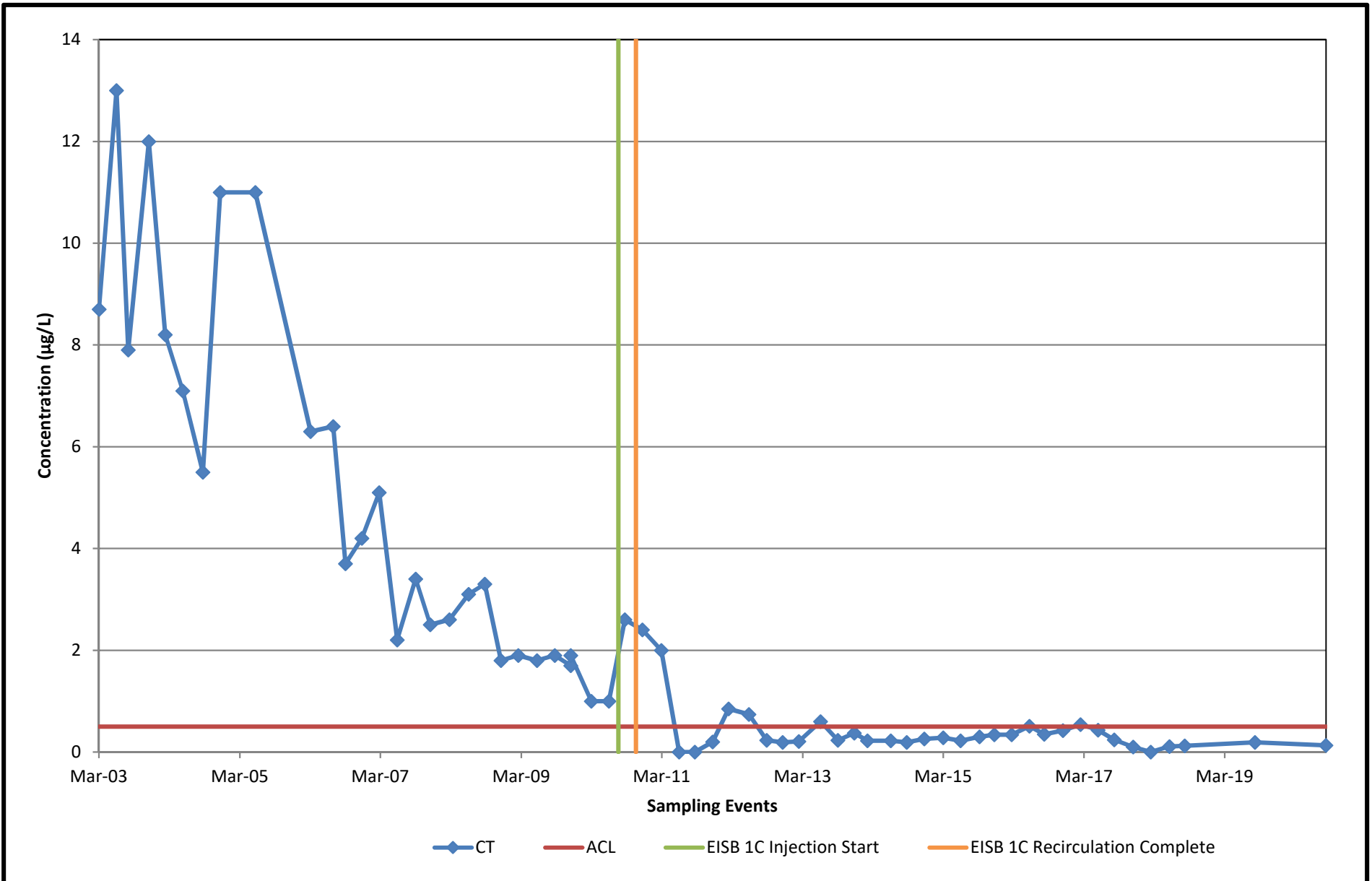


**EW-BW-169-A  
(Hydraulic Zone 3) [EISB Deployment Area 3A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B20**

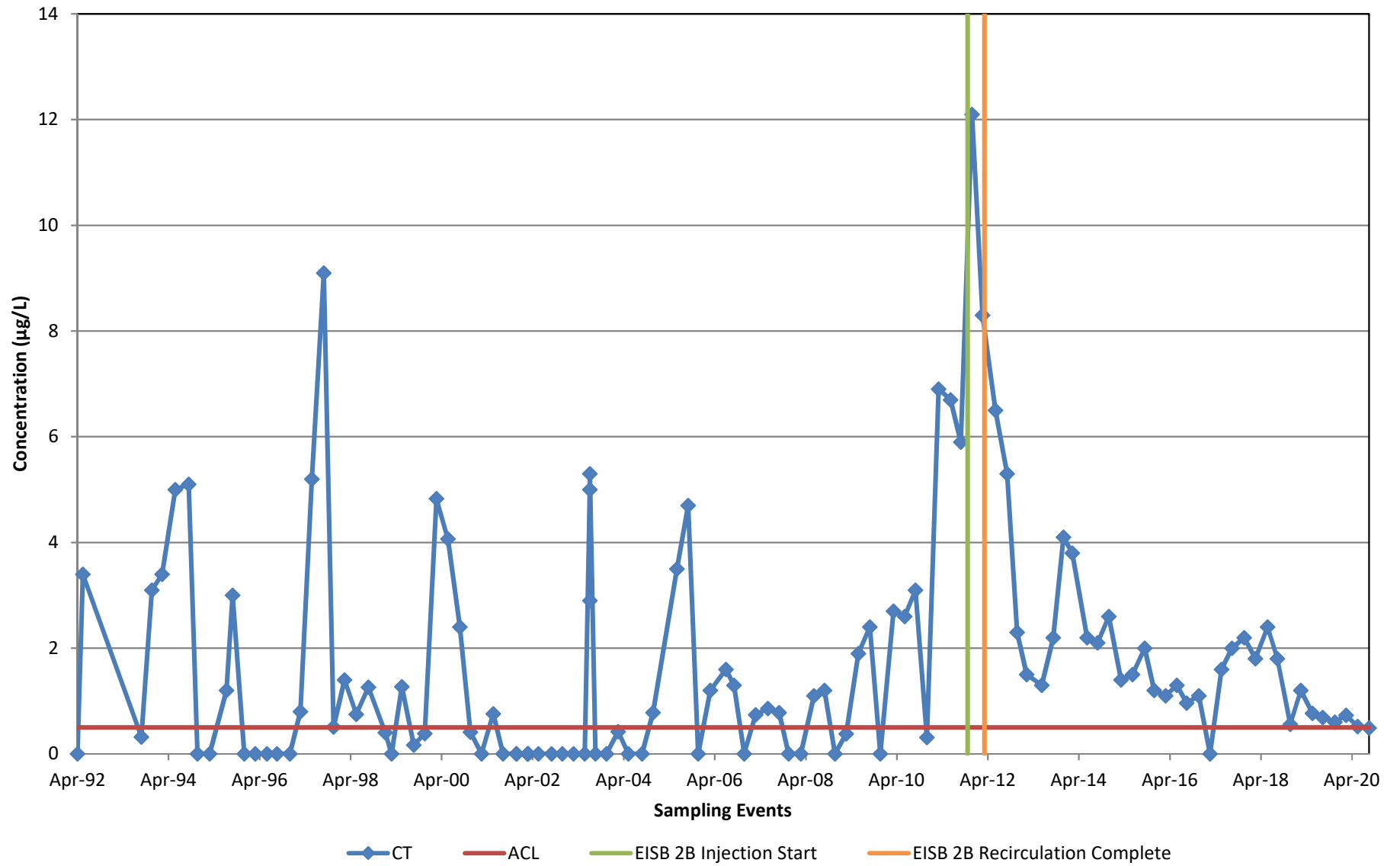


**MP-BW-46-095  
(Hydraulic Zone 1) [EISB Deployment Area 1C]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B21**

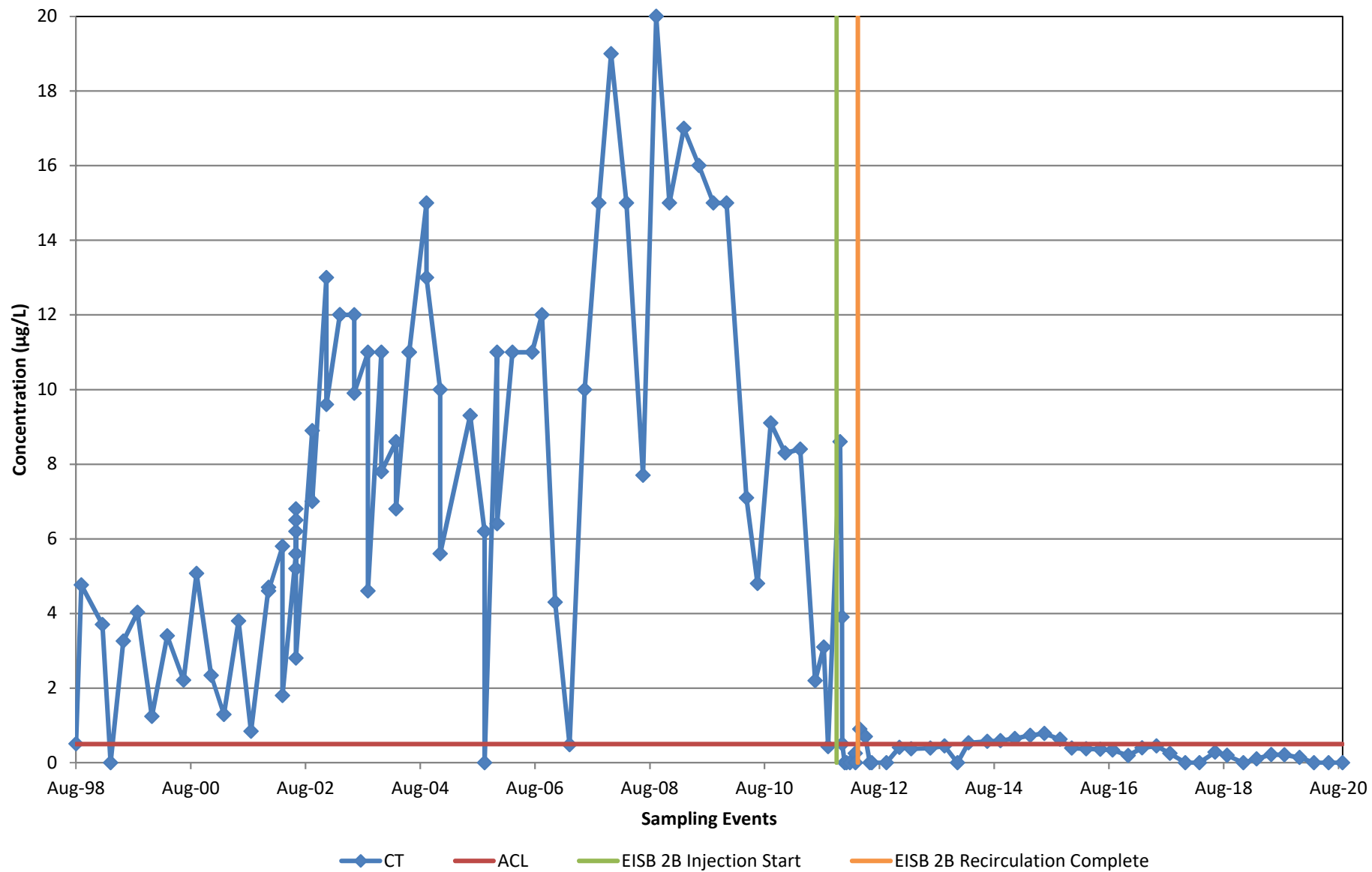


**MW-B-14-A**  
**(Hydraulic Zone 4) [EISB Deployment Area 2B]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B22**



**MW-BW-15-A  
(Hydraulic Zone 4) [EISB Deployment Area 2B]**

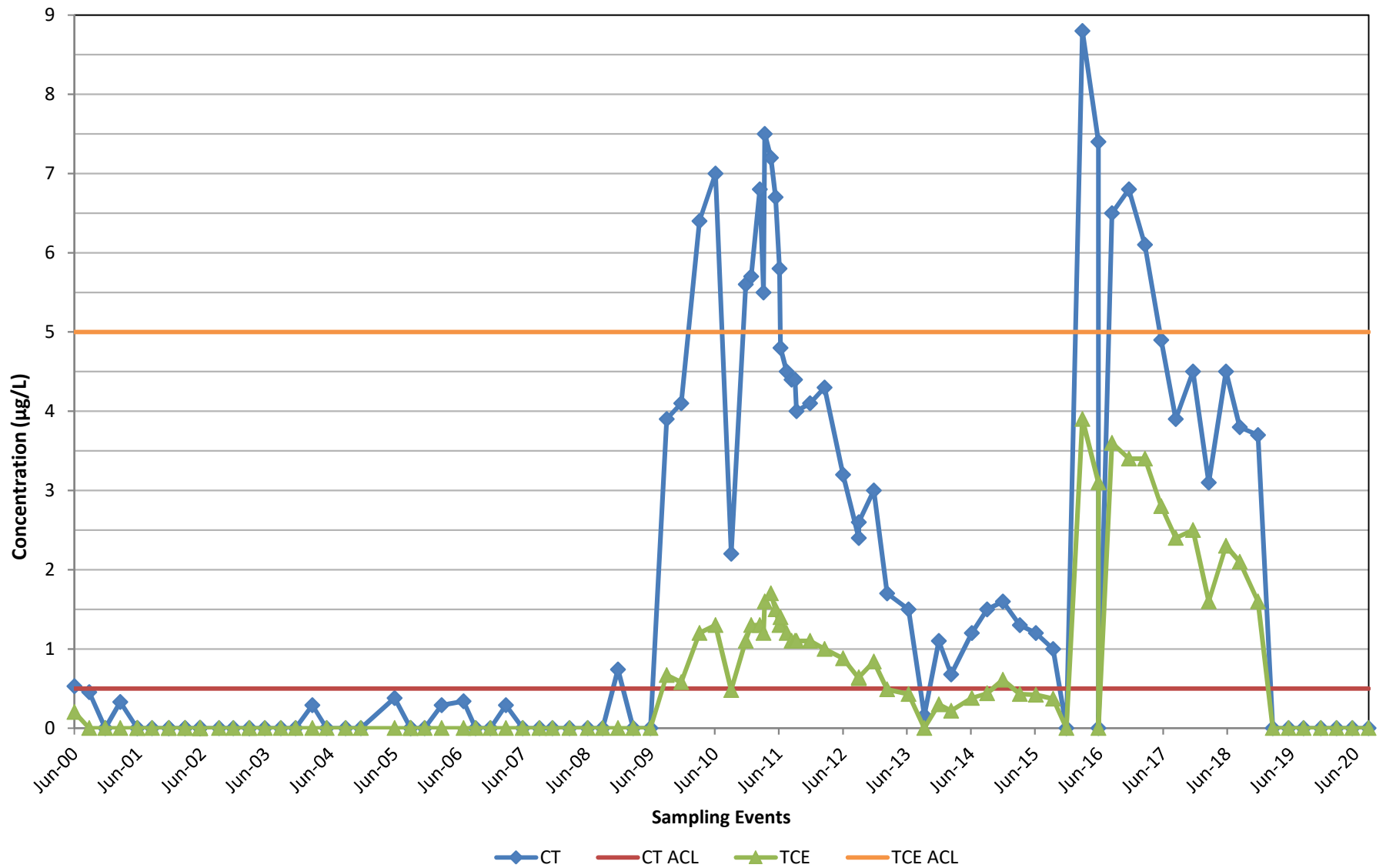
Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B23**

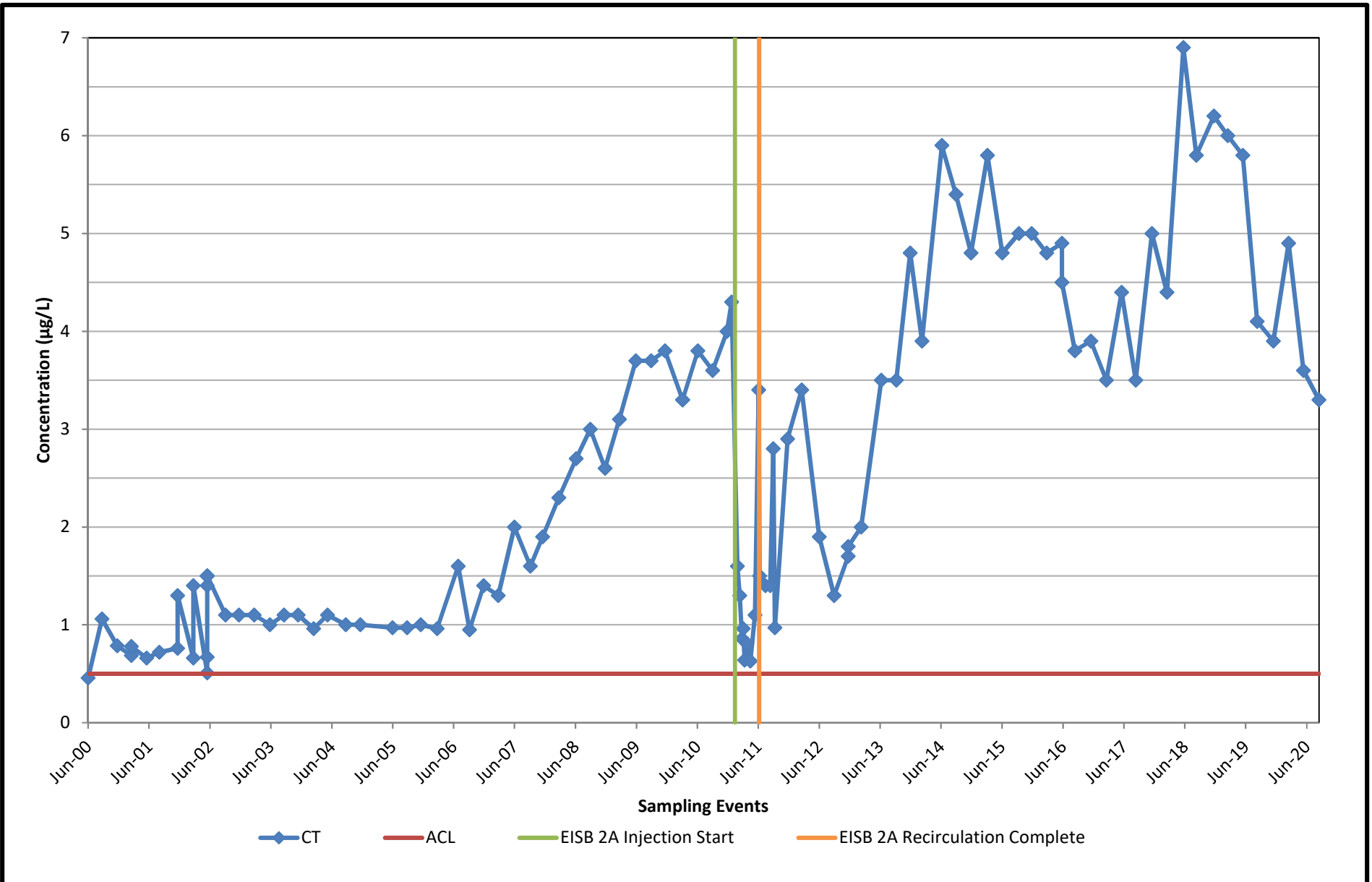






**MW-BW-24-A**  
**(Hydraulic Zone 1) [Southeast of EISB Deployment Area 2A]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B25**

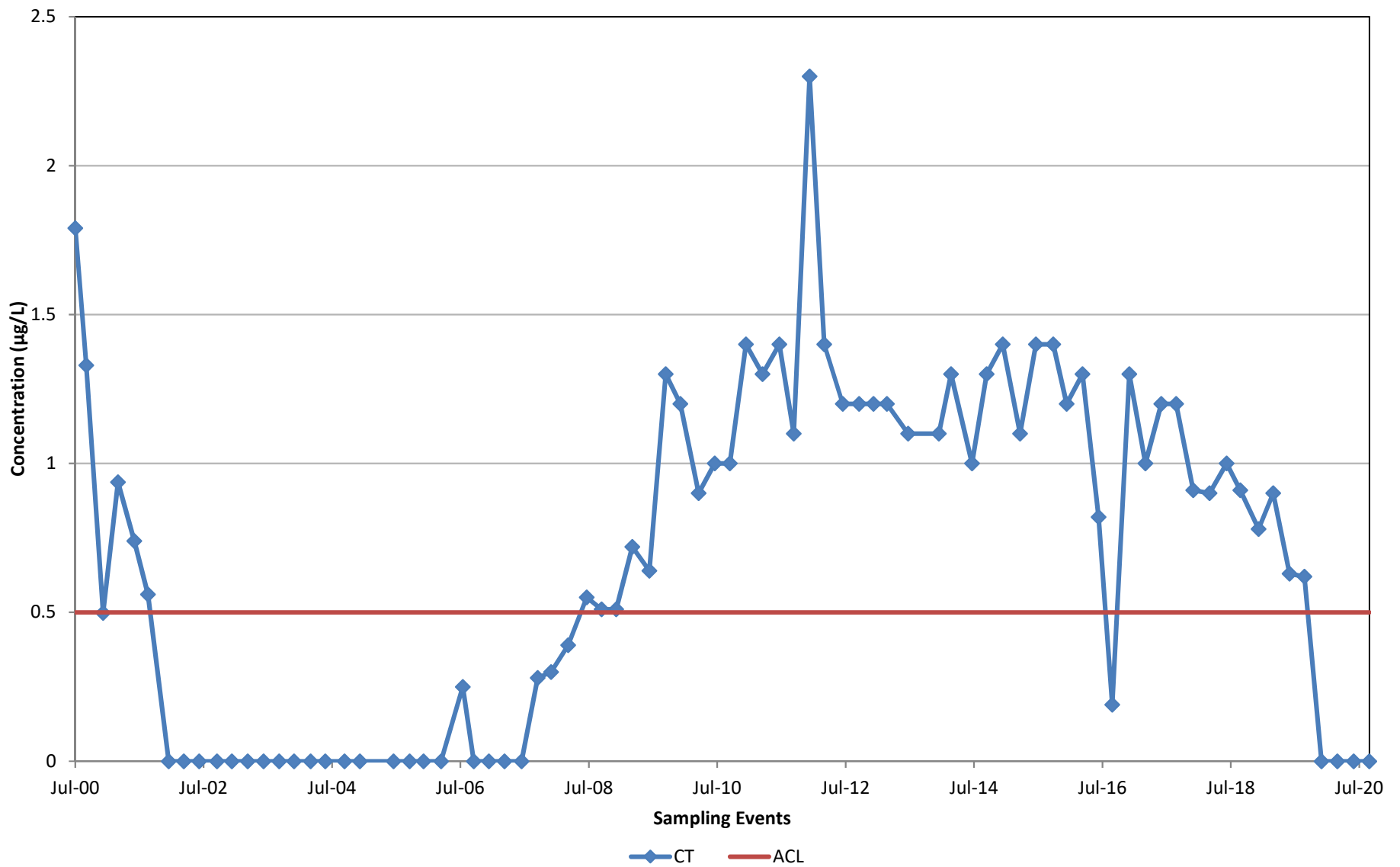


**MW-BW-26-A  
(Hydraulic Zone 4) [EISB Deployment Area 2A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B26**

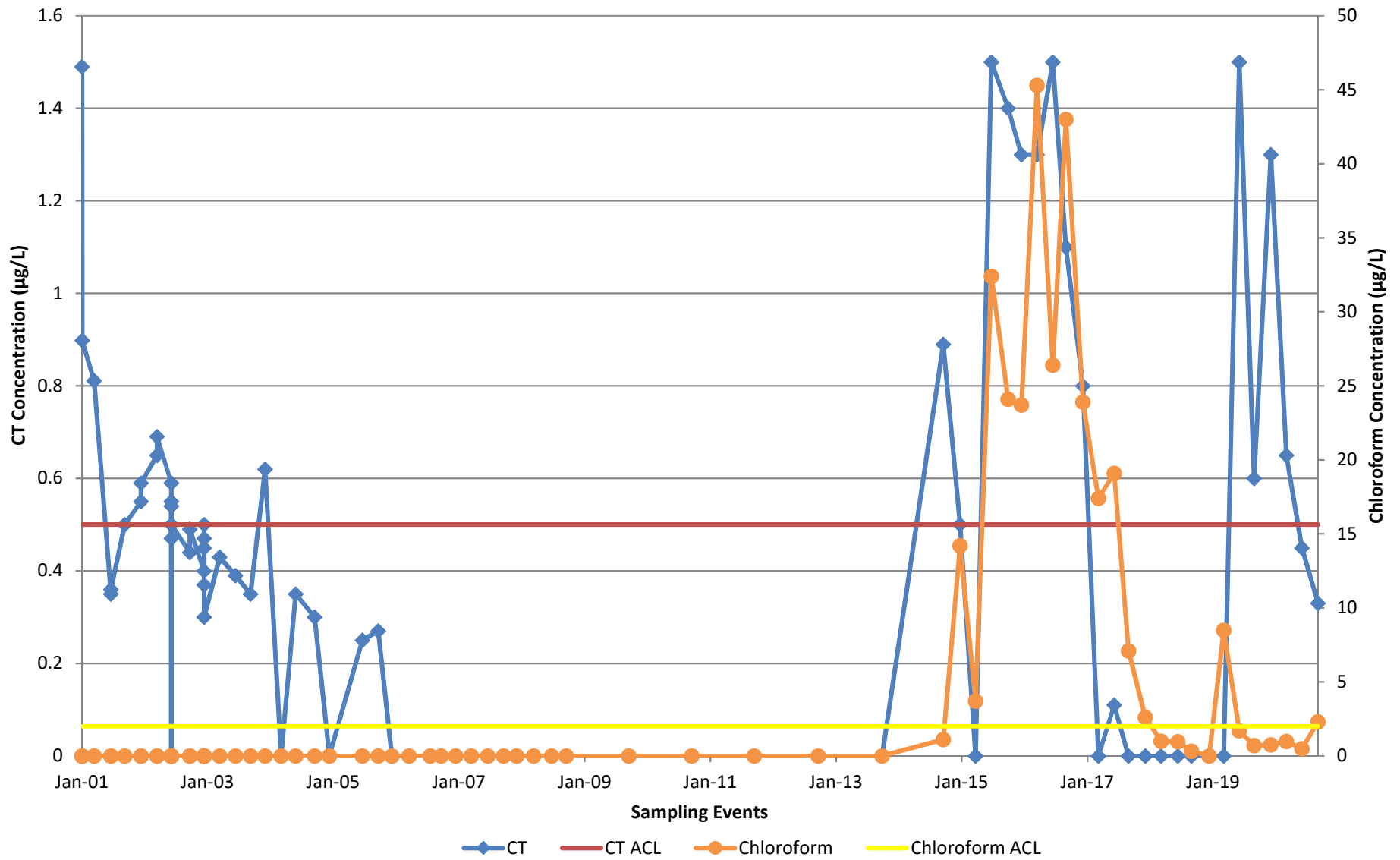


**MW-BW-28-A**  
**(Hydraulic Zone 4) [north of EISB Deployment Area 2B]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

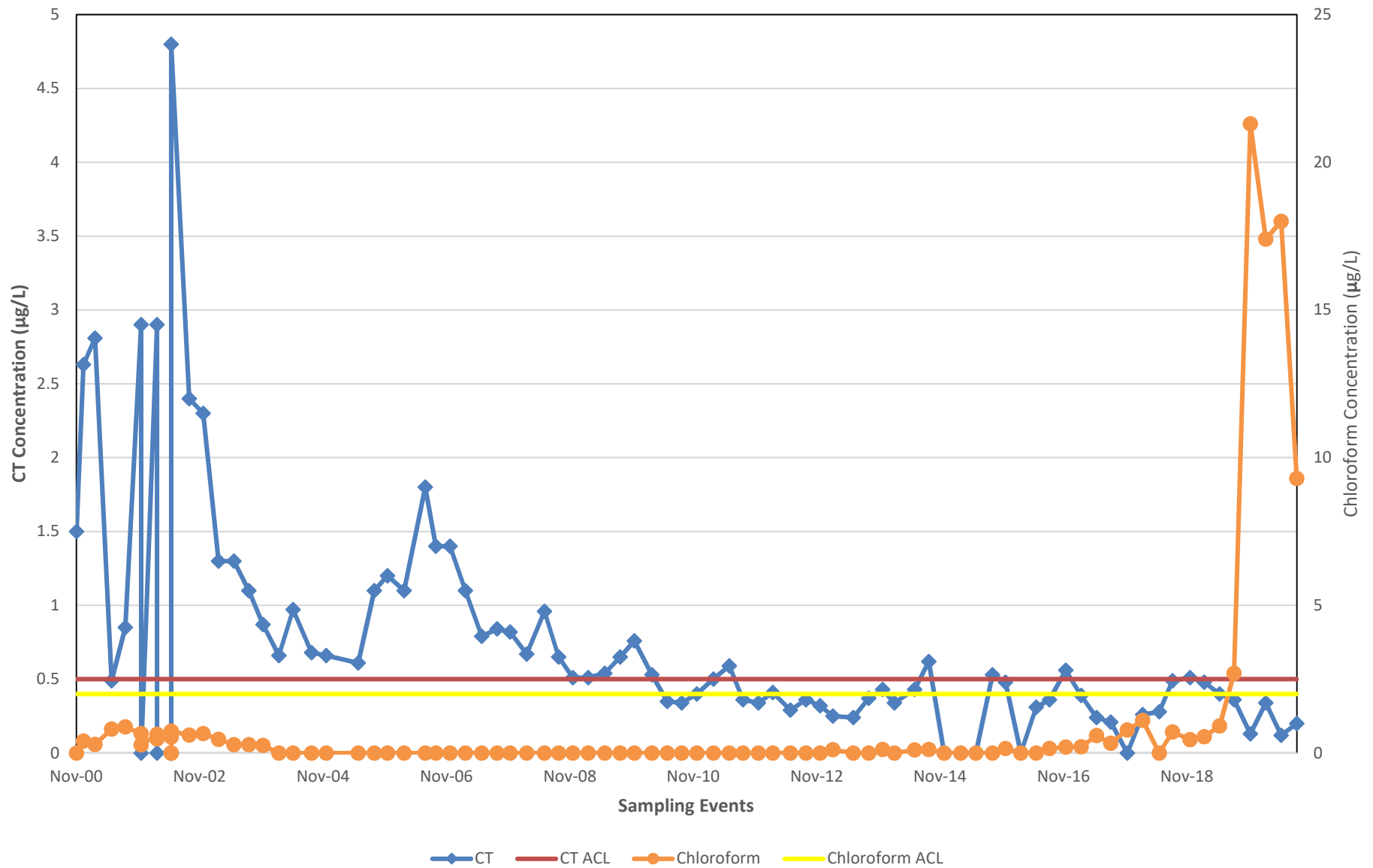
**B27**



**MW-BW-31-A**  
**(Hydraulic Zone 4) [northwest of EISB Deployment Area 2B]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B28**



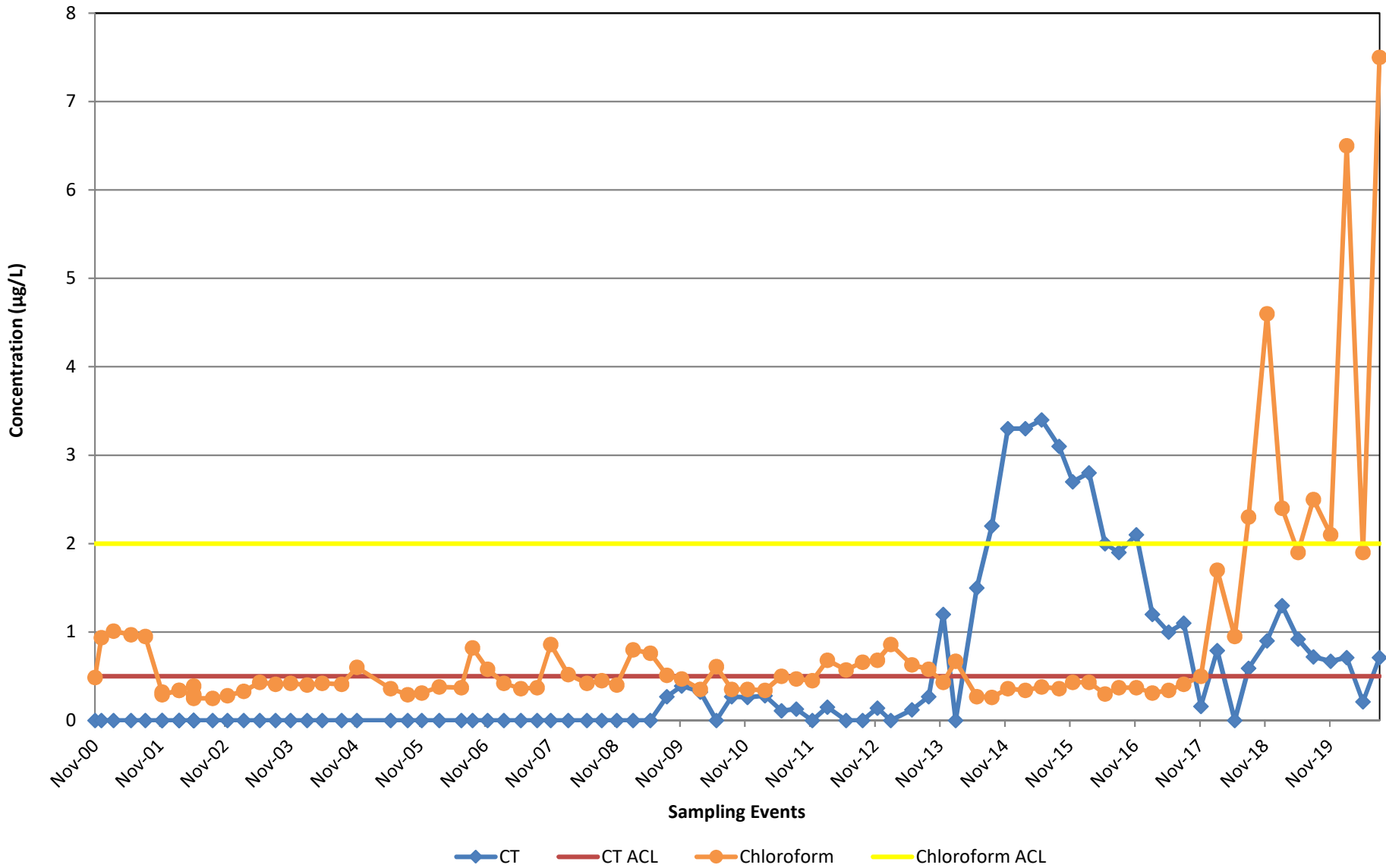


**MW-BW-35-A**  
**(Hydraulic Zone 4) [southeast of EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

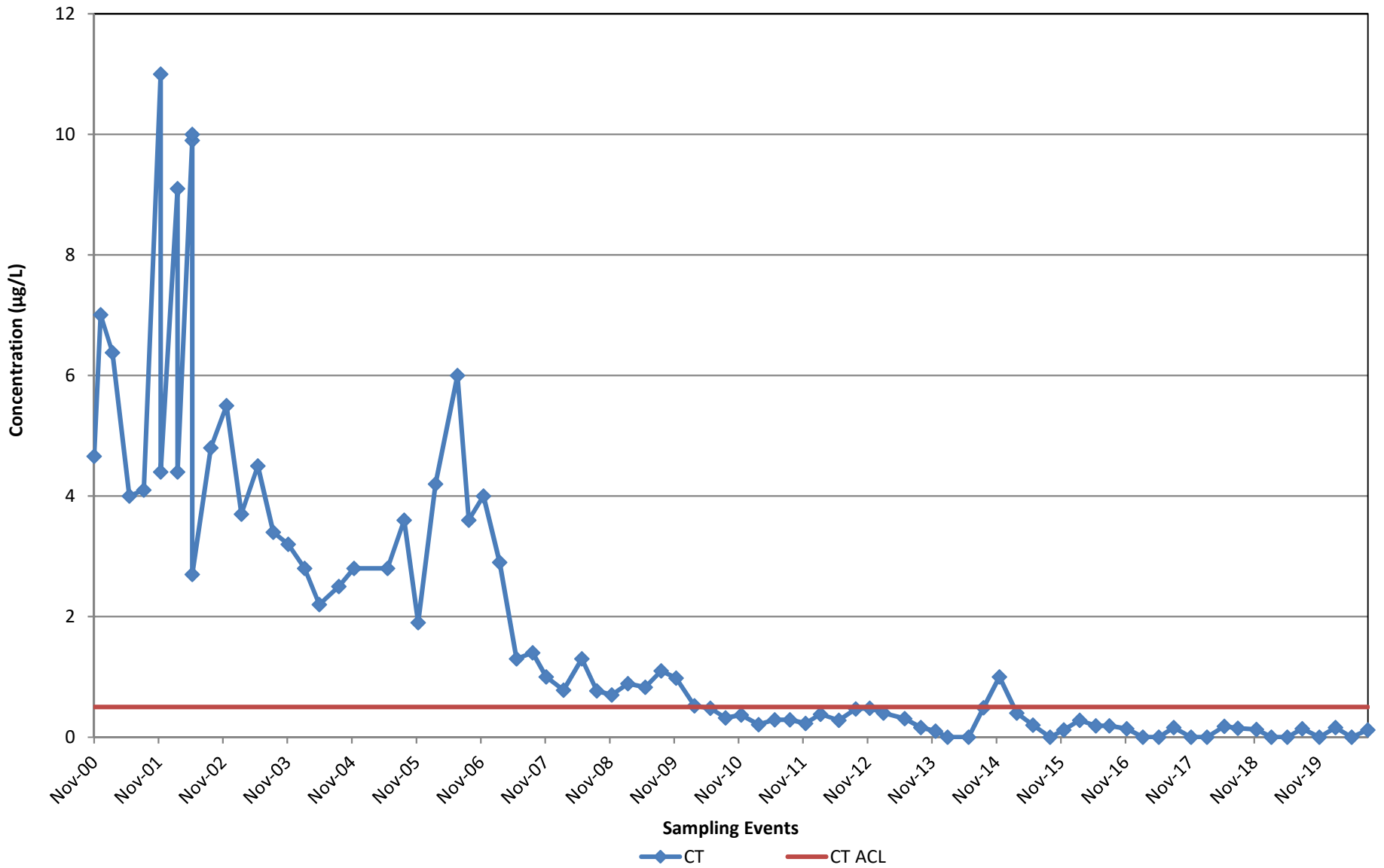
Figure:

**B30**



**MW-BW-36-A**  
**(Hydraulic Zone 4) [northwest of EISB Deployment Area 2B]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B31**



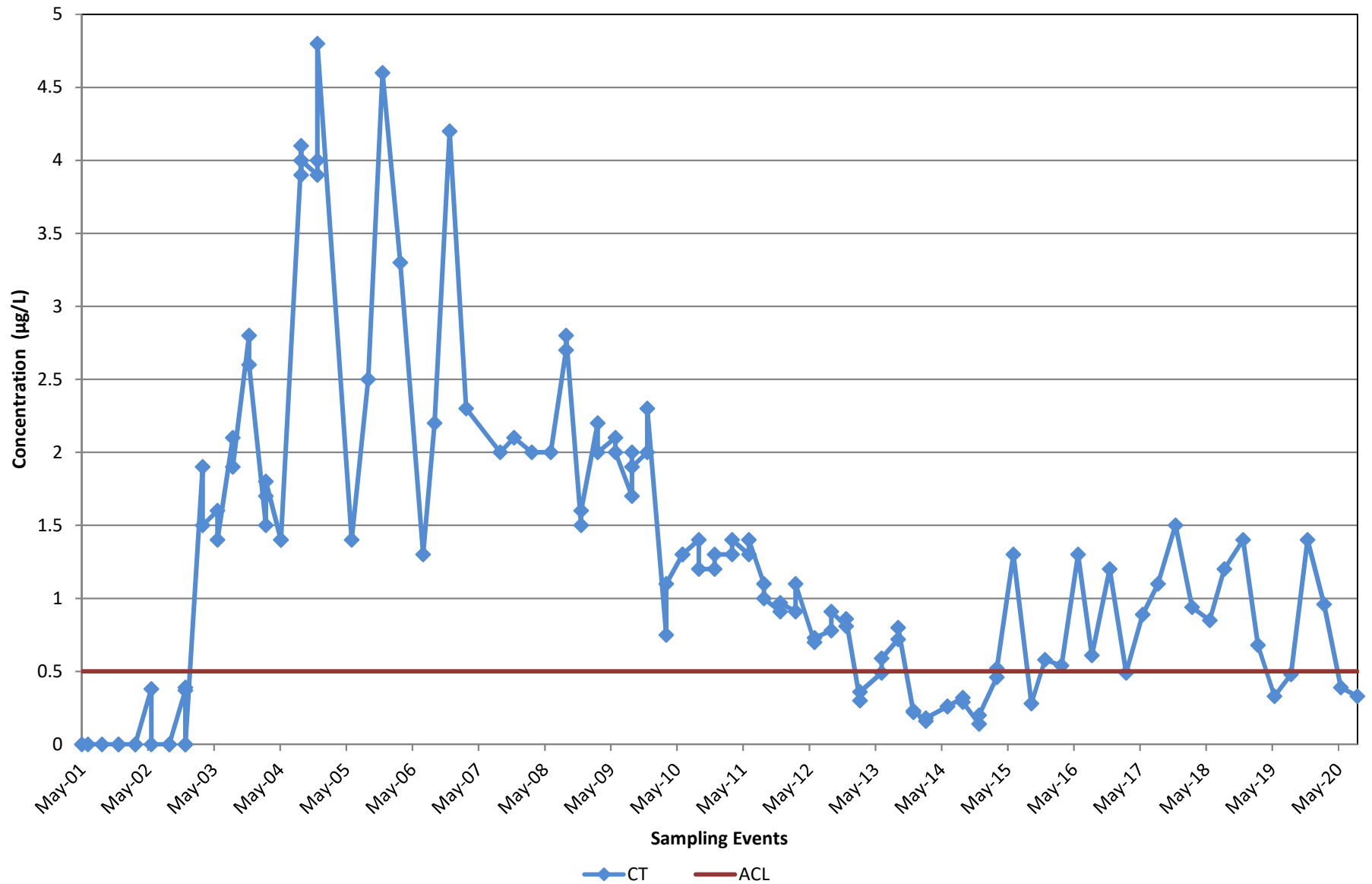
**MW-BW-42-A**  
**(Hydraulic Zone 4) [southeast of EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B32**



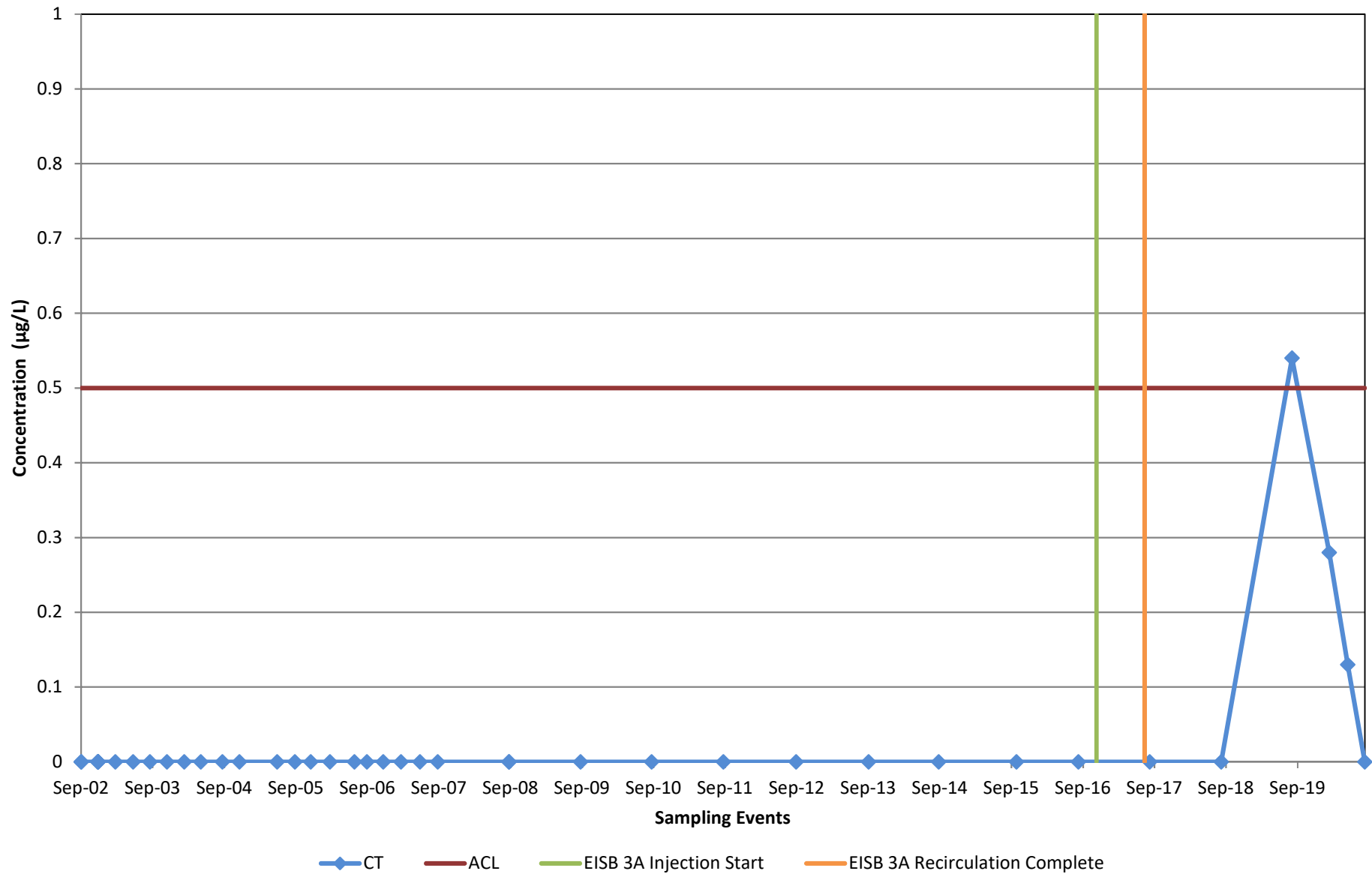


**MW-BW-49-A**  
**(Hydraulic Zone 5) [west of EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B33**

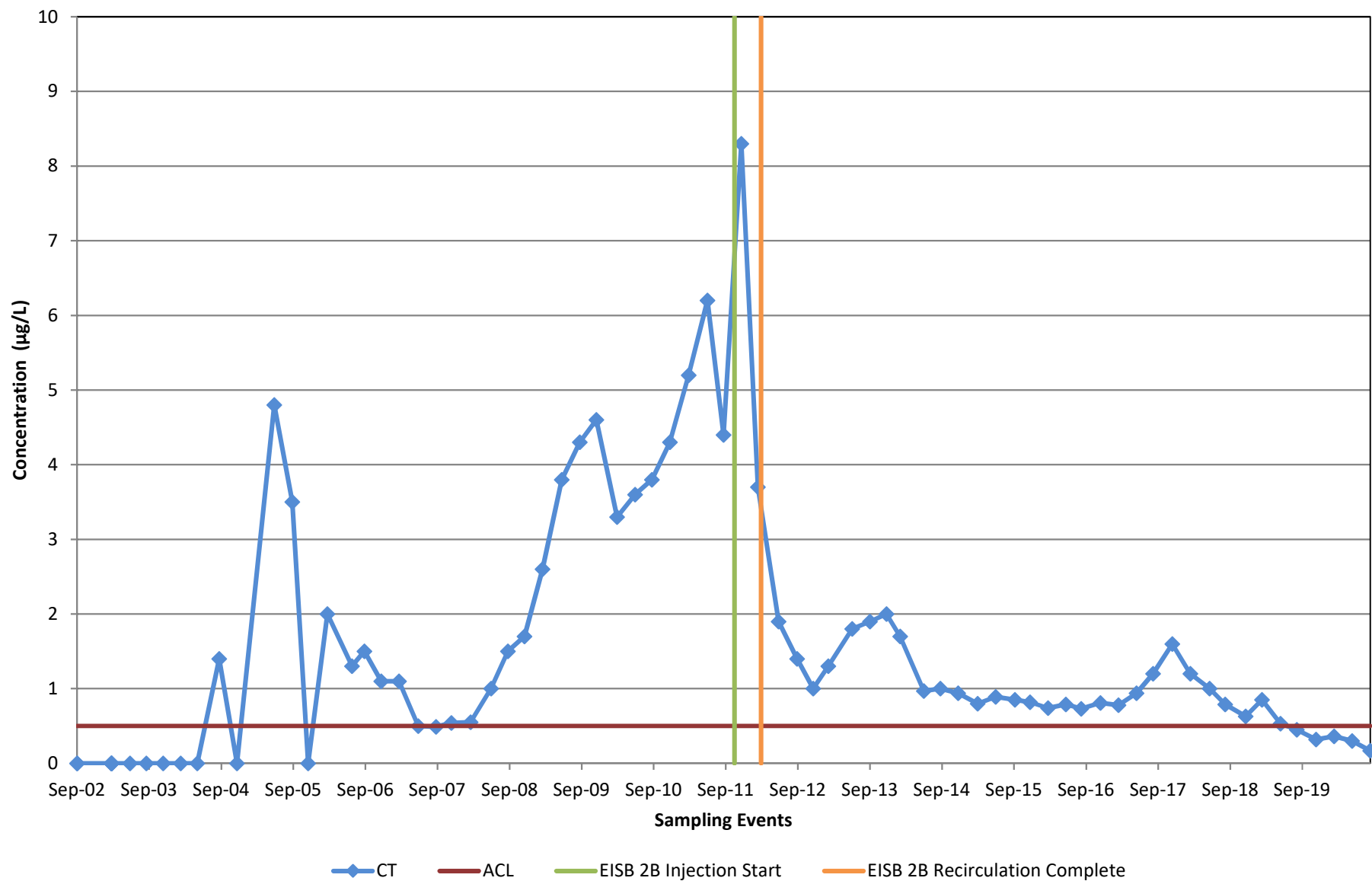


**MW-BW-56-A  
(Hydraulic Zone 3) [EISB Deployment Area]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B34**

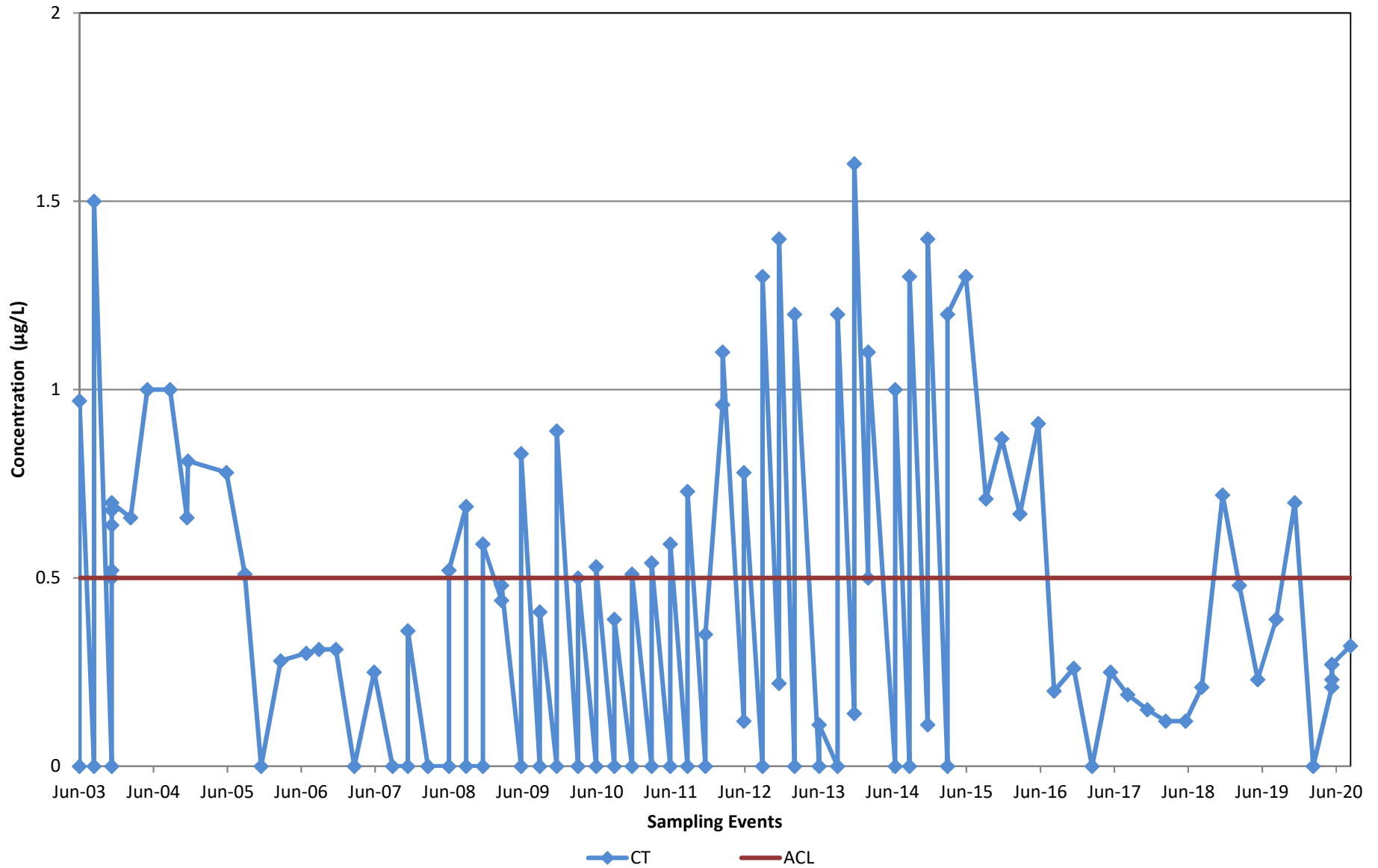


**MW-BW-60-A  
(Hydraulic Zone 4) [EISB Deployment Area 2B]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B35**

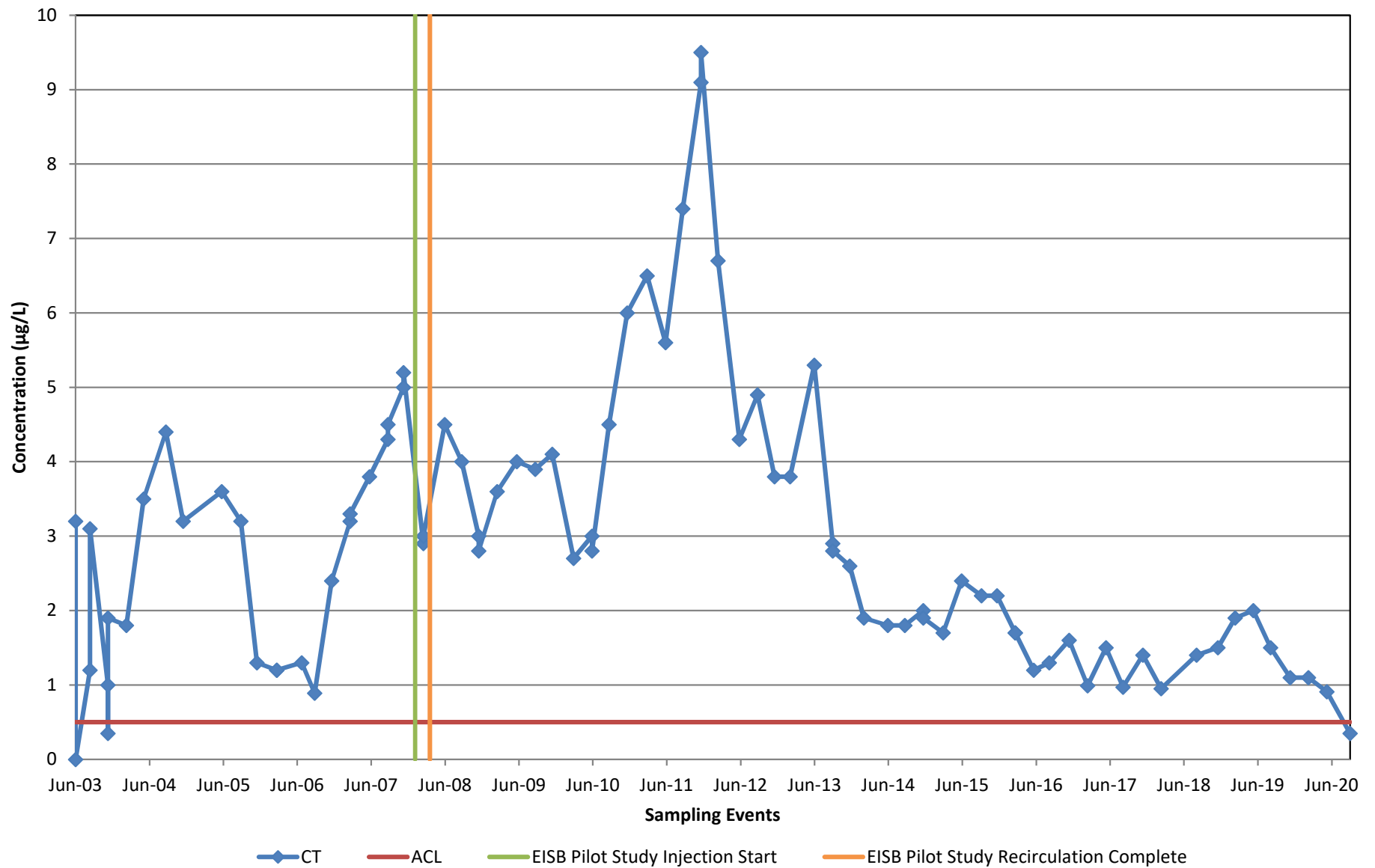


**MW-BW-65-A**  
**(Hydraulic Zone 5) [northwest of EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B36**

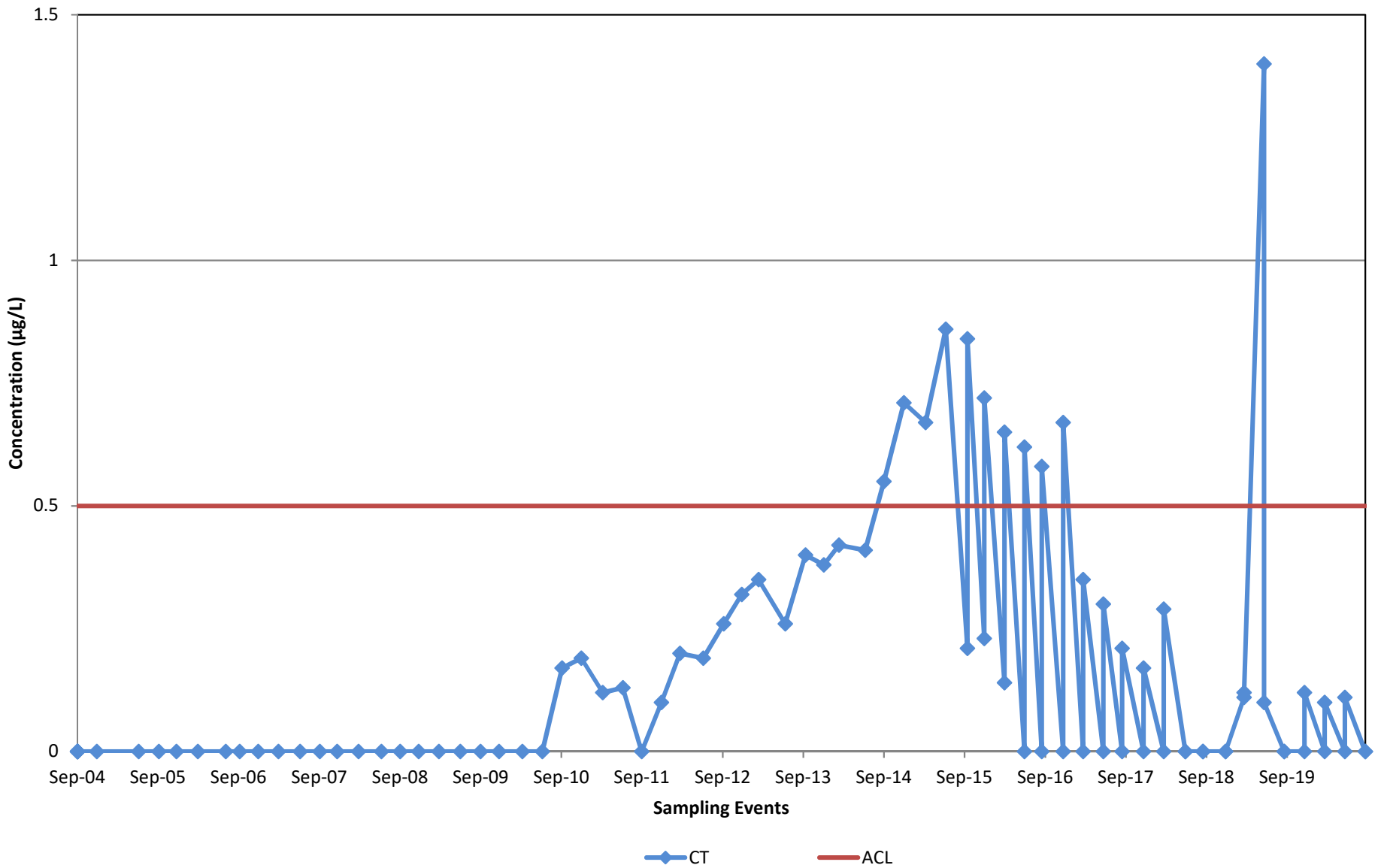


**MW-BW-66-A  
(Hydraulic Zone 5) [EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B37**

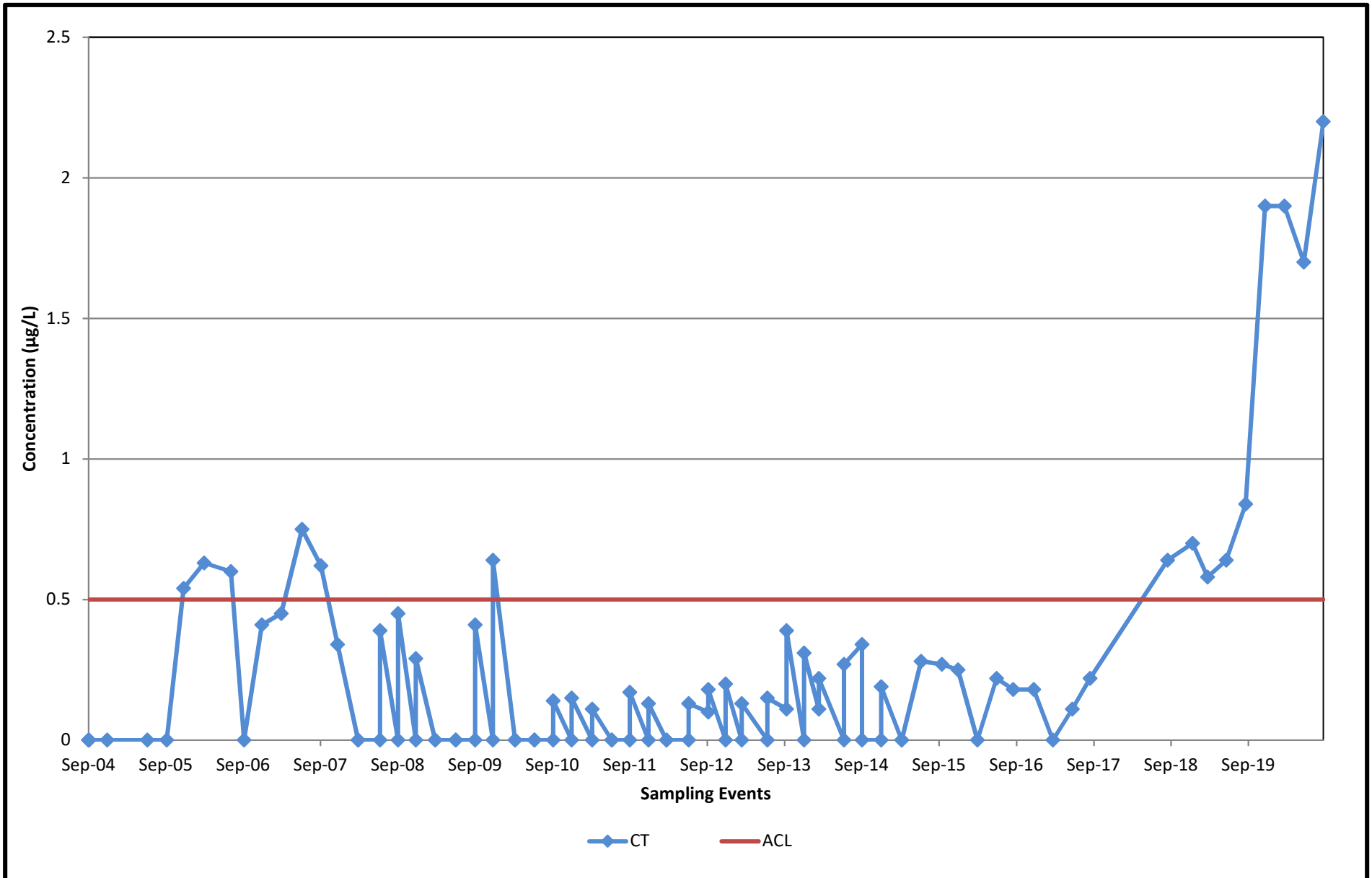


**MW-BW-74-A**  
**(Hydraulic Zone 5) [northwest of EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

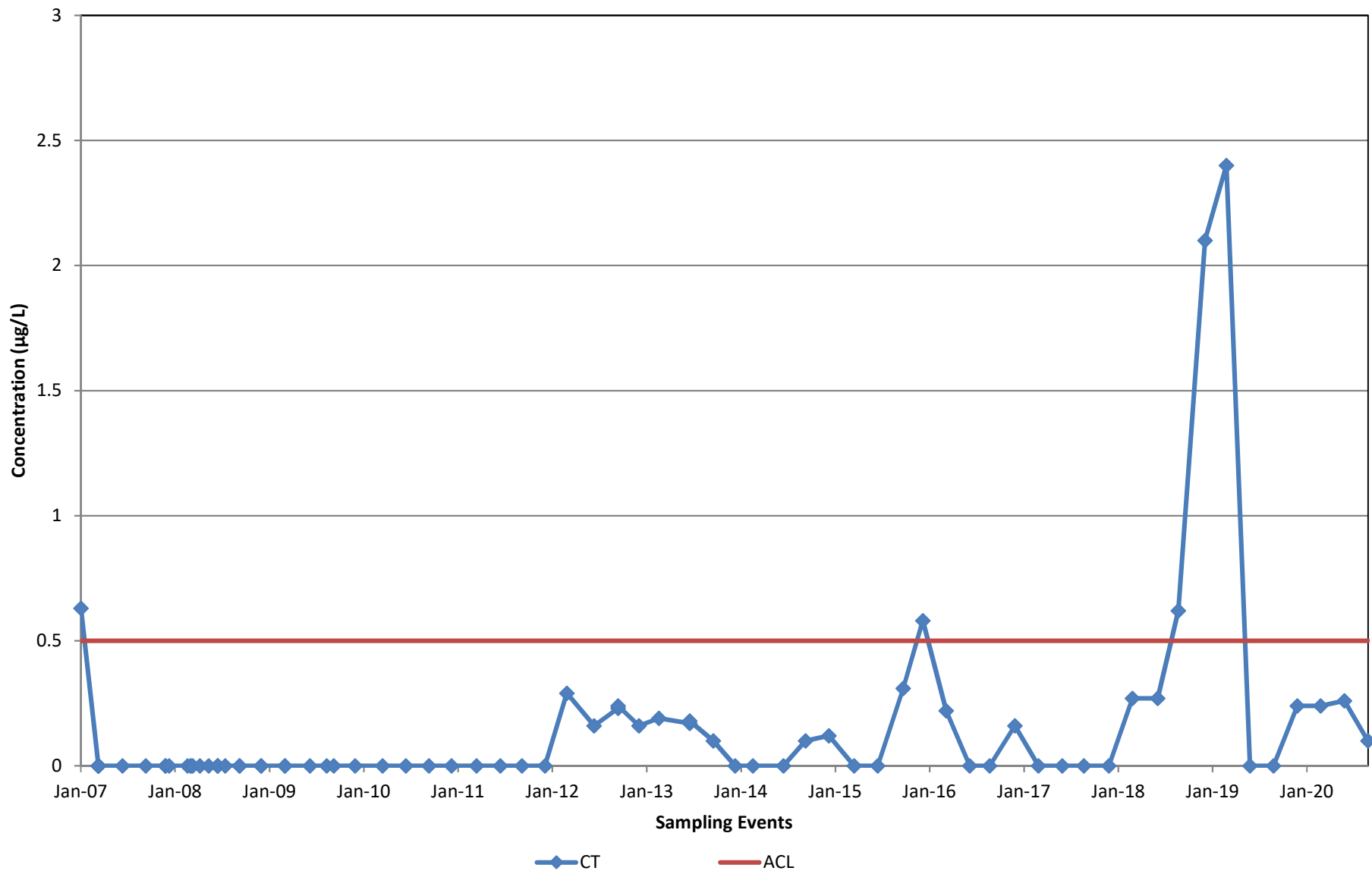
Figure:

**B38**



**MW-BW-75-A**  
**(Hydraulic Zone 5) [northwest of EISB Deployment Area Pilot Study]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

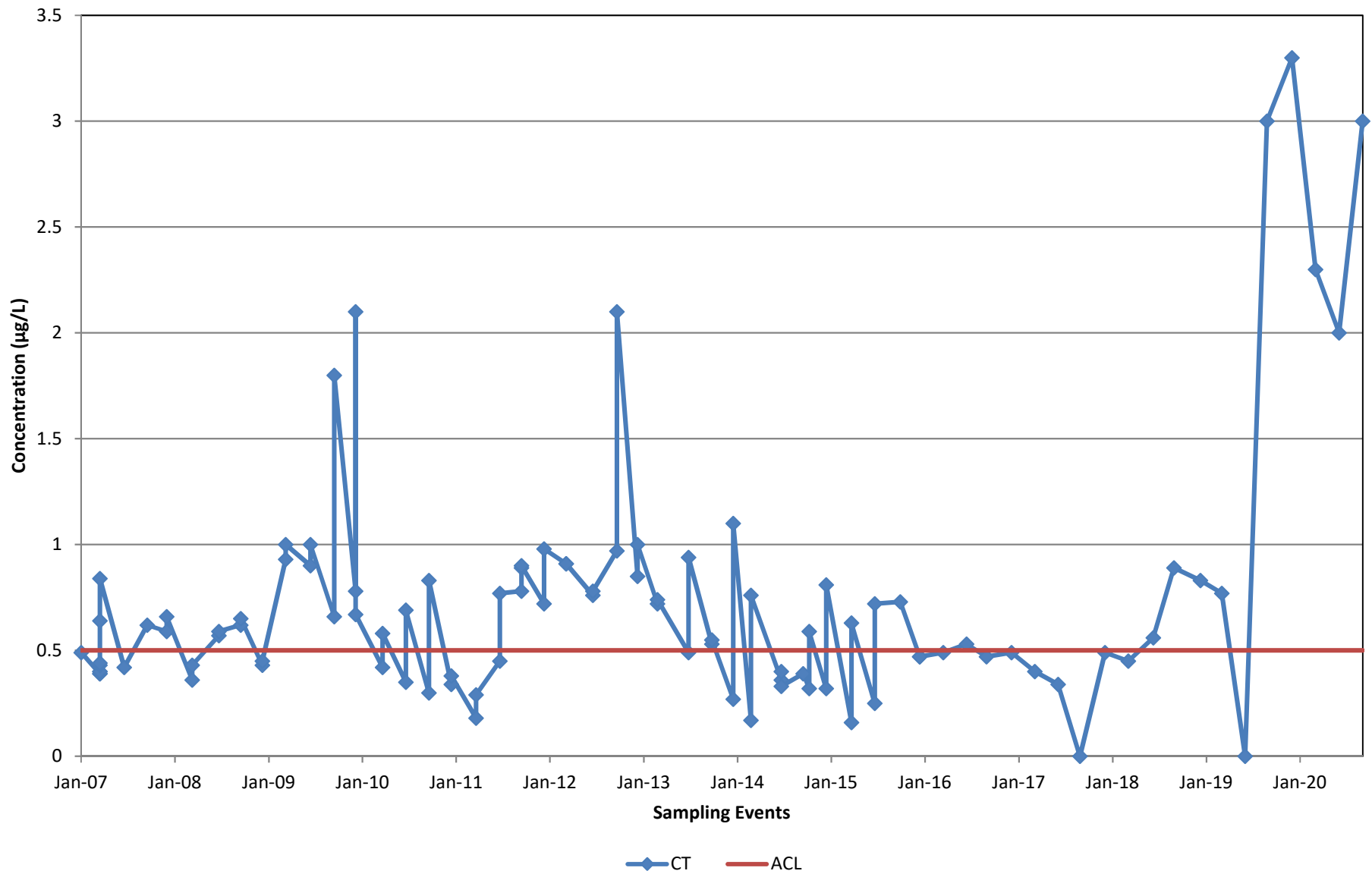
Figure:  
**B39**



**MW-BW-79-A**  
**(Hydraulic Zone 5) [northwest of EISB Deployment Area Pilot Study]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B40**



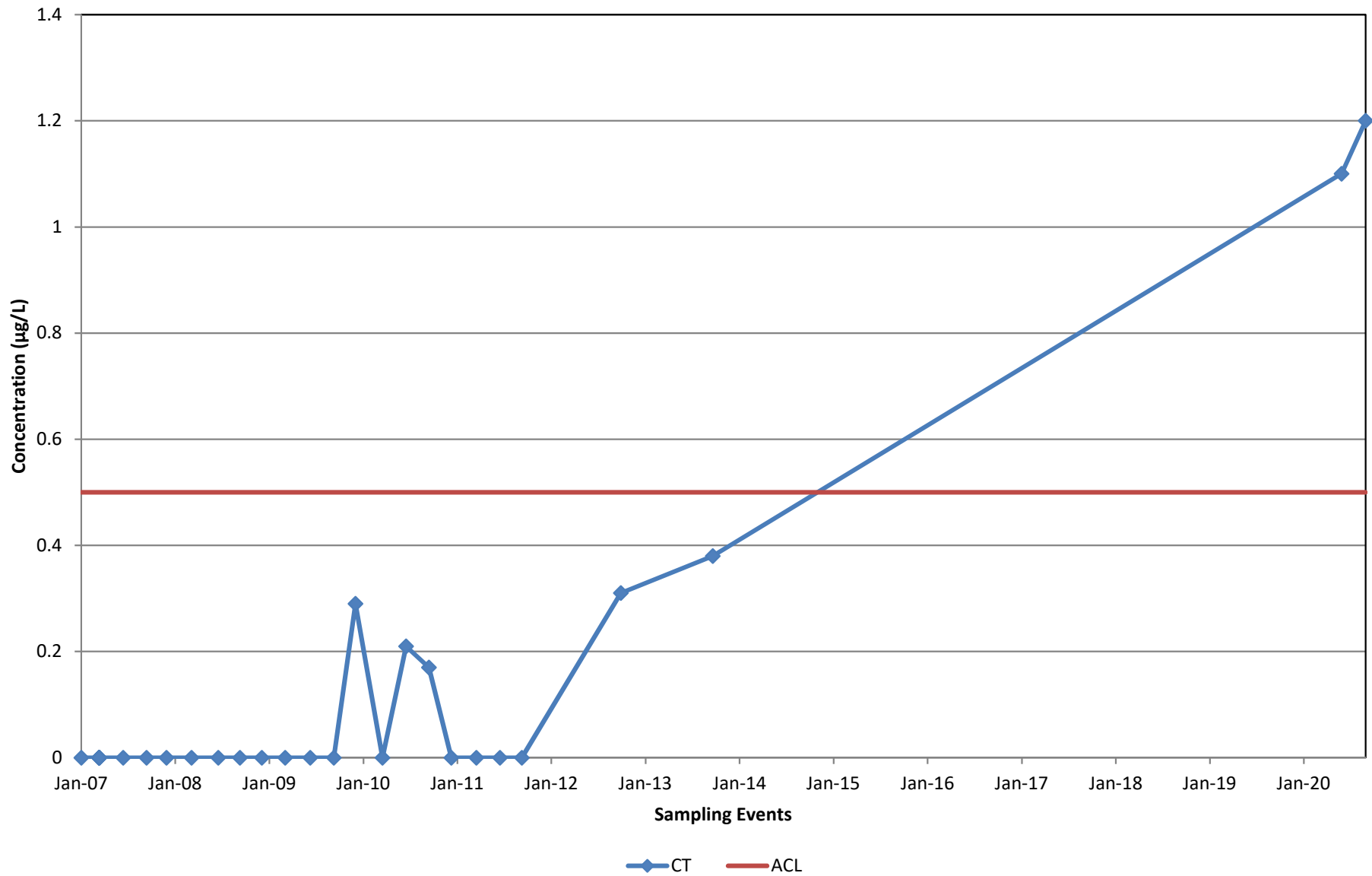


**MW-BW-80-A**  
**(Hydraulic Zone 5) [northwest of EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B41**

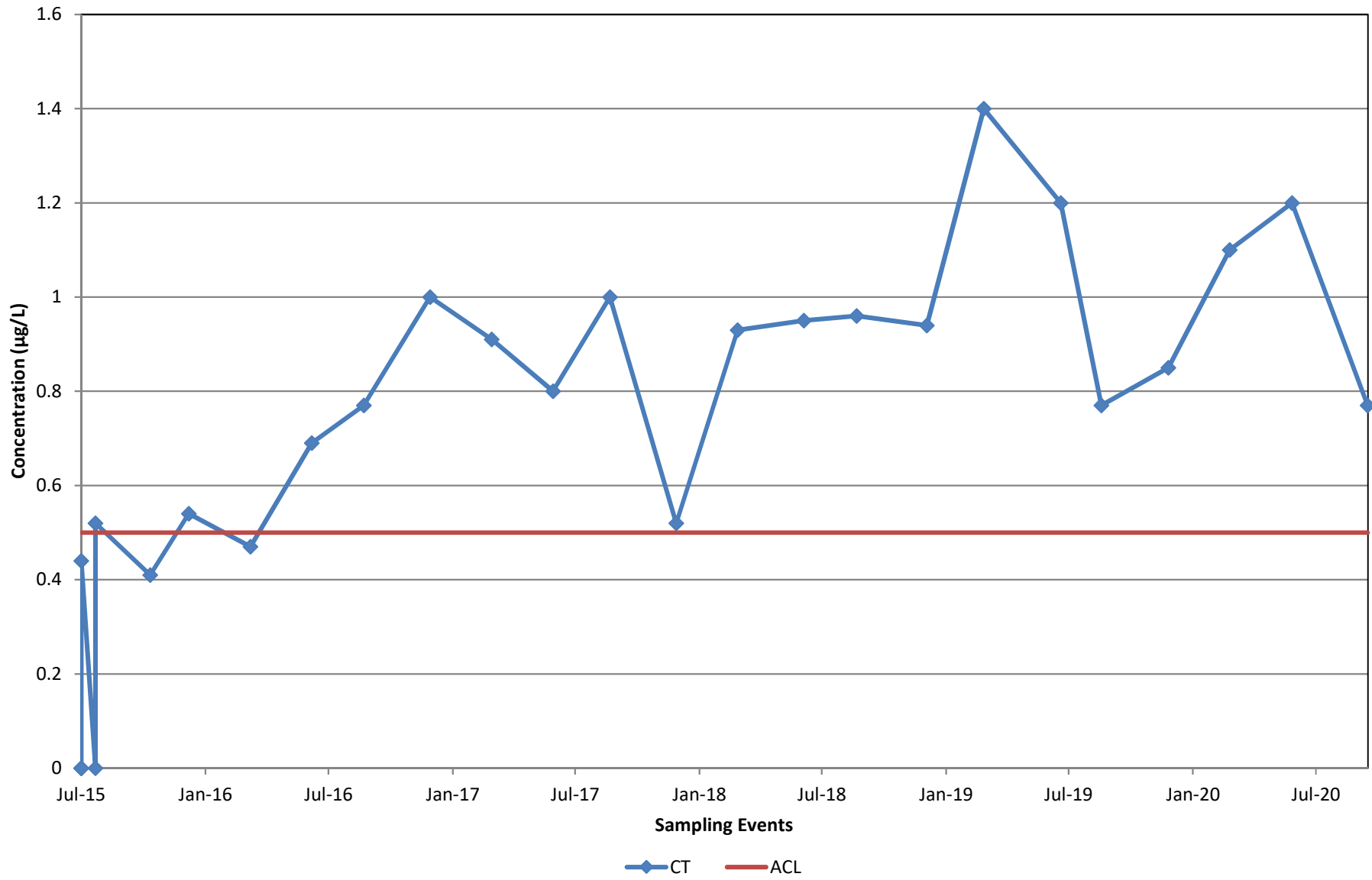


**MW-BW-82-A**  
**(Hydraulic Zone 5) [northwest of EISB Deployment Area Pilot Study]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

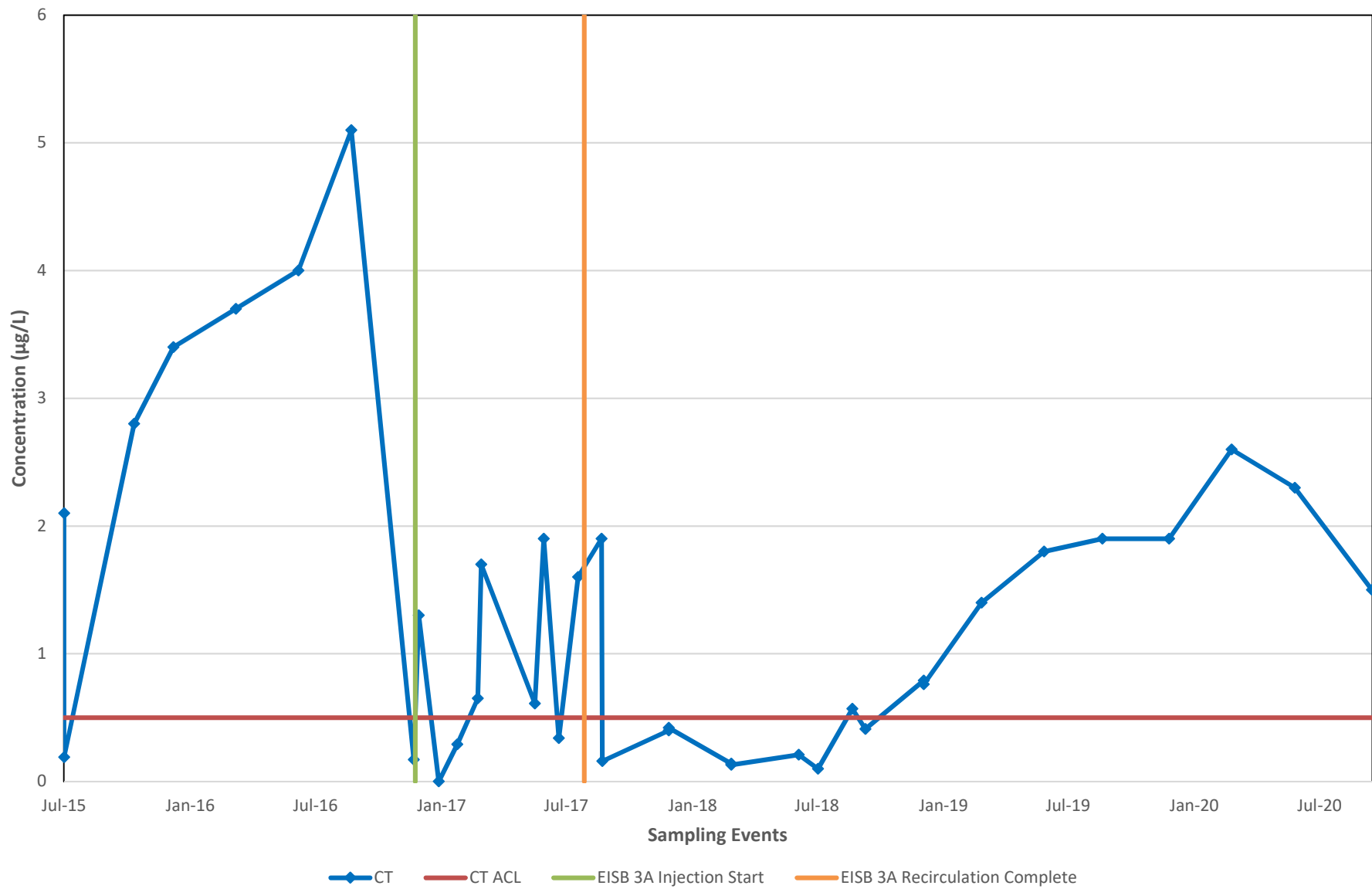
Figure:

**B42**



**MW-BW-85-A**  
**(Hydraulic Zone 2) [southeast of EISB Deployment Area 3A]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B43**

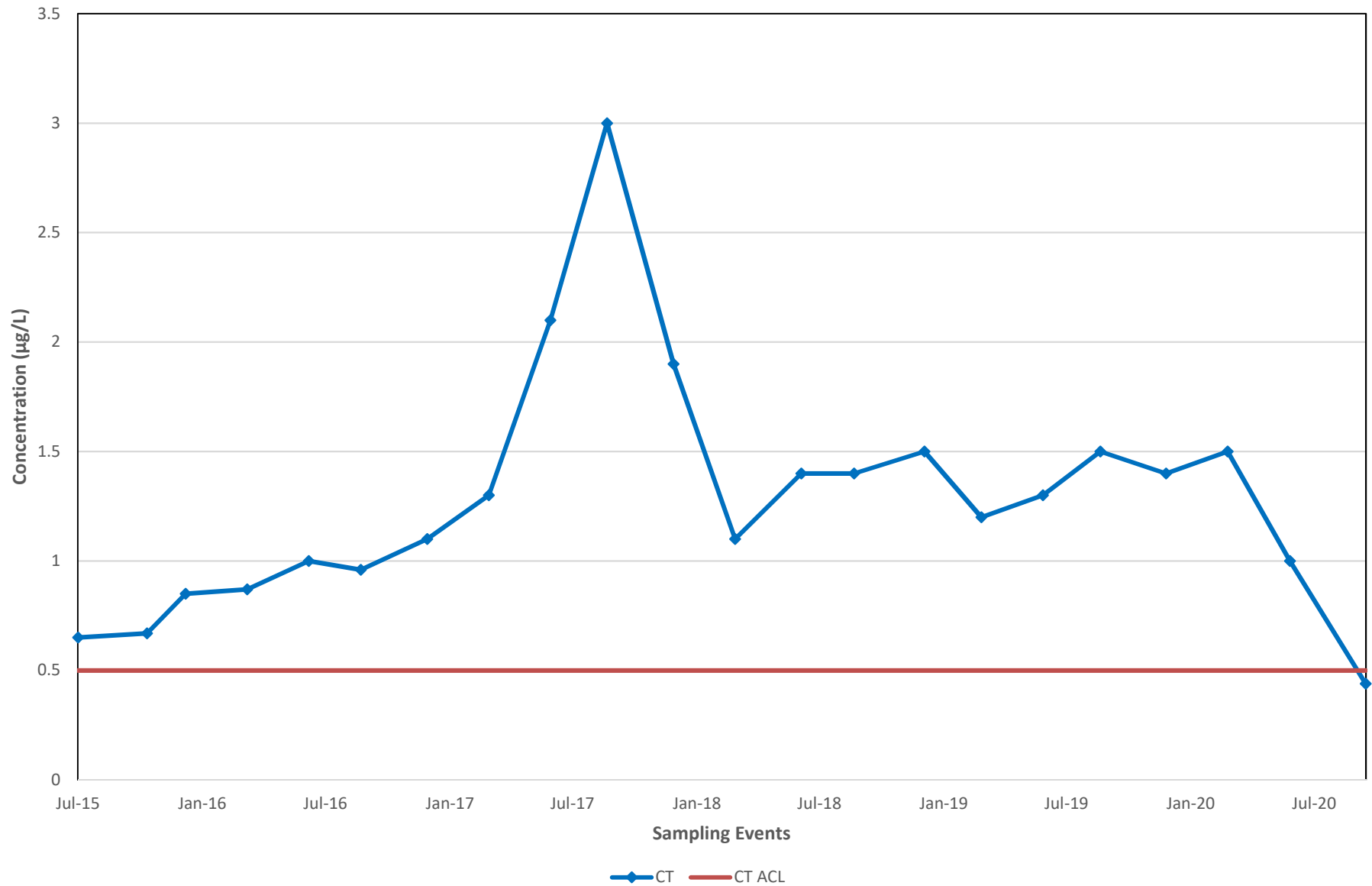


**MW-BW-87-A  
(Hydraulic Zone 2) [EISB Deployment Area 3A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B44**

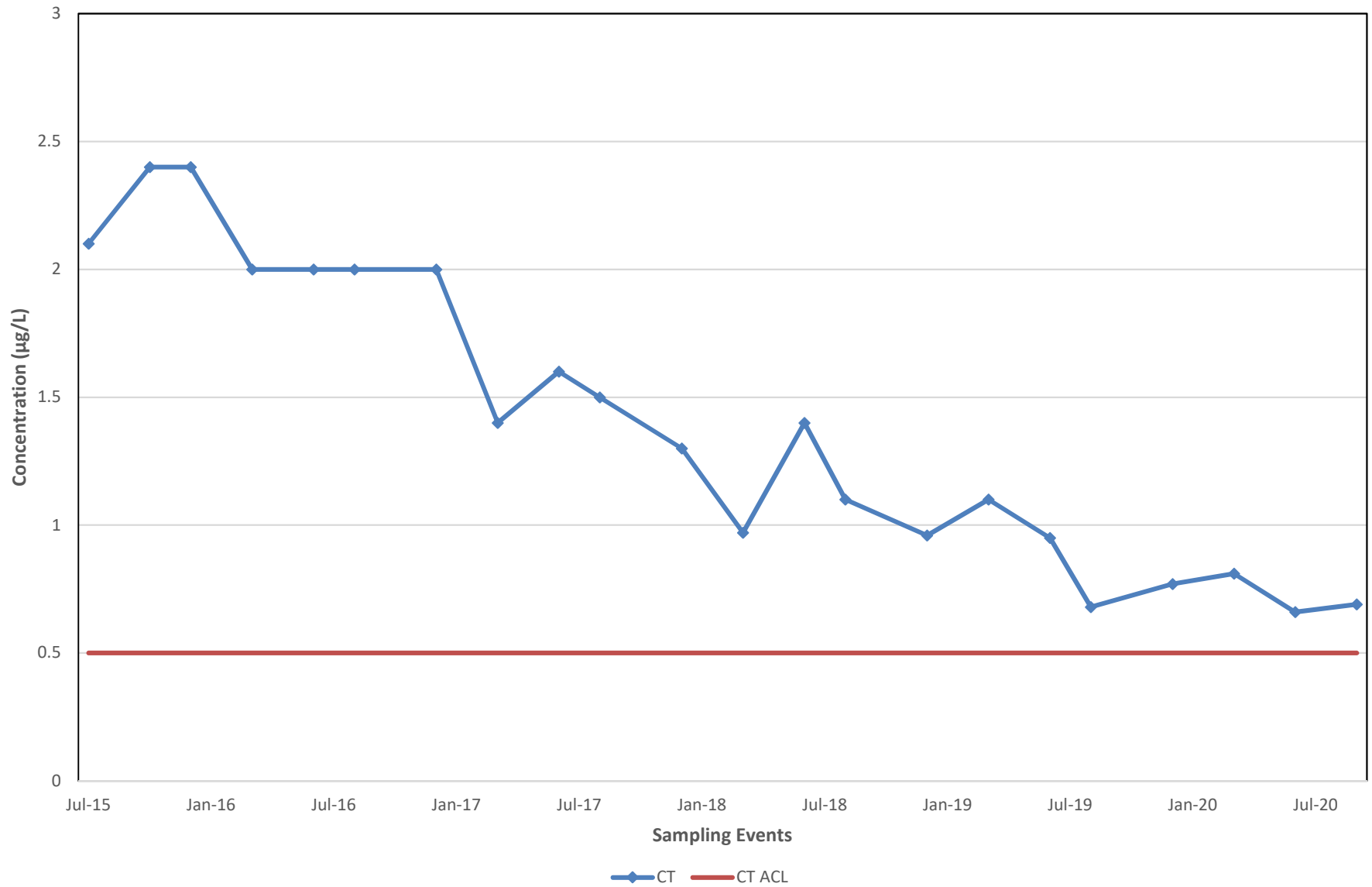


**MW-BW-88-A**  
**(Hydraulic Zone 2) [north of EISB Deployment Area 3A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

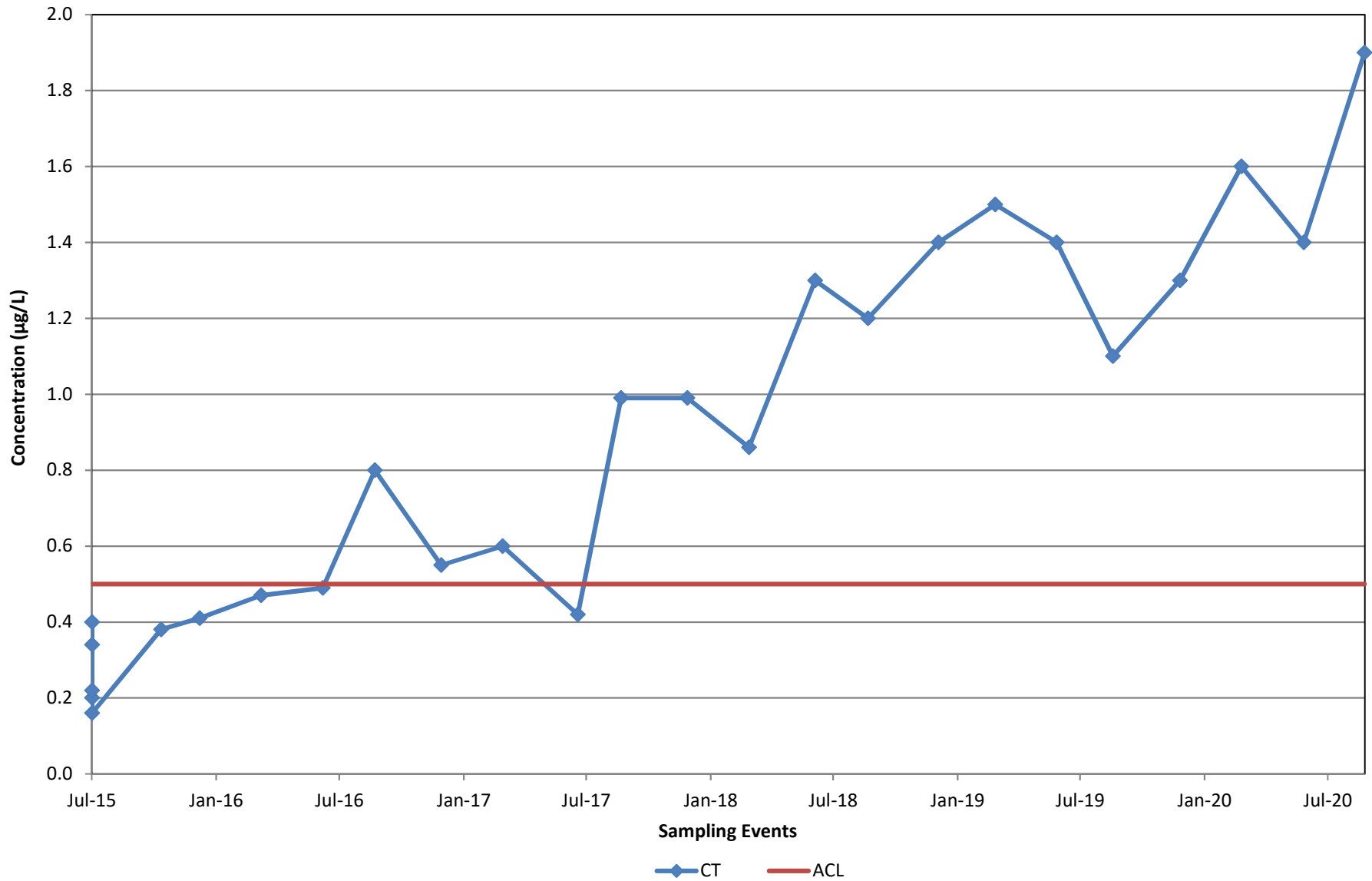
Figure:

**B45**



**MW-BW-89-A**  
**(Hydraulic Zone 3) [northeast of EISB Deployment Area 2B]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

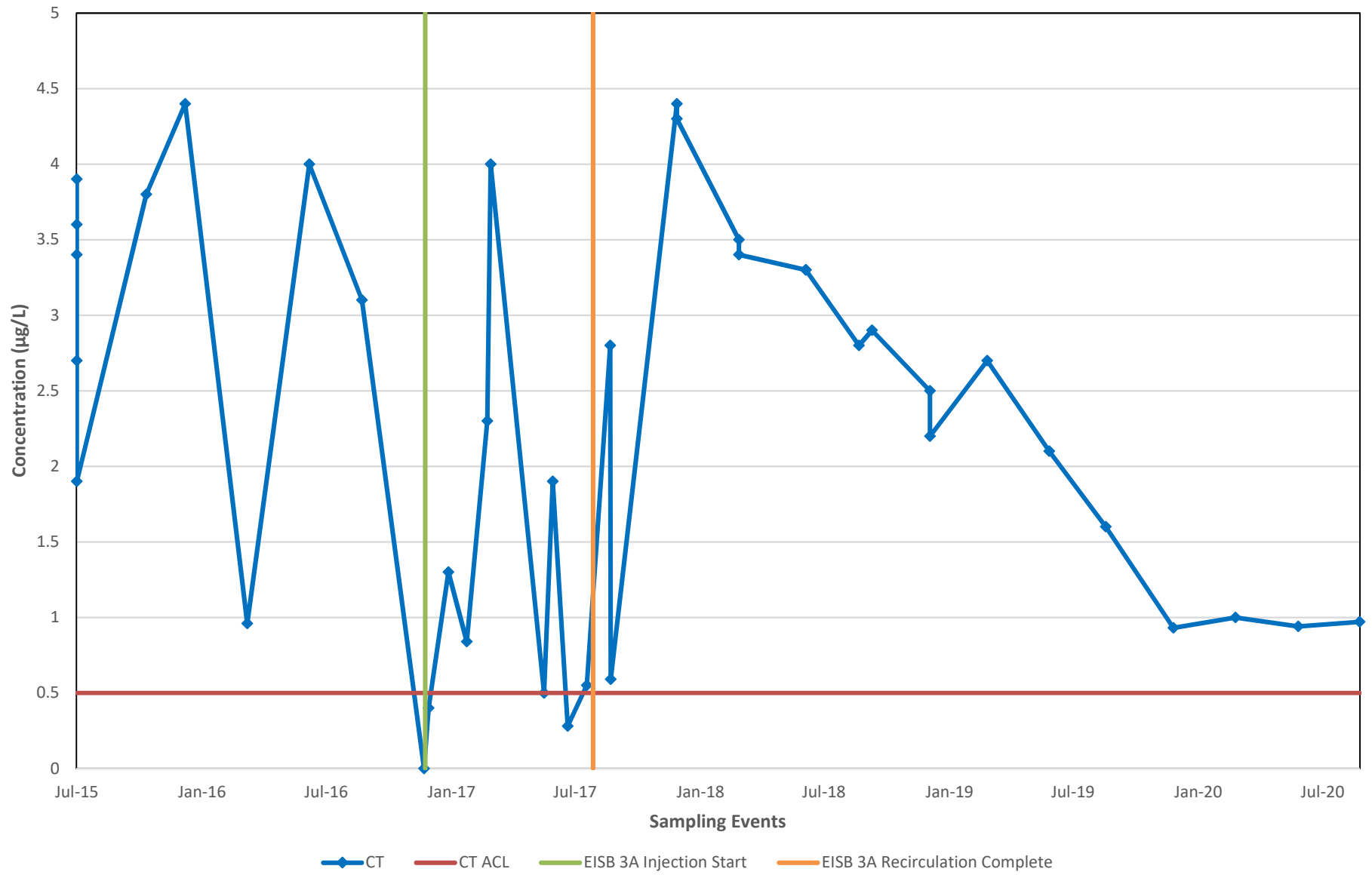
Figure:  
**B46**



**MW-BW-90-A**  
**(Hydraulic Zone 2) [northeast of EISB Deployment Area 3A]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B47**

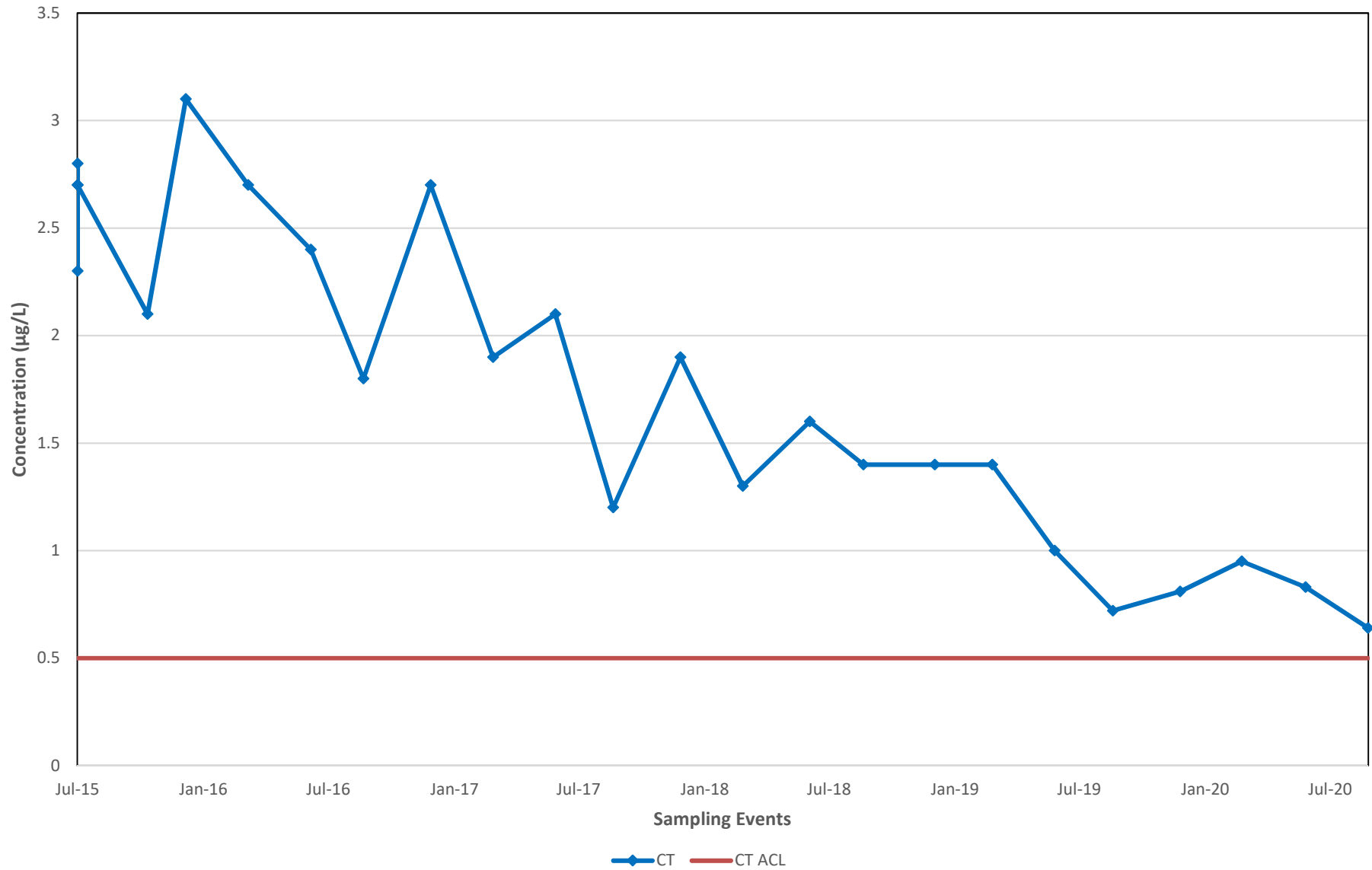


**MW-BW-91-A  
(Hydraulic Zone 2) [EISB Deployment Area 3A]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B48**

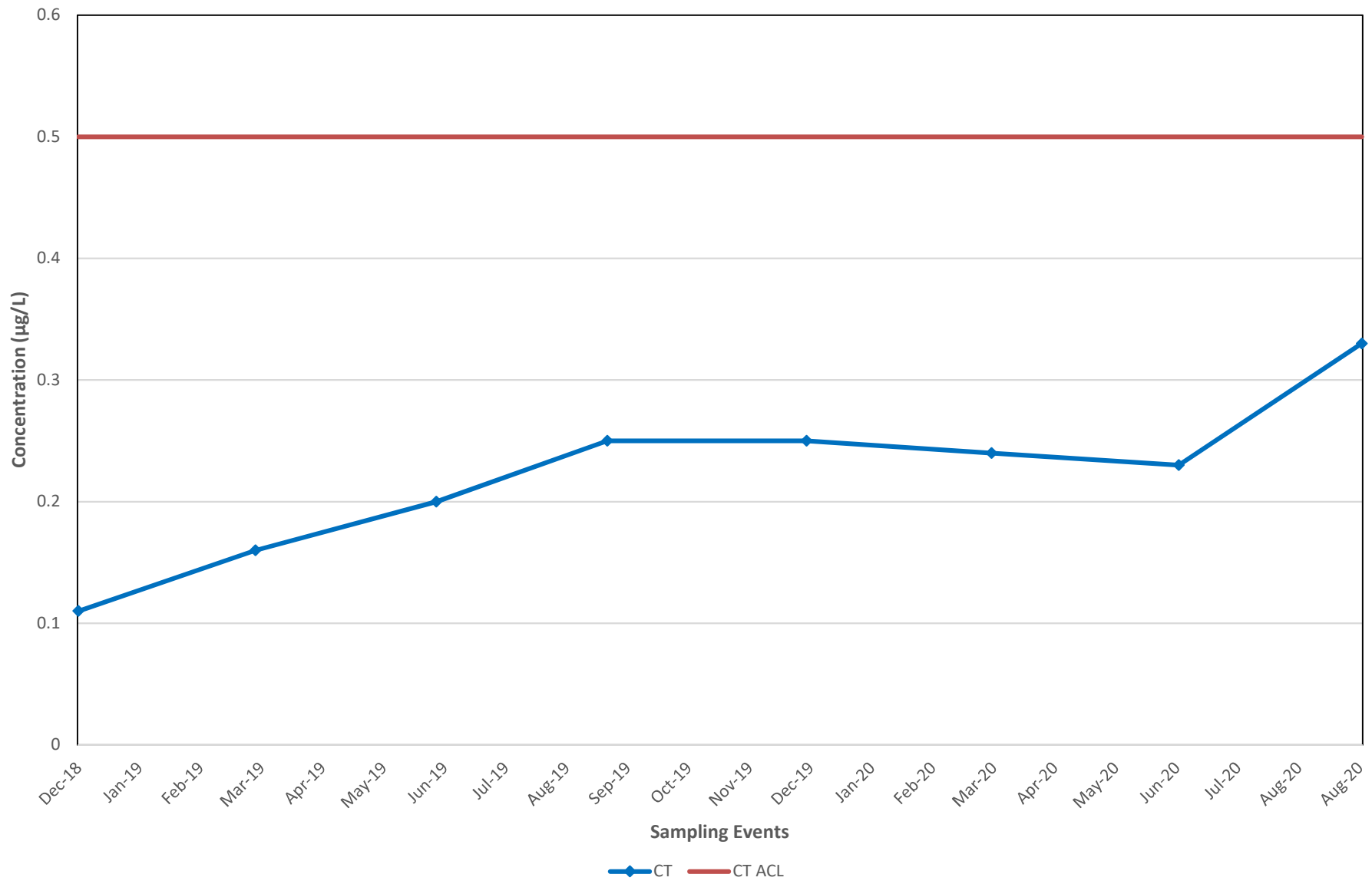




**MW-BW-92-A**  
**(Hydraulic Zone 4) [northwest of EISB Deployment Area 2B]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

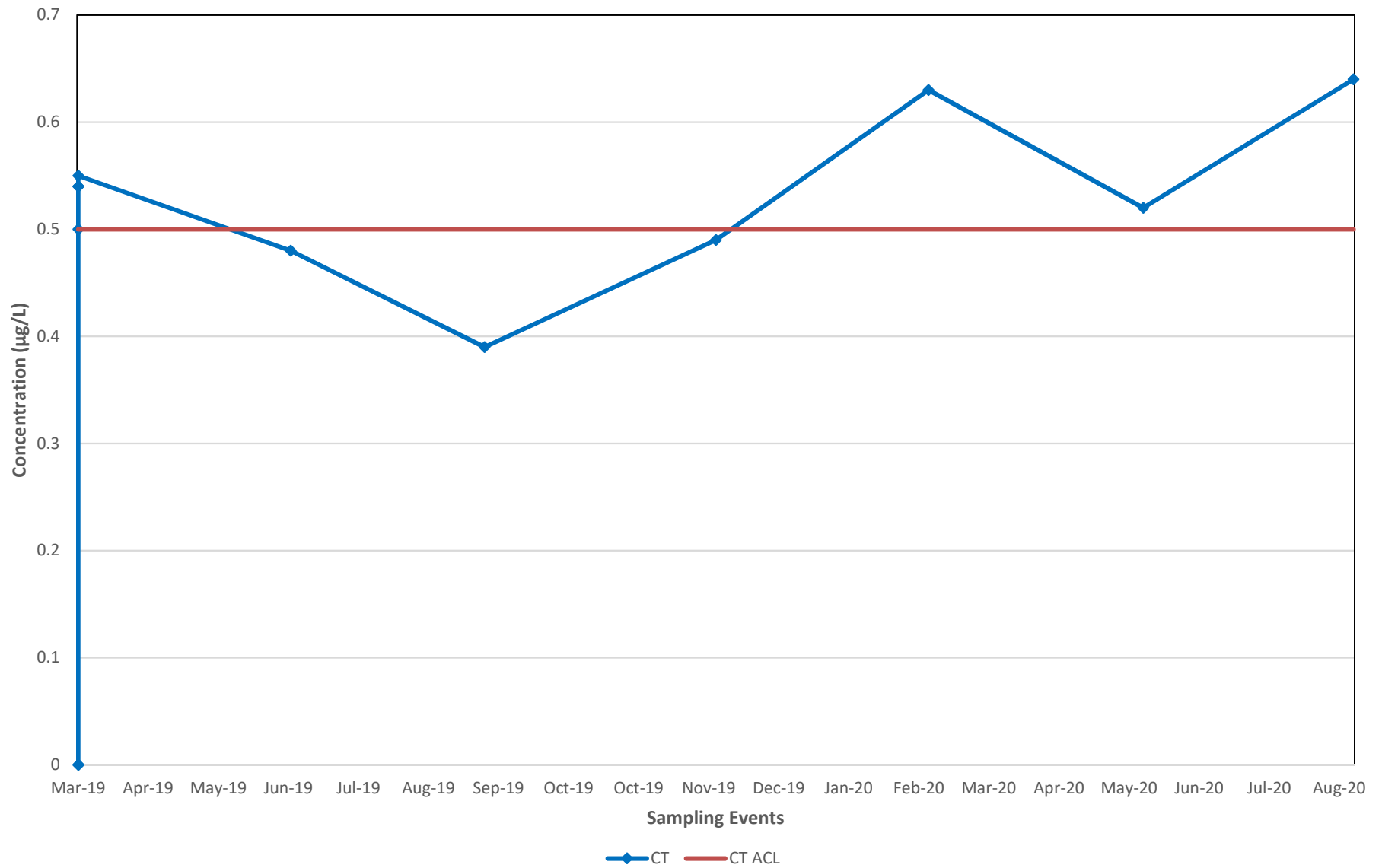
Figure:

**B49**



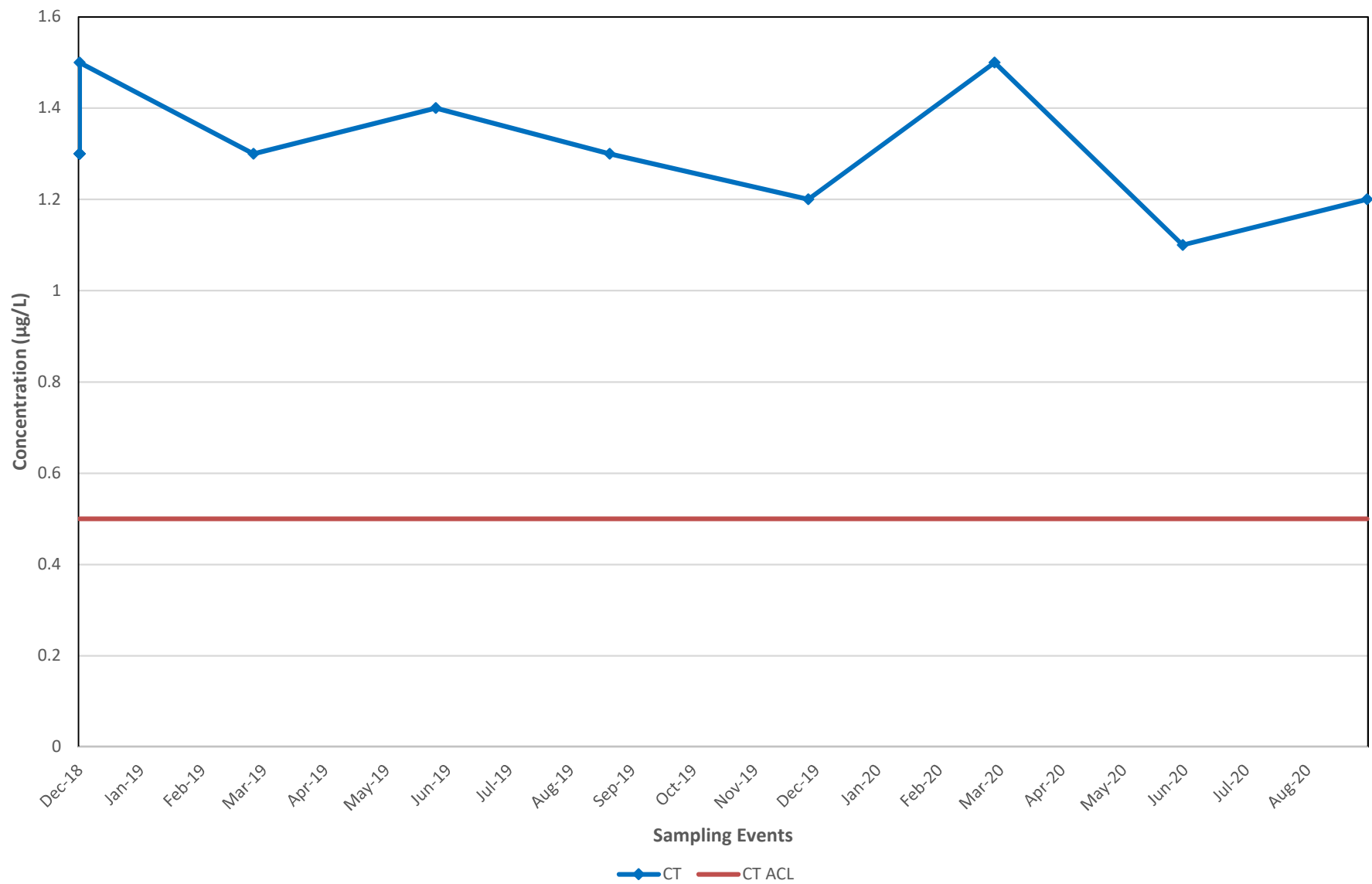
**MW-BW-93-A**  
**(Hydraulic Zone 3) [northwest of EISB Deployment Area 3A]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B50**



**MW-BW-94-AR**  
**(Hydraulic Zone 2) [northeast of EISB Deployment Area 3A]**  
 Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B51**



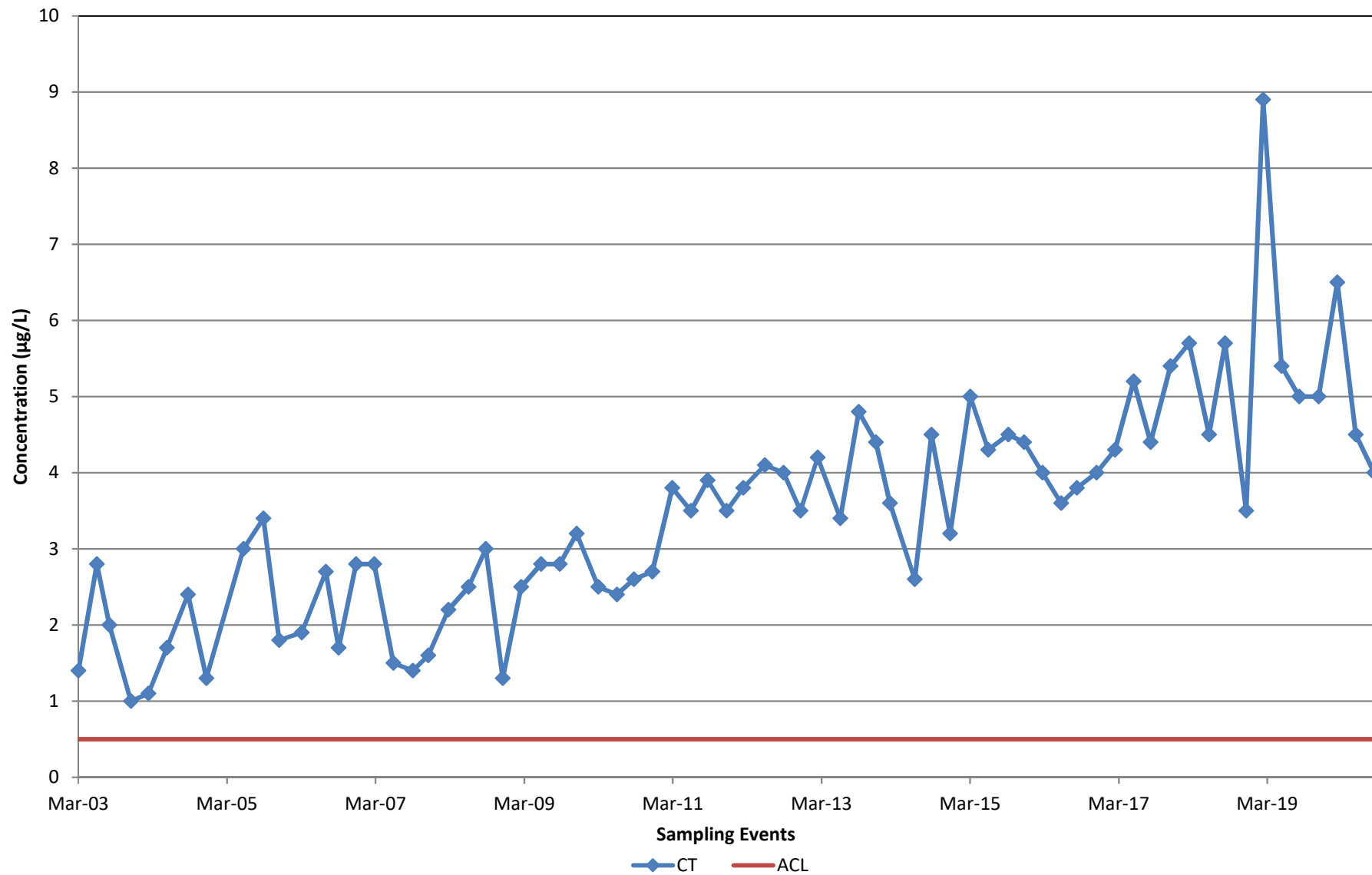
**MW-BW-95-A**  
**(Hydraulic Zone 3) [north of EISB Deployment Area 2B]**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B52**



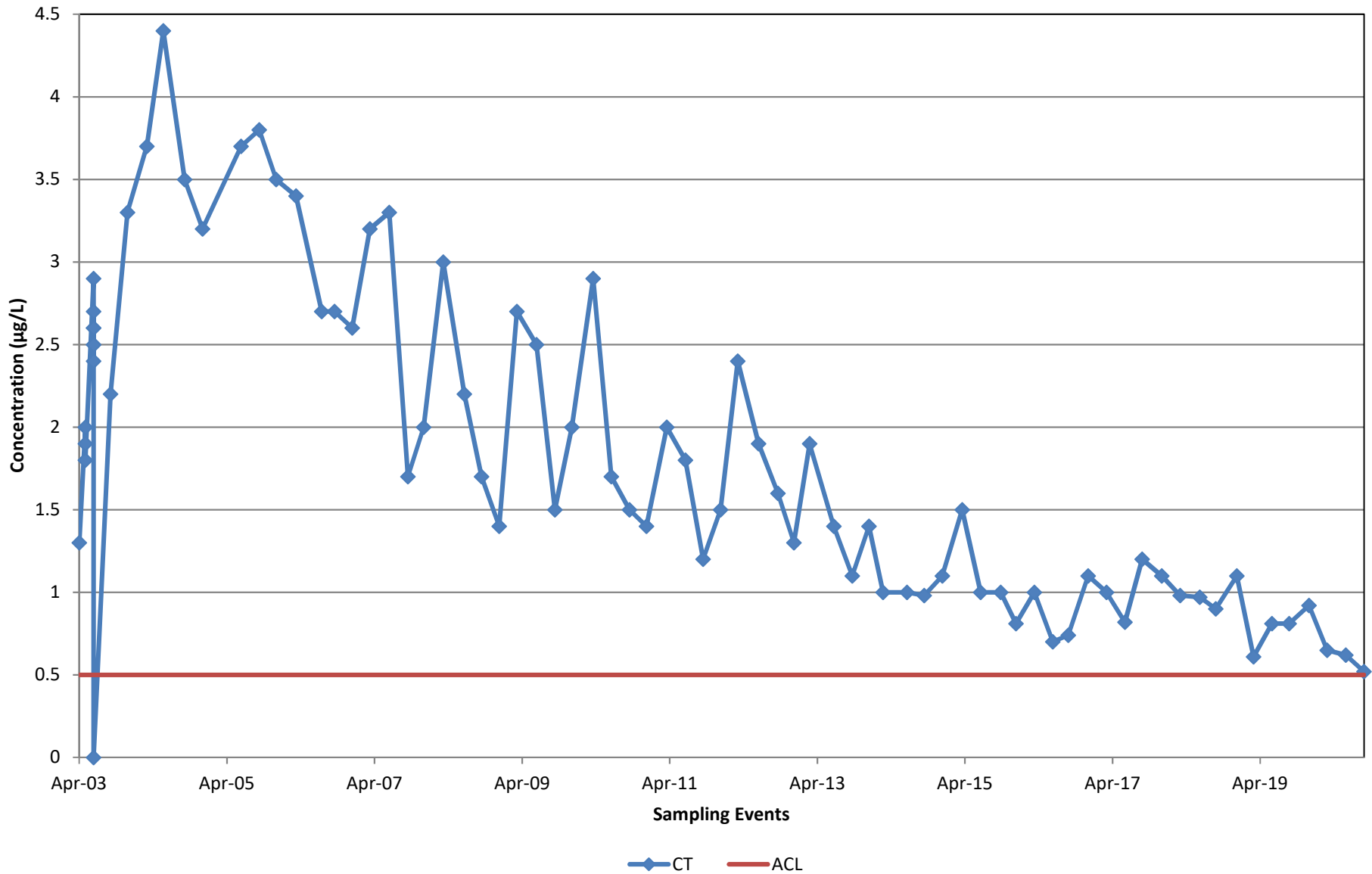


**MP-BW-46-170  
(Hydraulic Zone 6)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B54**

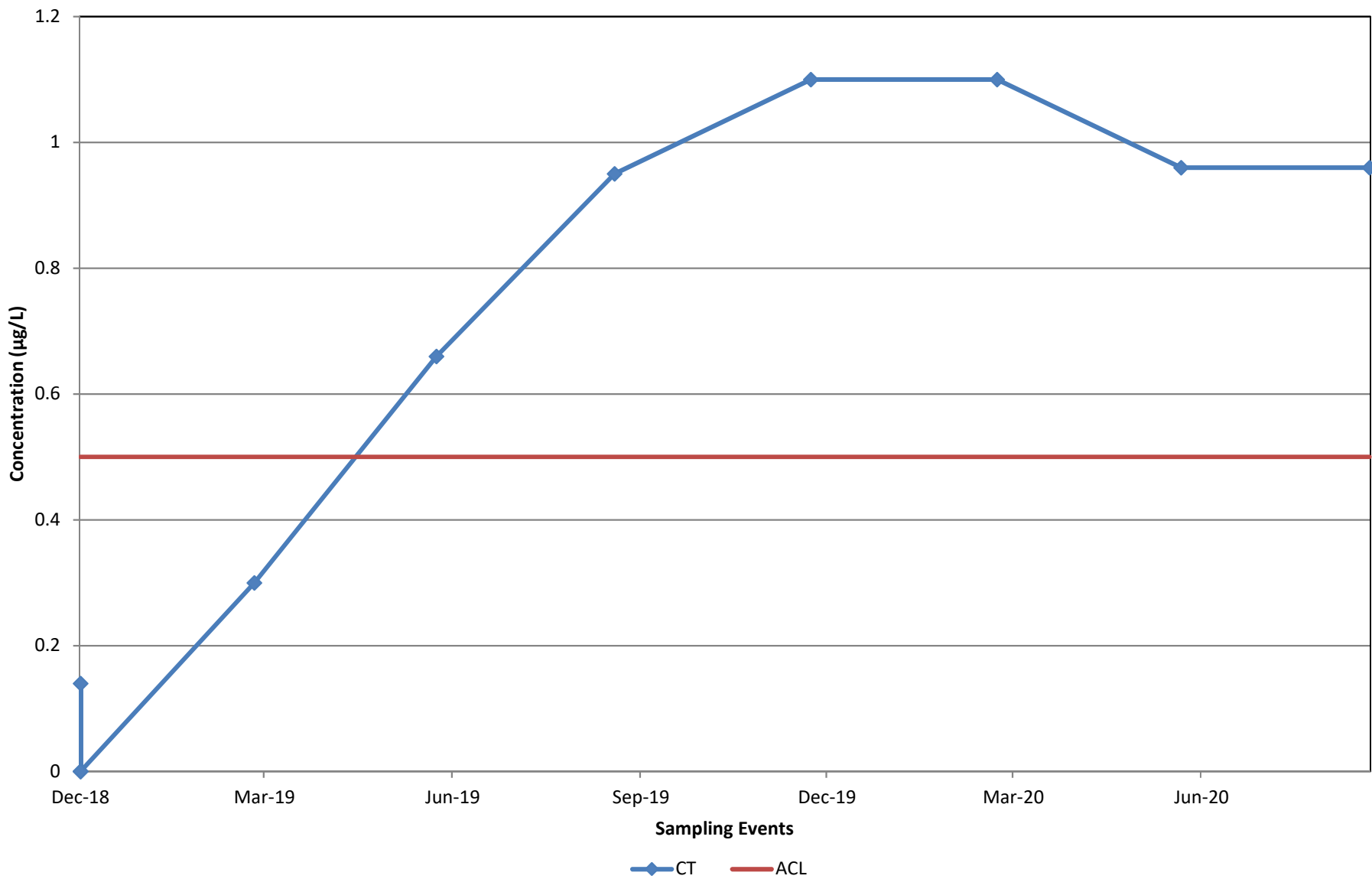


**MW-BW-52-180  
(Hydraulic Zone 6)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B55**



*Ahtna*

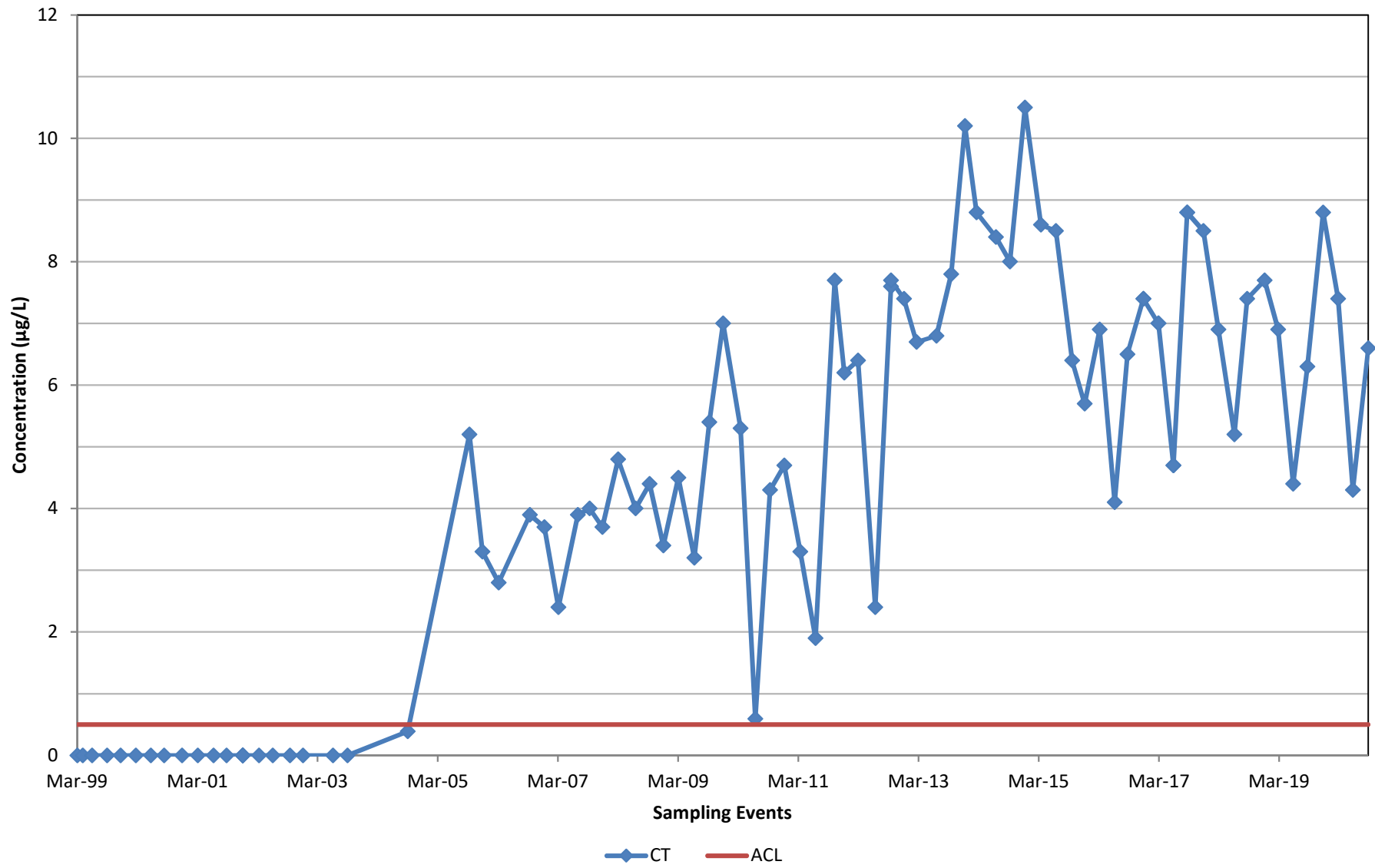
**MW-BW-57-180  
(Hydraulic Zone 6)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B56**



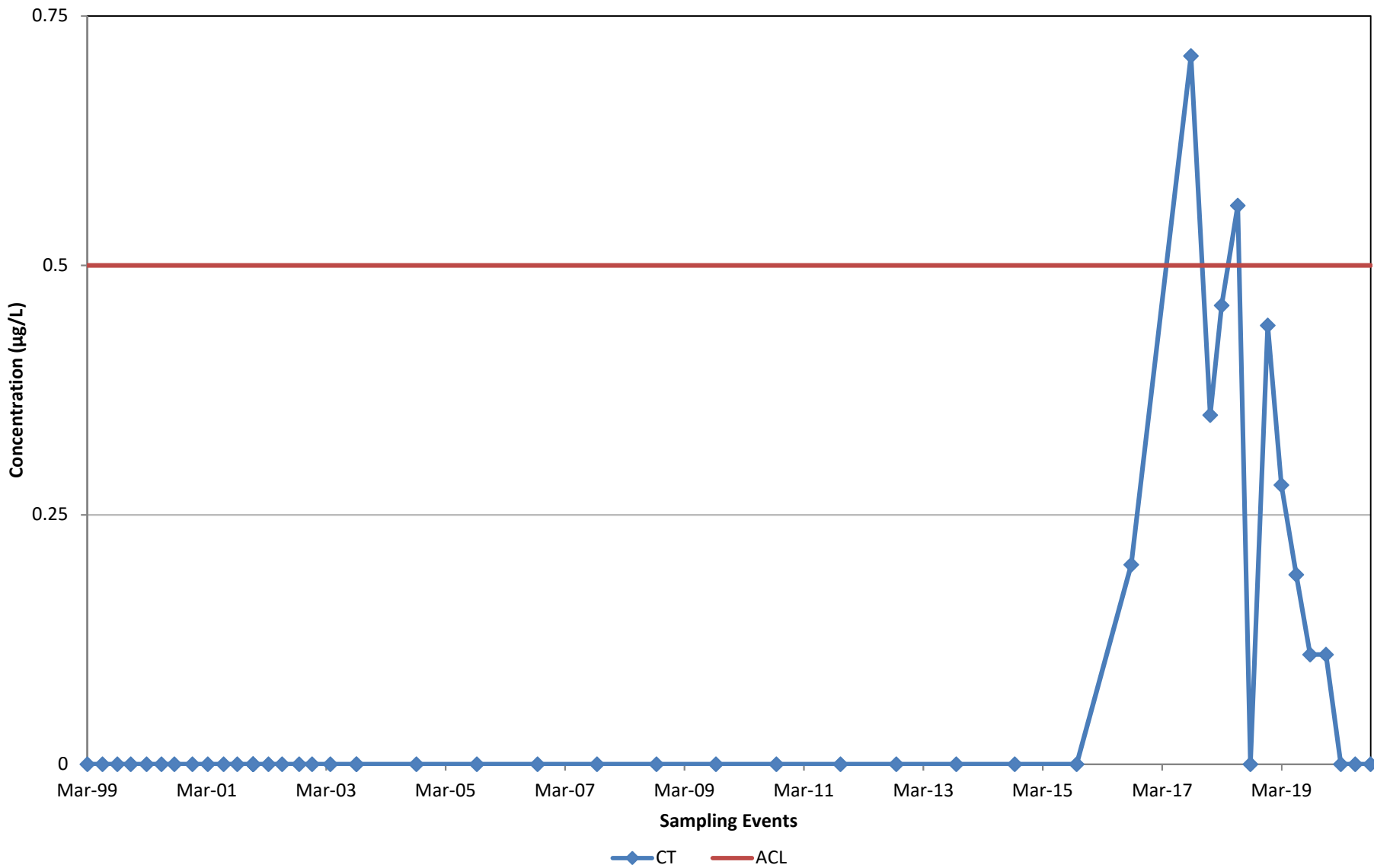


**MW-OU2-64-180  
(Hydraulic Zone 6)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B57**

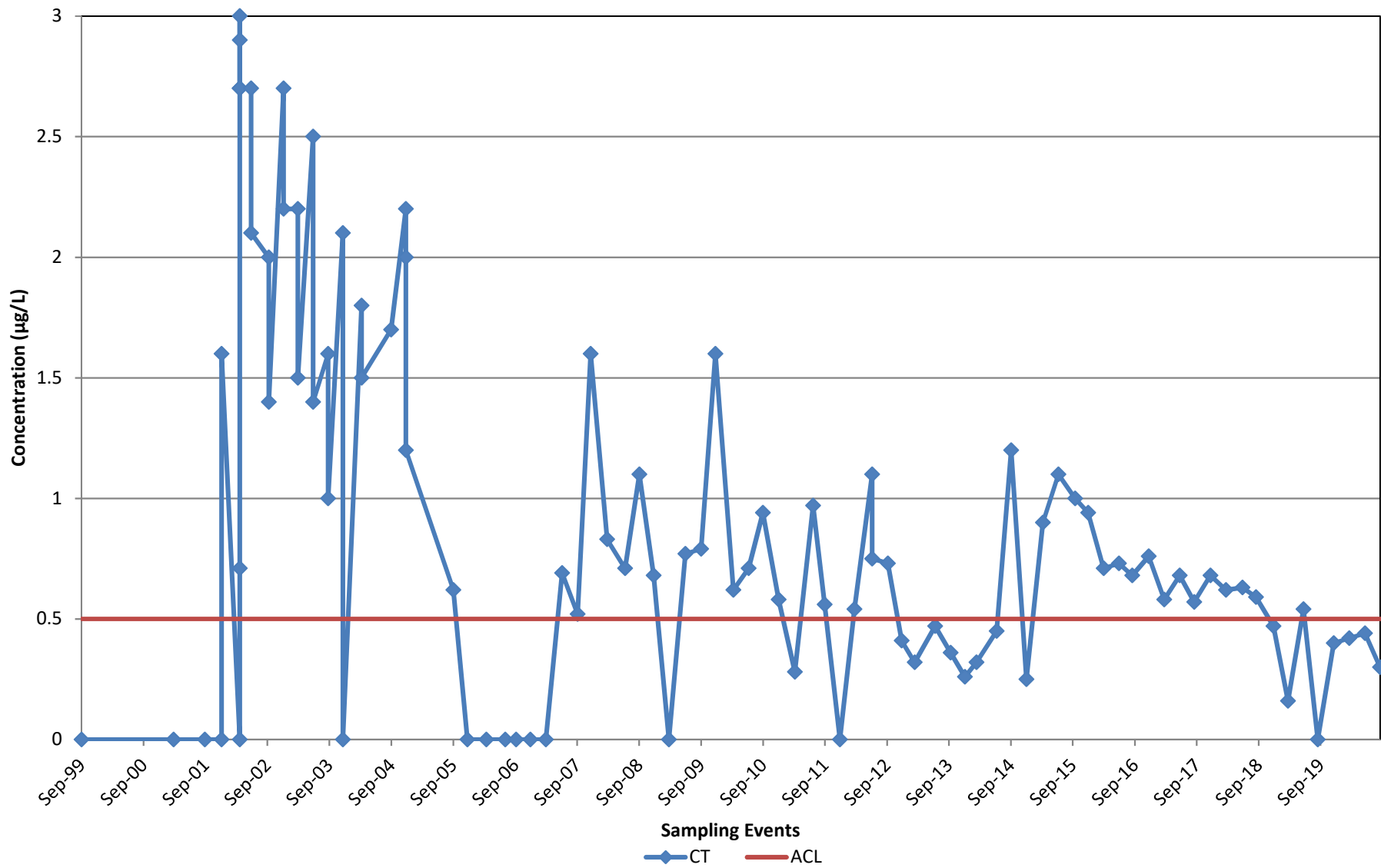


**MW-OU2-67-180  
(Hydraulic Zone 6)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B58**

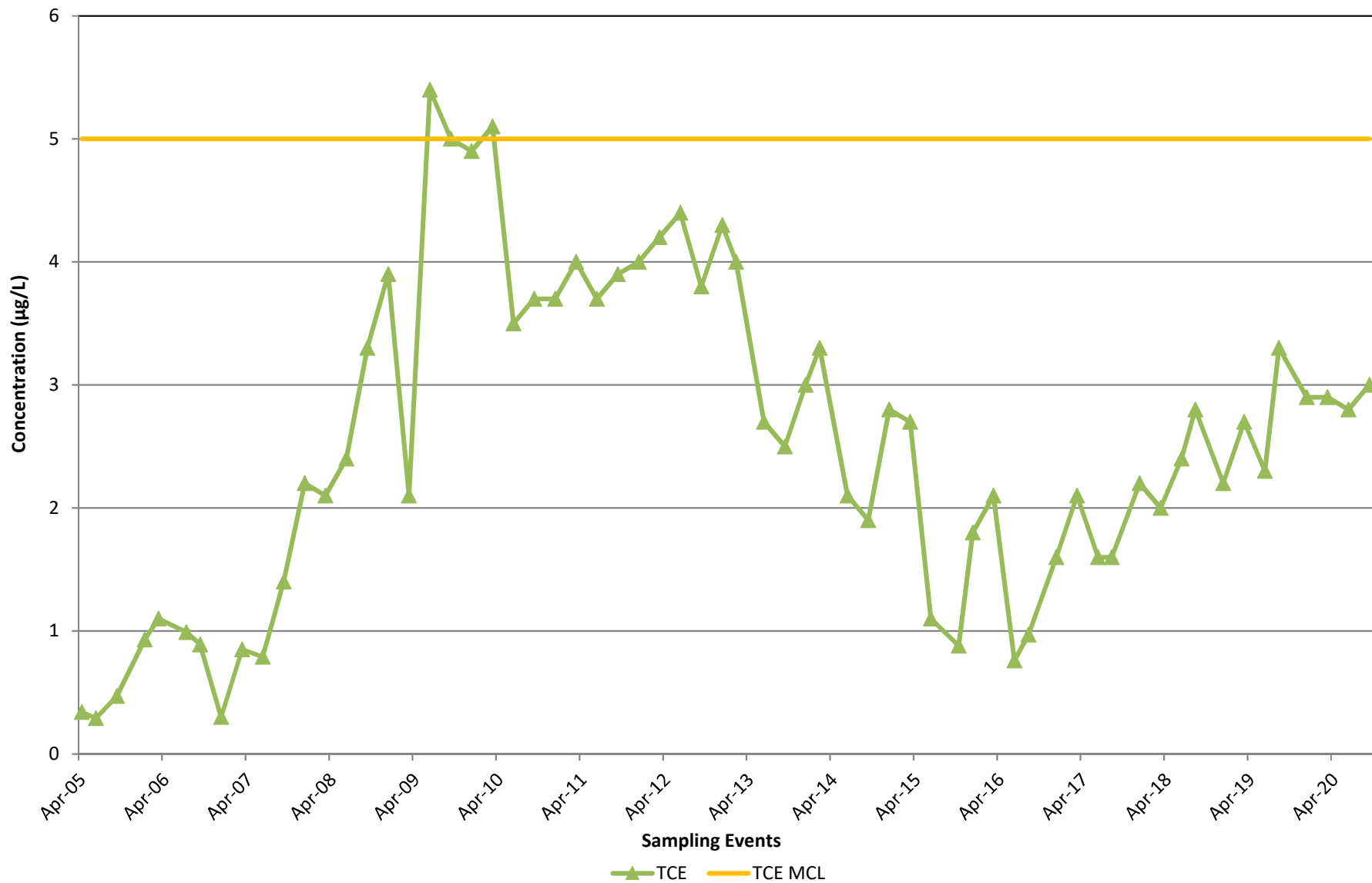


**Airfield  
(Hydraulic Zone 8)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B59**

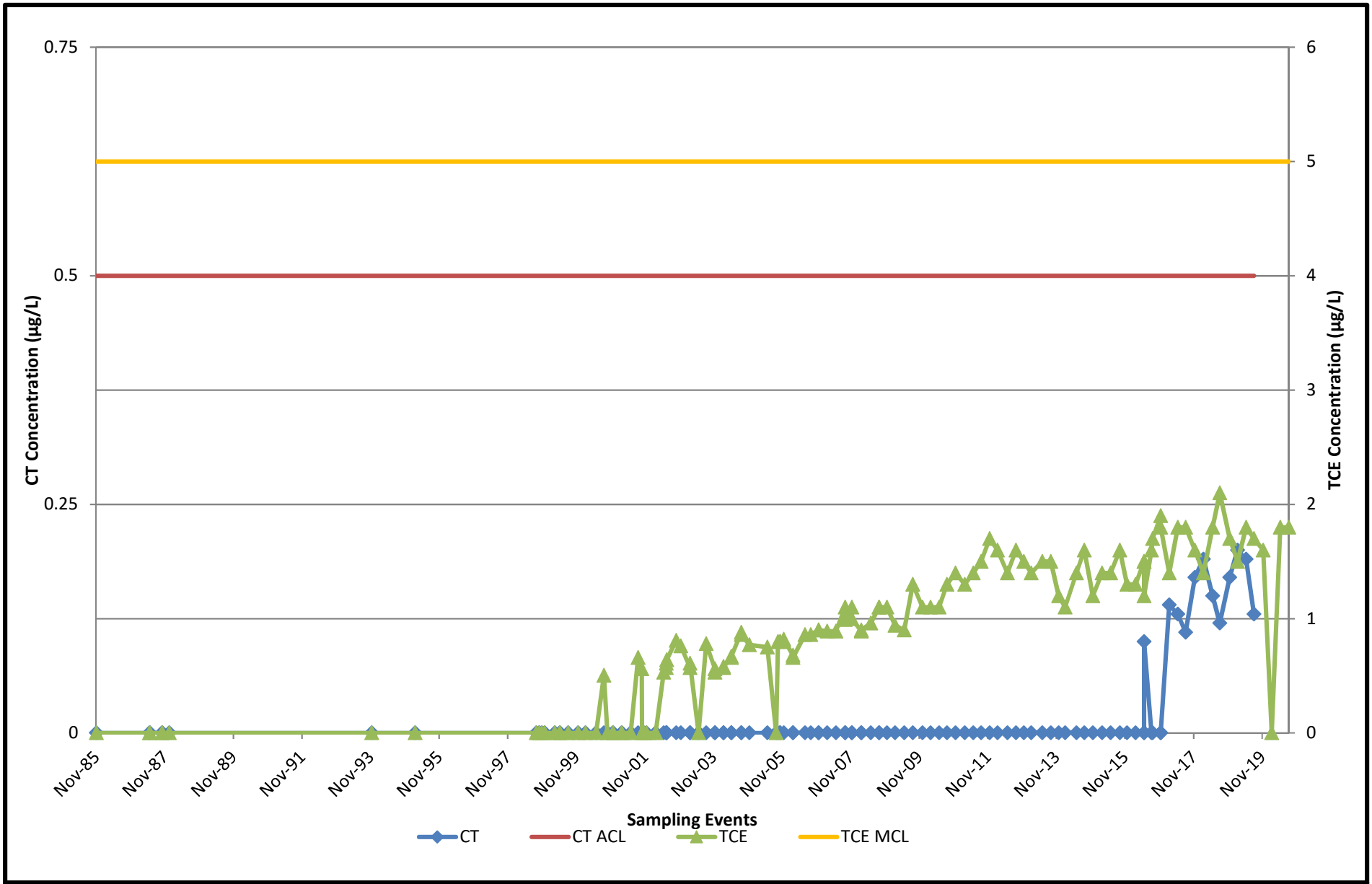


**EW-OU2-07-180  
(southwest of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B60**

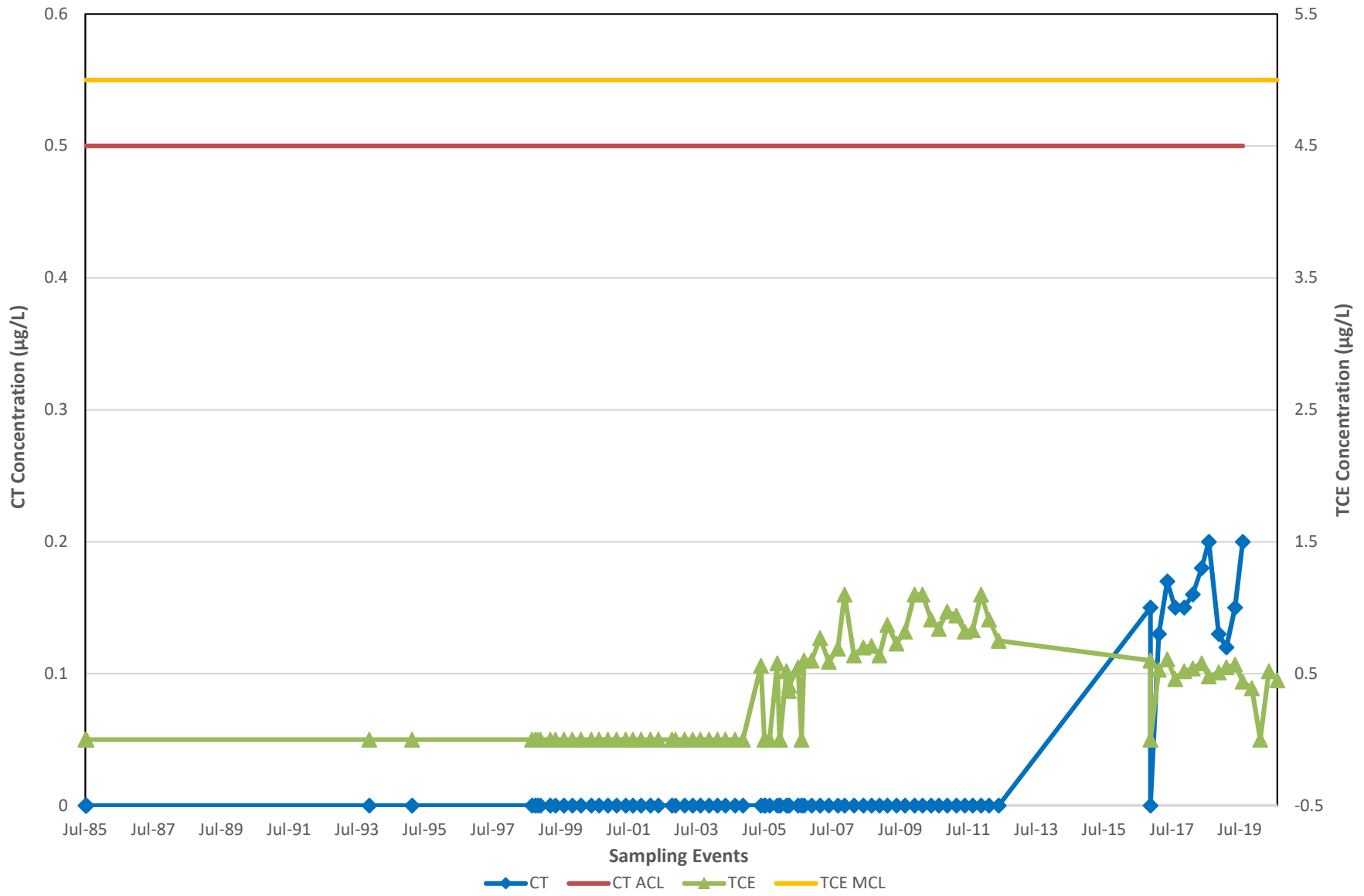


**FO-29**  
**(southeast of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

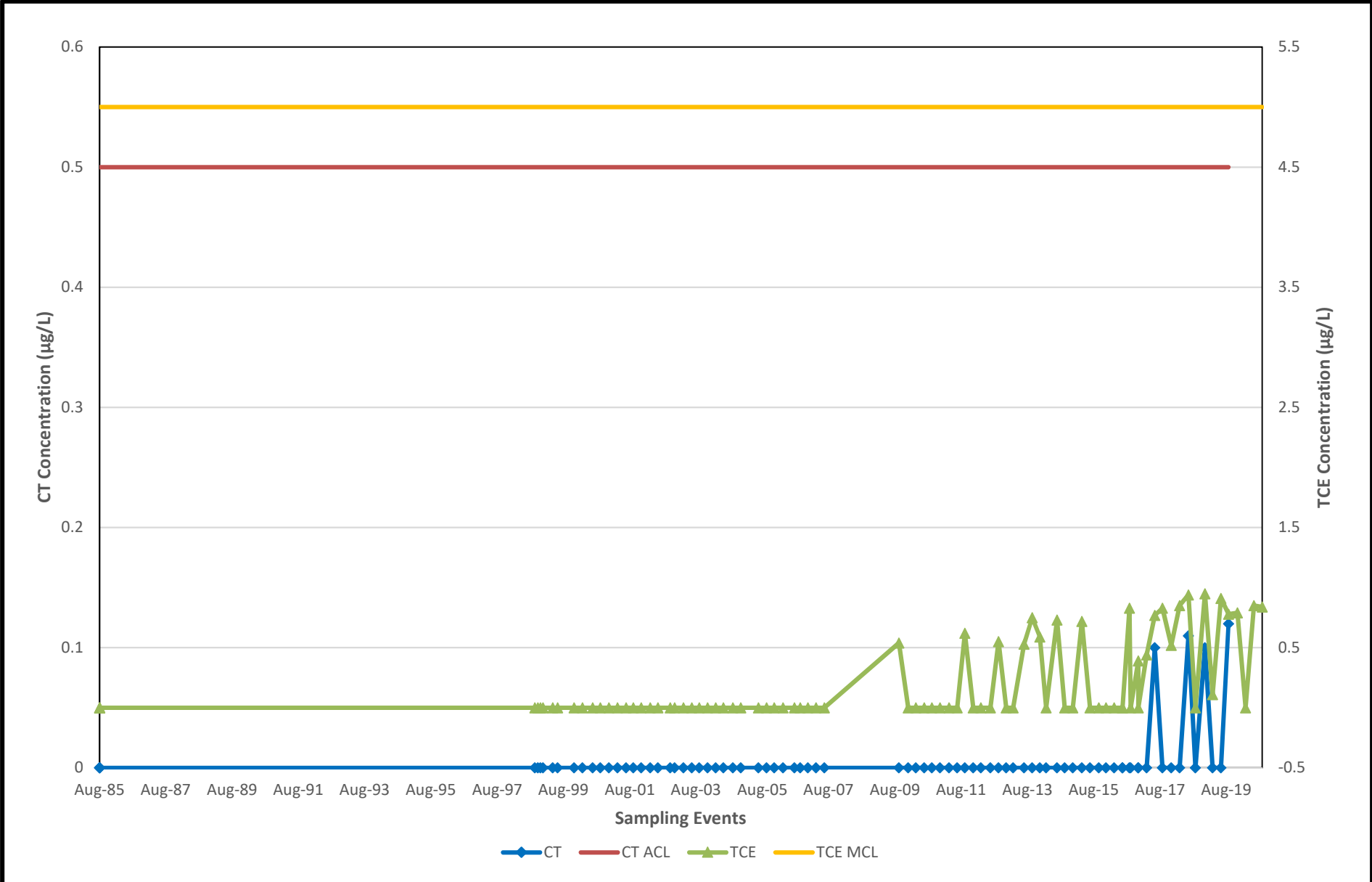
**B61**



**FO-30  
(northeast of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:  
**B62**

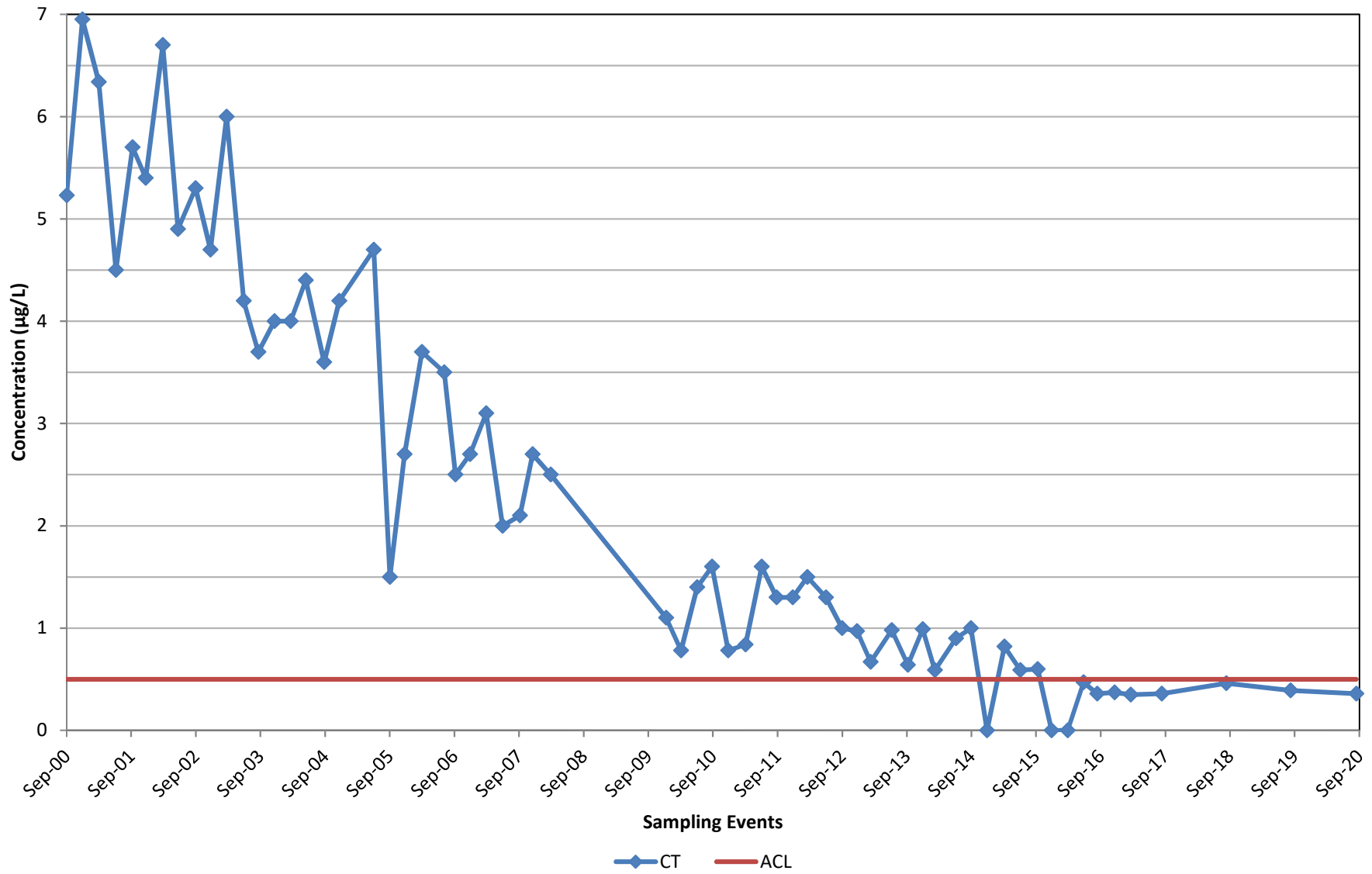


**FO-31**  
**(southeast of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B63**



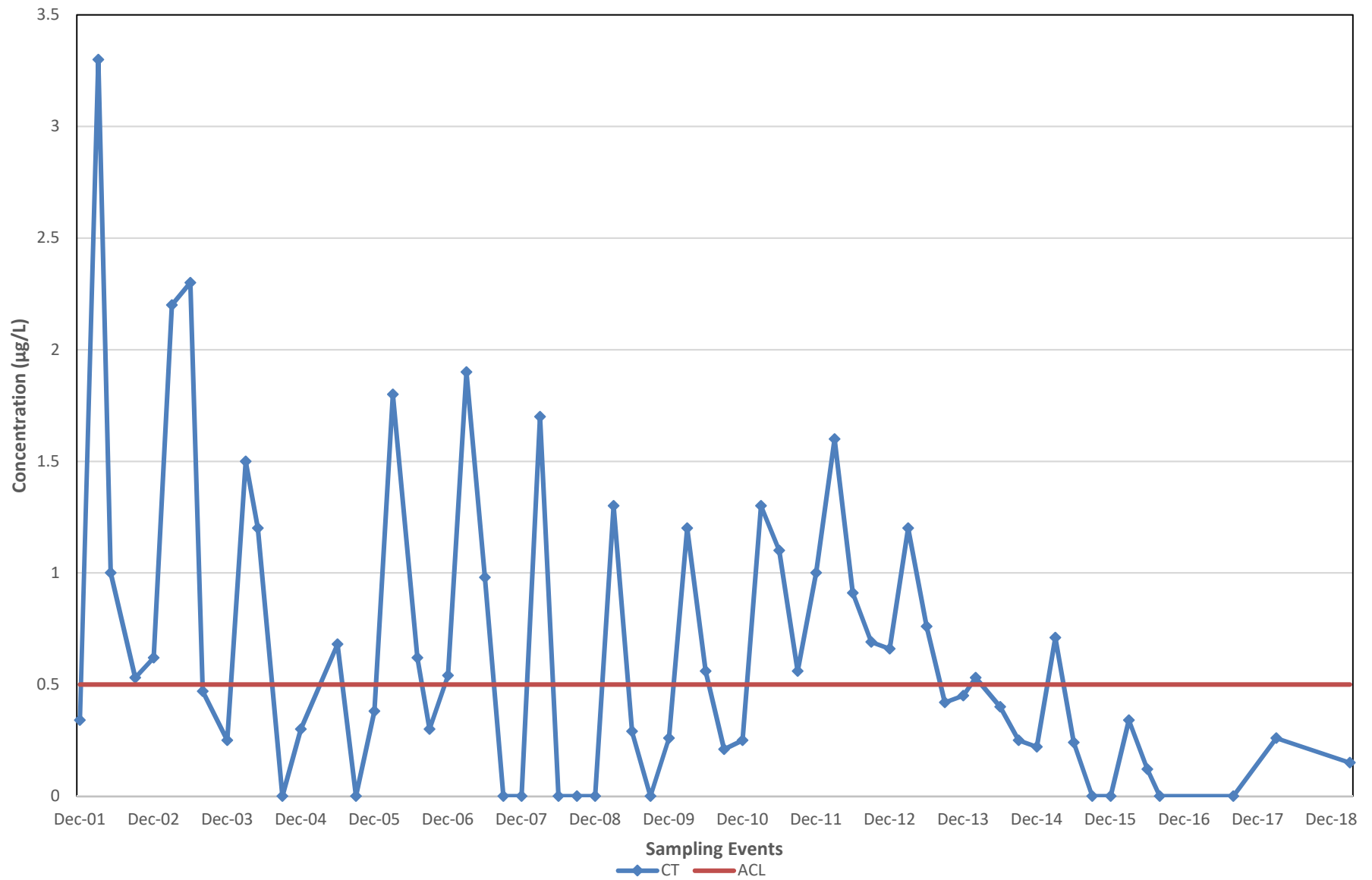
**Mini-Storage  
(Hydraulic Zone 8)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B64**



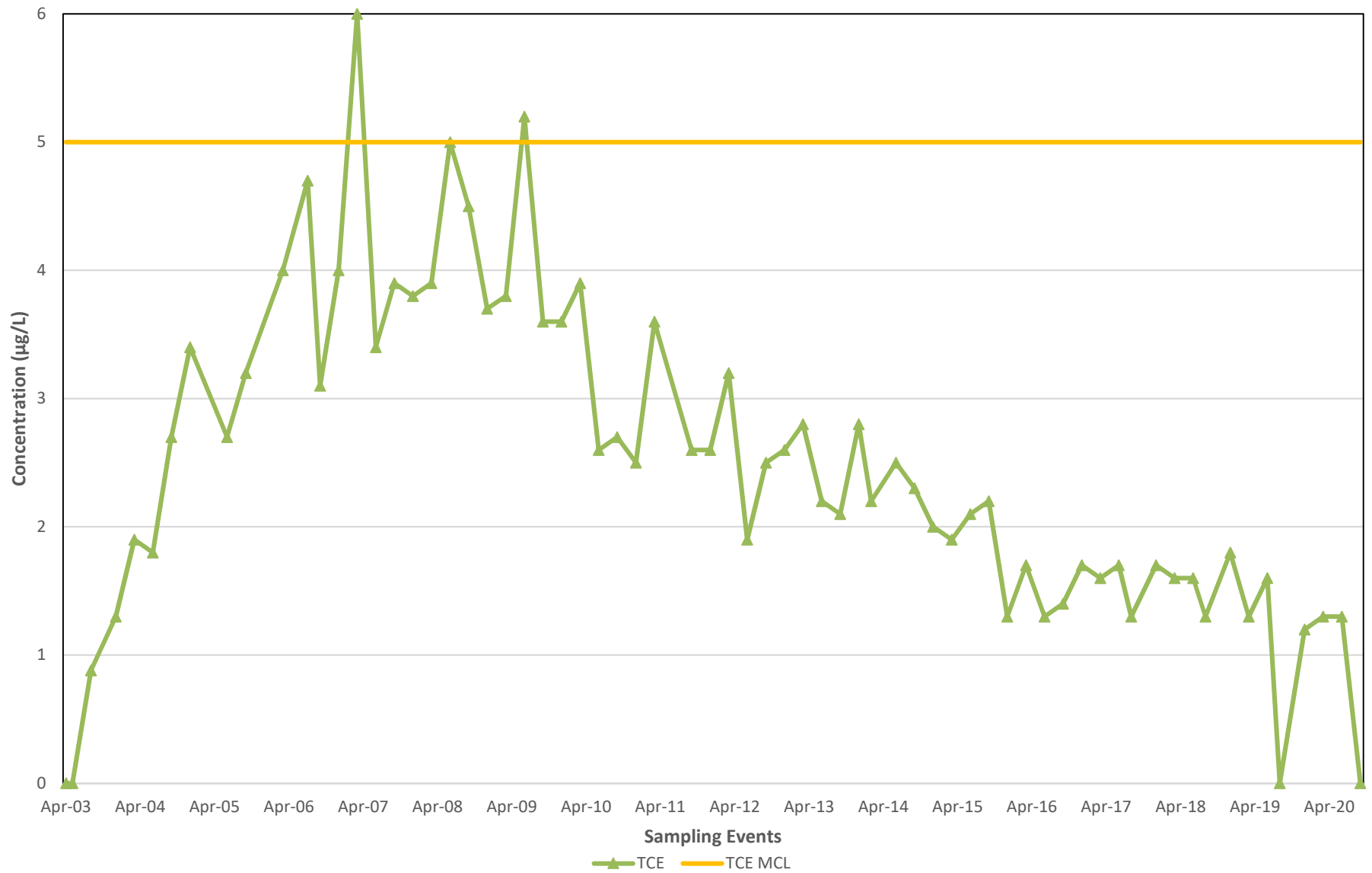


**MP-BW-31-292  
(Hydraulic Zone 8)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B65**



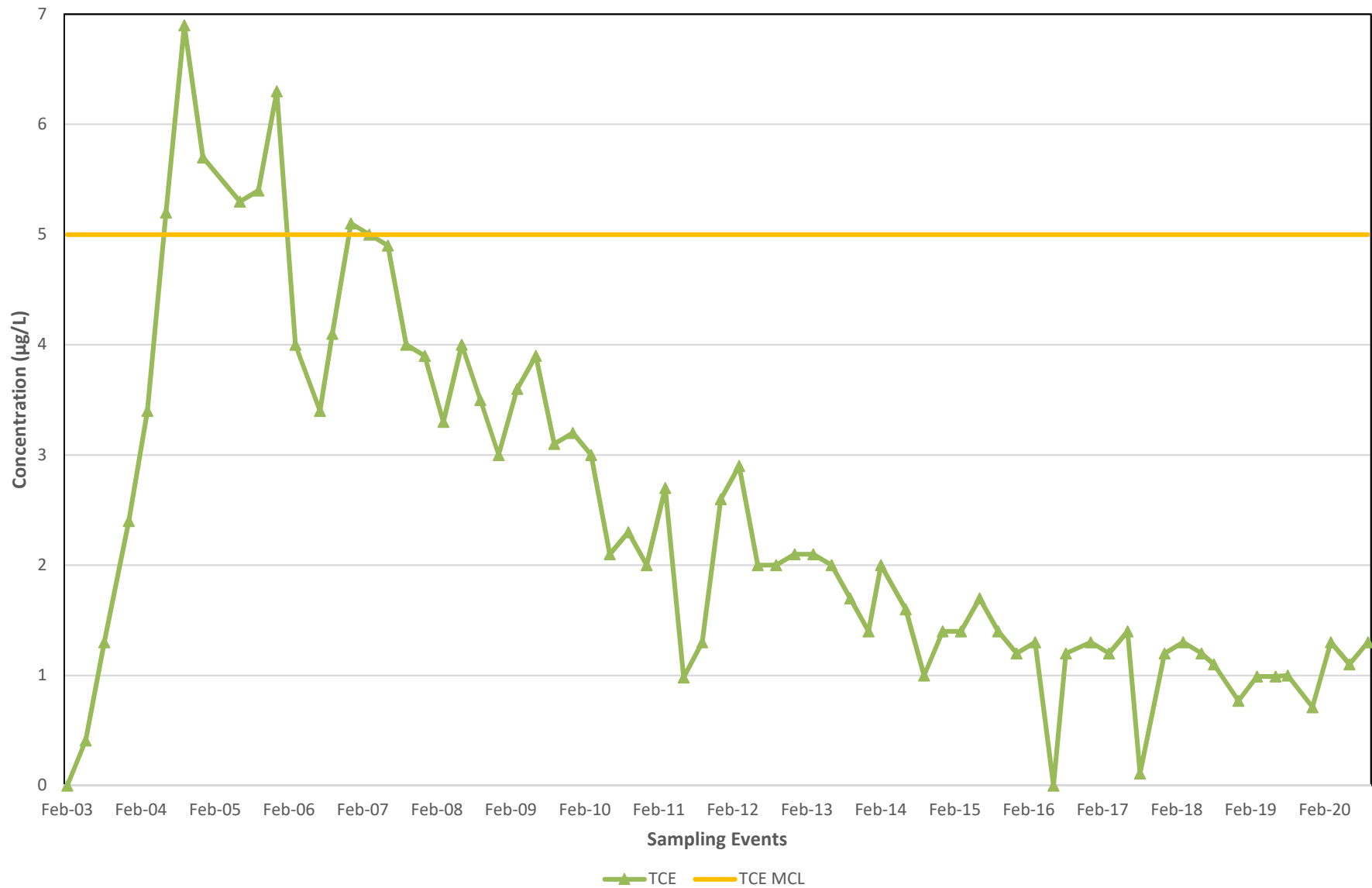
*Ahtna*

**MP-BW-41-353  
(west of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B66**

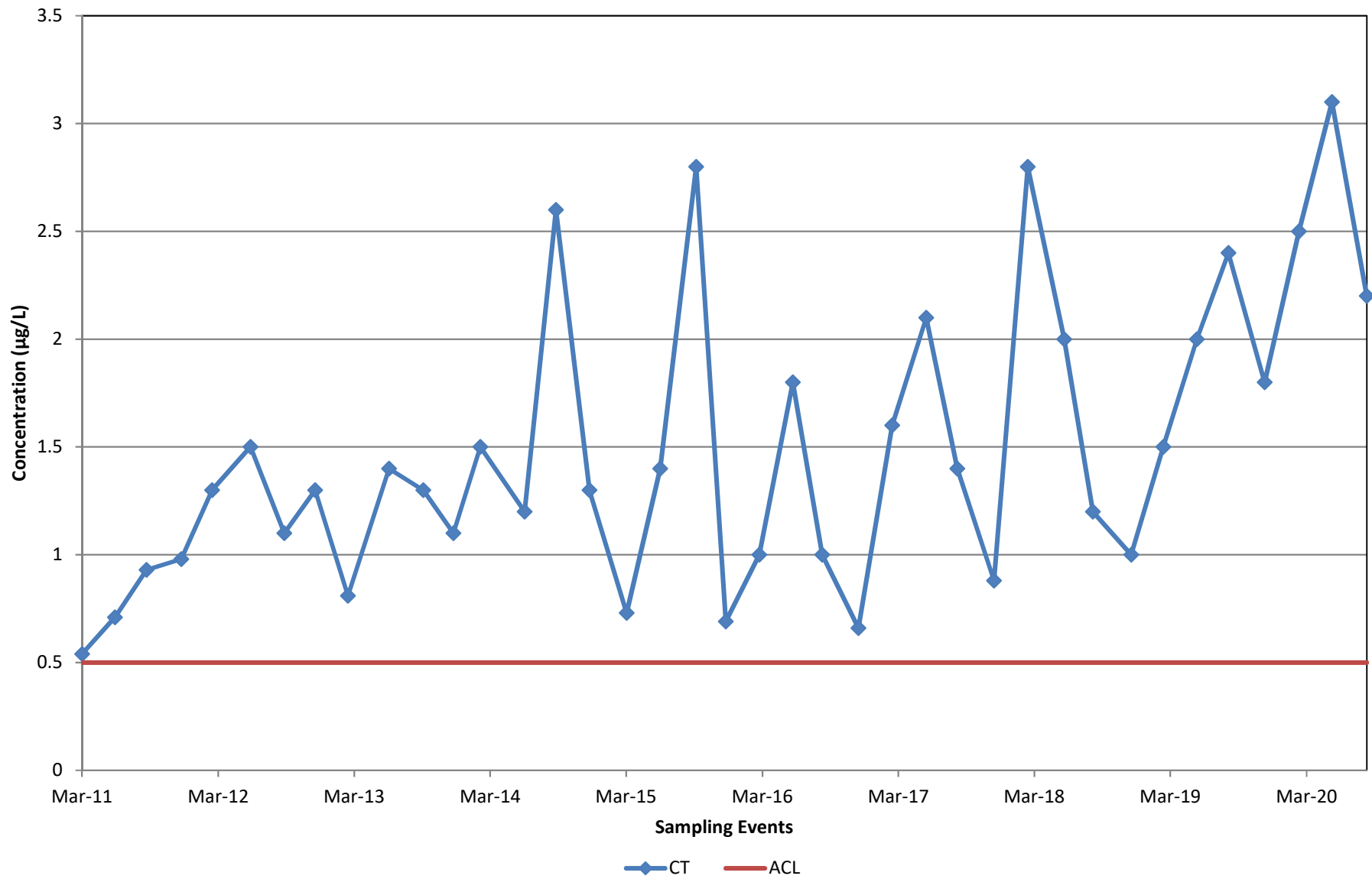


**MP-BW-42-345  
(northwest of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B67**

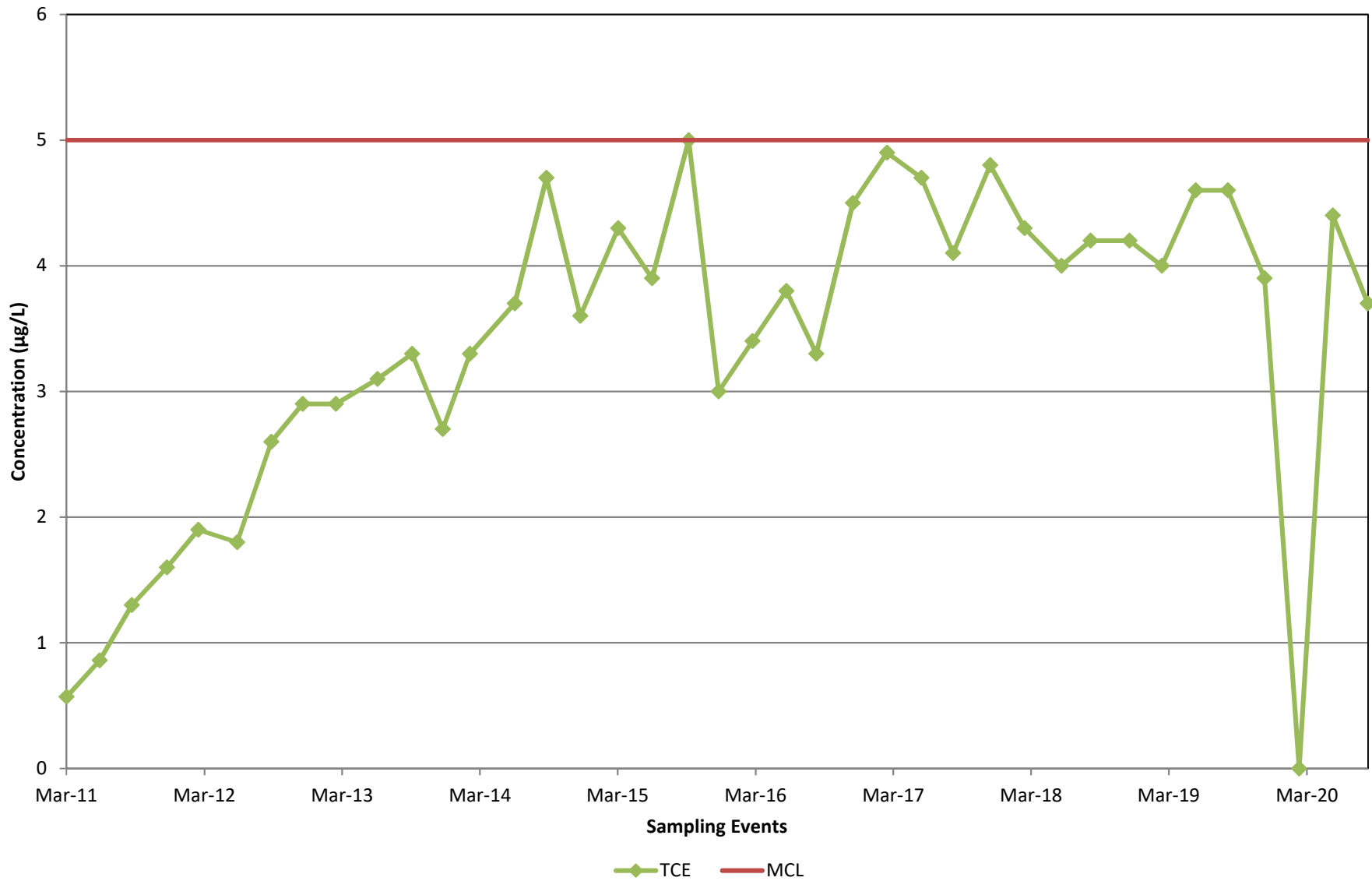


**MP-BW-49-316  
(Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B68**

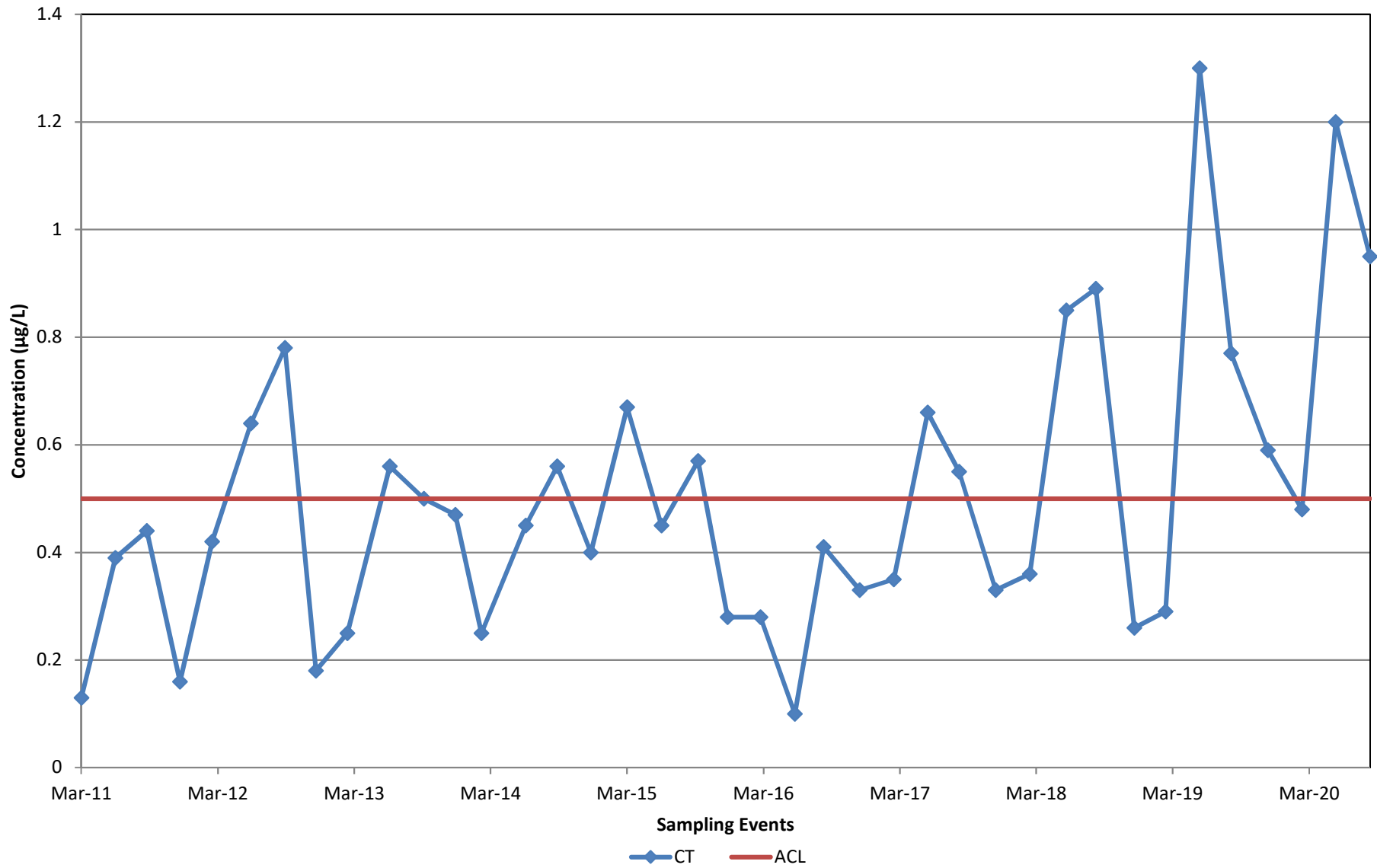


**MP-BW-49-400  
(Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B69**

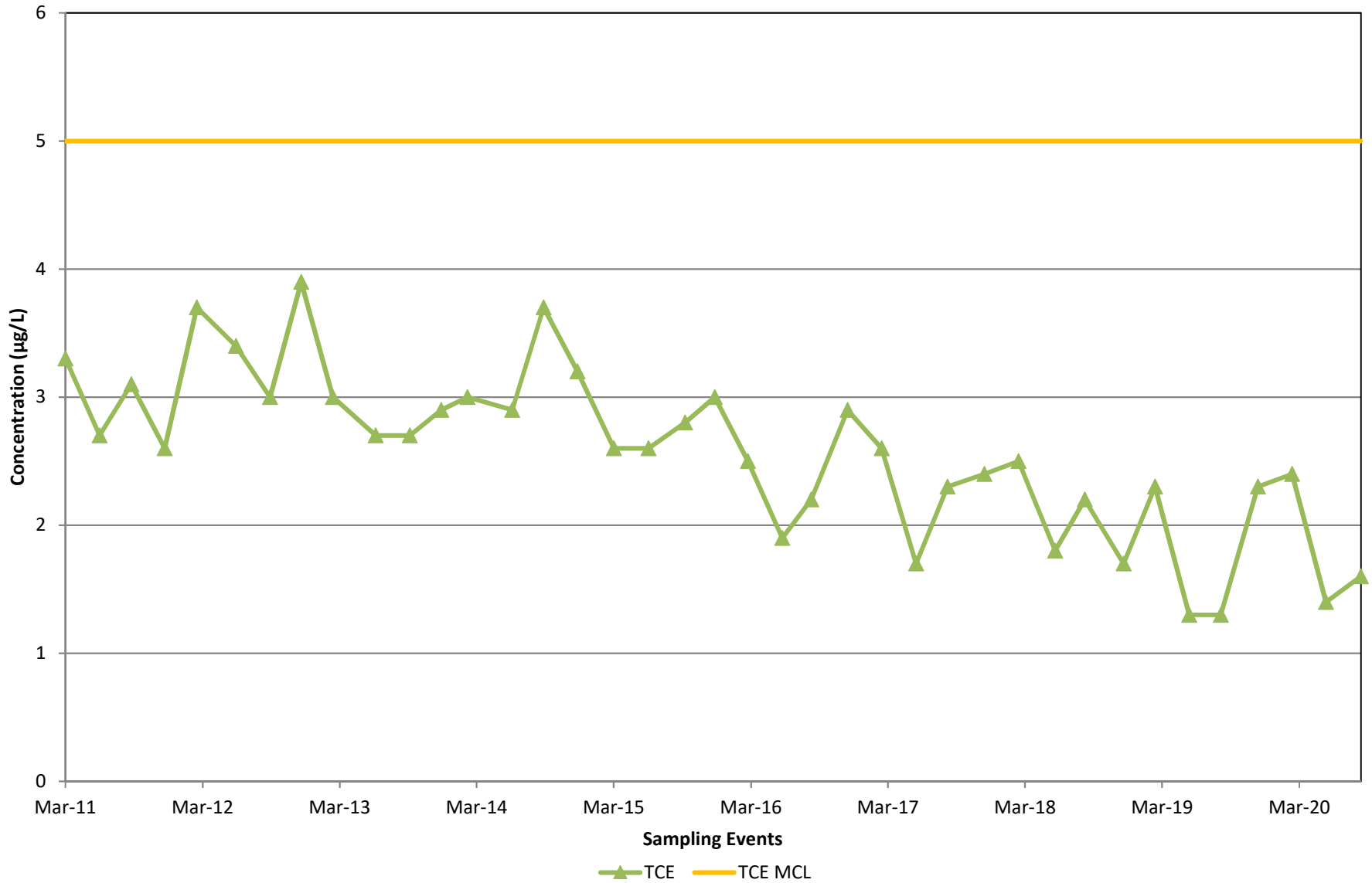


**MP-BW-50-339  
(Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B70**

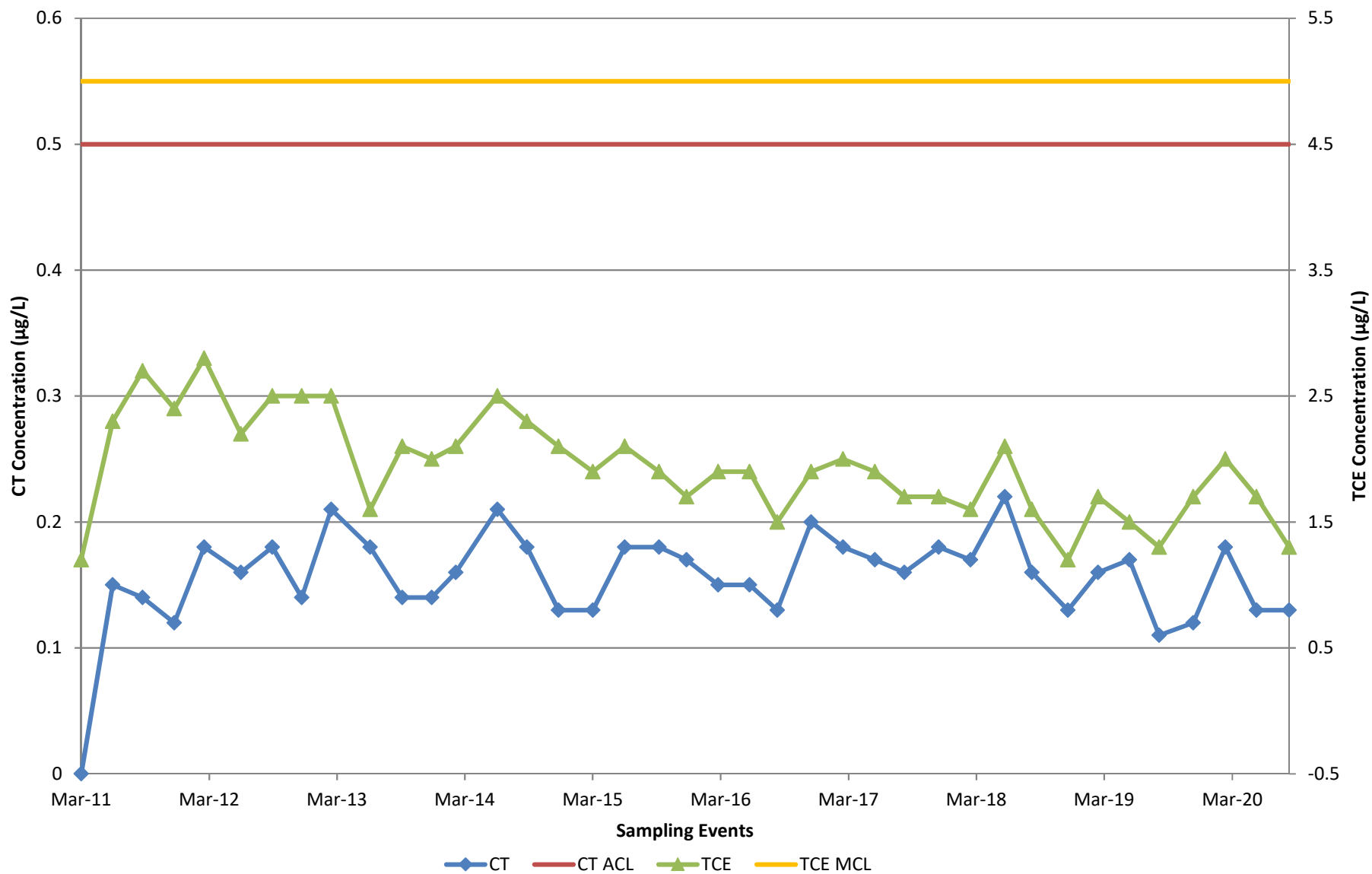


**MP-BW-50-384  
(Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B71**



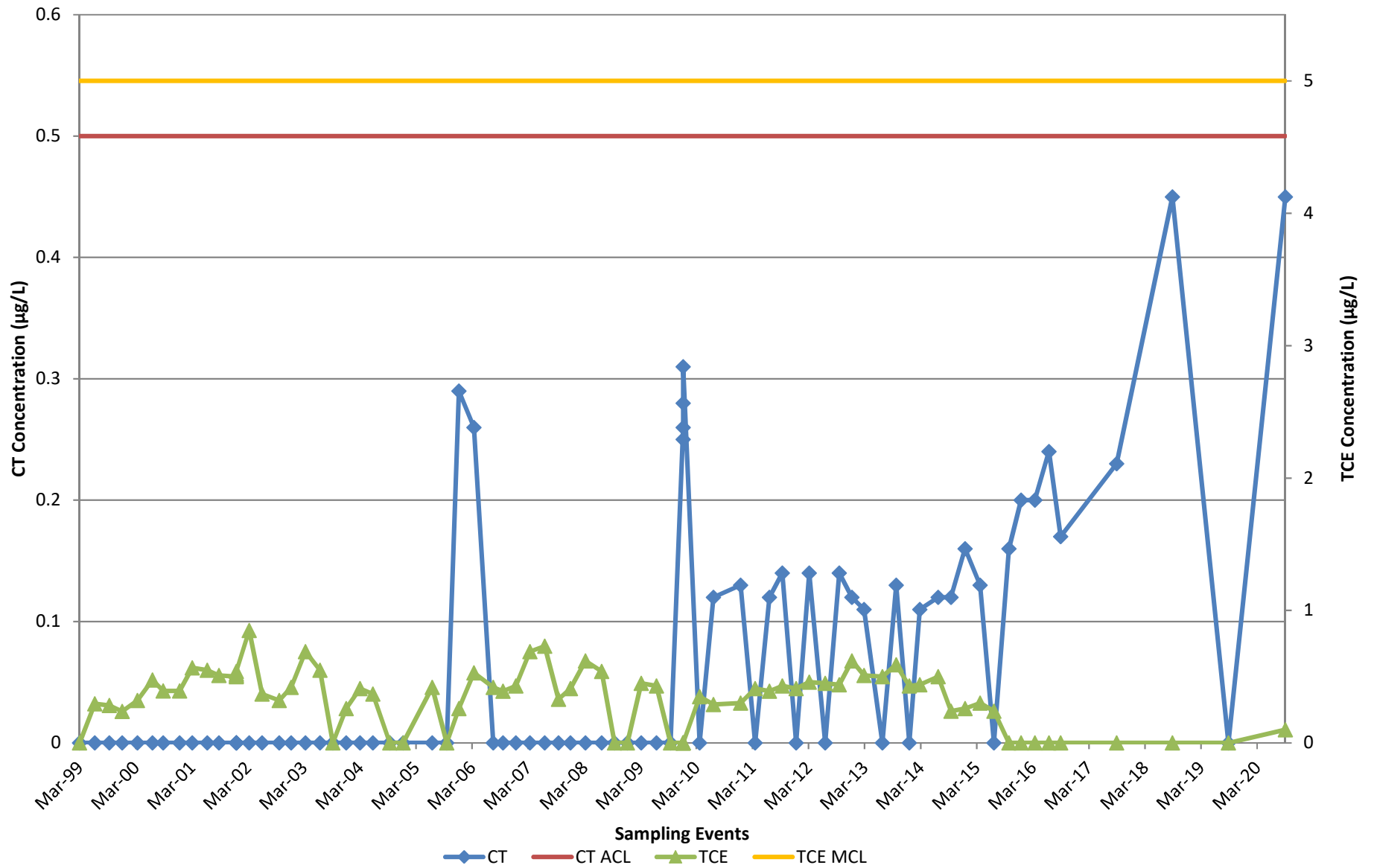
**MP-BW-51-405  
(Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B72**



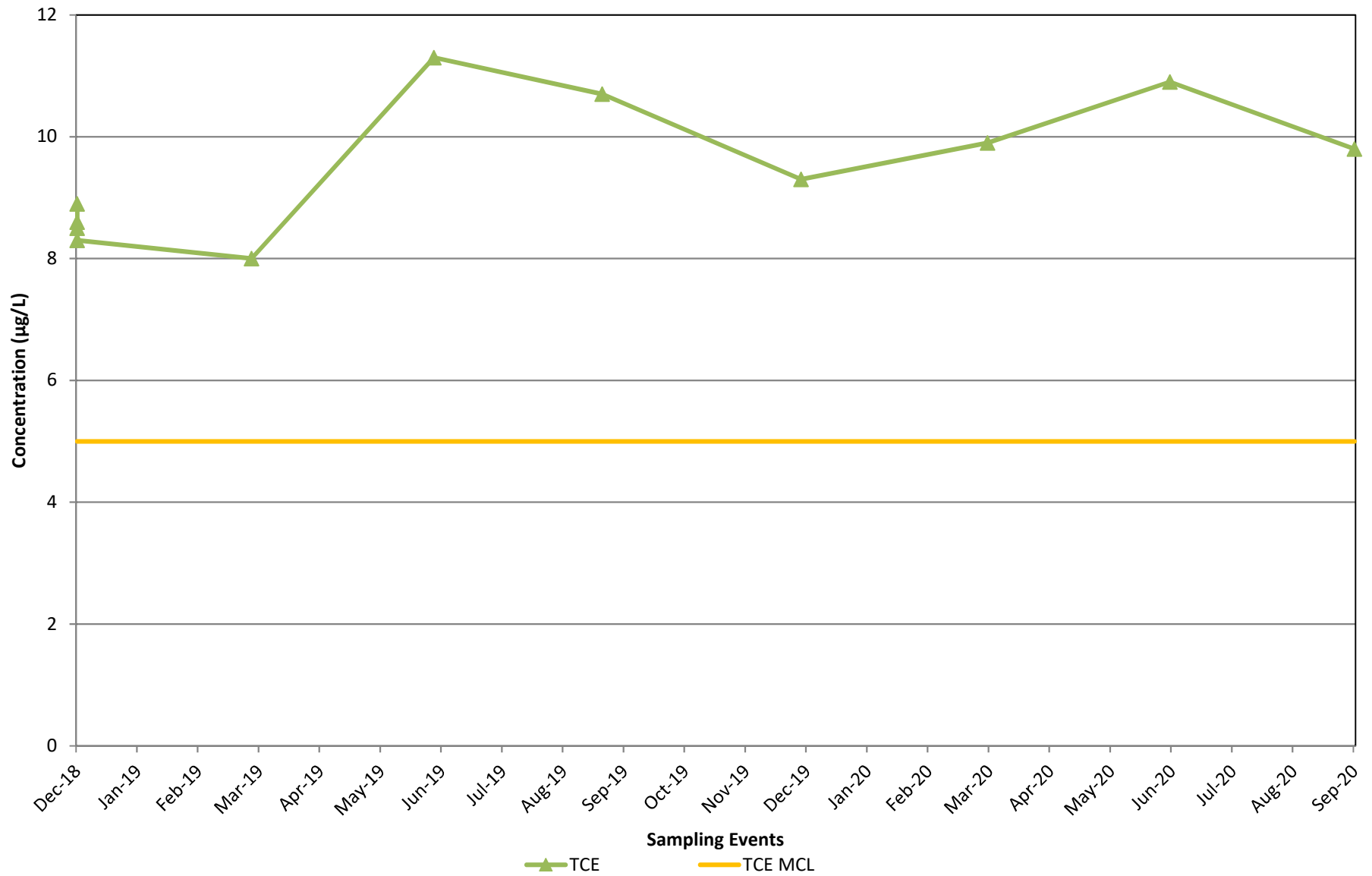


**MW-BW-04-180**  
**(northeast of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B73**

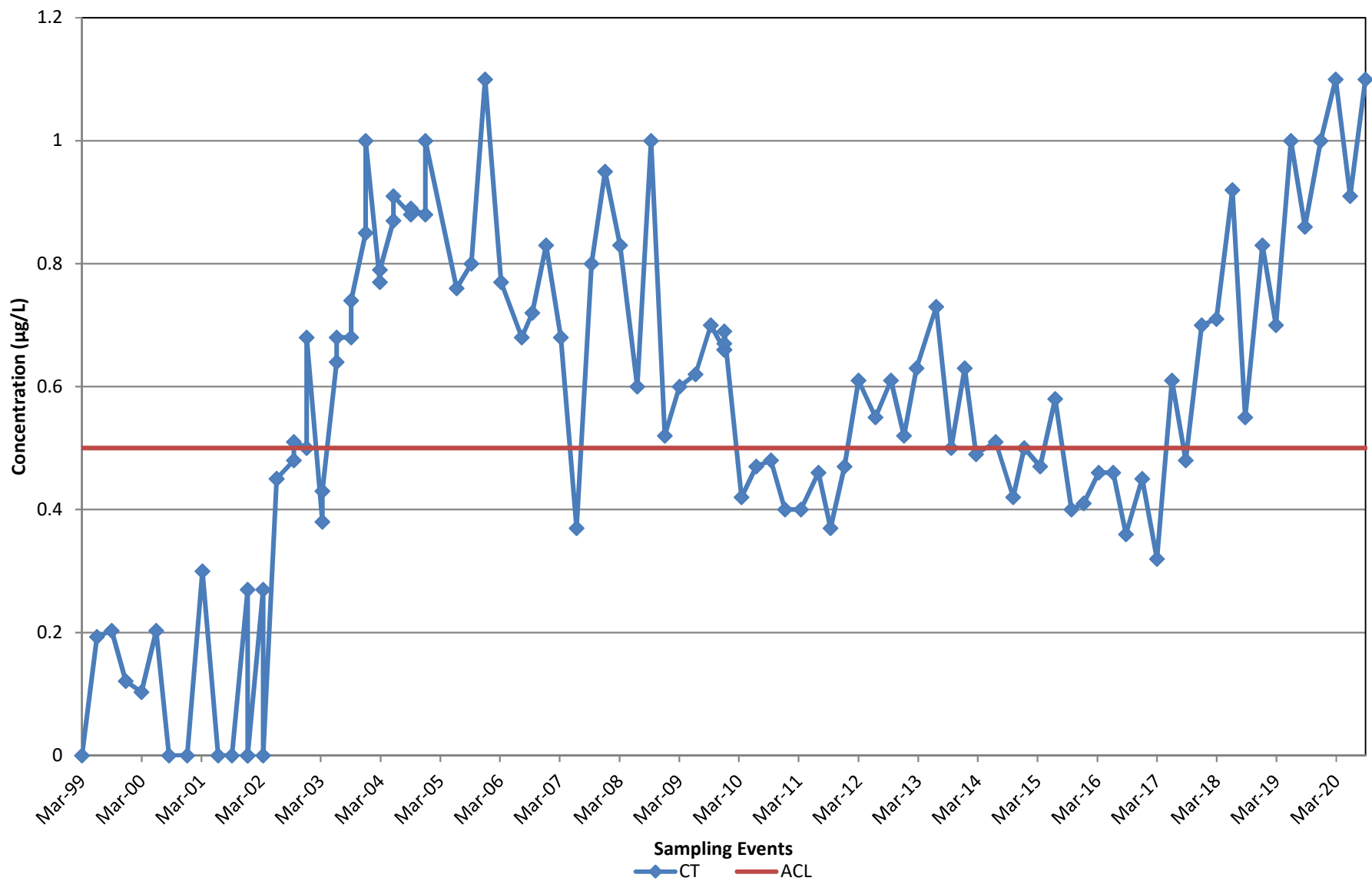


**MW-BW-59-180**  
**(southwest of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
 Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B74**

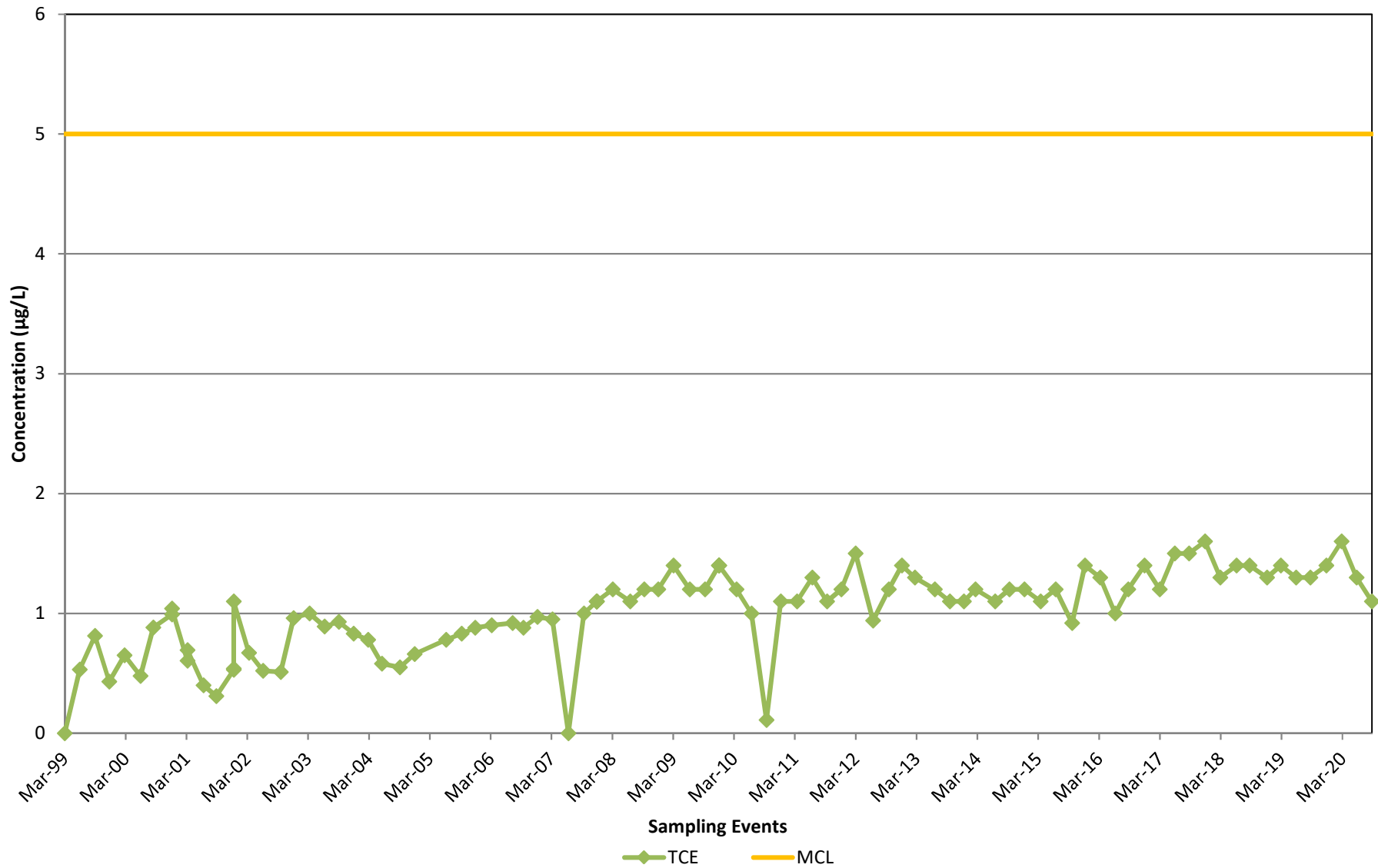


**MW-OU2-69-180  
(Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B75**

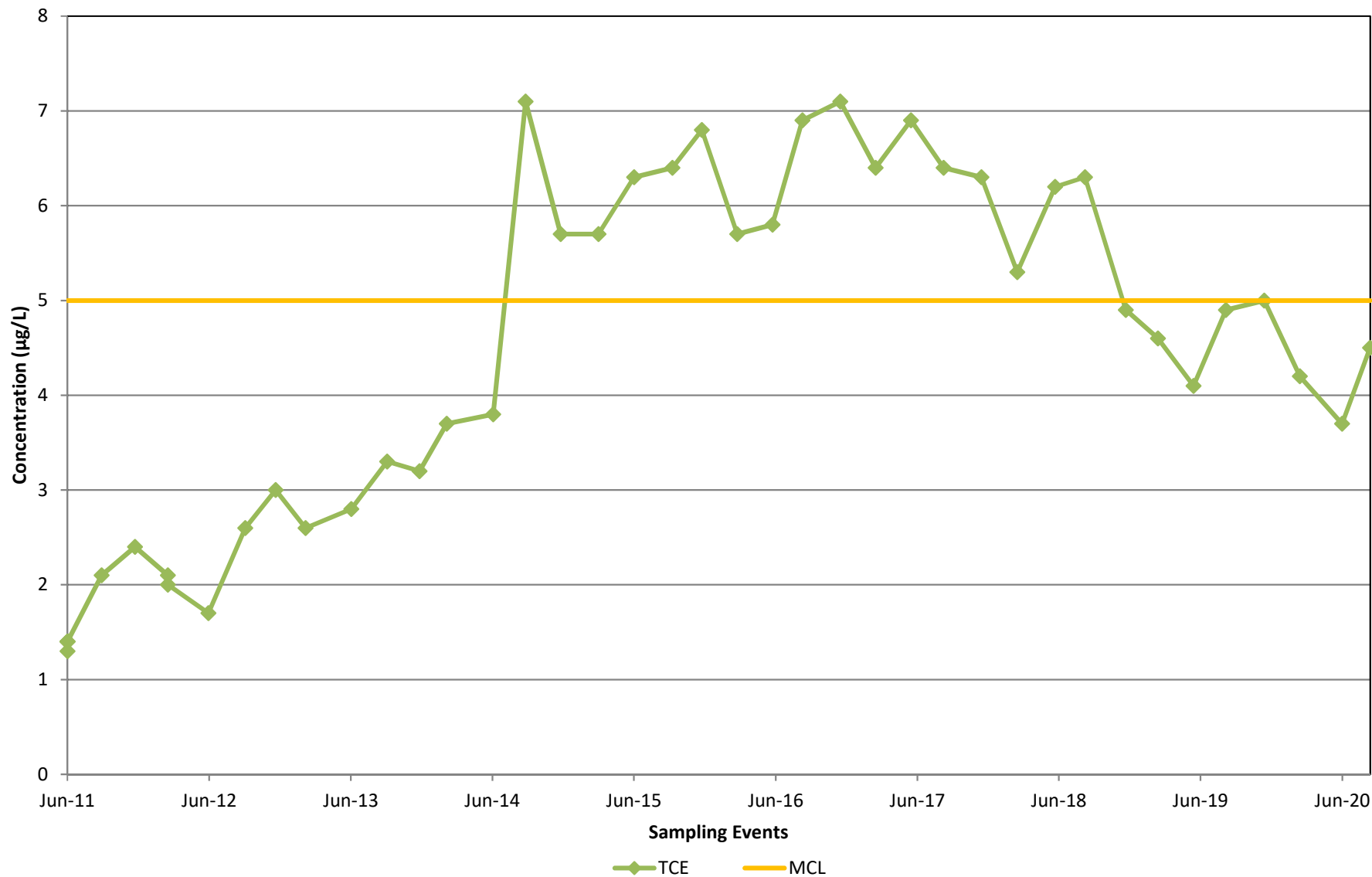


**MW-OU2-72-180  
(south of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B76**



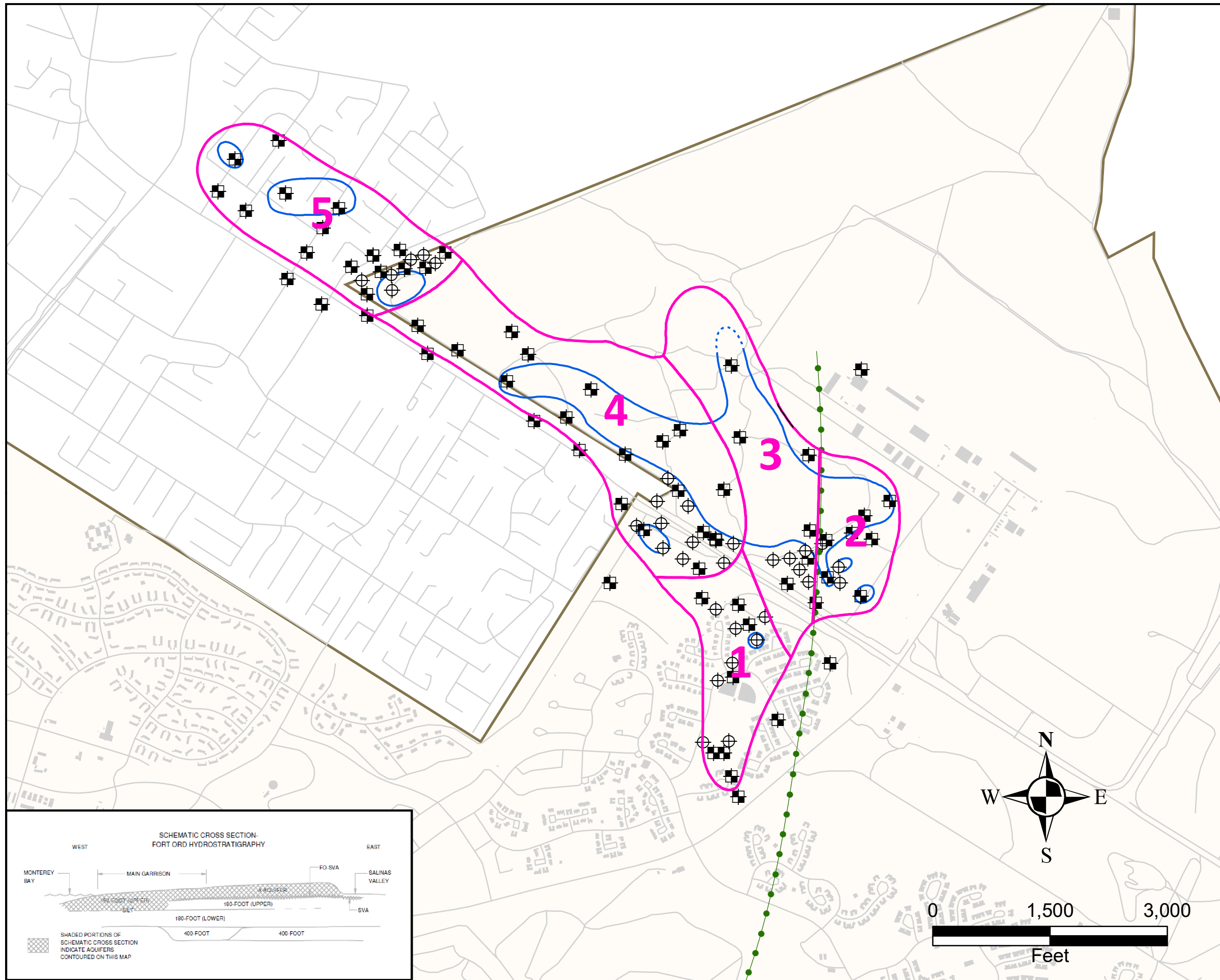
**MW-OU2-82-180  
(south of Hydraulic Zone 7)**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Figure:

**B77**

**APPENDIX C**  
Hydraulic Zone Maps

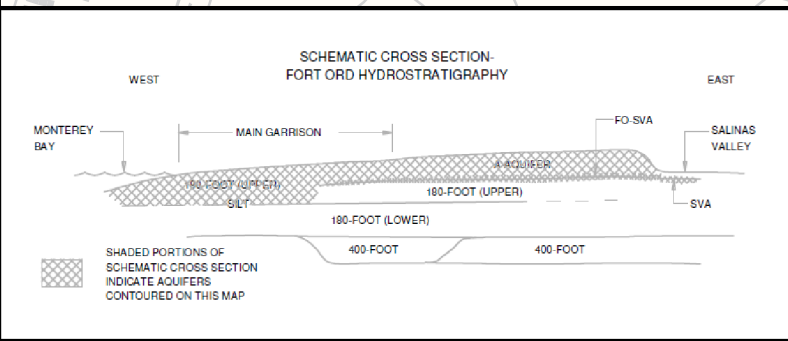


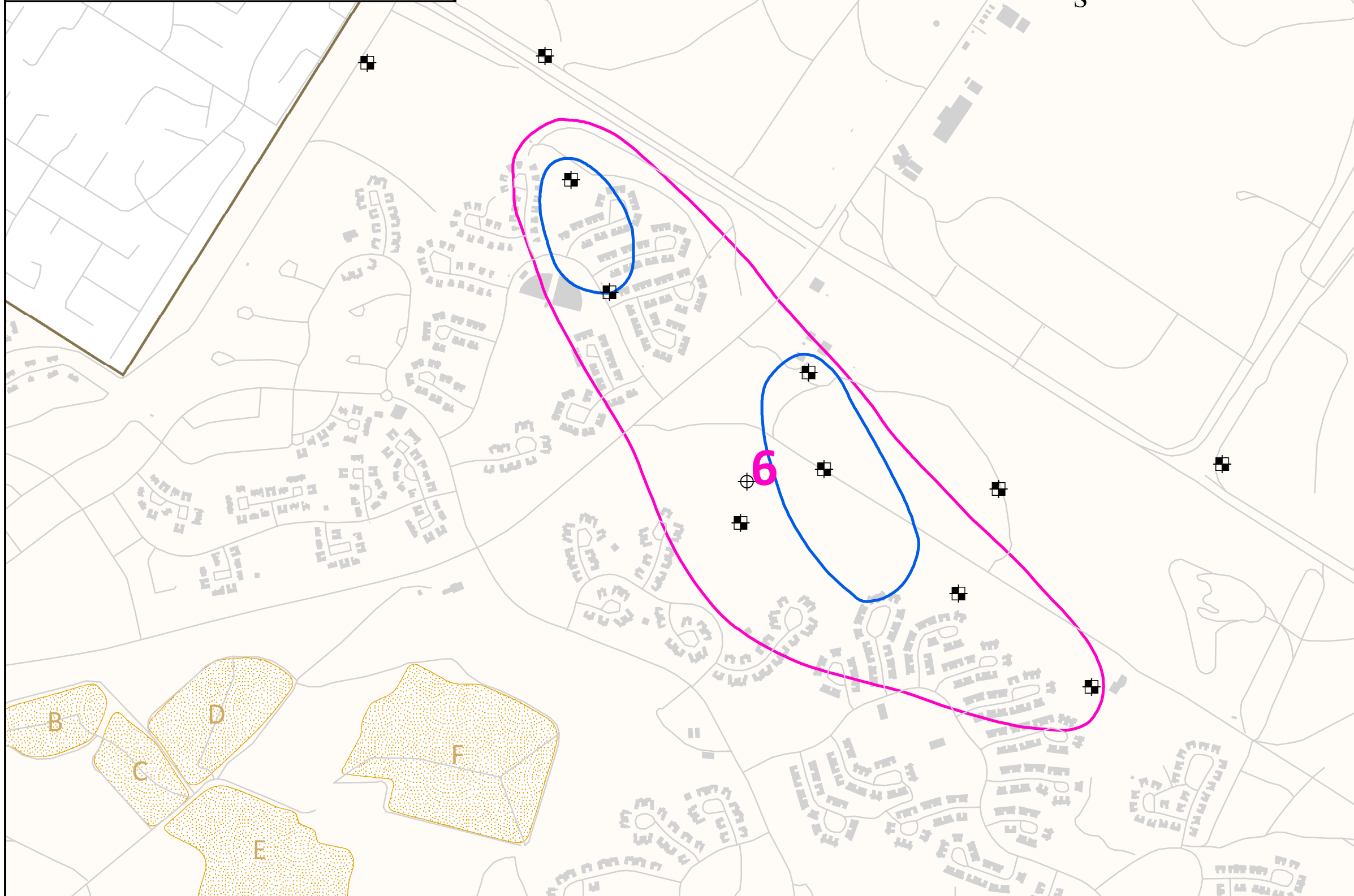
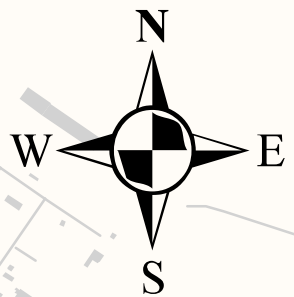
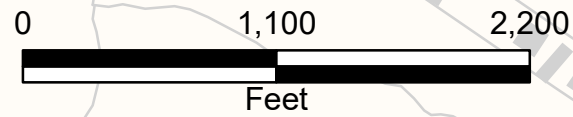
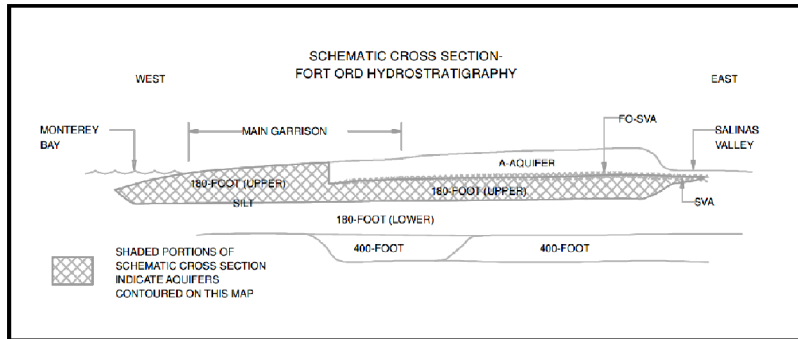
### EXPLANATION

- OUCTP-A Extraction Well
- OUCTP-A Monitoring Well
- Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in  $\mu\text{g/L}$ .
- 0.5 3Q2020 Carbon Tetrachloride (CT) Plume Extent
- 0.5 3Q2020 Estimated Carbon Tetrachloride (CT) Plume Extent
- OUCTP-A Hydraulic Zones (1-5)
- Approximate location of the A-Aquifer Groundwater Divide
- Former Fort Ord Boundary
- Roads
- Facilities

- NOTES:**
- (1) Groundwater samples were collected between August 31, 2020 and September 23, 2020.
  - (2) Contours based on highest value obtained from multiple bags and/or multiple ports where applicable.
  - (3) Contours near wells not sampled this quarter are inferred from previous analytical data.

OUCTP HYDRAULIC ZONE MAP  
 A AQUIFER  
 OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
 Fourth Quarter 2019 - Third Quarter 2020  
 Groundwater Monitoring Report Former Fort Ord, California





**EXPLANATION**

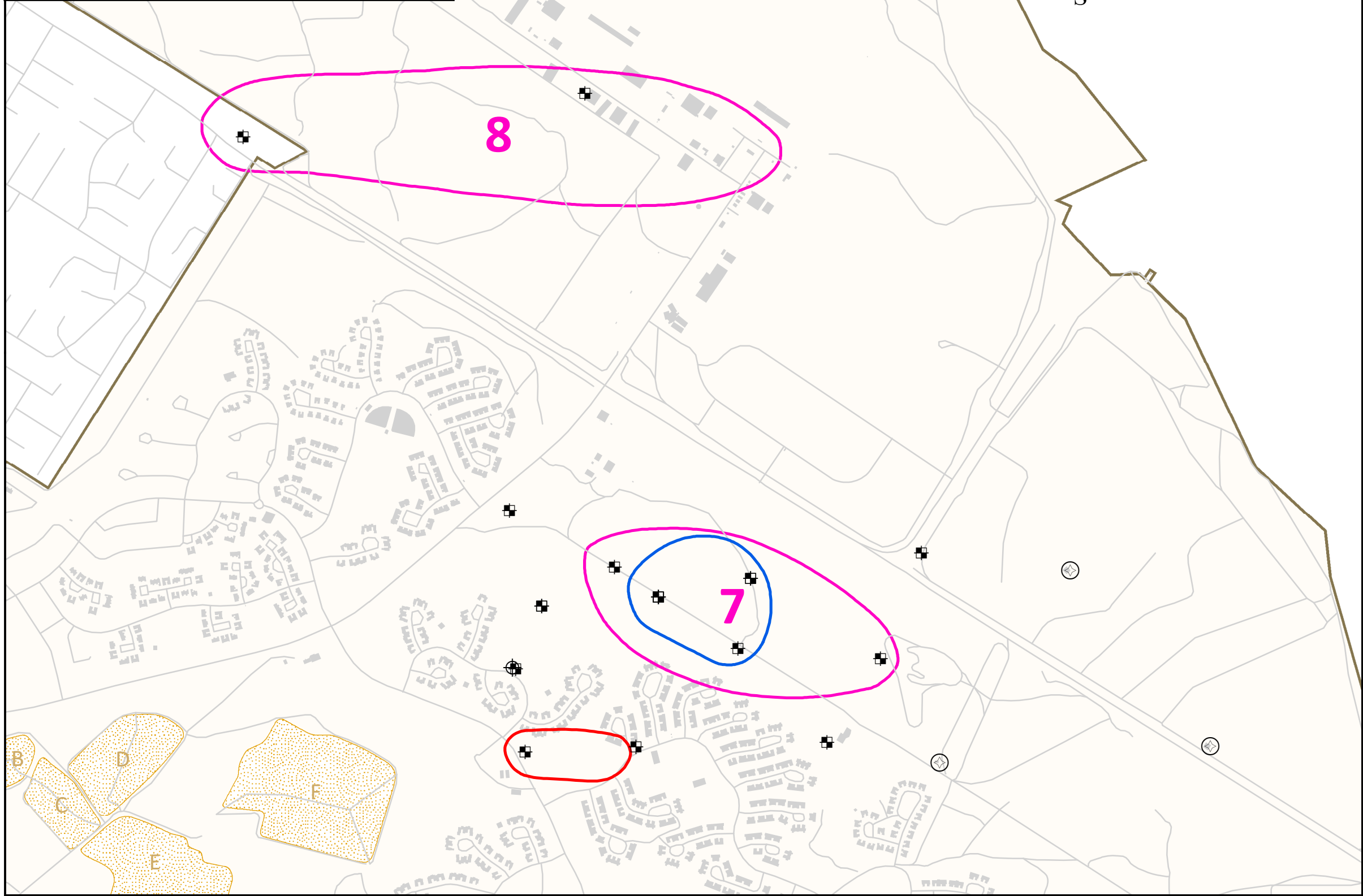
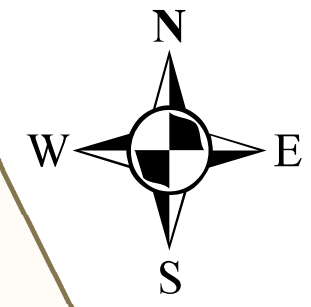
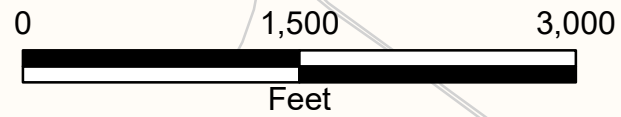
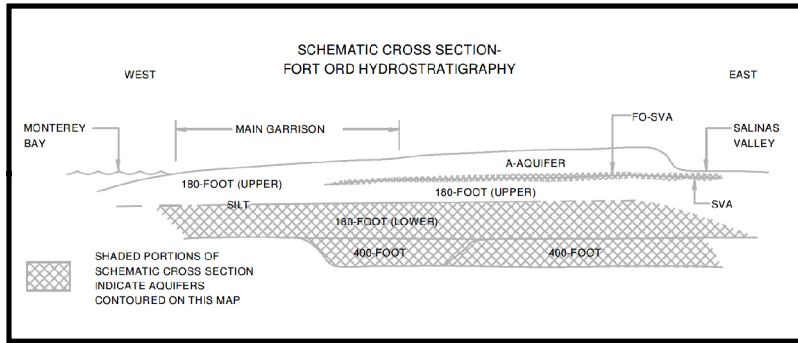
- OUCTP Upper 180-Foot Extraction Well
- OUCTP Upper 180-Foot Monitoring Well
- Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.
- 0.5 3Q2020 Carbon Tetrachloride (CT) Plume Extent
- Hydraulic Zone (6)
- Former Fort Ord Boundary
- Approximate extent of landfill areas
- Roads
- Facilities

**NOTES:**

- (1) Samples were collected between August 31, 2020 and September 23, 2020.
- (2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
- (3) Contours are based on highest value obtained from multiple bags and/or multiple ports were applicable.
- (4) Contours near wells not sampled this quarter are inferred from previous analytical data.

OUCTP HYDRAULIC ZONE MAP  
UPPER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Fourth Quarter 2019 - Third Quarter 2020  
Groundwater Monitoring Report Former Fort Ord, California





**EXPLANATION**

- OUCTP Lower 180-Foot Extraction Well
- OUCTP Lower 180-Foot Monitor Well

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 3Q2020 Carbon Tetrachloride (CT) Plume Extent
- 5.0 3Q2020 Trichloroethane (TCE) Plume Extent
- Hydraulic Zone (7 & 8)
- Former Fort Ord Boundary
- Approximate extent of landfill areas
- Roads
- Facilities

- NOTES:**
- (1) Groundwater samples were collected between August 31st, 2020 and September 23rd, 2020.
  - (2) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
  - (3) Contour based on highest value obtained from multiple bags and/or multiple ports where applicable.
  - (4) TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.

OUCTP HYDRAULIC ZONE MAP  
LOWER 180-FOOT AQUIFER  
OPERABLE UNIT CARBON TETRACHLORIDE PLUME  
Fourth Quarter 2019 - Third Quarter 2020  
Groundwater Monitoring Report Former Fort Ord, California

## **APPENDIX D**

### **QAPP Sampling Frequency Recommended Changes and Monitoring Well COC Trend Line Graphs**

**Table D1. QAPP Sampling Frequency Recommended Changes**

Well ID	Current Schedule	Proposed Schedule	Trends Increasing?	Last time above ACL	Boundary Well for Plume	2020-3Q CT Concentration (µg/L)	Figure Number	Graph Number
<b>A-Aquifer</b>								
EISB-EW-02	A	R	No	2016	No	ND (0.25)	35	D1
EW-BW-132-A	A	R	No	2017	Yes^	ND (0.25)	35	D2
EW-BW-166-A	Q	A	No	2018	Yes^	ND (0.25)	35	D3
EW-BW-168-A	A	R	No	2017	No	ND (0.25)	35	D4
MP-BW-46-095	A	R	No	2017	Yes^	0.13 J	35	D5
MW-BW-24-A	Q	A	No	2018	No	ND (0.25)	35	D6
MW-BW-60-A	Q	A	No	2019	Yes^	0.17 J	35	D7
MW-BW-74-A	Q	A	No	2019	Yes^	ND (0.25)	35	D8
MW-BW-77-A	Q	A	No	2019	No	0.20 J	35	D9
MW-BW-78-A	Q	A	No	2019	No	0.12 J	35	D10
MW-BW-79-A	Q	A	No	2019	No	0.10 J	35	D11
MW-BW-81-A	R	Q	Nearby	Never	Yes	N/A	35	D12
MW-40-01-A	R	Q	Nearby	Never	Yes	N/A	35	D13
<b>Upper 180-Foot Aquifer</b>								
MP-BW-33-272	R	Q	No	2015	No	N/A	36	D14
MW-OU2-30-180	A*	A*	No	2015	No	N/A	36	D15
<b>Lower 180-Foot Aquifer</b>								
Airfield	Q	A	No	2019	No	0.30 J	37	D16
MP-BW-31-292	A	R	No	2014	No	N/A	37	D17

**Note:**

Results in gray are not detected concentrations (result reported as <limit of detection [LOD]).

\* Recommend moving MW-OU2-30-180 from the OU2 report to the OUCTP report due to well location.

^ Other nearby plume boundary wells are still sampled

**Acronyms and Abbreviations:**

µg/L: micrograms per liter

A: annual sampling

ACL: aquifer cleanup level

CT: carbon tetrachloride

N/A: not applicable

ND: not detected above the LOD

Nearby: other adjacent well

Q: quarterly sampling

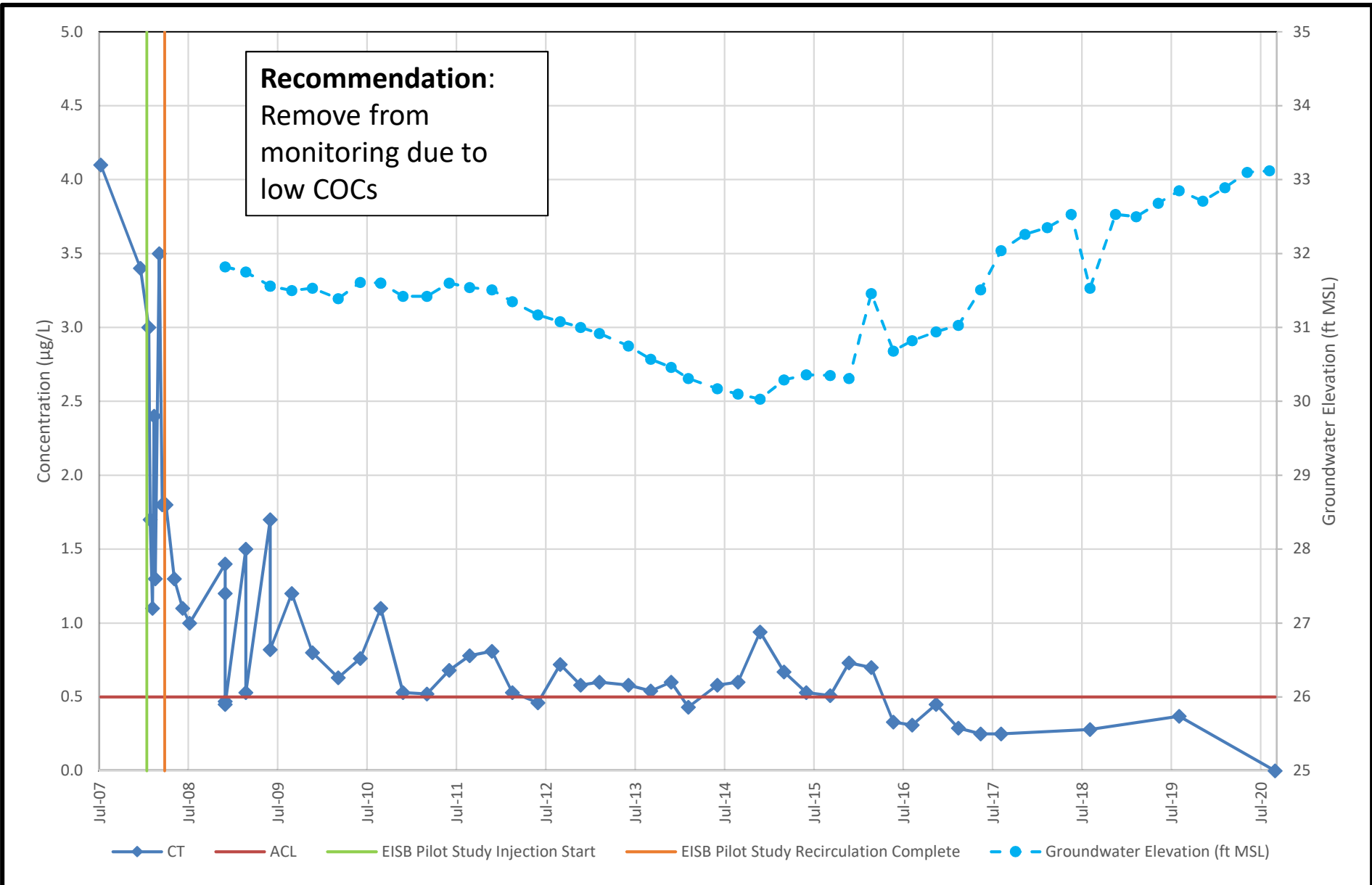
R: remove from sampling, continue to

collect depth to water until not

needed or decommissioned

### Table D1. QAPP Sampling Frequency Recommended Changes

J: Laboratory qualifier, estimated result between the detection limit (DL) and the limit of quantification (LOQ) with a possible high (+) or low (-) bias.

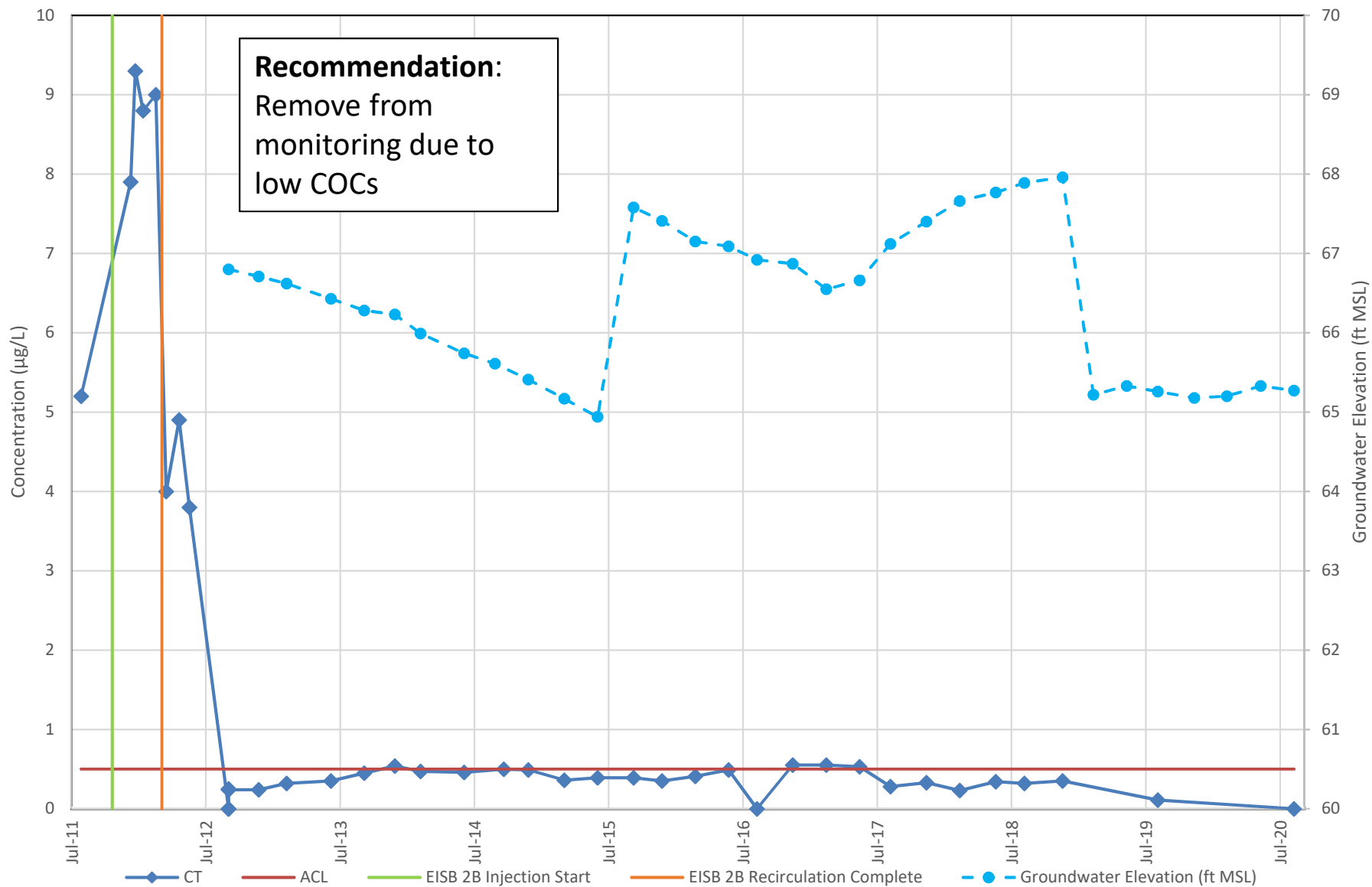


**EISB-EW-02**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D1**

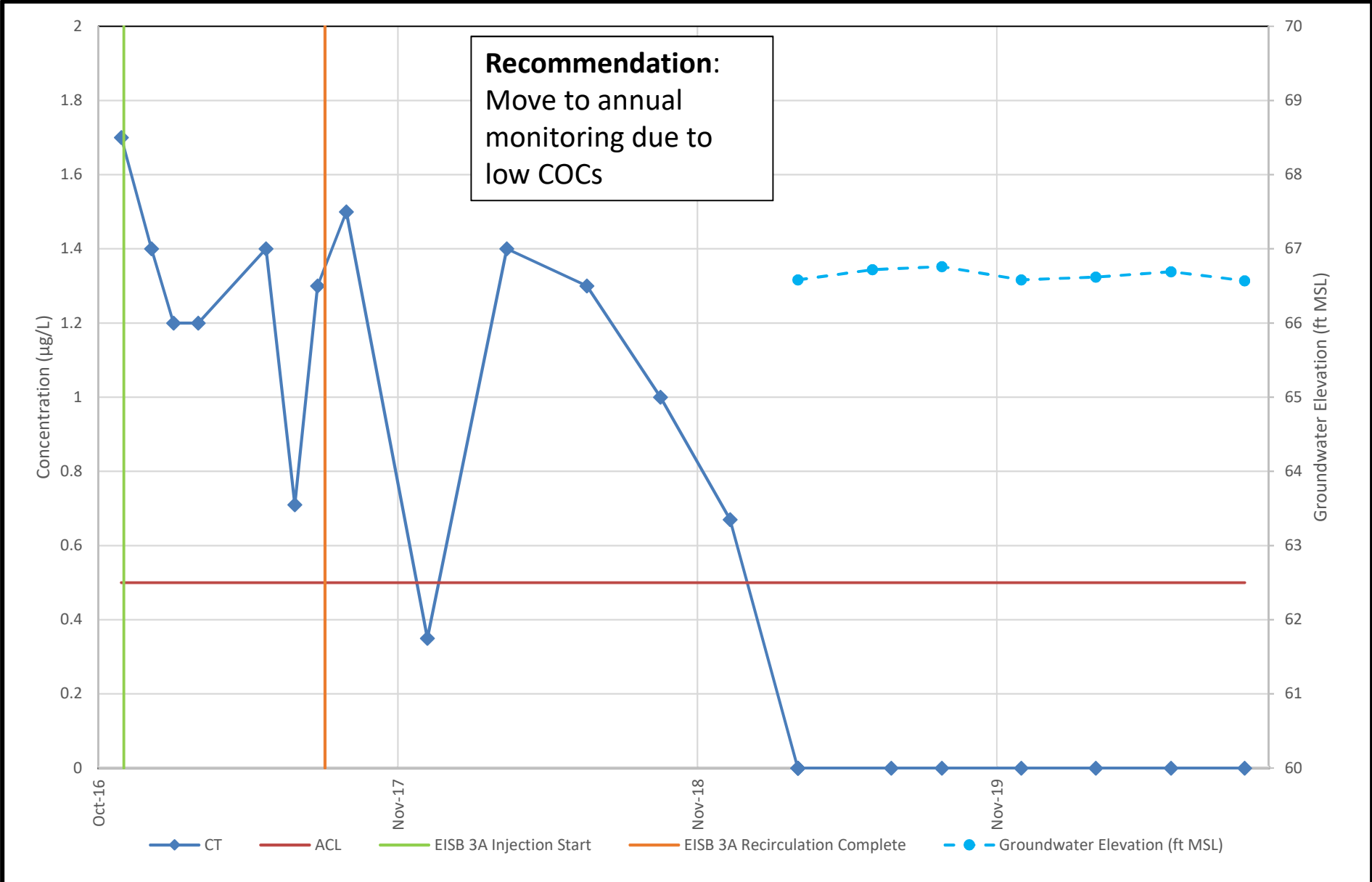


**EW-BW-132-A**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D2**

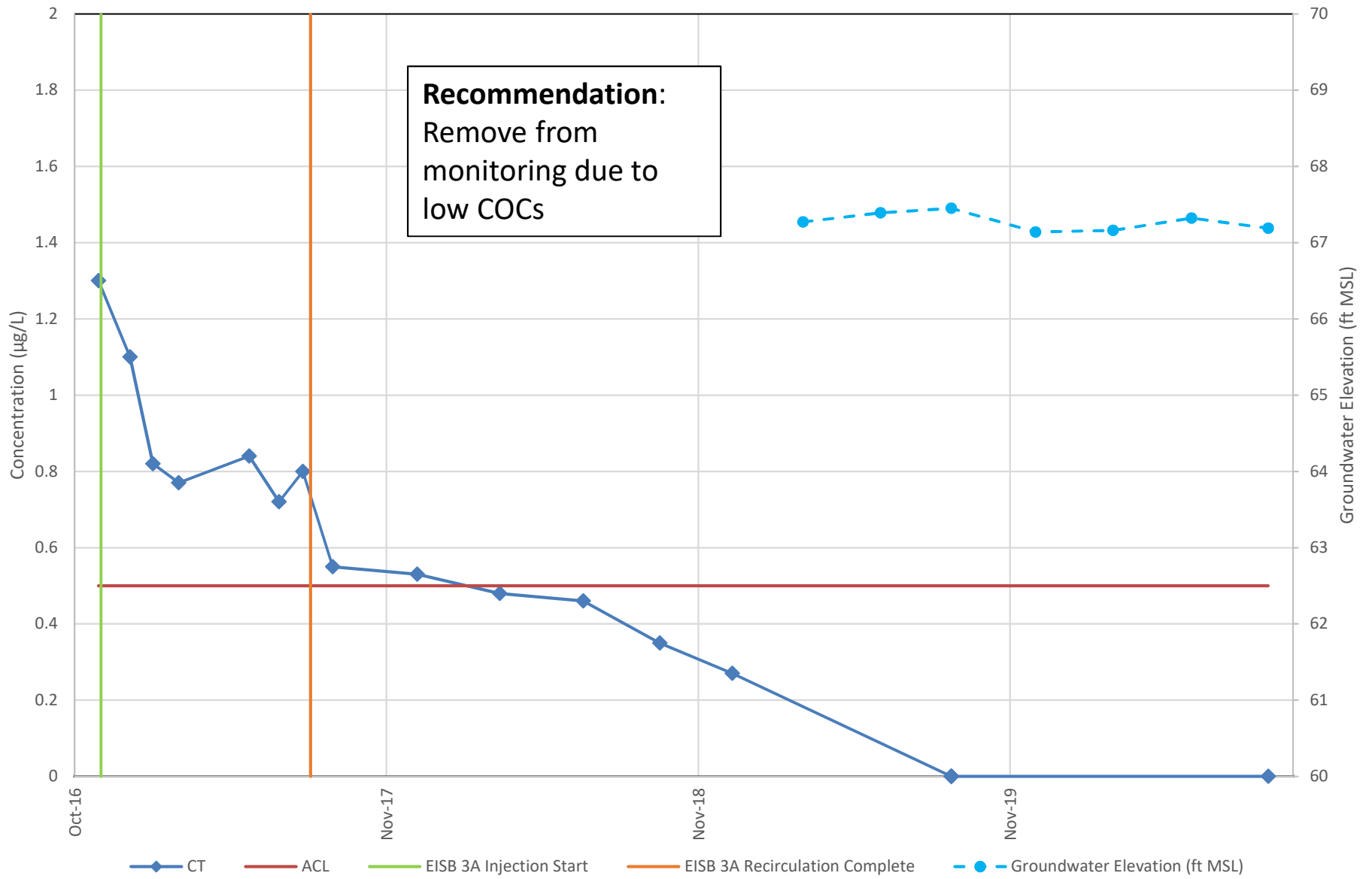


**EW-BW-166-A**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D3**



**Recommendation:**  
Remove from  
monitoring due to  
low COCs



**EW-BW-168-A**

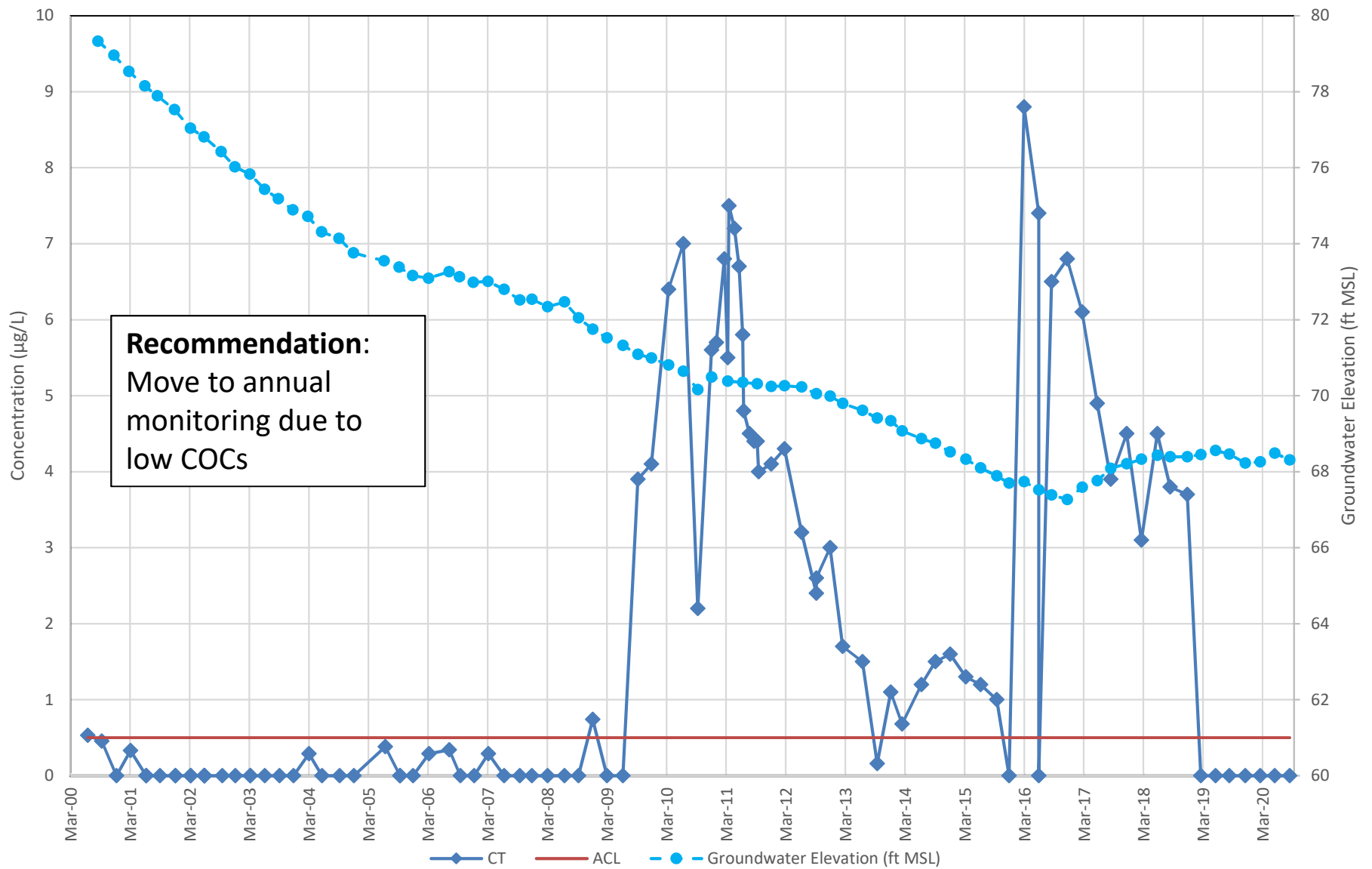
Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D4**





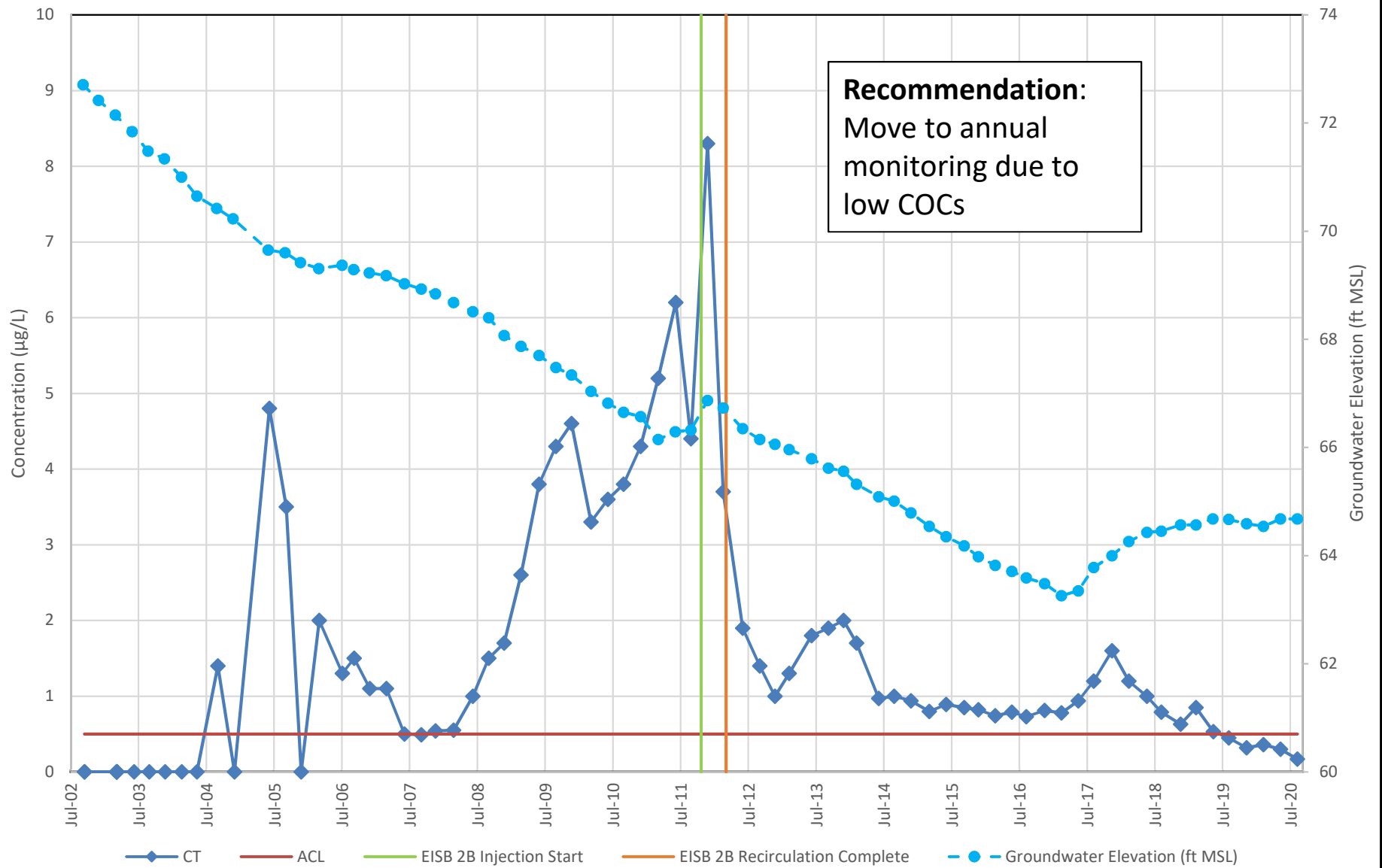


**MW-BW-24-A**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D6**

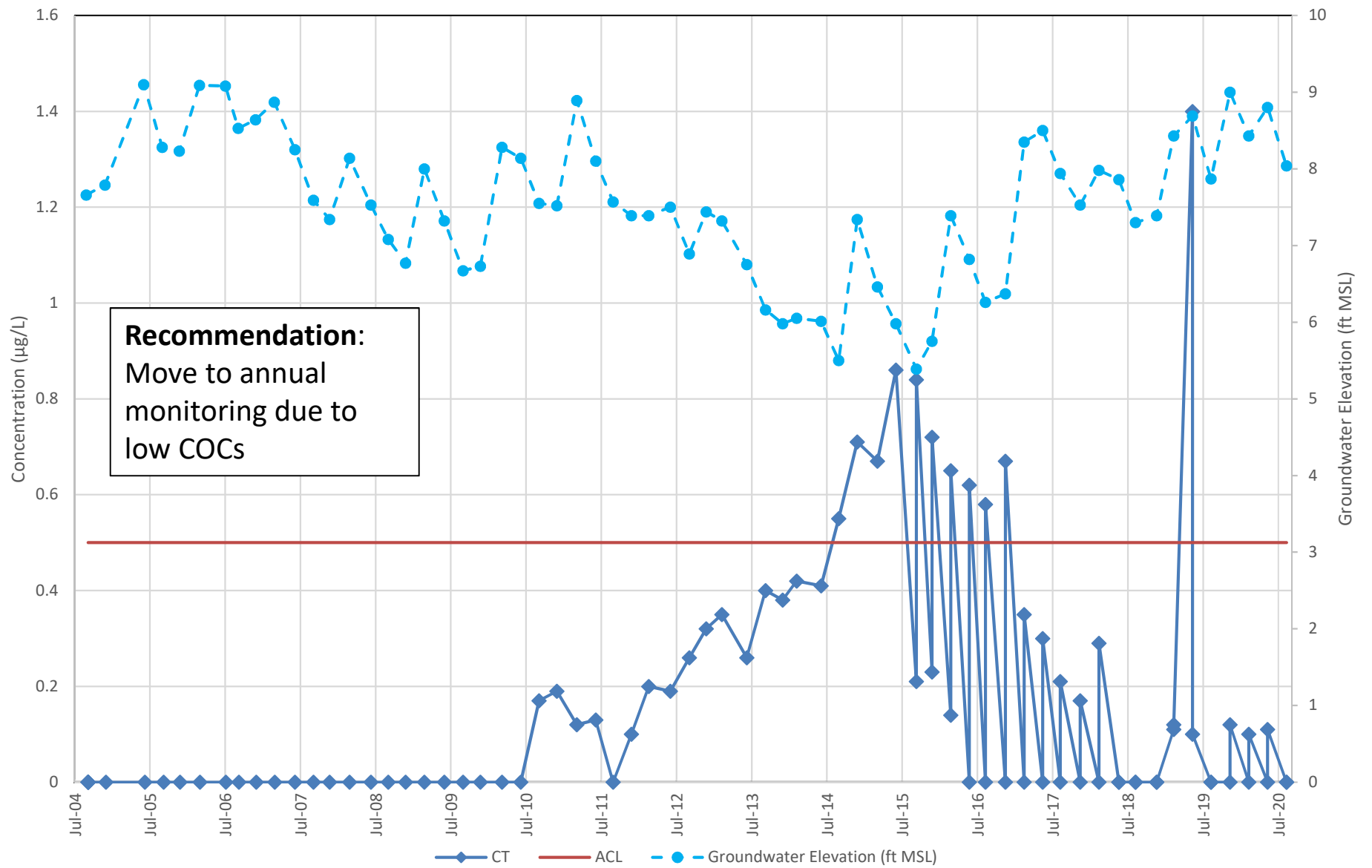


**MW-BW-60-A**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D7**



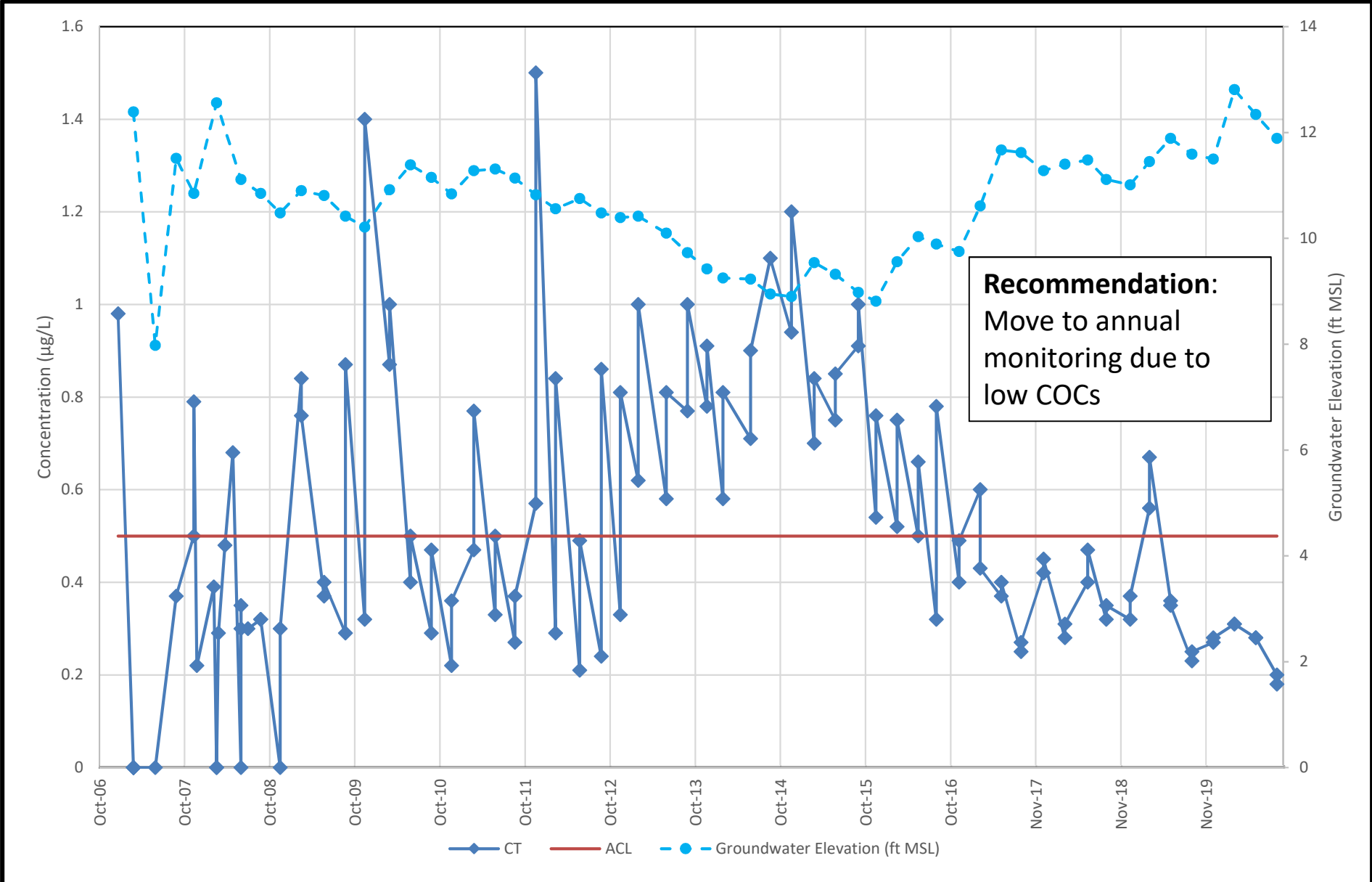
*Ahtna*

**MW-BW-74-A**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D8**



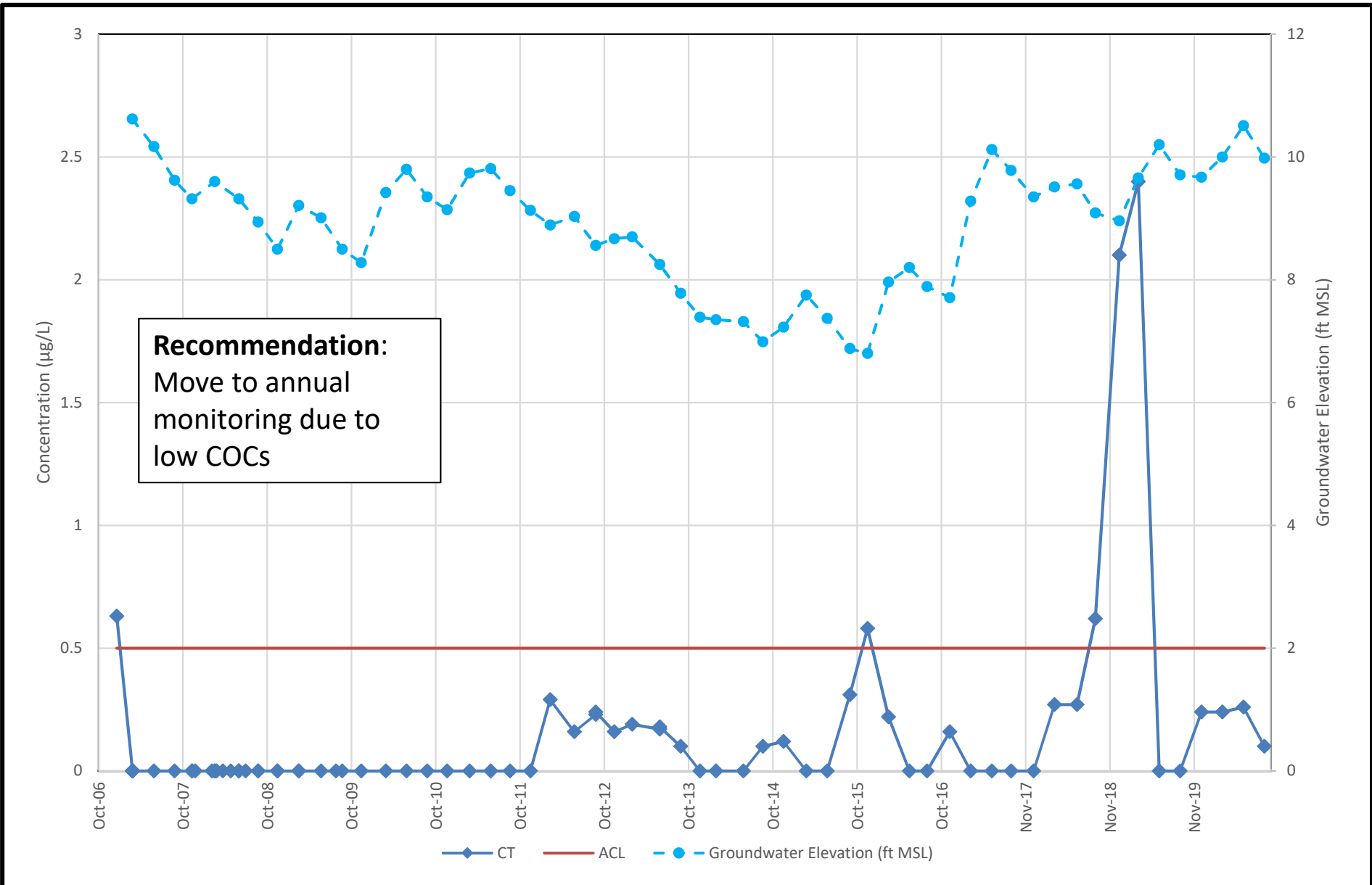
**MW-BW-77-A**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D9**



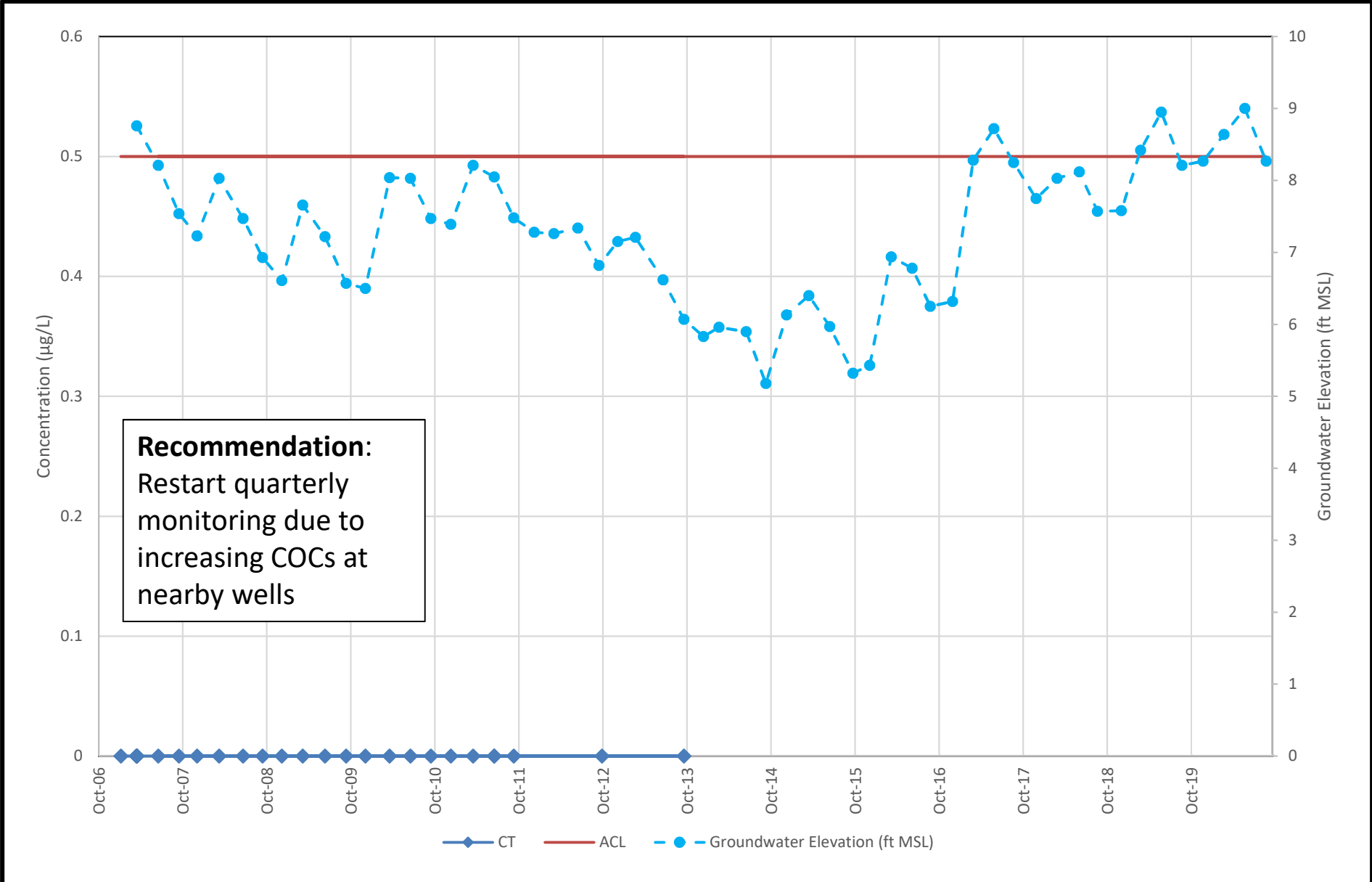


**MW-BW-79-A**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D11**



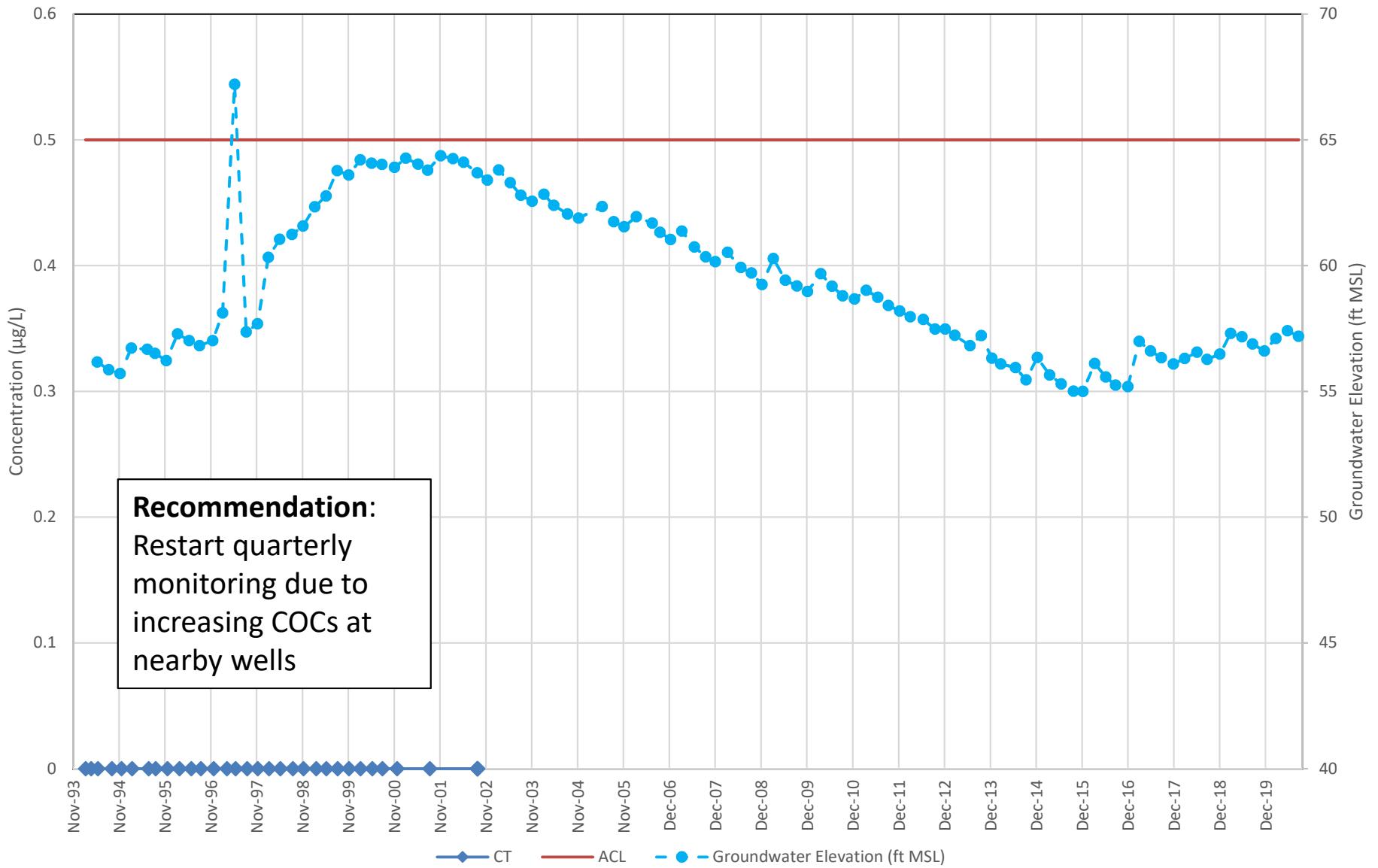
**MW-BW-81-A**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D12**



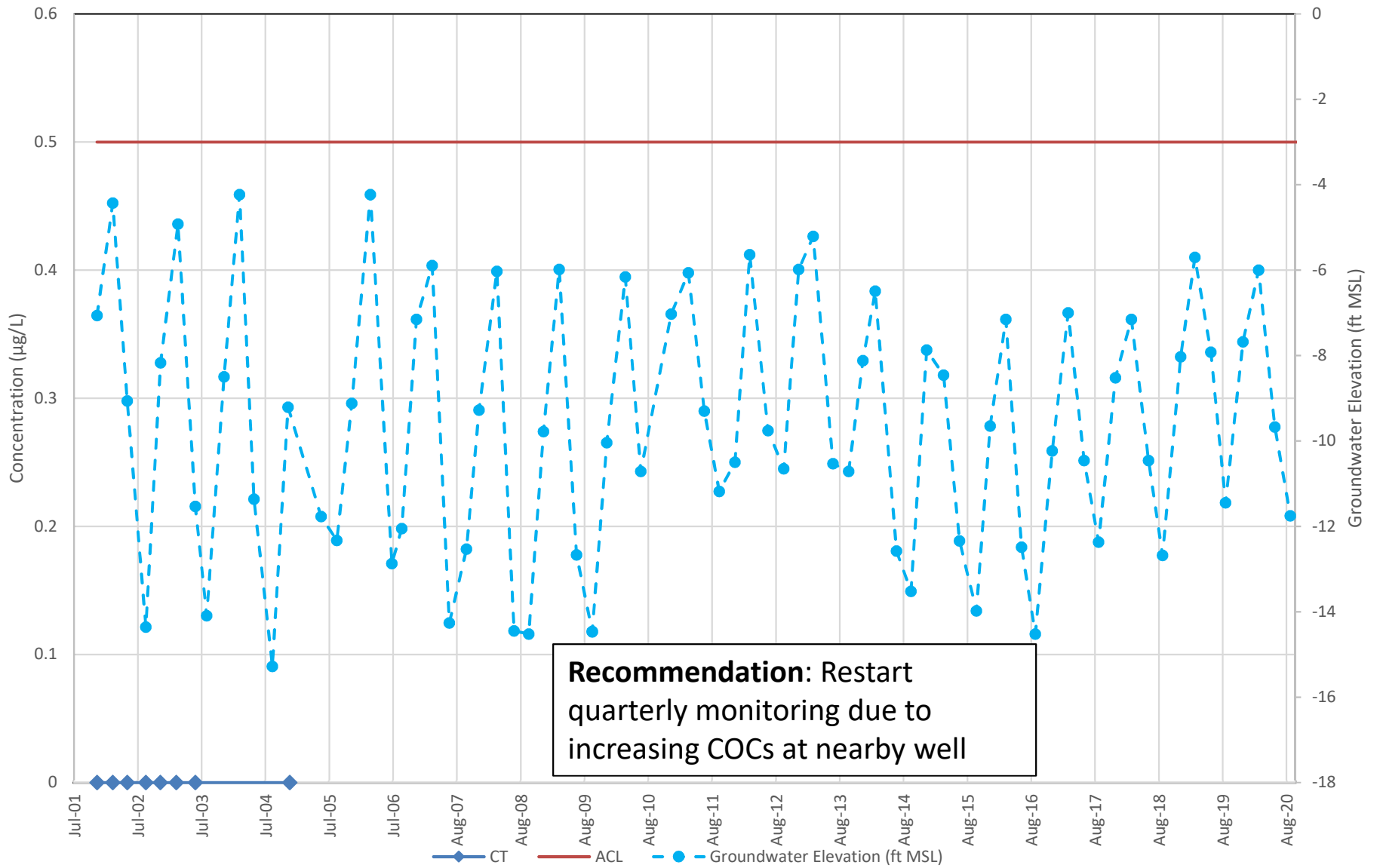


**MW-40-01-A**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D13**



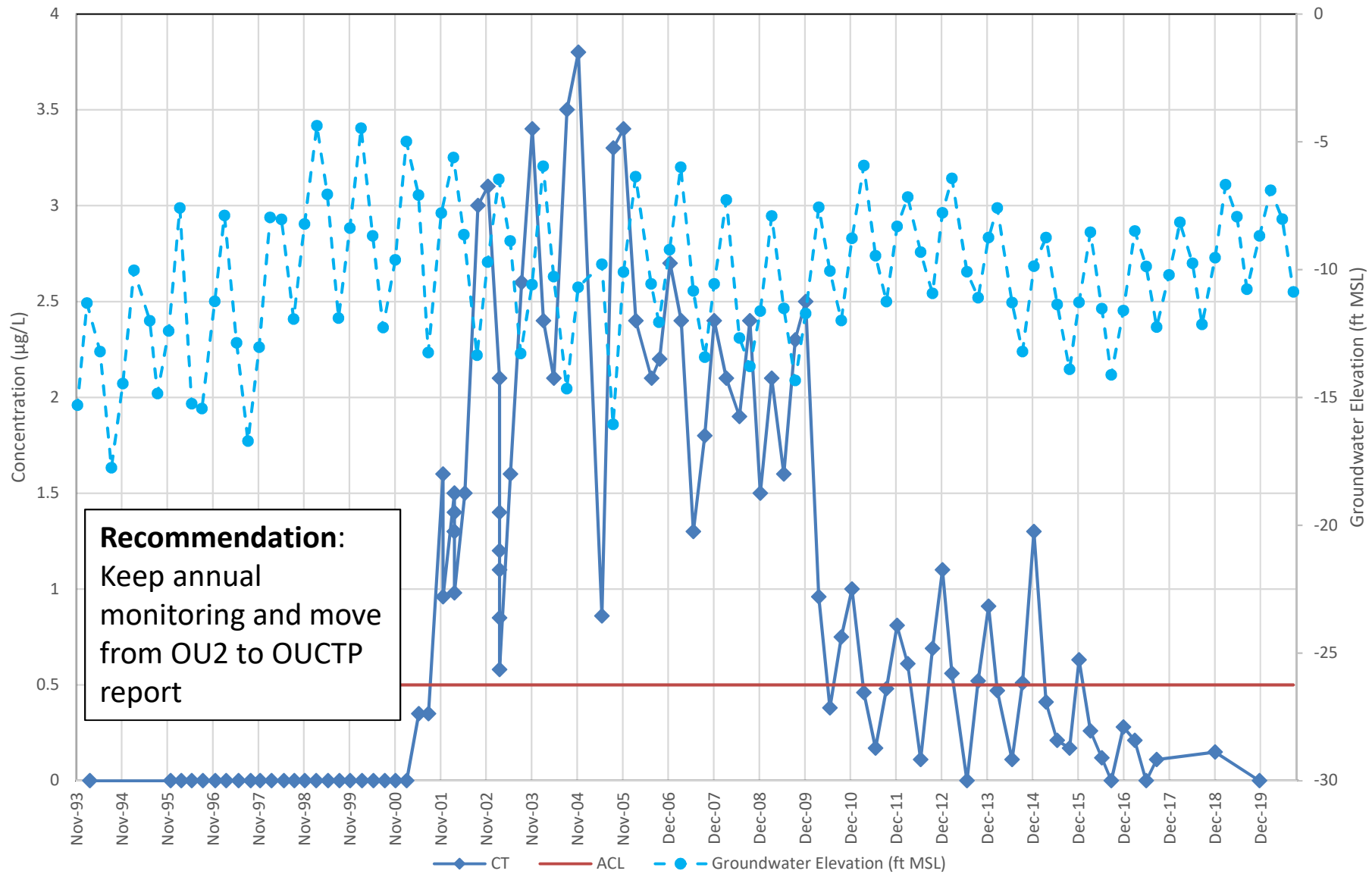
**Recommendation:** Restart quarterly monitoring due to increasing COCs at nearby well



**MP-BW-33-272**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:  
**D14**

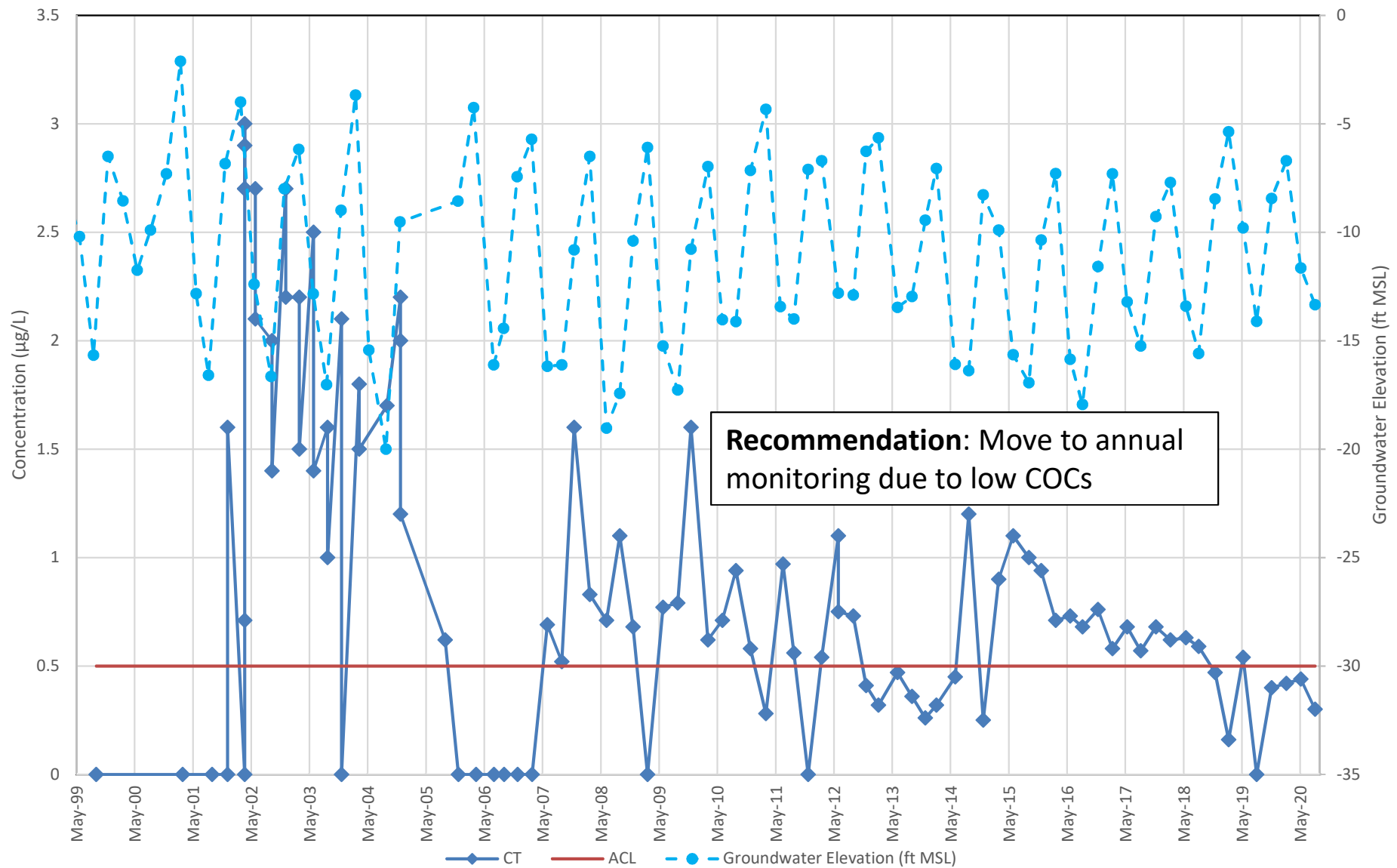


**MW-OU2-30-180**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D15**

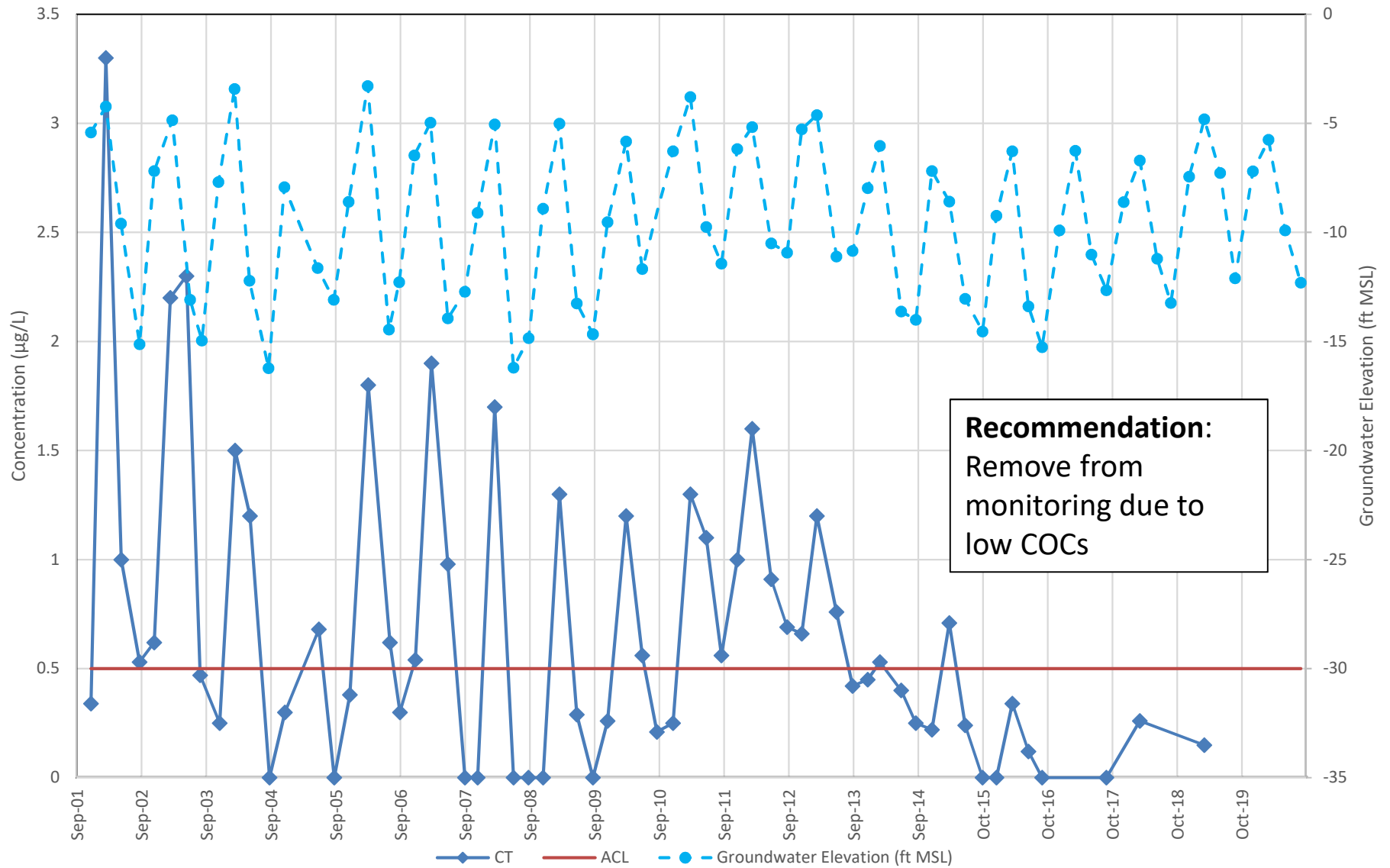


**Airfield**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D16**



**MP-BW-31-292**

Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2019 through Third Quarter 2020  
Groundwater Monitoring Report, Former Fort Ord, California

Graph:

**D17**

## **Appendix E**

### Responses to Comments submitted by the Central Coast Regional Water Quality Control Board

## Responses to Comments submitted by the Central Coast Regional Water Quality Control Board<sup>1</sup>

**COMMENT 1:** Section 4.1, New Wells or Additional Remediation, A-Aquifer and Upper 180-Foot Aquifer – This section indicates that due the carbon tetrachloride (CT) concentrations above the aquifer cleanup level (ACL) at well MW-BW-94-AR and increasing CT concentrations downgradient of the Enhanced In-Situ Biodegradation Pilot Study area in the City of Marina (MW-BW-75-A, MW-BW-80-A, and MW-BW-82-A), one to three monitoring wells are recommended to be installed and monitored at each of these areas. Additionally, a new OUCTP Upper 180-Foot Aquifer extraction well is recommended to enhance containment and control of the OUCTP in the Upper 180-Foot Aquifer.

Prior to groundwater monitoring and extraction well construction, please submit a Well Construction Work Plan with the proposed well locations, well construction details, and plans for geologic logging, well development, and sampling.

**RESPONSE TO COMMENT 1:** *A footnote was added to Section 4.1 stating a work plan will be prepared if recommendations for new wells are implemented.*

**COMMENT 2:**

Section 4.1, New Wells or Additional Remediation, Upper 180-Foot Aquifer – The text indicates that a new OUCTP Upper 180-Foot Aquifer extraction well is recommended southeast of EW-OU2-64-180 however it appears the referenced well should be **MW**-OU2-64-180. Please modify the text as appropriate.

**RESPONSE TO COMMENT 2:** *The text in Section 4.1 was revised per the comment.*

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<sup>1</sup> In a letter dated July 14, 2021 (Administrative Record No. OUCTP-0096.2). The comments are reproduced here as provided to the Army and there have been no changes to spelling, grammar, or punctuation.

## **Appendix F**

Responses to Comments submitted by the California  
Department of Toxic Substances Control



## Responses to Comments submitted by the California Department of Toxic Substances Control (DTSC)<sup>1</sup>

**COMMENT 1:** Proposed Monitoring Wells: GSU concurs with the need for additional monitoring wells to better assess the extent of the carbon tetrachloride plume downgradient of MW-BW-75-A, MW-BW-80-A, and MW-BW-82-A. A work plan should be prepared that details the proposed well locations, well construction details (including well screen depth and size), sampling schedule, and well development procedures.

**RESPONSE TO COMMENT 1:** *A footnote was added to Section 4.1 stating a work plan will be prepared if recommendations for new wells are implemented.*

**COMMENT 2:** Recommendations for 180-Foot Aquifer. GSU concurs with the recommendation for an additional extraction well in the 180-foot aquifer, however the Report states that this well will be installed southeast of EW-OU2-64-180. GSU believes this to be a typographical error, and the Report should be revised to indicate the correct well, MW-OU2-64-180. A work plan should be prepared for either the installation of a new extraction well, or for the conversion of an existing monitoring well to an extraction well.

**RESPONSE TO COMMENT 2:** *The report was revised to indicate the correct well. A footnote was added to Section 4.1 stating a work plan will be prepared if recommendations for new wells are implemented.*

**COMMENT 3:** Changes in Monitoring Schedule. GSU concurs with the changes in monitoring as presented in Table 13 and Appendix D of the report. The data requirements to reduce monitoring at the proposed wells, as defined in the QAPP, have been met, and the justification to increase monitoring at wells MW-BW-81-A and MP-BW-33-272 is warranted.

**RESPONSE TO COMMENT 3:** *Comment acknowledged.*

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<sup>1</sup> In a letter dated July 16, 2021 (Administrative Record No. OUCTP-0096.3). The comments are reproduced here as provided to the Army and there have been no changes to spelling, grammar, or punctuation.