



2021 PERIODIC REVIEW REPORT

FORMER BINGHAMTON PLASTICS FACILITY
BINGHAMTON, NEW YORK
NYSDEC SITE NO. 7-04-024



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Bridgewater, New Jersey 08807**

January 2022

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INTRODUCTION

On behalf of Dover Corporation (Dover), Verina Engineering, PC has prepared this Periodic Review Report (PRR) to document the site activities implemented in 2021 at the former Binghamton Plastics site in Binghamton, Broome County, New York, New York State Department of Conservation (NYSDEC) Site No. 7-04-024.

The activities implemented in 2021 include:

- Semi-annual groundwater monitoring and sampling; and,
- Monthly monitoring of the Active Sub-Slab Depressurization (ASD) System.

The project was implemented in accordance with the executed Order on Consent between Dover and the New York State of Environmental Conservation (NYSDEC), dated January 19, 2001, and the NYSDEC-approved Site Management Plan (SMP), dated April 14, 2017.

SITE HISTORY AND BACKGROUND

The former Binghamton Plastics site is located at 498 Conklin Avenue in Binghamton, Broome County, New York. The site occupies approximately two acres and consists of a one-story industrial building (approximately 44,800 square feet [ft²]) with associated parking, landscaping, and storage areas. The site is located in a combined industrial and residential setting. Figure 1 is the regional site location map. A site map is presented on Figure 2.

Binghamton Plastics operated the facility until the early 1980s when Universal Instruments Corporation (UIC), a former subsidiary of Dover, purchased the property and converted the facility into a circuit board manufacturing plant. UIC operated the facility until it was taken over by Dover Electronics Corporation in the late 1980s. Manufacturing activities ceased at the site in the early 1990s. In 1993 Dover Electronics was separated from Dover and re-named Dovatron, Inc. In 1996, Dovatron, Inc. changed its name to DII Group.

In the early 1990s, the property was transferred to Flextronics International, Inc. but UIC retained responsibilities for the remediation of pre-existing environmental conditions. From the early 1990s until August 2001, the facility was leased to and used by McIntosh Laboratories for electronics repair operations. The site was then sold to TeamWorld, Inc., and the building is now used for silk screening, embroidery, packaging of clothing, and storage.

REMEDIAL ACTIVITIES

Remedial actions were implemented following the approval of the Remedial Design (RD) Package (BBL 2002) by the NYSDEC on June 29, 2002. The remedial action consisted of excavating the main source areas of constituents of concern (COCs) within the perched groundwater zone. Excavation and groundwater extraction activities were conducted to remove residual contamination in the form of phase-separated hydrocarbons (PSH), adsorbed volatile organic compounds (VOCs), and impacted groundwater. Groundwater that drained from the excavated perched-zone soil during the remedial action or that accumulated in the open excavations was removed for offsite treatment and disposal.

Since 2004, the groundwater monitoring program has been implemented to assess the effectiveness of the remedial action in remediating COC concentrations within the perched groundwater at the site. The groundwater monitoring program consists of a baseline groundwater monitoring event that was conducted on April 1, 2002 prior to remedial activities and subsequent post-remedial quarterly groundwater monitoring events. The groundwater monitoring frequency was reduced from a quarterly to a semi-annual basis in 2011 based on the NYSDEC approval on December 23, 2010.

Pursuant to approval from NYSDEC in its letter dated November 14, 2008, the ISCO injection program was initiated in June 2009 to further reduce the residual COCs in groundwater. The injection of sodium permanganate solution has been conducted in the upgradient monitoring wells (MW-9, MW-10, and MW-17) as well as in the source area (MW-8, MW-11, and MW-16). The injection frequency was reduced from quarterly to semi-annual basis in 2011, but returned to a quarterly injection schedule in 2012. Additionally, one direct-push injection event within the plume area was conducted at the site in May 2013. Based upon a comparison of the March and September 2017 groundwater data, elevated levels of COCs in groundwater were still observed within several site monitoring wells and therefore VERINA continued the quarterly manual injection schedule in 2018. With NYSDEC's approval, the sodium permanganate injections were suspended in 2019 due to the decreases observed in COC concentrations since the remedial action was implemented in June 2009. Since June 2009, a total of 36 rounds of sodium permanganate manual injections have been conducted at the site.

In accordance with the 2012 Remedial Design Work Plan - Active Sub-slab Depressurization (ASD) System (VERINA 2012), an ASD system was installed at the site in July 2012 to mitigate the degradation of indoor air quality at the site. Monthly inspections of the ASD system were implemented since its full-time operation in July 2012.

The Declaration of Covenants and Restrictions for the property was recorded with the Broome County, State of New York on February 24, 2017. The SMP, dated April 14, 2017, was submitted to NYSDEC. The NYSDEC subsequently used an e-mail notification as the approval of the SMP on December 4, 2019.

2021 GROUNDWATER MONITORING PROGRAM

GROUNDWATER MONITORING AND SAMPLING

Groundwater monitoring events were conducted semi-annually in 2021 to monitor site groundwater conditions and to assess the effectiveness of the prior ISCO injection program to remediate COCs at the site. The first groundwater sampling event was conducted on March 9, 2021 and the second groundwater sampling event was conducted on September 14, 2021

Prior to each sampling event, the depth to groundwater was measured from all accessible monitoring wells (DMW-3, DMW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-13, MW-14, MW-16, MW-17, and TMP-A) on site and recorded on VERINA's groundwater gauging logs in order to establish groundwater elevations and groundwater flow direction at the site. Water level measurements were taken with a Solinst® brand laser-marked water level meter equipped with a stainless steel probe and measuring tape graduated in units of 0.01 foot. Groundwater elevation measurements from March 2021 and September 2021 are summarized in Tables 1 and 2, respectively. A map showing the perched groundwater elevation isocontours and groundwater flow direction is included as Figure 3 for the March 2021 event and as Figure 4 for the September 2021 event.

After well gauging was completed, select monitoring wells including MW-8, MW-9, MW-10, MW-16, and MW-17 were sampled in March 2021. In addition to these wells, monitoring wells DMW-3, MW-11, and MW-13 were also included during the September 2021 sampling event. Groundwater sampling was conducted using low-flow methodology and groundwater quality parameters, including pH, dissolved oxygen (DO), conductivity, temperature, turbidity, and oxidation-reduction potential (ORP), were measured via a YSI® 600XL or 556 water quality instrument coupled with a flow-through cell. In addition to measuring field parameters, the purged groundwater from each well was visually inspected for the presence of a purple or pink color, which would indicate the presence of un-reacted permanganate within the groundwater. A change in color of the water in the wells from dark purple to light pink (i.e., > visual concentration of 0.5 milligrams per liter [mg/L]) or clear (i.e., < visual concentration of 0.5 mg/L) indicates that the permanganate would have been consumed, diluted, or transported with groundwater.

Groundwater samples from monitoring wells that exhibited residual permanganate, as indicated by a pink or purple color of the purge water, were collected in laboratory-provided unpreserved vials pre-charged in the field with sodium thiosulfate. The sodium thiosulfate was added to neutralize the residual permanganate in the groundwater sample as it may influence the performance of the laboratory's analytical instruments. During the March 2021 sampling event, monitoring well MW-16 exhibited residual permanganate and monitoring wells MW-11 and MW-16 exhibited residual permanganate during the September 2021 sampling event. These wells were analyzed for residual sodium permanganate concentration in the field subsequent to site-specific parameter list (SSPL) VOC sampling using a Hach® DR890 or DR2800 colorimeter. A summary of the residual sodium permanganate groundwater concentrations is presented in Table 3.

As part of the quality assurance/quality control (QA/QC) procedures, one trip blank, one duplicate sample, one matrix spike sample, one matrix spike duplicate sample, and one equipment blank sample per sampling date were also collected during each sampling event. All samples were collected in laboratory-supplied glassware, packaged on ice, and shipped to ALS Environmental (formerly Columbia Analytical Services, Inc.), of Rochester, New York (New York Laboratory Certification 10145) for analysis. All samples were analyzed for SSPL VOCs using United States Environmental Protection Agency (USEPA) Method 8260C. The SSPL VOCs analyzed for were: tetrachloroethylene (PCE); trichloroethylene (TCE); 1,1,1-trichloroethane (TCA); 1,1-dichloroethane (1,1-DCA); 1,1-dichloroethene (1,1-DCE); cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE); and vinyl chloride (VC).

GROUNDWATER ELEVATION AND FLOW DIRECTIONS

The groundwater elevation data from March and September 2021 are summarized in Tables 1 and 2, respectively. The groundwater elevation contour map for the March and September 2021 events are provided as Figure 3 and Figure 4, respectively.

The groundwater elevation contour maps indicate that the hydraulic gradient is slight across the site and the groundwater flow within the perched groundwater zone is to the north-northwest, consistent with historical groundwater flow data. Although the groundwater flow is to the north-northwest, the slight hydraulic gradient as well as the fact that the groundwater plume has not migrated from the site supports the perched groundwater conceptual model for the site.

GROUNDWATER MONITORING ANALYTICAL RESULTS

The groundwater analytical data for the March and September 2021 monitoring events are summarized in Tables 4 and 5, respectively. The historical distribution of SSPL VOCs, including pre-full scale ISCO injection initiation sampling results, is summarized in Table 6. An isoconcentration map comparing the total molar concentration of PCE and its daughter products as chloride equivalents from June 2009, prior to the start of injection at the site, at the midpoint of injections in September 2015, and the plume as of September 2020 and September 2021 is presented on Figure 5. A graphical depiction of the decreasing trend of TCE concentrations, the site contaminant of concern with the highest observed historic concentrations, is presented on Figure 6.

The groundwater sampling field logs for both the March and September 2021 sampling events are provided in Appendix A. The complete laboratory data reports for the groundwater sampling events are presented in Appendix B. The electronic data deliverables (EDDs) for each groundwater sampling event have previously been submitted to the NYSDEC.

Based on the information collected during 2021 semi-annual groundwater monitoring events, VERINA makes the following conclusions:

- In comparing the September 2021 to the June 2009 total molar concentration of PCE and its daughter products, the plume size of the highest molar concentration as chloride equivalents observed within the source zone near MW-8, MW-11 and MW-16 has

decreased significantly. This indicates an overall COC mass reduction (as represented by both PCE and daughter products) within the perched groundwater beneath the site. Over 82% mass reduction of COCs in groundwater was estimated since the ISCO injection was implemented in 2009.

- In comparing the September 2020 and September 2021 contaminant concentrations, decreases in concentrations are noted in wells MW-8, MW-9, MW-10 and MW-11 while increases are noted in wells MW-13, MW-16 and MW-17.
- Several COCs were detected above their respective NYSDEC groundwater quality standards in wells MW-8, MW-9, MW-16 and MW-17 during the March 2021 sampling event. These COCs consist of 1,1-DCA, cis-1,2-DCE, 1,1,1-TCA and/or TCE.
- Several COCs were detected above their respective NYSDEC groundwater quality standards in wells MW-8, MW-9, MW-10, MW-16 and MW-17 during the September 2021 sampling event. These COCs consist of 1,1-DCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, TCE and/or VC
- PCE was not detected above its NYSDEC groundwater quality standard in any of the monitoring wells sampled in 2021.
- The COCs continue to be naturally attenuated at the site following decreasing trends in all monitoring locations.

ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) SYSTEM OM&M

ASD SYSTEM INSPECTIONS

In accordance with the approved 2012 Remedial Design Work Plan – Active Sub-Slab Depressurization System (VERINA 2012), an ASD system was installed at the site. This system, shown on Figure 7, was installed in July 2012 to serve as a mitigation measure for elevated COC concentrations (specifically PCE and TCE) detected in the indoor air at the facility. Since installation and start-up, the ASD system has been operated continuously without disruption. Two rounds of indoor air sampling were conducted following implementation of the ASD system, on December 19, 2012 and December 10, 2013.

The ASD system has been effective at reducing the indoor air concentrations of COCs when comparing the December 2012 and December 2013 indoor air sampling results to the indoor air sampling results collected in March 2009 prior to the installation of the ASD system. Since no site specific COC concentrations in the indoor air samples exceeded the New York State Department of Health (NYSDOH)'s Indoor Air Guidance Values during the 2013 indoor air sampling event, VERINA proposed that no additional indoor air sampling events being conducted unless changes or modifications to the ASD system and/or to the building are identified during the monthly ASD system inspections in the January 2014 PRR. NYSDEC approved the PRR on August 1, 2014.

In December 2017, the ASD system fan was found to not be operating constantly but rather intermittently, which was believed to have been caused by a recent power outage of the site building. The ASD system fan was replaced on January 3, 2018 and the system has been operated continuously. VERINA collected a round of indoor air samples in March 2018 which indicated that no site specific COC concentrations in the indoor air samples exceeded the NYSDOH's Indoor Air Guidance Values.

During 2021, monthly inspections of the ASD system were implemented. Based on the inspection of the conditions of ASD system components and building, there is no structural changes or modifications to the building and the ASD system has been operated properly without any issues. The pressure gauge measurements at each of the four vapor extraction points were also collected. Monthly ASD inspection logs are included as Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings and conclusions of the groundwater monitoring program, field observations and ASD system OM&M results, VERINA has drawn the following conclusions:

- Based on the analytical results of the historic and current groundwater sampling events, COCs have not been detected in monitoring wells DMW-3, TMP-A, MW-11 and MW-14 during several of the recent sampling events.
- A comparison of the 2021 groundwater sampling results to the historical baseline sampling results indicates that the total VOC mass in the groundwater at the site has decreased by 82% since the remedial action was implemented in June 2009.
- The 2021 groundwater monitoring results indicated several COCs still exceed their respective NYSDEC groundwater quality standards, including cis-1,2-DCE and TCE in wells MW-8, MW-16 and MW-17 during the September 2021 sampling event.

Based on these conclusions, we recommend the following:

- Based on the historical analytical results for COCs at the site, VERINA propose to reduce the sampling frequency from semi-annually to annually in September 2022 and samples to be collected from all on-site monitoring wells.
- Based upon the analytical results of the groundwater sampling program in 2021, VERINA will continue to assess the groundwater data in 2022 to determine if additional chemical injections may be needed in the future.
- VERINA will continue monthly inspections of the ASD system in 2022.

Lastly, the next PRR documenting site activities completed for 2022 along with IC/EC Certification will be submitted to the NYSDEC in January 2023.

REFERENCES

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Shield Environmental. 1998. *Remedial Investigation/Feasibility Study Work Plan.*

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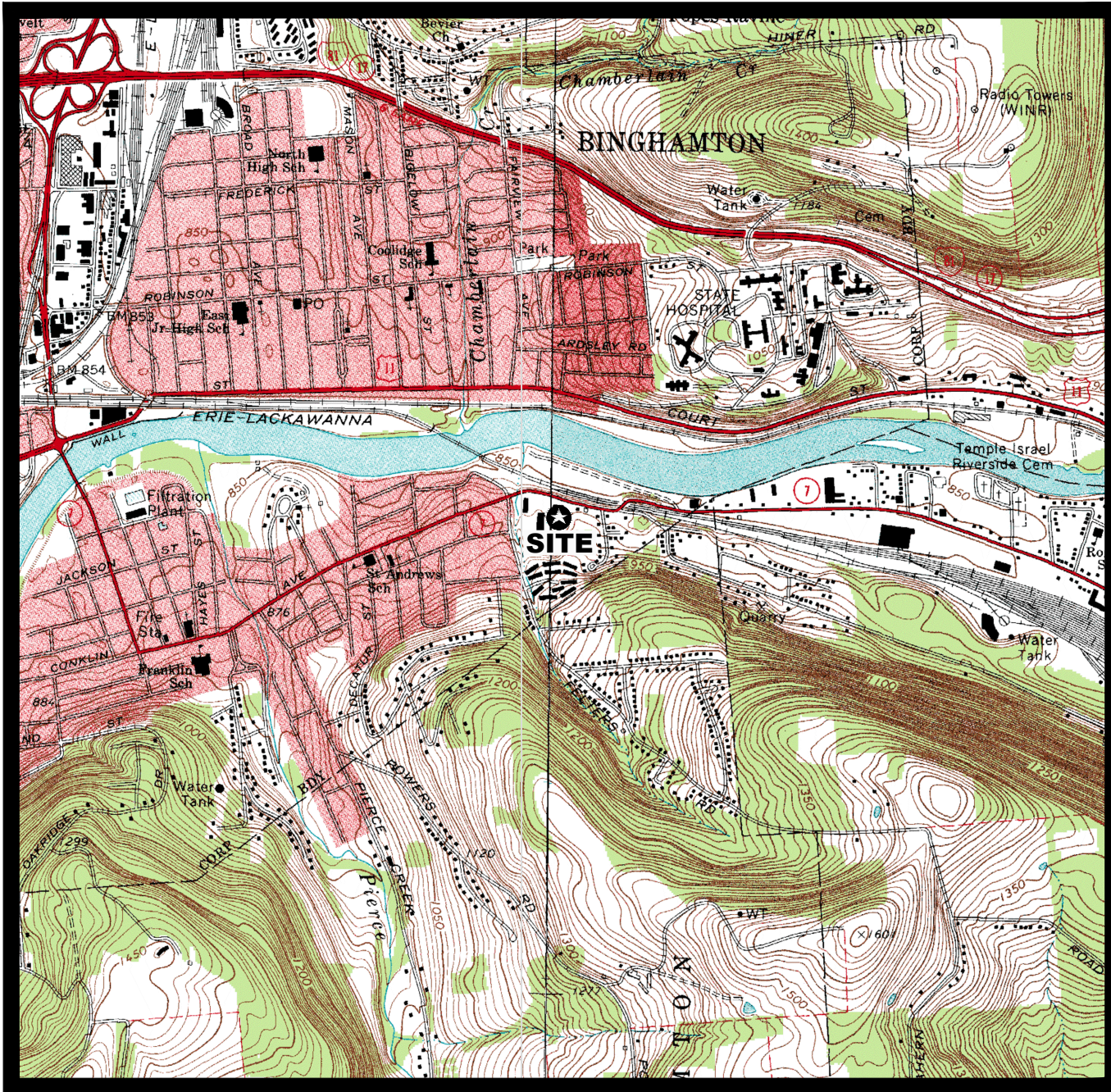
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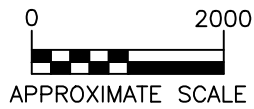
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VERINA. January 2021. *2020 Remedial Action Progress Report.*

Figures



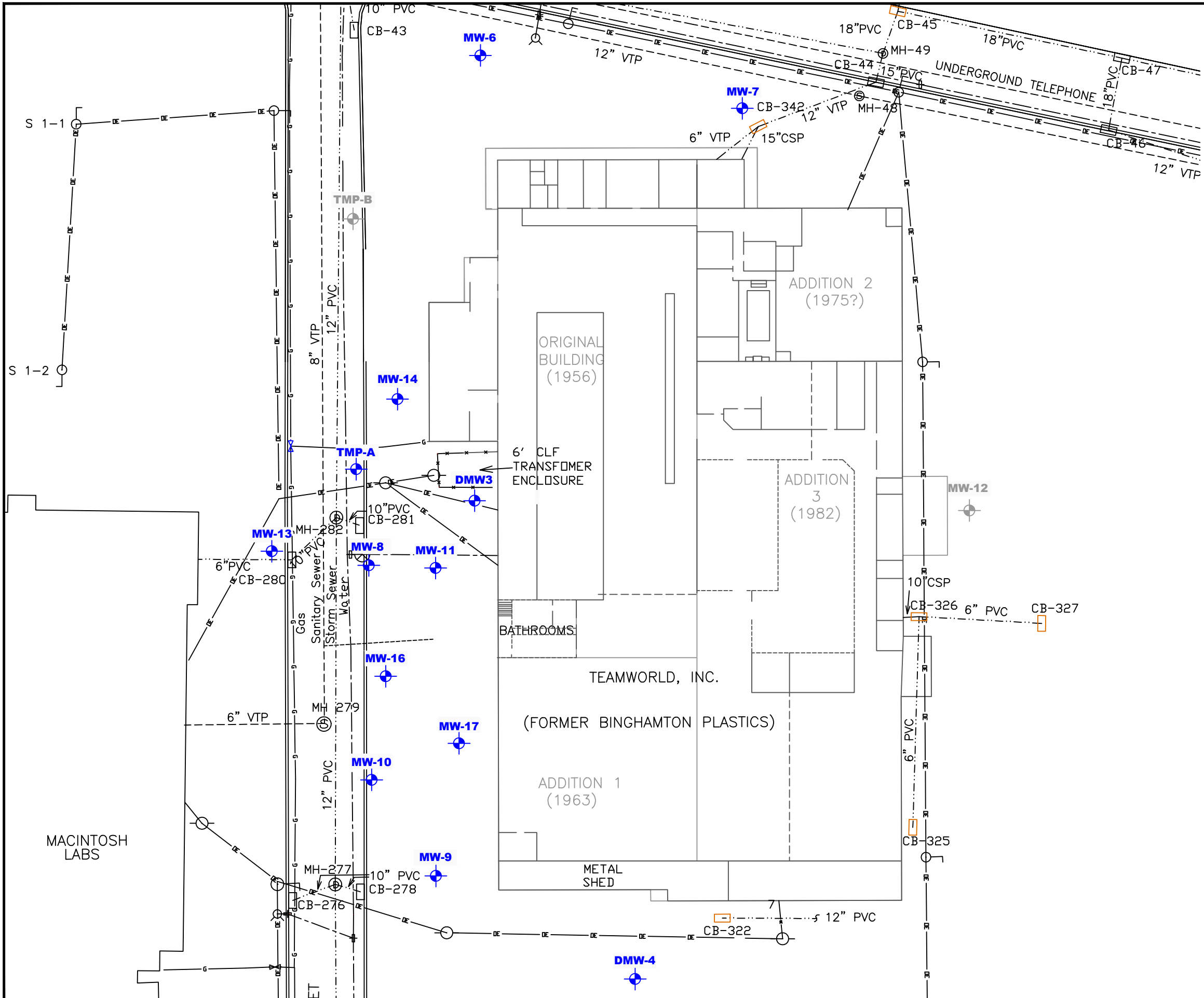
WEST BINGHAMTON AND
EAST BINGHAMTON QUADRANGLES
7.5-MINUTE SERIES



FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

REGIONAL LOCATION MAP

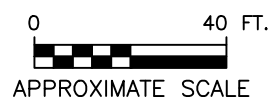




EXPLANATION

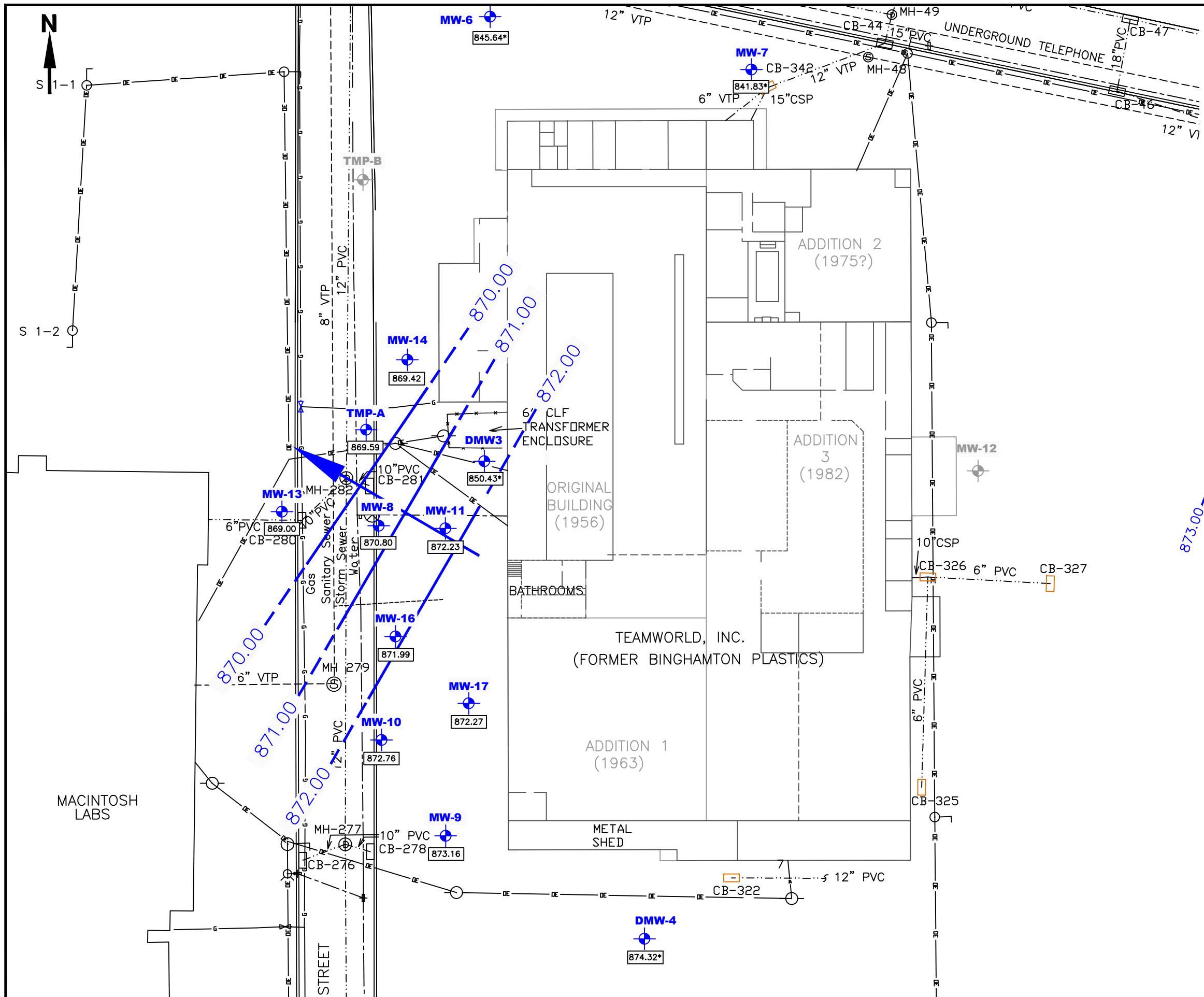
- MW-6 DESIGNATION AND LOCATION OF MONITORING WELL
- TMP-B DESIGNATION AND LOCATION OF DESTROYED MONITORING WELL
- UTILITY POLE
- UTILITY POLE W/LIGHT
- STORM MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- POST INDICATOR VALVE
- HYDRANT
- WATER VALVE
- GAS VALVE
- FORMER WALL

SOURCE:
 SITE MAP AND FEATURES OBTAINED FROM
*PRE-DESIGN INVESTIGATION REPORT FOR THE
 ACTIVE SLAP DEPRESSURIZATION SYSTEM*
 PREPARED BY ARCADIS OF CRANBURY,
 NEW JERSEY, JUNE 26, 2009



FORMER BINGHAMTON PLASTICS
 BINGHAMTON, NEW YORK

**SITE MAP WITH
 MONITORING WELL LOCATIONS**



EXPLANATION

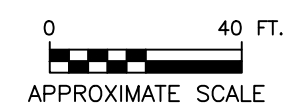
- MW-6** DESIGNATION AND LOCATION OF MONITORING WELL
- TMP-B** DESIGNATION AND LOCATION OF ABANDONED MONITORING WELL
- UTILITY POLE
- (FT., MSL)
- STORM MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- POST INDICATOR VALVE
- FLOW DIRECTION HYDRANT
- WATER VALVE
- GAS VALVE
- FORMER WALL
- 869.84** GROUNDWATER ELEVATION

GROUNDWATER ELEVATION ISOCONTOUR INTERVAL IN FT., MSL (DASHED WHERE INFERRED)

CONTOUR INTERVAL = 1.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.08 FT/FT

- NOTES:
- 1) FT. MSL = FEET, MEAN SEA LEVEL
 - 2) NM = NOT MEASURED
 - 3) * = NOT INCLUDED IN CALCULATION OF CONTOUR LINES

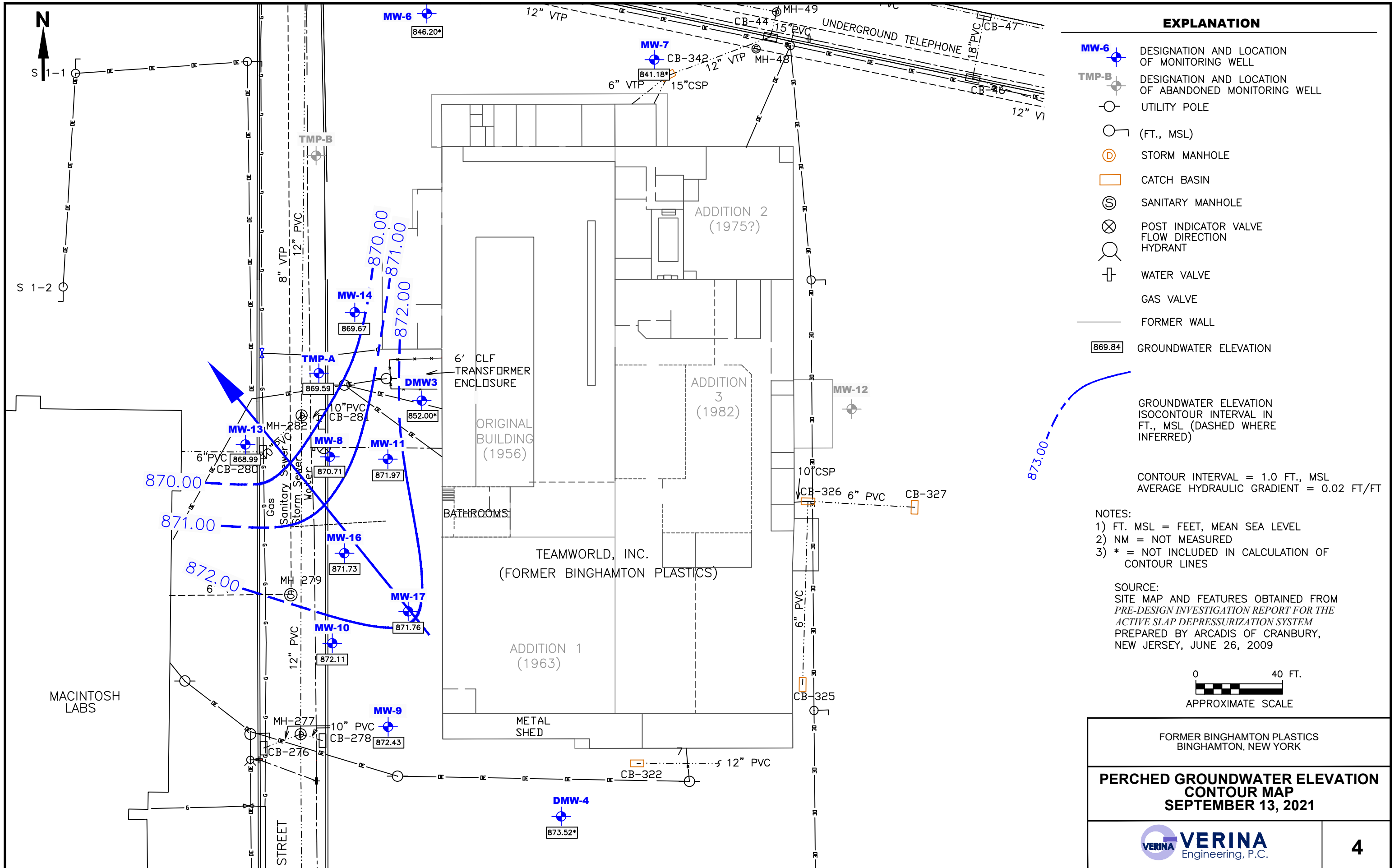
SOURCE:
SITE MAP AND FEATURES OBTAINED FROM
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PREPARED BY ARCADIS OF CRANBURY,
NEW JERSEY, JUNE 26, 2009



FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

**PERCHED GROUNDWATER ELEVATION
CONTOUR MAP
MARCH 9, 2021**

3



EXPLANATION

- MW-6 DESIGNATION AND LOCATION OF MONITORING WELL
- TMP-B DESIGNATION AND LOCATION OF ABANDONED MONITORING WELL
- UTILITY POLE
- (FT., MSL)
- ⊙ STORM MANHOLE
- CATCH BASIN
- ⊙ SANITARY MANHOLE
- ⊗ POST INDICATOR VALVE
- ⊗ FLOW DIRECTION HYDRANT
- ⊕ WATER VALVE
- GAS VALVE
- FORMER WALL
- 869.84 GROUNDWATER ELEVATION

GROUNDWATER ELEVATION ISOCONTOUR INTERVAL IN FT., MSL (DASHED WHERE INFERRED)

CONTOUR INTERVAL = 1.0 FT., MSL
 AVERAGE HYDRAULIC GRADIENT = 0.02 FT/FT

- NOTES:
- 1) FT. MSL = FEET, MEAN SEA LEVEL
 - 2) NM = NOT MEASURED
 - 3) * = NOT INCLUDED IN CALCULATION OF CONTOUR LINES

SOURCE:
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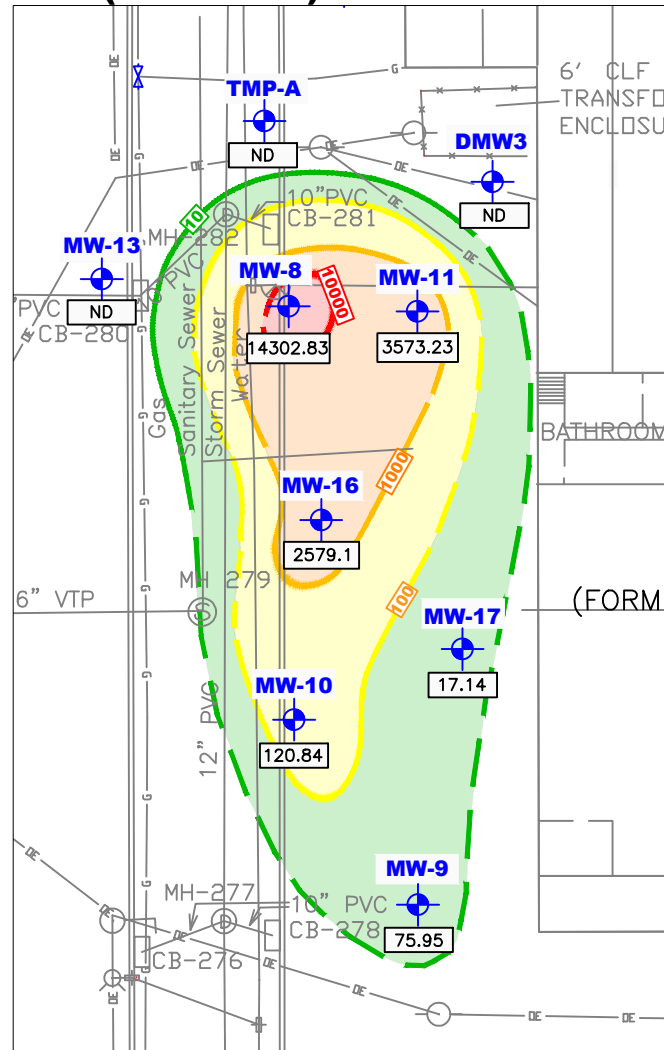


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 BINGHAMTON, NEW YORK

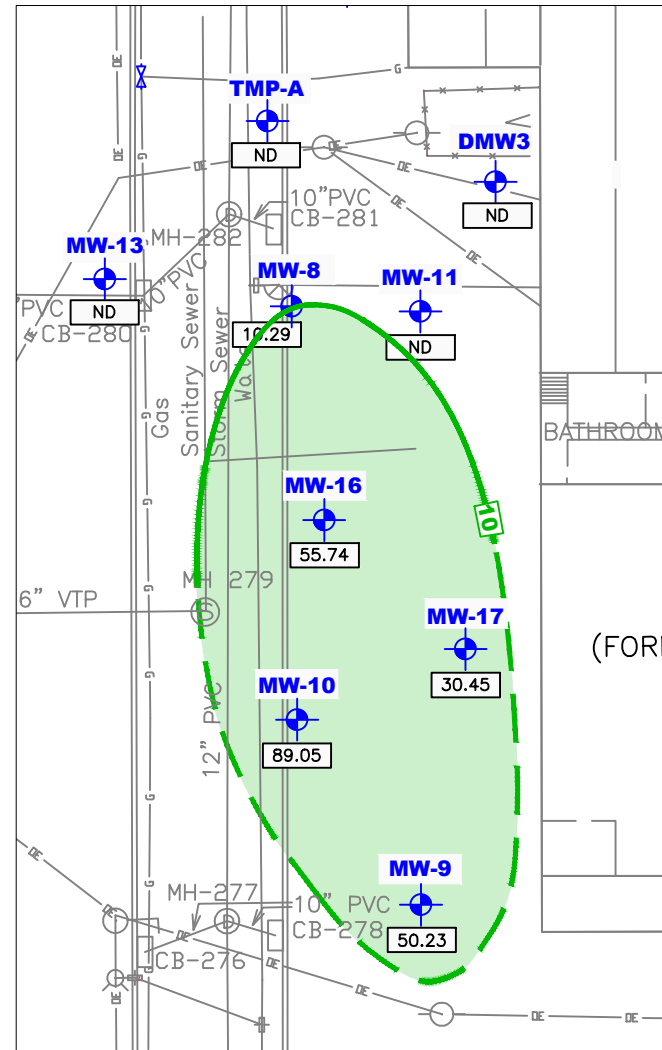
**PERCHED GROUNDWATER ELEVATION
 CONTOUR MAP
 SEPTEMBER 13, 2021**

4

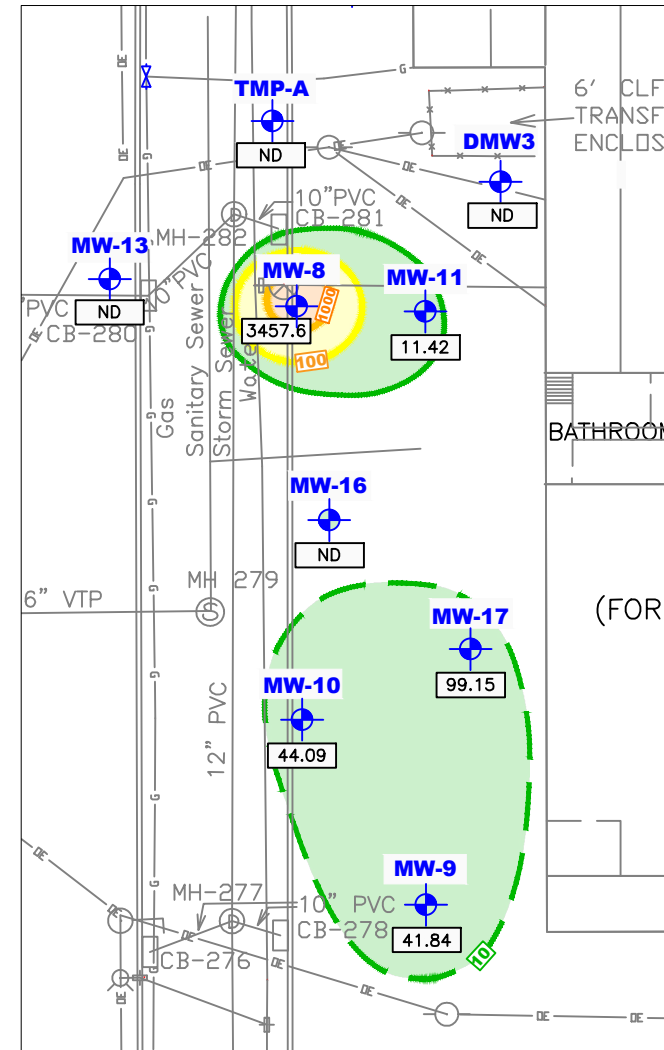
(Baseline) JUNE 2009



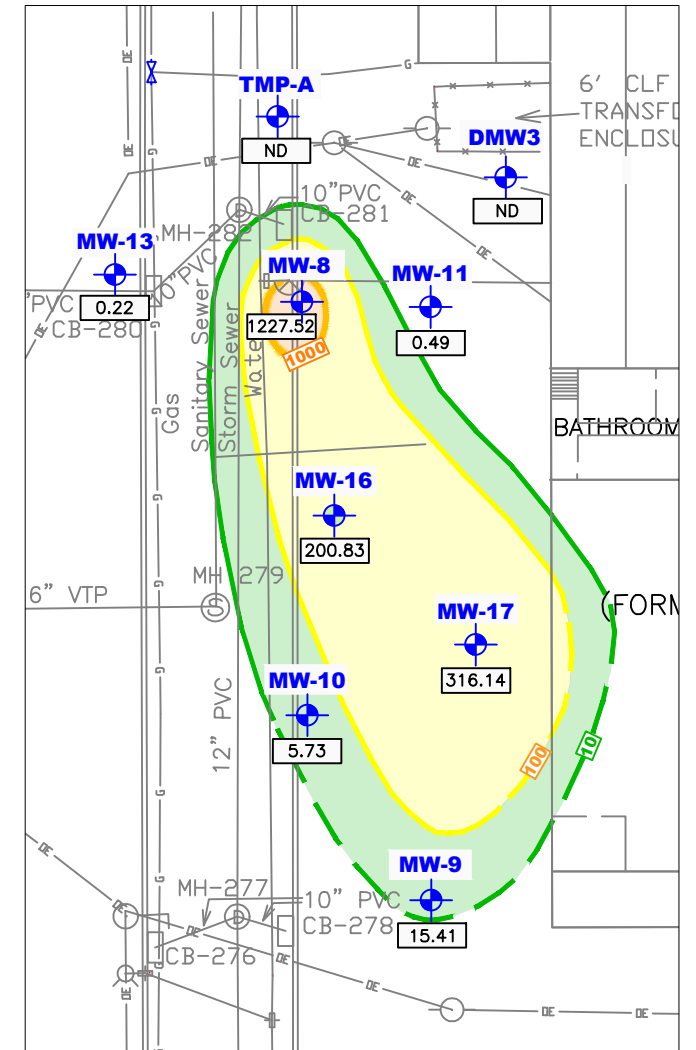
SEPTEMBER 2014



SEPTEMBER 2020



SEPTEMBER 2021



EXPLANATION

	MOLAR CONCENTRATION > 10 (mol x 10 ⁸)/L (AS CHLORIDE EQUIVALENTS)
	MOLAR CONCENTRATION > 100 (mol x 10 ⁸)/L (AS CHLORIDE EQUIVALENTS)
	MOLAR CONCENTRATION > 1000 (mol x 10 ⁸)/L (AS CHLORIDE EQUIVALENTS)
	MOLAR CONCENTRATION > 10000 (mol x 10 ⁸)/L (AS CHLORIDE EQUIVALENTS)

NOTE:
CONTOUR LINES ARE DASHED WHERE INFERRED

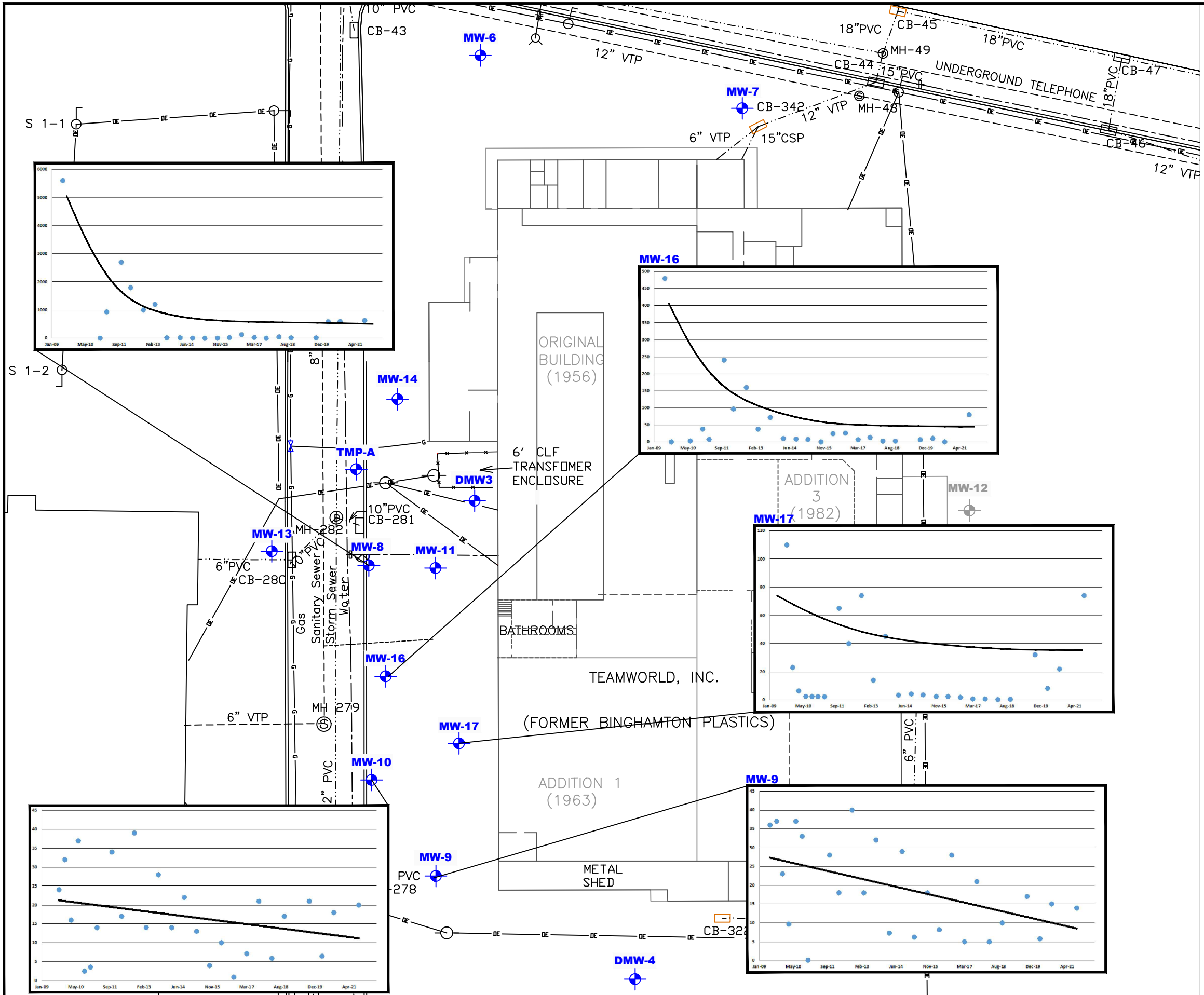
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NEW JERSEY, JUNE 26, 2009

0 40 FT.
APPROXIMATE SCALE

FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

**ESTIMATED PCE AND DAUGHTER
PRODUCTS TOTAL MOLAR ISOCONCENTRATION
PLUME MAPS AS CHLORIDE EQUIVALENTS,
BASELINE TO SEPTEMBER 2021**

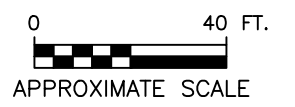
VERINA
Engineering, P.C.



EXPLANATION

- MW-6** DESIGNATION AND LOCATION OF MONITORING WELL
- TMP-B** DESIGNATION AND LOCATION OF DESTROYED MONITORING WELL
- UTILITY POLE
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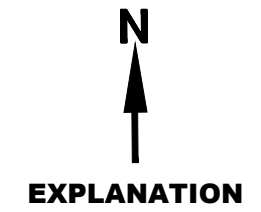
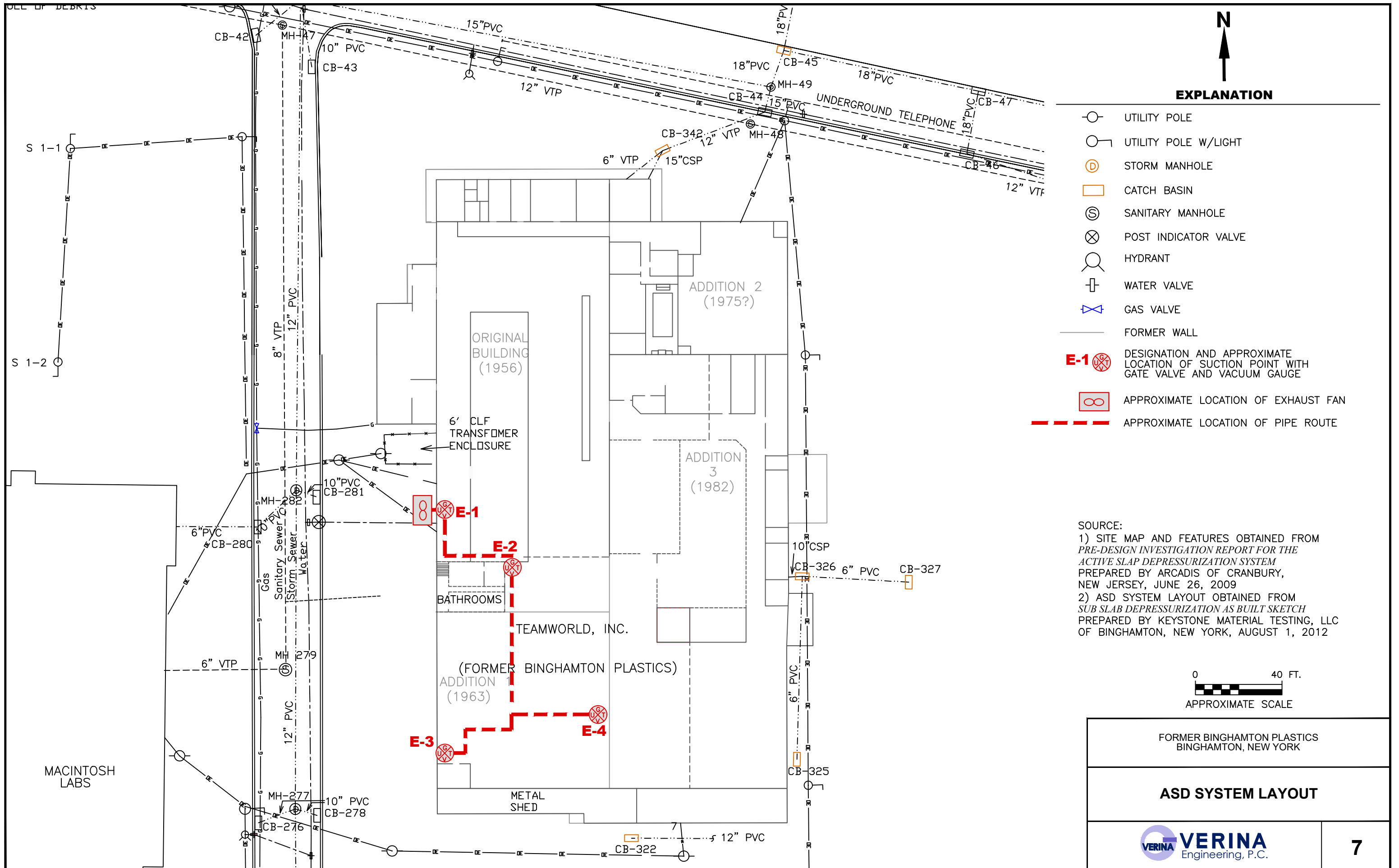















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 BINGHAMTON, NEW YORK

TCE TREND ANALYSIS AT SELECT WELLS

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6



-  UTILITY POLE
-  UTILITY POLE W/LIGHT
-  STORM MANHOLE
-  CATCH BASIN
-  SANITARY MANHOLE
-  POST INDICATOR VALVE
-  HYDRANT
-  WATER VALVE
-  GAS VALVE
-  FORMER WALL
-  **E-1** DESIGNATION AND APPROXIMATE LOCATION OF SUCTION POINT WITH GATE VALVE AND VACUUM GAUGE
-  APPROXIMATE LOCATION OF EXHAUST FAN
-  APPROXIMATE LOCATION OF PIPE ROUTE

SOURCE:
 1) SITE MAP AND FEATURES OBTAINED FROM PRE-DESIGN INVESTIGATION REPORT FOR THE ACTIVE SLAB DEPRESSURIZATION SYSTEM PREPARED BY ARCADIS OF CRANBURY, NEW JERSEY, JUNE 26, 2009
 2) ASD SYSTEM LAYOUT OBTAINED FROM SUB SLAB DEPRESSURIZATION AS BUILT SKETCH PREPARED BY KEYSTONE MATERIAL TESTING, LLC OF BINGHAMTON, NEW YORK, AUGUST 1, 2012



FORMER BINGHAMTON PLASTICS BINGHAMTON, NEW YORK	
ASD SYSTEM LAYOUT	
	7

Tables

Table 1 - Groundwater Elevation Data - March 2021, Former Binghamton Plastics, Binghamton, New York

Monitoring Well	Well Diameter (in)	Total Depth (ft, bg)	Screened Interval (ft, bg)	Surface Elevation (ft, msl)	Top of Casing Elevation (ft, msl)	Top of PVC Elevation (ft, msl)	Depth to Water (ft, TOC)	Groundwater Elevation (ft, msl)
DMW-1	4	NA	5-15	876.19	876.44	874.21	Abandoned	NA
DMW-3	2	48.88	41-48	875.16	875.16	874.22	23.79	850.43
DMW-4	2	15.81	4-14	878.32	878.38	877.91	3.59	874.32
MW-5	2	NA	10-20	874.18	874.17	873.83	Abandoned	NA
MW-6	2	40.22	30-40	869.62	869.63	869.37	23.73	845.64
MW-7	2	39.92	30-40	869.96	869.99	869.60	27.77	841.83
MW-8	2	13.86	5-15	873.22	873.18	872.83	2.03	870.80
MW-9	2	14.53	5-15	875.02	875.04	874.76	1.60	873.16
MW-10	2	14.52	5-15	875.70	875.71	875.47	2.71	872.76
MW-11	2	19.33	10-20	874.53	874.52	874.14	1.91	872.23
MW-12	2		35-45	873.70	873.70	873.38	Paved Over	NA
MW-13	2	14.00	5-15	874.08	874.09	873.60	4.60	869.00
MW-14	2	14.43	5-15	871.06	871.07	870.57	1.15	869.42
MW-15	2	NA	5-15	874.06	874.16	873.69	Abandoned	NA
MW-16	2	13.31	5-15	874.56	NS	874.11	2.12	871.99
MW-17	2	14.03	5-15	874.03	NS	873.74	1.47	872.27
TMP-A	1	7.32	3-8	871.59	NS	871.39	1.80	869.59
TMP-B	1	NA	5-10	869.57	NS	869.36	Abandoned	NA

NOTES:

Elevation is surveyed to National Vertical Datum - 1929

in = Inches

ft, bg = Feet below grade

ft, msl = Feet above mean sea level

ft, TOC = Feet from top of inner well casing

NA = Not available

NM = Not measured

NS = Not surveyed

Groundwater elevation measured on March 9, 2021

Table 2 - Groundwater Elevation Data - September 2021, Former Binghamton Plastics, Binghamton, New York

Monitoring Well	Well Diameter (in)	Total Depth (ft, bg)	Screened Interval (ft, bg)	Surface Elevation (ft, msl)	Top of Casing Elevation (ft, msl)	Top of PVC Elevation (ft, msl)	Depth to Water (ft, TOC)	Groundwater Elevation (ft, msl)
DMW-1	4		5-15	876.19	876.44	874.21	Abandoned	NA
DMW-3	2	48.28	41-48	875.16	875.16	874.22	22.22	852.00
DMW-4	2	15.56	4-14	878.32	878.38	877.91	4.39	873.52
MW-5	2		10-20	874.18	874.17	873.83	Abandoned	NA
MW-6	2	39.93	30-40	869.62	869.63	869.37	23.17	846.20
MW-7	2	39.91	30-40	869.96	869.99	869.60	28.42	841.18
MW-8	2	13.97	5-15	873.22	873.18	872.83	2.12	870.71
MW-9	2	14.57	5-15	875.02	875.04	874.76	2.33	872.43
MW-10	2	14.36	5-15	875.70	875.71	875.47	3.36	872.11
MW-11	2	19.31	10-20	874.53	874.52	874.14	2.17	871.97
MW-12	2		35-45	873.70	873.70	873.38	Paved Over	NA
MW-13	2	13.96	5-15	874.08	874.09	873.60	4.61	868.99
MW-14	2	14.45	5-15	871.06	871.07	870.57	0.90	869.67
MW-15	2		5-15	874.06	874.16	873.69	Abandoned	NA
MW-16	2	13.34	5-15	874.56	NS	874.11	2.38	871.73
MW-17	2	15.00	5-15	874.03	NS	873.74	1.98	871.76
TMP-A	1	7.36	3-8	871.59	NS	871.39	1.80	869.59
TMP-B	1		5-10	869.57	NS	869.36	Abandoned	NA

NOTES:

Elevation is surveyed to National Vertical Datum - 1929

in = Inches

ft, bg = Feet below grade

ft, msl = Feet above mean sea level

ft, TOC = Feet from top of inner well casing

NA = Not available

NM = Not measured

NS = Not surveyed

Groundwater elevation measured on September 13, 2021

Table 3 - Summary of Residual Sodium Permanganate Results, Former Binghamton Plastics, Binghamton, New York

Well ID No.	Residual Sodium Permanganate by Permanganate Ion Analysis (ppm)					
	December 2009	March 2010	June 2010	September 2010	December 2010	March 2011
MW-8	131.5	149	105.50	9.56	>19.8	3.74
MW-9	0.30	1.736	1.47	10.04	NS	18.91
MW-10	3.07	4.268	NS	3.57	>19.8	156.34
MW-11	132.2	149.1	151.70	120.80	>19.8	155.98
MW-16	29.71	95.1	76.99	105.60	>19.8	0.835
MW-17	NS	NS	103.00	11.21	>19.8	155.98

Well ID No.	Residual Sodium Permanganate by Permanganate Ion Analysis (ppm)					
	October 2011	March 2012	September 2012	March 2013	September 2013	March 2014
MW-8	0.16	17.2	1.3	0.5	70	14
MW-9	NS	7.3	NS	0.2	NS	3.0
MW-10	NS	2.4	NS	NS	NS	NS
MW-11	35.80	26.1	10.7	30	34	20
MW-16	146.46	4.6	1.7	1.1	1.3	3.1
MW-17	NS	NS	4.7	2.5	1.0	2.9

Well ID No.	Residual Sodium Permanganate by Permanganate Ion Analysis (ppm)					
	March 2014	September 2014	March 2015	September 2015	March 2016	September 2016
MW-8	14.0	10.0	10.3	164	102	35.1
MW-9	3.0	1.1	1.0	24	29	93.8
MW-10	NS	NS	NS	0.8	NS	NS
MW-11	20.0	11.1	NS	6.0	NS	221.2
MW-16	3.1	114	110.8	8.0	12	67
MW-17	2.9	24.4	23.7	104	99	112

Well ID No.	Residual Sodium Permanganate by Permanganate Ion Analysis (ppm)					
	March 2017	September 2017	March 2018	September 2018	March 2019	September 2019
MW-8	81.9	68.6	93.6	1.2	99.1	19.6
MW-9	13.7	8.7	16.8	0.1	33.7	NA
MW-10	NS	NS	NS	NS	23.7	NA
MW-11	NS	315.2	NS	22.7	NS	147.2
MW-16	160.0	302.4	93	0.1	354.0	149.6
MW-17	12.0	238.5	84.6	2.4	231.9	3.5

Well ID No.	Residual Sodium Permanganate by Permanganate Ion Analysis (ppm)					
	March 2020	September 2020	March 2021	September 2021		
MW-8	NA	NA	NA	NA		
MW-9	NA	NA	NA	NA		
MW-10	NA	NA	NA	NA		
MW-11	NS	166.4	NS	25		
MW-16	183.9	97.7	NA	25		
MW-17	67.6	NA	NA	NA		

NOTES:

ppm = parts per million

NA = Purge water was clear and water was not analyzed for residual permanganate

NS = Not sampled during given sampling event

A Hach DR890 or DR2800 colorimeter was used to measure the concentration of residual sodium permanganate

Table 4 - Groundwater Analytical Data - March 2021, Former Binghamton Plastics, Binghamton, New York

Sample ID	NYSDEC GWQS	MW-8 030921	MW-9 030921	MW-10 030921	MW-16 030921	DUP-030921
Laboratory ID		R2102165-005	R2102165-002	R2102165-001	R2102165-004	R2102165-007
Date Sampled		3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021
Units		µg/l	µg/l	µg/l	µg/l	µg/l
1,1-Dichloroethane	5	1.2 J	1.0 U	0.46 J	11	11
1,1-Dichloroethene	5	2.5 J	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	120	1.0 U	1.2	47	43
trans-1,2-Dichloroethene	5	1.6 J	1.0 U	1.0 U	2.5	1.6
Tetrachloroethene	5	2.5 U	1.0 U	0.37 J	1.0 U	1.0 U
1,1,1-Trichloroethane	5	0.99 J	1.0 U	0.46 J	5.4	5.5
Trichloroethene	5	270	9.8	3.6	11	6.0
Vinyl Chloride	2	2.5 U	1.0 U	1.0 U	0.35 J	1.0 U

Sample ID	NYSDEC GWQS	MW-17 030921	FB-030921	TB-030921
Laboratory ID		R2102165-003	R2102165-006	R2102165-008
Date Sampled		3/9/2021	3/9/2021	3/9/2021
Units		µg/l	µg/l	µg/l
1,1-Dichloroethane	5	2.0	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	7.2	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	0.55 J	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U
Trichloroethene	5	3.3	1.0 U	1.0 U
Vinyl Chloride	2	0.21 J	1.0 U	1.0 U

Notes:

J = Estimated value

µg/l = micrograms per liter

U = Compound analyzed for but not detected above method reporting limit given

"DUP" indicates the sample is a duplicate sample of that sample immediately preceding the duplicate sample on this table

Yellow highlight = concentration exceeds NYSDEC GWQS

NYSDEC = New York State Department of Environmental Conservation

GWQS = Ground Water Quality Standards

"FB" indicates the sample is an equipment blank sample

"TB" indicates the sample is a trip blank sample

Table 5 - Groundwater Analytical Data - September 2021, Former Binghamton Plastics, Binghamton, New York

Sample ID	NYSDEC GWQS	MW-8-091421	MW-9-091421	MW-10-091421	MW-11-091421	MW-13-091421	MW-16 091421
Laboratory ID		R2109484-010	R2109484-008	R2109484-007	R2109484-004	R2109484-005	R2109484-011
Date Sampled		9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1-Dichloroethane	5	3.3	1.0 U	0.74 J	0.46 J	1.0 U	32
1,1-Dichloroethene	5	5.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	700 D	1.0 U	3.4	0.32 J	1.0 U	130
trans-1,2-Dichloroethene	5	9.7	1.0 U	1.0 U	1.0 U	1.0 U	5.0
Tetrachloroethene	5	2.5 U	0.31 J	0.81 J	1.0 U	1.0 U	0.52 J
1,1,1-Trichloroethane	5	2.4 J	0.60 J	1.9	0.71 J	1.0 U	24
Trichloroethene	5	630 D	20	14	0.21 J	0.29 J	80
Vinyl Chloride	2	10	1.0 U	0.25 J	1.0 U	1.0 U	0.24 J

Sample ID	NYSDEC GWQS	DUP-091421	MW-17-091421	DMW-3-091421	TMP-A-091421	FB-091421	TRIP BLANK-091421
Laboratory ID		R2109484-012	R2109484-009	R2109484-001	R2109484-002	R2109484-006	R2109484-003
Date Sampled		9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1-Dichloroethane	5	30	36	1.0 U	0.83 J	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	5.1	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	120	200	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	4.6	5.0	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5	24	3.4	1.0 U	0.41 J	1.0 U	1.0 U
Trichloroethene	5	75	74	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	30	1.0 U	1.0 U	1.0 U	1.0 U

Notes:

J = Estimated value

ug/l = micrograms per liter

D = Result obtained from a sample dilution

U = Compound analyzed for but not detected above method reporting limit given

"DUP" indicates the sample is a duplicate sample of that sample immediately preceding the duplicate sample on this table

Yellow highlight = concentration exceeds NYSDEC GWQS

NYSDEC = New York State Department of Environmental Conservation

GWQS = Ground Water Quality Standards

"FB" indicates the sample is an equipment blank sample

"TB" indicates the sample is a trip blank sample

Table 6 - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
DMW-1	2/8/1999	1000	< 180	< 360	8200	71
DMW-3	12/10/1998	<2.5	<2.5	<0.5	1.1 J	<10
	9/18/2001	< 0.5	< 0.5	< 0.5	0.5 J	< 0.5
	4/1/2002	0.03 J	< 0.5	< 0.5	0.3 J	< 0.5
	9/19/2002	0.2 J	<0.5	0.07 J	0.3 J	<0.5
	3/28/2003	<0.5	<0.5	0.2 J	0.1 J	<0.5
	6/19/2003	0.8	<0.5	0.3 J	0.8	<0.5
	9/16/2003	<0.5	<0.5	0.3 J	0.08 J	<0.5
	1/6/2004	<0.5	0.091 J	0.31 J	0.16 J	<0.5
	4/6/2004	0.2 J	<0.5	0.25 J	0.15 J	<0.5
	6/24/2004	<0.5	<0.5	0.17	<0.5	<0.5
	9/20/2004	<0.5	<0.5	0.23 J	0.13 J	<0.5
	3/23/2005	<0.5	<0.5	<0.5	0.13J	<0.5
	9/27/2005	<2	<2	<1	<1	<2
	3/7/2006	<5	<5	0.43J	<5	<5
	5/25/2006	<5	<5	<5	<5	<5
	9/19/2006	<5	<5	<5	<5	<5
	4/2/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	8/28/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	10/15/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	3/24/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	7/22/2008	<5.0	<5.0	<5.0	0.88 J	<5.0
	10/7/2008	<5.0	<5.0	<5.0	0.40 J	<5.0
	12/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	3/11/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	6/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	12/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	3/9/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	6/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
12/14/2010	<5.0	<5.0	<5.0	<5.0	<5.0	
3/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	
10/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	
3/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	
9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0	
9/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0	
9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0	
9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0	
9/15/2016	<1.0	<1.0	<1.0	<1.0	<1.0	
9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0	
9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0	
9/23/2019	<1.0	<1.0	<1.0	<1.0	<1.0	
9/14/2020	<1.0	<1.0	<1.0	<1.0	<1.0	
9/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	
DMW-4	12/9/1998	< 2.5	< 2.5	< 5	1.2J	< 10
TMP-A	3/22/2005	<0.5	<0.5	<0.5	<0.5	<0.5
	9/27/2005	<2	<2	<1	<2	<2
	3/7/2006	<5	<5	<5	<5	<5
	5/25/2006	<5	<5	<5	<5	<5
	9/19/2006	<5	<5	<5	<5	<5
	4/2/2007	<5	<5	<5	<5	<5
	7/23/2008	<5	<5	<5	<5	<5
	10/7/2008	<5	<5	<5	<5	<5
	3/9/2009	<5	<5	<5	<5	<5
	6/9/2009	<5	<5	<5	<5	<5
	9/16/2009	<5	<5	<5	<5	<5
	3/8/2010	<5	<5	<5	<5	<5
	10/27/2011	<5	<5	<5	<5	<5
	3/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	3/11/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
9/15/2016	<1.0	<1.0	<1.0	<1.0	<1.0	
9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0	
9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0	
9/14/2020	<1.0	<1.0	<1.0	<1.0	<1.0	
9/14/2021	<1.0	<1.0	<1.0	<1.0	<1.0	
MW-2	12/10/1998	7.9	< 2.5	1.3 J	86	< 10
MW-5	12/10/1998	480	11	1	17,000	20
	9/18/2001	370 J	< 500	<500	23,000	< 500
	4/1/2002	0.3 J	< 0.5	0.06 J	48	< 0.5
MW-6	12/9/1998	< 2.5	< 2.5	< 5	< 5	< 10
MW-7	12/8/1998	< 2.5	< 2.5	< 5	< 5	< 10
MW-8	12/10/1998	0.25	< 5	< 0.01	0.35	<20
	9/18/2001	650	< 25	< 25	100	44
	4/1/2002	170	2	6	230	6
	9/18/2002	240	3 J	<6	560	<6
	3/28/2003	370	4	0.4 J	420	16
	6/19/2003	1,000	19	<13	810	36
	9/16/2003	960	14 J	<31	250	240
	1/6/2004	670	7.3 J	<18	500	7.7 J
	4/6/2004	1,900	12 J	<50	420	300
	6/24/2004	2,500	27	83	170	430
	9/20/2004	6,200	75	<210	380	740
	3/23/2005	4,000	44 J	<0.5	930	490
	6/14/2005	<2	<2	<1	<1	<2
	9/27/2005	<2	<2	<1	<1	<2
	3/7/2006	<50	<50	<50	<50	<50
	4/2/2007	110	0.69J	<5.0	360D	<5.0
	10/15/2007	640 D	9.8 J	<13	2700 D	66
	3/24/2008	170	3.3 J	<13	790 D	4.2 J
	7/22/2008	900	14 J	<100	3400	120
	10/7/2008	640	18 J	<100	3200	82 J
	12/2/2008	440	6.4 J	<25	2200 D	3.6 J
	3/10/2009	450	<100	<100	2200	38 J
	6/9/2009	680	14 J	<50	5600 D	53
	9/14/2009	NS	NS	NS	NS	NS
	12/8/2009	NS	NS	NS	NS	NS
	3/8/2010	NS	NS	NS	NS	NS
	6/21/2010	NS	NS	NS	NS	NS
	9/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/15/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	100	0.43 J	<5.0	940 D	3.9 J
	10/27/2011	330 D	1.6 J	<5.0	2700 D	21
	3/13/2012	290	3.2 J	<50	1800	32 J
	9/17/2012	360	<50	<50	1000	33 J
	3/11/2013	210	11 J	<50	1200	5.3 J
	9/2/2013	1.7 J	<5.0	<5.0	16	<5.0
	3/17/2014	0.85 J	<5.0	<5.0	12	<5.0
9/20/2014	0.67 J	<5.0	<5.0	3.9 J	<5.0	
3/18/2015	0.75 J	<5.0	<5.0	6.4	<5.0	
9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0	
3/17/2016	9.1	<1.0	<1.0	27	<1.0	
9/15/2016	71	<1.0	<1.0	120	<1.0	
3/22/2017	29	<1.0	<1.0	26	<1.0	
9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0	
3/22/2018	67	0.33 J	<1.0	50	<1.0	
9/20/2018	11 (15)	<1.0	<1.0 (<1.0)	8.7 (9.7)	<1.0 (<1.0)	
3/20/2019	92	<10.0	<10.0	24	<10.0	
9/23/2019	4.1	<1.0	<1.0	13	<1.0	
3/25/2020	480 D	8.6	<1.0	580 D	2.2	
9/14/2020	1000 D	12	<5.0	600	14	
3/9/2021	120	1.6 J	<2.5	270	<2.5	
9/14/2021	700 D	9.7	<2.5	630 D	10	

See notes on last page.

Table 6 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-9	12/10/1998	7.3	< 2.5	1.2J	77	< 10
	4/1/2002	0.6	< 0.5	0.2 J	20	< 0.5
	9/18/2002	7	0.08 J	1	57 J	0.9 J
	3/28/2003	1	<0.5	0.4 J	16	<0.5
	6/19/2003	3	0.04 J	0.5	26	0.09 J
	9/16/2003	4.1	<1.3	0.61 J	40	<1.3
	1/6/2004	2.4	0.083 J	0.48 J	23	<0.5
	4/6/2004	0.8 J	<1	0.61 J	30	<1
	6/24/2004	4.7	<0.5	0.53	27	0.52
	9/20/2004	6.2	<2.0	0.79 J	57	<2.0
	3/23/2005	0.78	<0.5	0.23 J	17	<0.5
	9/27/2005	5.5	<2	<2	46	<2
	3/7/2006	<5	<5	<5	<5	<5
	4/2/2007	0.85J	<5.0	<5.0	24	<5.0
	8/28/2007	8.4	<5.0	0.88 J	55	0.67 J
	10/15/2007	10	<5.0	0.81 J	55	<5.0
	3/24/2008	0.44 J	<5.0	<5.0	19	<5.0
	7/21/2008	12	<5.0	0.55 J	45	0.55 J
	10/8/2008	7.1	<5.0	0.59 J	49	<5.0
	12/2/2008	5.8	<5.0	0.47 J	49	<5.0
	3/10/2009	2.1 J	<5.0	<5.0	24	<5.0
	6/10/2009	1.4 J	<5.0	<5.0	32	<5.0
	9/16/2009	1.9 J	<5.0	0.83 J	24	<5.0
	12/8/2009	2.2 J	<5.0	0.43 J	32	<5.0
	3/8/2010	0.78 J	<5.0	<5.0	16	<5.0
	6/21/2010	1.60 J	<5.0	<5.0	37	<5.0
	9/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/16/2010	<5.0	<5.0	<5.0	3.6 J	<5.0
	3/23/2011	<5.0	<5.0	<5.0	14	<5.0
	10/26/2011	0.76 J	<5.0	0.38 J	34	<5.0
	3/13/2012	0.21 J	<5.0	<5.0	17	<5.0
	9/18/2012	1.1 J	<5.0	0.39 J	39	<5.0
	3/11/2013	<5.0	<5.0	<5.0	14	<5.0
	9/5/2013	0.94 J	<5.0	0.31 J	28	<5.0
	3/17/2014	0.41 J	<5.0	<5.0	14	<5.0
	9/21/2014	<5.0	<5.0	<5.0	22	<5.0
	3/19/2015	0.92 J	<5.0	<5.0	13	<5.0
	9/23/2015	<5.0	<5.0	<5.0	4.0 J	<5.0
	3/17/2016	0.31 J	<1.0	<1.0	10	<1.0
	9/15/2016	<1.0 (<1.0)	<1.0 (<1.0)	<1.0 (<1.0)	0.95 J (0.91 J)	<1.0 (<1.0)
3/21/2017	<1.0	<1.0	<1.0	7.1	<1.0	
9/14/2017	0.92 J	<1.0	0.30 J	21	<1.0	
3/22/2018	<1.0	<1.0	<1.0	5.9	<1.0	
9/20/2018	<1.0	<1.0	<1.0	17	<1.0	
3/20/2019	<10.0	<10.0	<10.0	5.3 J	<10.0	
9/23/2019	0.32 J	<1.0	0.29 J	21	<1.0	
3/25/2020	0.34 J	<1.0	<1.0	6.5	<1.0	
9/14/2020	0.36 J	<1.0	<1.0	18	<1.0	
3/9/2021	<1.0	<1.0	<1.0	9.8	<1.0	
9/14/2021	<1.0	<1.0	0.31 J	20	<1.0	
MW-10	12/10/1998	18	< 2.5	54	64	2.3 J
	9/18/2001	10	< 1.4	2	21	18
	4/1/2002	11	0.3 J	1	16	2
	9/18/2002	14	0.4 J	4	53 J	21
	3/28/2003	11	0.2 J	2	25	2
	6/19/2003	13	0.5 J	3	32	9
	9/16/2003	15	0.39 J	2.4	42	12
	1/6/2004	4.3	0.26 J	1.6	13	0.43 J
	4/6/2004	4.7	<0.5	0.89	13	0.38 J
	6/24/2004	16	0.65	2.6	45	8.6
	9/20/2004	3.4	0.15 J	2.7	16	0.9
	3/23/2005	3.8	0.11 J	1.1	12	0.57
	9/27/2005	13	<2	3	50	6.6
	3/7/2006	9.3	<5	1.6J	27	2.5J
	9/19/2006	17	0.48J	2.2J	32	5.9
	8/28/2007	12	0.33 J	2.2 J	31	5.9
	10/15/2007	4.8 J	<5.0	2.1 J	16	1.7 J
	3/24/2008	3.9 J	<5.0	0.53 J	6.6	<5.0
	7/21/2008	3.7 J	<5.0	0.45 J	5.3	0.72 J
	10/8/2008	12	0.26 J	1.4 J	25	5.3
	12/2/2008	4.4 J	<5.0	1.2 J	9.4	<5.0
	3/10/2009	4.3 J	<5.0	0.77 J	9.2	<5.0
	6/8/2009	15	<5.0	1.6 J	36	2.4 J
	9/14/2009	18	<5.0	2.0 J	37	4.8 J
	12/9/2009	13	<5.0	1.3 J	23	1.1 J
	3/8/2010	5.3	<5.0	0.71 J	9.7	<5.0
	6/22/2010	19	0.29 J	1.6 J	37	3.5 J
	9/21/2010	18	0.32 J	1.8 J	33	4.5 J
	12/15/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	86	<5.0	0.67 J	180	1.8 J
	10/26/2011	11	0.21 J	1.7 J	28	2.2 J
	3/13/2012	6	<5.0	0.81 J	18	0.46 J
	9/17/2012	14	<5.0	1.8 J	40	2.7 J
	3/11/2013	7.9	<5.0	0.72 J	18	0.49 J
	9/2/2013	11	<5.0	1.7 J	32	1.1 J
	3/17/2014	3.4 J	<5.0	0.63 J	7.3	<5.0
	9/21/2014	8.9	<5.0	1.4 J	29	0.69 J
	3/18/2015	2.1 J	<5.0	0.66 J	6.2	<5.0
	9/23/2015	3.2 J (3.1 J)	<5.0 (<5.0)	1.5 J (1.3 J)	18 (17)	<5.0 (<5.0)
	3/17/2016	2.9	<1.0	0.76 J	8.2	<1.0
9/15/2016	6.3	<1.0	1.6	28	0.36 J	
3/21/2017	2.6	<1.0	0.70 J	5.0	<1.0	
9/14/2017	5.1 (4.9)	<1.0 (<1.0)	1.3 (1.4)	21 (21)	0.38 J (<1.0)	
3/20/2018	2.2	<1.0	0.52 J	5.0	<1.0	
9/20/2018	2.6	<1.0	0.87 J	10	<1.0	
3/20/2019	2	<1.0	0.52 J	7.0	<1.0	
9/23/2019	2.8	<1.0	1.1	17	<1.0	
3/25/2020	1.9	<1.0	0.42 J	5.8	<1.0	
9/14/2020	3.6	<1.0	1	15.0	0.26 J	
3/9/2021	1.2	<1.0	0.37 J	3.6	<1.0	
9/14/2021	3.4	<1.0	0.81 J	14	0.25 J	

See notes on last page.

Table 6 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-11	12/9/1998	1,100	11	< 5	1,400	140
	9/18/2001	850	< 31	<31	700	77
	4/1/2002	1,100	12	<50	1,500	23
	9/19/2002	1,600	12 J	<25	2,100	82
	3/28/2003	1,200	11	0.2 J	2,400	58
	6/19/2003	1,300	10 J	<25	2,500	24 J
	9/16/2003	1,700	13 J	<83	2,500	170
	1/6/2004	1,200	31 J	<53	1,500	28 J
	4/6/2004	1,700	17	<83	2,300	6.8
	6/24/2004	1,600	18	<63	1,900	29
	9/20/2004	2,300 D	26 DJ	<63	2,200 D	58 DJ
	3/23/2005	1,500 D	21	<0.5	1,300 D	7.8
	6/14/2005	<2	<2	<1	<1	<2
	9/27/2005	<2	<2	<1	<1	<2
	3/7/2006	<500	<500	<500	<500	<500
	10/15/2007	<5.0	<5.0	<5.0	<5.0	< 5.0
	3/24/2008	130	<25	<25	520	5.2 J
	7/22/2008	1900	15 J	<100	2900	140
	10/7/2008	NS	NS	NS	NS	NS
	12/2/2008	NS	NS	NS	NS	NS
	3/11/2009	990	9.1 J	<25	3200 D	67
	6/8/2009	NS	NS	NS	NS	NS
	9/14/2009	NS	NS	NS	NS	NS
	12/8/2009	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS
	6/21/2010	NS	NS	NS	NS	NS
	9/20/2010	NS	NS	NS	NS	NS
	12/16/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/27/2011	<5.0	<5.0	<5.0	0.57 J	<5.0
	3/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/17/2012	<5.0	<5.0	<5.0	0.62 J	<5.0
	3/11/2013	<5.0	<5.0	<5.0	<5.0	<5.0
9/2/2013	1.2 J	<5.0	<5.0	4.3 J	<5.0	
3/18/2014	<5.0	<5.0	<5.0	<5.0	<5.0	
9/20/2014	<25	<25	<25	<25	<25	
9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0	
9/15/2016	<10	<10	<10	<10	<10	
9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0	
9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0	
9/23/2019	<10	<10	<10	<10	<10	
9/14/2020	<1.0	<1.0	<1.0	5.0 J	<1.0	
9/14/2021	0.32 J	<1.0	<1.0	0.21 J	<1.0	
MW-12	12/7/1998	< 2.5	< 2.5	< 5	< 5	< 10
MW-13	12/9/1998	< 2.5	< 2.5	< 5	< 5	< 10
	3/24/2008	NS	NS	NS	NS	NS
	7/23/2008	NS	NS	NS	NS	NS
	10/9/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	12/2/2008	<5.0	<5.0	<5.0	0.96 J	<5.0
	3/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	6/10/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	12/7/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	3/9/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	6/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/16/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	3/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
9/15/2016	<1.0	<1.0	<1.0	<1.0	<1.0	
9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0	
9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0	
9/23/2019	<1.0	<1.0	<1.0	<1.0	<1.0	
9/14/2020	<1.0	<1.0	<1.0	<1.0	<1.0	
9/14/2021	<1.0	<1.0	<1.0	0.29 J	<1.0	
MW-14	12/9/1998	< 2.5	< 2.5	< 5	< 5	< 10
	9/18/2001	< 0.5	< 0.5	< 0.5	0.2J	< 0.5
	3/28/2003	<0.5	<0.5	0.08 J	<0.5	<0.5
	6/19/2003	<0.5	<0.5	0.3 J	0.04 J	<0.5
	9/16/2003	<0.5	<0.5	0.087 J	<0.5	<0.5
	1/6/2004	<0.5	<0.5	<0.5	0.064 J	<0.5
	4/6/2004	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2004	2.1	<0.5	0.27 J	6.5	<0.5
	9/20/2004	<0.5	<0.5	<0.5	<0.5	<0.5
	3/23/2005	<0.5	<0.5	<0.5	<0.5	<0.5
	3/7/2006	<5.0	<5.0	<5.0	<5.0	<5.0
	5/25/2006	<5.0	<5.0	<5.0	<5.0	<5.0
	9/19/2006	<5.0	<5.0	<5.0	<5.0	<5.0
	4/2/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	8/28/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	10/15/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	3/24/2008	<5.0	<5.0	<5.0	0.62 J	<5.0
	7/23/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	10/7/2008	<5.0	<5.0	<5.0	0.32 J	<5.0
	12/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	3/11/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	6/10/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	12/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	3/9/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	6/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/14/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0
3/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	
9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0	
9/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0	
9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0	

See notes on last page.

Table 6 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

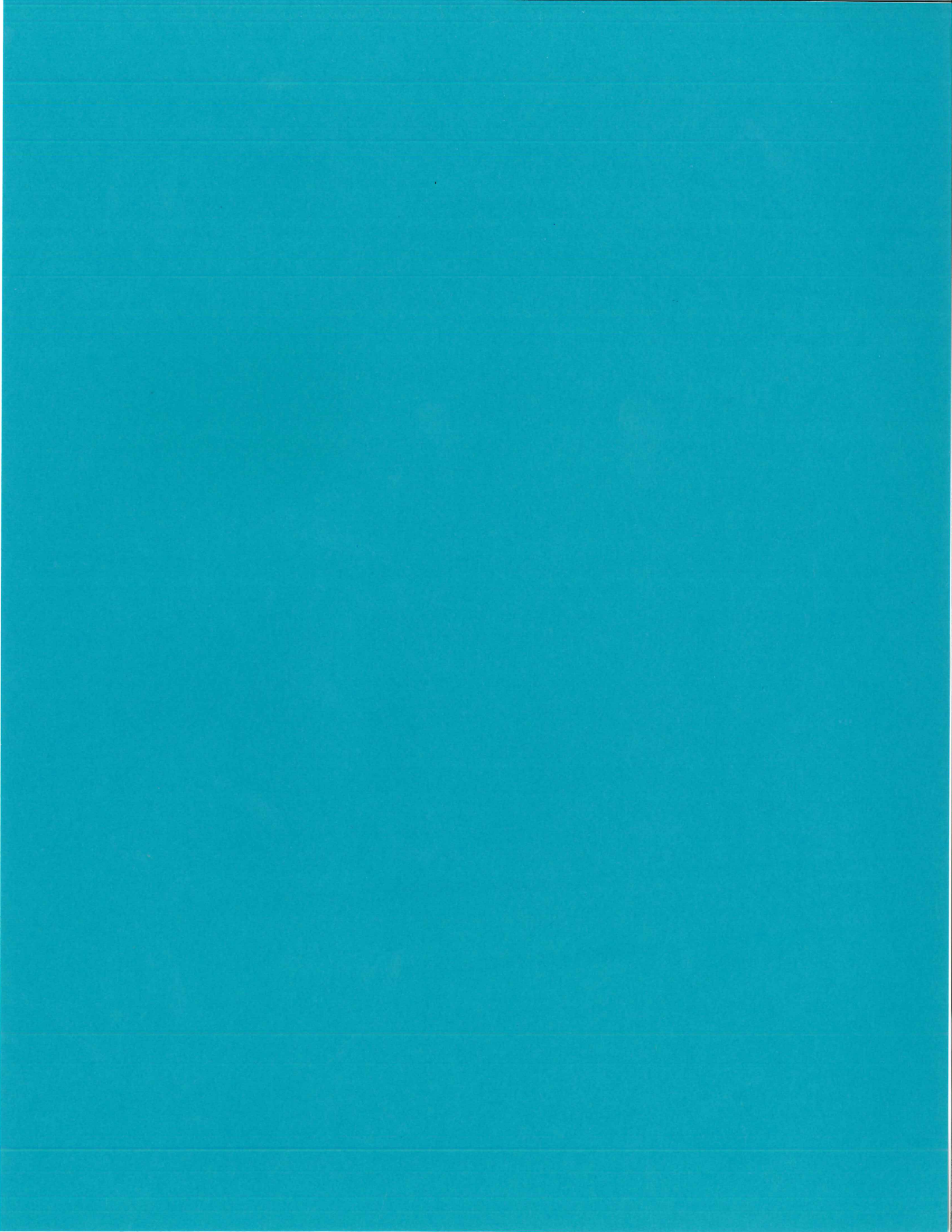
Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-15	12/10/1998	960	11	14	6,900	23
	9/18/2001	790	< 84	< 84	4,000	68 J
	4/1/2002	510	10	17	3,400	34
MW-16	9/19/2002	1,500	11 J	<32	340	38
	3/28/2003	440	7	0.2 J	15	59
	6/19/2003	400	12	0.3 J	48	58
	9/16/2003	87	4.8	0.323 J	9	24
	1/6/2004	68	3.3	<2.5	6.6	20
	4/6/2004	22	1.1	0.23 J	2.6	5.6
	6/24/2004	6.8	2	0.23 J	4.1	2.3
	9/20/2004	78 D	5.2 D	<2.5	17	27 D
	3/23/2005	9.3	5.4	<0.5	0.95	4.4
	9/25/2005	12	5.4	<1	6.2	11
	3/7/2006	<500	<500	<500	<500	<500
	10/15/2007	240 D	13	0.64 J	110	140
	3/24/2008	NS	NS	NS	NS	NS
	7/22/2008	240	8.7 J	<13	69	87
	10/8/2008	710	13 J	1.1 J	330	180
	12/2/2008	450 D	10	0.94 J	320	88
	3/10/2009	270	4.6 J	1.1 J	280	42
	6/10/2009	650	10 J	<25	480	76
	9/15/2009	<5	<5	0.55 J	<5	<5
	12/8/2009	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS
	6/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2010	NS	NS	NS	NS	NS
	12/16/2010	16	<5.0	<5.0	38	<5.0
	3/23/2011	4.1 J	<5.0	0.70 J	7.4	<5.0
	10/27/2011	140	5.6	1.8 J	240 D	<5.0
	3/13/2012	94	2.7 J	0.44 J	96	10
	9/17/2012	140	2.0 J	0.71 J	160	11
	3/11/2013	96	7.5	0.34 J	38	1.9 J
	9/5/2013	170	10	0.50 J	72	9.3
	3/17/2014	49	1.4 J	<5.0	10	14
	9/21/2014	17	<5.0	0.43 J	8.6	<5.0
	3/18/2015	31	0.35 J	<5.0	7.1	15
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
	3/17/2016	87 (88)	1.4 (1.7)	0.89 J (0.70 J)	24 (24)	1.2 (0.96 J)
	9/15/2016	83	0.87 J	0.61 J	26	4.9
	3/22/2017	30 (40)	<1.0 (<1.0)	<1.0 (<1.0)	6.1 (7.3)	8.1 (8.7)
	9/14/2017	67	<1.0	0.30 J	13	2.7
	3/22/2018	15 (14)	<1.0 (<1.0)	<1.0 (<1.0)	2.4 (2.3)	<1.0 (<1.0)
	9/20/2018	1.5	<1.0	160	1.6	<1.0
3/20/2019	68 (59)	<1.0 (<1.0)	0.23 J (0.30 J)	18 (16)	<1.0 (<1.0)	
9/23/2019	32 (35)	<1.0 (<1.0)	0.27 J (0.27 J)	6.6 (7.1)	<1.0 (<1.0)	
3/25/2020	34 (44)	<1.0 (<1.0)	<1.0 (0.23 J)	10 (17)	<1.0 (<1.0)	
9/14/2020	<1.0 (<1.0)	<1.0 (<1.0)	<1.0 (<1.0)	<1.0 (<1.0)	<1.0 (<1.0)	
3/9/2021	47 (43)	2.5 (1.6)	<1.0 (<1.0)	11 (6.0)	0.35 J (<1.0)	
9/14/2021	130 (120)	5.0 (4.6)	0.52 J (<1.0)	80 (75)	0.24 J (<1.0)	
MW-17	9/19/2002	1,800	18 J	<42	2,800	38 J
	3/28/2003	280	11	0.3 J	2	180
	6/19/2003	50	13	<6	1	65
	9/16/2003	4	11	1.6 J	0.74 J	9.1
	1/6/2004	3.3 J	6.4	<4.2	0.81 J	2.4 J
	4/6/2004	3 J	6.8	<5	1.6 J	4.5 J
	6/24/2004	<4.2	9.8	2.2	1.1	1.5
	9/20/2004	3.3 J	11	2.1 J	<5.0	6.7
	3/25/2005	7.9	7.3	<0.5	0.8	5.9
	9/27/2005	150	8	<1	71	24
	3/7/2006	<50	<50	<50	<50	<50
	9/19/2006	0.33	24	3.2	31	17
	8/28/2007	55	2.4 J	0.82 J	110	82
	10/15/2007	37	1.5 J	0.38 J	73	6.6
	3/24/2008	3.0 J	0.33 J	<5.0	1.2 J	0.93 J
	7/21/2008	2.4 J	0.94 J	<5.0	0.66 J	1.1 J
	10/8/2008	16	1.6 J	0.21 J	35	5.7
	12/2/2008	6.6	0.46 J	<5.0	15	1.3 J
	3/10/2009	3.7 J	0.46 J	<5.0	4.4 J	1.9 J
	6/9/2009	2.8 J	0.78 J	<5.0	3.5 J	1.1 J
	9/14/2009	38	2.5 J	0.60 J	110	9.1
	12/8/2009	7.4	0.61 J	<5.0	23	2.1 J
	3/9/2010	4.5 J	<5.0	<5.0	6.5	1.1 J
	6/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/15/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	5.6	<5.0	<5.0	2.2 J	<5.0
	10/26/2011	87	4.2 J	0.53 J	65	20
	3/14/2012	77	3.3 J	0.27 J	40	18
	9/17/2012	200	10	0.44 J	74	8.2
	3/11/2013	53	2.8 J	<5.0	14	0.41 J
	9/5/2013	84	3.6 J	<5.0	45	1.3 J
	3/17/2014	18	1.0 J	<5.0	3.3 J	<5.0
	9/21/2014	10	<5.0	<5.0	4.3 J	<5.0
	3/18/2015	5.8 (7.8)	<5.0 (<5.0)	<5.0 (<5.0)	3.5 J (4.6 J)	<5.0 (<5.0)
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
	3/17/2016	3.7	<1.0	<1.0	2.4	<1.0
	9/15/2016	1.4	<1.0	0.30 J	1.7	<1.0
	3/21/2017	0.78 J	<1.0	<1.0	0.78 J	<1.0
	9/14/2017	0.40 J	<1.0	<1.0	0.61 J	<1.0
3/22/2018	<1.0	<1.0	<1.0	<1.0	<1.0	
9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0	
3/20/2019	<10.0	<10.0	<10.0	<10.0	<10.0	
9/23/2019	66	<1.0	<1.0	32	0.25 J	
3/25/2020	19	<1.0	<1.0	8.3	0.69 J	
9/14/2020	23	<1.0	0.61 J	22	<1.0	
3/9/2021	7.2	0.55 J	<1.0	3.3	0.21 J	
9/14/2021	200	5.0	0.61 J	74	30	

NOTES:

J = Estimated value, compound detected below Detection Limit.
 D = Compound identified in an analysis at a secondary dilution factor
 = Baseline result

NS=Not sampled
 µg/l = Micrograms per liter
 < = Not detected above laboratory reporting limit given

Appendix A





LOW FLOW GROUND WATER PURGE/SAMPLING LOG
Former Binghamton Plastics Site, Binghamton, NY (5101.0003)

Project Name: Dover-Binghamton Project #: 5101.0003 Page 1 of 1
 Monitoring Well: MW-16 Date: 9/14/2021
 Field Personnel: MKS Weather: 70's, Partly Cloudy

PRE-PURGE INFO:

Well Depth (ft btoc): 13.35 Depth to Water (ft btoc): 1.91
 PID Beneath PVC Cap (ppm): NA Screened/Open Interval (ft btoc): 5-15
 Pump Used: Bladder Depth of Pump (ft btoc): ~10

POST-PURGE INFO:

Color: Slightly Brown Mn/MnO4 (mg/L): 25
 Volume Purged (gal): ~2.5 Sample ID: MW-16 091421
 Final Depth to Water (ft btoc): 2.98 Sample Time: 14:55

WELL PURGE DATA:

Time 5 minute intervals	Temperature (°C)	pH (units)	Conductivity (ms/cm)	REDOX (Eh-mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Salinity (PPT)	Pumping Rate (ml/min)	Comment
	Reading	Reading	Reading	Reading	Reading	Reading	Reading			
	3%	0.1 unit	3%	10 mV	5%	10%	0.3 ft		100 - 500	
13:10	20.93	6.85	1.559	635.4	4.66	529	2.78	0.78	125	
13:15	20.58	6.92	1.770	642.8	3.90	429	2.87	0.92	125	
13:20	20.02	0.15	2.156	643.3	6.74	262	2.93	1.12	125	
13:25	19.92	7.30	2.311	638.2	8.30	194	2.99	1.20	125	
13:30	19.78	7.38	2.442	637.6	8.35	145	2.97	1.27	125	
13:35	19.74	7.44	2.520	635.1	9.26	121	3.04	1.31	125	
13:40	19.78	7.45	2.540	635.6	9.15	98.4	2.98	1.32	125	
13:45	19.74	7.46	2.512	634.9	8.97	83.4	2.98	1.31	125	
13:50	19.63	7.48	2.525	634.8	8.80	70.1	3.03	1.30	125	
13:55	19.68	7.52	2.503	631.7	8.66	62	3.00	1.29	125	
14:00	19.83	7.53	2.482	630.6	8.12	52.4	2.17	1.28	125	
14:05	19.79	7.5	2.413	631.3	8.11	47.9	2.96	1.28	125	
14:10	19.71	7.54	2.426	629.7	7.92	47.2	2.99	1.25	125	
14:15	19.7	7.52	2.387	629.9	7.64	42.4	3.01	1.23	125	
14:20	19.67	7.54	2.361	630.0	7.63	38.9	2.97	1.21	125	
14:25	19.71	7.54	2.313	629.1	7.15	35.6	2.98	1.19	125	
14:30	19.73	7.52	2.264	627.8	6.6	34.9	2.97	1.18	125	
14:35	19.76	7.53	2.255	627.6	6.62	31.2	3.02	1.15	125	
14:40	19.83	7.51	2.192	627.1	6.45	30.1	2.99	1.12	125	
14:45	19.82	7.50	2.18	627.6	6.22	29.1	2.97	1.12	125	
14:50	19.84	7.50	2.15	627.1	6.09	27.8	2.98	1.10	125	

Appendix B



March 22, 2021

Service Request No:R2102165

Ms. Sarah MacCarter
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

Laboratory Results for: Dover Binghamton

Dear Ms.MacCarter,

Enclosed are the results of the sample(s) submitted to our laboratory March 10, 2021
For your reference, these analyses have been assigned our service request number **R2102165**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

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dba ALS Environmental



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Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: Verina Consulting Group, LLC
Project: Dover Binghamton
Sample Matrix: Water

Service Request: R2102165
Date Received: 03/10/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Eight water samples were received for analysis at ALS Environmental on 03/10/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

A handwritten signature in black ink, appearing to read "Samantha", is written over a horizontal line.

Approved by _____

Date 03/22/2021



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-10 030921 **Lab ID: R2102165-001**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.46	J	0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.46	J	0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.37	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	3.6		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1.2		0.23	1.0	ug/L	8260C

CLIENT ID: MW-9 030921 **Lab ID: R2102165-002**

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene (TCE)	9.8		0.20	1.0	ug/L	8260C

CLIENT ID: MW-17 030921 **Lab ID: R2102165-003**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	2.0		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	3.3		0.20	1.0	ug/L	8260C
Vinyl Chloride	0.21	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	7.2		0.23	1.0	ug/L	8260C
trans-1,2-Dichloroethene	0.55	J	0.20	1.0	ug/L	8260C

CLIENT ID: MW-16 030921 **Lab ID: R2102165-004**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	5.4		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	11		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	11		0.20	1.0	ug/L	8260C
Vinyl Chloride	0.35	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	47		0.23	1.0	ug/L	8260C
trans-1,2-Dichloroethene	2.5		0.20	1.0	ug/L	8260C

CLIENT ID: MW-8-030921 **Lab ID: R2102165-005**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.99	J	0.50	2.5	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	1.2	J	0.50	2.5	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	2.5	J	0.50	2.5	ug/L	8260C
Trichloroethene (TCE)	270		0.50	2.5	ug/L	8260C
cis-1,2-Dichloroethene	120		0.58	2.5	ug/L	8260C
trans-1,2-Dichloroethene	1.6	J	0.50	2.5	ug/L	8260C

CLIENT ID: DUP-030921 **Lab ID: R2102165-007**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	5.5		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	11		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	6.0		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	43		0.23	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.6		0.20	1.0	ug/L	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2102165-001	MW-10 030921	3/9/2021	1145
R2102165-002	MW-9 030921	3/9/2021	1150
R2102165-003	MW-17 030921	3/9/2021	1315
R2102165-004	MW-16 030921	3/9/2021	1325
R2102165-005	MW-8-030921	3/9/2021	1450
R2102165-006	FB-030921	3/9/2021	1455
R2102165-007	DUP-030921	3/9/2021	
R2102165-008	Trip Blank	3/9/2021	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

002887

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name DOVER: BINGHAMTON		Project Number 5101.0003			ANALYSIS REQUESTED (Include Method Number and Container Preservative)																												
Project Manager SARAH MACCARTER		Report CC SARAH MACCARTER			PRESERVATIVE																												
Company/Address 1011 US. HIGHWAY 22, SUITE 302 BRIDGEWATER, NJ 08807		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">NUMBER OF CONTAINERS</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">GC/MS VOAs • 8260 • 824 • CLP • 8270 • 825</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">GC/MS SVOAs • 8021 • 801/802</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PESTICIDES • 8081 • 808</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs • 8092 • 808</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">METALS, TOTAL (List in comments below)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">METALS, DISSOLVED (List in comments below)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SSPL VOCS *</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SSPL VOCS *</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);"></td> </tr> </table>												NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 824 • CLP • 8270 • 825	GC/MS SVOAs • 8021 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8092 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSPL VOCS *	SSPL VOCS *											
NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 824 • CLP • 8270 • 825													GC/MS SVOAs • 8021 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8092 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SSPL VOCS *	SSPL VOCS *													
Phone # 908 864 4400														Email smaccarter@vcg-llc.com																			
Sampler's Signature 														Sampler's Printed Name RYAN WHEELER																			
Preservative Key		0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other <u>Sodium THIOSULFATE</u>																															
REMARKS/ ALTERNATE DESCRIPTION																																	
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	TIME	MATRIX																													
MW-10 030921		3/9/21	11:45	GW	3																X												
MW-9 030921		3/9/21	11:50	GW	3																X												
MW-17 030921		3/9/21	13:15	GW	3																X												
MW-16 030921		3/9/21	13:25	GW	3																X												
MW-8 030921		3/9/21	14:50	GW	3																X												
FB-030921		3/9/21	14:55	FB	3																X												
DUP-030921		3/9/21	-	GW	3																X												
TRIP BLANK		3/1/21	14:50	TB	3																X												
SPECIAL INSTRUCTIONS/COMMENTS					TURNAROUND REQUIREMENTS					REPORT REQUIREMENTS					INVOICE INFORMATION																		
Metals * SSPL VOCS (8 COMPOUNDS) = 1,1-DCA + 1,1-DCE + 0.5,1,2-DCE TRANS-1,2-DCE + PCE + TCE 1,1,1-TCA + VINYL CHLORIDE					RUSH (SURCHARGES APPLY) <input type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input checked="" type="checkbox"/> 4 day <input type="checkbox"/> 5 day <input type="checkbox"/> Standard (10 business days-No Surcharge)					<input type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input checked="" type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data					PO # 5101.0003 BILL TO: VERINA CONSULTING GROUP, LLC																		
See OAPP <input type="checkbox"/>					REQUESTED REPORT DATE					Edata <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																							
STATE WHERE SAMPLES WERE COLLECTED																																	
RELINQUISHED BY					RECEIVED BY					RELINQUISHED BY					RECEIVED BY																		
Signature:					Signature:					Signature					Signature																		
Printed Name: RYAN WHEELER					Printed Name: Guy LaFare					Printed Name					Printed Name																		
Firm: VERINA					Firm: ALC					Firm					Firm																		
Date/Time: 3/9/21 10:00					Date/Time: 3/10/21 0845					Date/Time					Date/Time																		

R2102165 5

Verina Consulting Group, LLC
Dover Binghamton



Cooler Receipt and Preservation Check Form

R2102165

Verina Consulting Group, LLC
Dover Binghamton

5



Project/Client Verina Folder Number _____

Cooler received on 3/10/21 by: AD

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="radio"/> N NA
6	Where did the bottles originate?	<u>ALS/ROZ</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="radio"/> NA

8. Temperature Readings Date: 3/10/21 Time: 0847 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>0.2</u>						
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by e on 3/10/21 at 0847

5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check** Date: 3/10/21 Time: 1325 by: AD

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
<2		HNO ₃								
<2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 2583, 0-283-020

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: AD
PC Secondary Review: AD 3/12/21

*significant air bubbles: VOA > 5-6 mm ; WC > 1 in. diameter

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2102165

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2102165-001.01					
	8260C				
		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
		3/17/2021	1145	In Lab / KRUEST	
		3/17/2021	1243	R-001-S12 / KRUEST	
R2102165-001.02					
		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-001.03					
		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-002.01					
	8260C				
		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
		3/17/2021	1145	In Lab / KRUEST	
		3/17/2021	1243	R-001-S12 / KRUEST	
R2102165-002.02					
		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-002.03					
		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-003.01					
	8260C				
		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
		3/17/2021	1145	In Lab / KRUEST	
		3/17/2021	1243	R-001-S12 / KRUEST	
R2102165-003.02					
		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-003.03					
		3/10/2021	1328	SMO / DWARD	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2102165

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		3/10/2021	1330	R-001 / DWARD	
R2102165-004.01	8260C	3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
		3/11/2021	1029	In Lab / FNAEGLER	
		3/11/2021	1042	R-001-S08 / FNAEGLER	
R2102165-004.02		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-004.03		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-005.01		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
		3/17/2021	1145	In Lab / KRUEST	
		3/17/2021	1243	R-001-S12 / KRUEST	
R2102165-005.02	8260C	3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
		3/18/2021	1234	In Lab / KRUEST	
		3/18/2021	1331	R-001-S12 / KRUEST	
R2102165-005.03		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-006.01	8260C	3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
		3/17/2021	1145	In Lab / KRUEST	
		3/17/2021	1243	R-001-S12 / KRUEST	
R2102165-006.02		3/10/2021	1328	SMO / DWARD	

ALS Group USA, Corp.
 dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2102165

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2102165-006.03		3/10/2021	1330	R-001 / DWARD	
		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-007.01	8260C	3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
		3/11/2021	1029	In Lab / FNAEGLER	
		3/11/2021	1042	R-001-S08 / FNAEGLER	
R2102165-007.02		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-007.03		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-008.01	8260C	3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
		3/17/2021	1145	In Lab / KRUEST	
		3/17/2021	1243	R-001-S12 / KRUEST	
R2102165-008.02		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	
R2102165-008.03		3/10/2021	1328	SMO / DWARD	
		3/10/2021	1330	R-001 / DWARD	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
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REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed (>100% Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2102165

Sample Name: MW-10 030921
Lab Code: R2102165-001
Sample Matrix: Water

Date Collected: 03/9/21
Date Received: 03/10/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-9 030921
Lab Code: R2102165-002
Sample Matrix: Water

Date Collected: 03/9/21
Date Received: 03/10/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-17 030921
Lab Code: R2102165-003
Sample Matrix: Water

Date Collected: 03/9/21
Date Received: 03/10/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-16 030921
Lab Code: R2102165-004
Sample Matrix: Water

Date Collected: 03/9/21
Date Received: 03/10/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-8-030921
Lab Code: R2102165-005
Sample Matrix: Water

Date Collected: 03/9/21
Date Received: 03/10/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2102165

Sample Name: FB-030921
Lab Code: R2102165-006
Sample Matrix: Water

Date Collected: 03/9/21
Date Received: 03/10/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: DUP-030921
Lab Code: R2102165-007
Sample Matrix: Water

Date Collected: 03/9/21
Date Received: 03/10/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: Trip Blank
Lab Code: R2102165-008
Sample Matrix: Water

Date Collected: 03/9/21
Date Received: 03/10/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 11:45
Date Received: 03/10/21 08:45

Sample Name: MW-10 030921
Lab Code: R2102165-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.46 J	1.0	0.20	1	03/17/21 16:28	
1,1-Dichloroethane (1,1-DCA)	0.46 J	1.0	0.20	1	03/17/21 16:28	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 16:28	
Tetrachloroethene (PCE)	0.37 J	1.0	0.21	1	03/17/21 16:28	
Trichloroethene (TCE)	3.6	1.0	0.20	1	03/17/21 16:28	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/17/21 16:28	
cis-1,2-Dichloroethene	1.2	1.0	0.23	1	03/17/21 16:28	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/17/21 16:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 16:28	
Dibromofluoromethane	99	80 - 116	03/17/21 16:28	
Toluene-d8	108	87 - 121	03/17/21 16:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 11:50
Date Received: 03/10/21 08:45

Sample Name: MW-9 030921
Lab Code: R2102165-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/21 16:50	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/17/21 16:50	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 16:50	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/21 16:50	
Trichloroethene (TCE)	9.8	1.0	0.20	1	03/17/21 16:50	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/17/21 16:50	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/17/21 16:50	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/17/21 16:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 16:50	
Dibromofluoromethane	100	80 - 116	03/17/21 16:50	
Toluene-d8	107	87 - 121	03/17/21 16:50	

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 13:15
Date Received: 03/10/21 08:45

Sample Name: MW-17 030921
Lab Code: R2102165-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/21 17:12	
1,1-Dichloroethane (1,1-DCA)	2.0	1.0	0.20	1	03/17/21 17:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 17:12	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/21 17:12	
Trichloroethene (TCE)	3.3	1.0	0.20	1	03/17/21 17:12	
Vinyl Chloride	0.21 J	1.0	0.20	1	03/17/21 17:12	
cis-1,2-Dichloroethene	7.2	1.0	0.23	1	03/17/21 17:12	
trans-1,2-Dichloroethene	0.55 J	1.0	0.20	1	03/17/21 17:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 17:12	
Dibromofluoromethane	101	80 - 116	03/17/21 17:12	
Toluene-d8	106	87 - 121	03/17/21 17:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 14:50
Date Received: 03/10/21 08:45

Sample Name: MW-8-030921
Lab Code: R2102165-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.99 J	2.5	0.50	2.5	03/18/21 15:32	
1,1-Dichloroethane (1,1-DCA)	1.2 J	2.5	0.50	2.5	03/18/21 15:32	
1,1-Dichloroethene (1,1-DCE)	2.5 J	2.5	0.50	2.5	03/18/21 15:32	
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	03/18/21 15:32	
Trichloroethene (TCE)	270	2.5	0.50	2.5	03/18/21 15:32	
Vinyl Chloride	2.5 U	2.5	0.50	2.5	03/18/21 15:32	
cis-1,2-Dichloroethene	120	2.5	0.58	2.5	03/18/21 15:32	
trans-1,2-Dichloroethene	1.6 J	2.5	0.50	2.5	03/18/21 15:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/18/21 15:32	
Dibromofluoromethane	102	80 - 116	03/18/21 15:32	
Toluene-d8	107	87 - 121	03/18/21 15:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 14:55
Date Received: 03/10/21 08:45

Sample Name: FB-030921
Lab Code: R2102165-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/21 16:06	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/17/21 16:06	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 16:06	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/21 16:06	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/17/21 16:06	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/17/21 16:06	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/17/21 16:06	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/17/21 16:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 16:06	
Dibromofluoromethane	99	80 - 116	03/17/21 16:06	
Toluene-d8	105	87 - 121	03/17/21 16:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21
Date Received: 03/10/21 08:45

Sample Name: Trip Blank
Lab Code: R2102165-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/21 15:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/17/21 15:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 15:44	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/21 15:44	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/17/21 15:44	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/17/21 15:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/17/21 15:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/17/21 15:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 15:44	
Dibromofluoromethane	98	80 - 116	03/17/21 15:44	
Toluene-d8	106	87 - 121	03/17/21 15:44	

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dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 13:25
Date Received: 03/10/21 08:45

Sample Name: MW-16 030921
Lab Code: R2102165-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.4	1.0	0.20	1	03/11/21 17:00	
1,1-Dichloroethane (1,1-DCA)	11	1.0	0.20	1	03/11/21 17:00	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/11/21 17:00	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/11/21 17:00	
Trichloroethene (TCE)	11	1.0	0.20	1	03/11/21 17:00	
Vinyl Chloride	0.35 J	1.0	0.20	1	03/11/21 17:00	
cis-1,2-Dichloroethene	47	1.0	0.23	1	03/11/21 17:00	
trans-1,2-Dichloroethene	2.5	1.0	0.20	1	03/11/21 17:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/11/21 17:00	
Dibromofluoromethane	94	80 - 116	03/11/21 17:00	
Toluene-d8	101	87 - 121	03/11/21 17:00	

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21
Date Received: 03/10/21 08:45

Sample Name: DUP-030921
Lab Code: R2102165-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.5	1.0	0.20	1	03/11/21 17:22	
1,1-Dichloroethane (1,1-DCA)	11	1.0	0.20	1	03/11/21 17:22	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/11/21 17:22	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/11/21 17:22	
Trichloroethene (TCE)	6.0	1.0	0.20	1	03/11/21 17:22	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/11/21 17:22	
cis-1,2-Dichloroethene	43	1.0	0.23	1	03/11/21 17:22	
trans-1,2-Dichloroethene	1.6	1.0	0.20	1	03/11/21 17:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/11/21 17:22	
Dibromofluoromethane	96	80 - 116	03/11/21 17:22	
Toluene-d8	103	87 - 121	03/11/21 17:22	



QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
MW-10 030921	R2102165-001	98	99	108
MW-9 030921	R2102165-002	98	100	107
MW-17 030921	R2102165-003	98	101	106
MW-8-030921	R2102165-005	98	102	107
FB-030921	R2102165-006	98	99	105
Trip Blank	R2102165-008	98	98	106
Method Blank	RQ2102741-04	98	101	108
Method Blank	RQ2102816-04	97	102	105
Lab Control Sample	RQ2102741-03	104	104	106
Lab Control Sample	RQ2102816-03	104	104	107

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Analyzed: 03/17/21 12:05
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ2102741-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUADATA\msvoa12\Data\031721\K0948.D\
Analysis Lot: 716397

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2102741-03	I:\ACQUADATA\msvoa12\Data\031721\K0945.D\	03/17/21 10:53
Trip Blank	R2102165-008	I:\ACQUADATA\msvoa12\Data\031721\K0958.D\	03/17/21 15:44
FB-030921	R2102165-006	I:\ACQUADATA\msvoa12\Data\031721\K0959.D\	03/17/21 16:06
MW-10 030921	R2102165-001	I:\ACQUADATA\msvoa12\Data\031721\K0960.D\	03/17/21 16:28
MW-9 030921	R2102165-002	I:\ACQUADATA\msvoa12\Data\031721\K0961.D\	03/17/21 16:50
MW-17 030921	R2102165-003	I:\ACQUADATA\msvoa12\Data\031721\K0962.D\	03/17/21 17:12

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Analyzed: 03/18/21 12:33
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ2102816-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUADATA\msvoa12\Data\031821\K0981.D\
Analysis Lot: 716612

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2102816-03	I:\ACQUADATA\msvoa12\Data\031821\K0978.D\	03/18/21 11:21
MW-8-030921	R2102165-005	I:\ACQUADATA\msvoa12\Data\031821\K0989.D\	03/18/21 15:32

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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2102741-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/21 12:05	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/17/21 12:05	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 12:05	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/21 12:05	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/17/21 12:05	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/17/21 12:05	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/17/21 12:05	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/17/21 12:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 12:05	
Dibromofluoromethane	101	80 - 116	03/17/21 12:05	
Toluene-d8	108	87 - 121	03/17/21 12:05	

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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2102816-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/18/21 12:33	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/18/21 12:33	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/18/21 12:33	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/18/21 12:33	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/18/21 12:33	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/18/21 12:33	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/18/21 12:33	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/18/21 12:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/18/21 12:33	
Dibromofluoromethane	102	80 - 116	03/18/21 12:33	
Toluene-d8	105	87 - 121	03/18/21 12:33	

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Analyzed: 03/17/21 10:53
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ2102741-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUADATA\msvoa12\Data\031721\K0945.D\
Analysis Lot: 716397

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2102741-04	I:\ACQUADATA\msvoa12\Data\031721\K0948.D\	03/17/21 12:05
Trip Blank	R2102165-008	I:\ACQUADATA\msvoa12\Data\031721\K0958.D\	03/17/21 15:44
FB-030921	R2102165-006	I:\ACQUADATA\msvoa12\Data\031721\K0959.D\	03/17/21 16:06
MW-10 030921	R2102165-001	I:\ACQUADATA\msvoa12\Data\031721\K0960.D\	03/17/21 16:28
MW-9 030921	R2102165-002	I:\ACQUADATA\msvoa12\Data\031721\K0961.D\	03/17/21 16:50
MW-17 030921	R2102165-003	I:\ACQUADATA\msvoa12\Data\031721\K0962.D\	03/17/21 17:12

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Analyzed: 03/18/21 11:21
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ2102816-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-12
File ID:I:\ACQUADATA\msvoa12\Data\031821\K0978.D\
Analysis Lot:716612

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2102816-04	I:\ACQUADATA\msvoa12\Data\031821\K0981.D\	03/18/21 12:33
MW-8-030921	R2102165-005	I:\ACQUADATA\msvoa12\Data\031821\K0989.D\	03/18/21 15:32

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dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Analyzed: 03/17/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2102741-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.7	20.0	99	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	21.4	20.0	107	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.4	20.0	117	71-118
Tetrachloroethene (PCE)	8260C	19.7	20.0	99	72-125
Trichloroethene (TCE)	8260C	19.6	20.0	98	74-122
Vinyl Chloride	8260C	19.0	20.0	95	74-159
cis-1,2-Dichloroethene	8260C	22.0	20.0	110	80-121
trans-1,2-Dichloroethene	8260C	23.2	20.0	116	73-118

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Analyzed: 03/18/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2102816-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.2	20.0	101	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	22.0	20.0	110	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.6	20.0	118	71-118
Tetrachloroethene (PCE)	8260C	19.8	20.0	99	72-125
Trichloroethene (TCE)	8260C	19.5	20.0	98	74-122
Vinyl Chloride	8260C	18.6	20.0	93	74-159
cis-1,2-Dichloroethene	8260C	21.3	20.0	107	80-121
trans-1,2-Dichloroethene	8260C	22.9	20.0	115	73-118

ALS Group USA, Corp.
dba ALS Environmental

QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165
Date Analyzed:03/17/21 09:52

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\031721\K0943.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 716397

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.42	30645	Pass
75	95	30	60	52.72	83205	Pass
95	95	100	100	100.00	157837	Pass
96	95	5	9	7.25	11445	Pass
173	174	0	2	0.91	1134	Pass
174	95	50	120	79.30	125157	Pass
175	174	5	9	7.73	9675	Pass
176	174	95	101	95.70	119771	Pass
177	176	5	9	7.15	8567	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2102741-02	I:\ACQUADATA\msvoa12\Data\031721\K0944.D\	03/17/21 10:25	
Lab Control Sample	RQ2102741-03	I:\ACQUADATA\msvoa12\Data\031721\K0945.D\	03/17/21 10:53	
Method Blank	RQ2102741-04	I:\ACQUADATA\msvoa12\Data\031721\K0948.D\	03/17/21 12:05	
Trip Blank	R2102165-008	I:\ACQUADATA\msvoa12\Data\031721\K0958.D\	03/17/21 15:44	
FB-030921	R2102165-006	I:\ACQUADATA\msvoa12\Data\031721\K0959.D\	03/17/21 16:06	
MW-10 030921	R2102165-001	I:\ACQUADATA\msvoa12\Data\031721\K0960.D\	03/17/21 16:28	
MW-9 030921	R2102165-002	I:\ACQUADATA\msvoa12\Data\031721\K0961.D\	03/17/21 16:50	
MW-17 030921	R2102165-003	I:\ACQUADATA\msvoa12\Data\031721\K0962.D\	03/17/21 17:12	

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QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165
Date Analyzed:03/18/21 10:13

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\031821\K0976.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 716612

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.11	31557	Pass
75	95	30	60	53.41	83811	Pass
95	95	100	100	100.00	156933	Pass
96	95	5	9	6.75	10593	Pass
173	174	0	2	1.09	1359	Pass
174	95	50	120	79.49	124749	Pass
175	174	5	9	7.34	9156	Pass
176	174	95	101	96.48	120360	Pass
177	176	5	9	5.85	7040	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2102816-02	I:\ACQUADATA\msvoa12\Data\031821\K0977.D\	03/18/21 10:43	
Lab Control Sample	RQ2102816-03	I:\ACQUADATA\msvoa12\Data\031821\K0978.D\	03/18/21 11:21	
Method Blank	RQ2102816-04	I:\ACQUADATA\msvoa12\Data\031821\K0981.D\	03/18/21 12:33	
MW-8-030921	R2102165-005	I:\ACQUADATA\msvoa12\Data\031821\K0989.D\	03/18/21 15:32	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165
Date Analyzed:03/17/21 10:25

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\031721\K0944.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2102741-02
Analysis Lot:716397
Signal ID:1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	272,049	11.83	510,901	6.52	481,256	9.80
Upper Limit ==>	544,098	12.00	1,021,802	6.69	962,512	9.97
Lower Limit ==>	136,025	11.66	255,451	6.35	240,628	9.63

Associated Analyses

Sample Name	Sample ID	Area	RT	Area	RT	Area	RT
Lab Control Sample	RQ2102741-03	254599	11.83	506704	6.52	475487	9.80
Method Blank	RQ2102741-04	224949	11.83	490059	6.52	451348	9.80
Trip Blank	R2102165-008	220703	11.83	484654	6.52	452871	9.80
FB-030921	R2102165-006	239143	11.83	491641	6.52	458004	9.80
MW-10 030921	R2102165-001	234317	11.83	495611	6.52	471586	9.80
MW-9 030921	R2102165-002	228884	11.83	480156	6.52	448936	9.80
MW-17 030921	R2102165-003	229979	11.83	490430	6.52	461879	9.80

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165
Date Analyzed:03/17/21 10:25

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\031721\K0944.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2102741-02
Analysis Lot:716397
Signal ID:1

	Pentafluorobenzene	
	Area	RT
Result ==>	325,209	5.44
Upper Limit ==>	650,418	5.61
Lower Limit ==>	162,605	5.27

Associated Analyses

Lab Control Sample	RQ2102741-03	320229	5.44
Method Blank	RQ2102741-04	315649	5.44
Trip Blank	R2102165-008	304770	5.44
FB-030921	R2102165-006	309683	5.44
MW-10 030921	R2102165-001	311047	5.44
MW-9 030921	R2102165-002	300938	5.45
MW-17 030921	R2102165-003	311680	5.44

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165
Date Analyzed:03/18/21 10:43

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\031821\K0977.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2102816-02
Analysis Lot:716612
Signal ID:1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5		
	Area	RT	Area	RT	Area	RT	
Result ==>	293,400	11.83	559,629	6.52	533,202	9.80	
Upper Limit ==>	586,800	12.00	1,119,258	6.69	1,066,404	9.97	
Lower Limit ==>	146,700	11.66	279,815	6.35	266,601	9.63	
Associated Analyses							
Lab Control Sample	RQ2102816-03	273738	11.83	547328	6.52	519488	9.80
Method Blank	RQ2102816-04	239822	11.83	503847	6.52	466434	9.80
MW-8-030921	R2102165-005	246892	11.83	519736	6.52	484302	9.80

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dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165
Date Analyzed:03/18/21 10:43

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\031821\K0977.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2102816-02
Analysis Lot:716612
Signal ID:1

	Pentafluorobenzene	
	Area	RT
Result ==>	360,304	5.44
Upper Limit ==>	720,608	5.61
Lower Limit ==>	180,152	5.27

Associated Analyses

Lab Control Sample	RQ2102816-03	348078	5.44
Method Blank	RQ2102816-04	320057	5.45
MW-8-030921	R2102165-005	332974	5.44

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
MW-16 030921	R2102165-004	94	94	101
DUP-030921	R2102165-007	95	96	103
Method Blank	RQ2102511-05	94	94	102
Lab Control Sample	RQ2102511-03	100	98	104

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Analyzed: 03/11/21 12:54
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Method Blank
Lab Code: RQ2102511-05
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-14
File ID: I:\ACQUADATA\MSVOA14\Data\031121\F4074.D\
Analysis Lot: 715721

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2102511-03	I:\ACQUADATA\MSVOA14\Data\031121\F4072.D\	03/11/21 12:00
MW-16 030921	R2102165-004	I:\ACQUADATA\MSVOA14\Data\031121\F4085.D\	03/11/21 17:00
DUP-030921	R2102165-007	I:\ACQUADATA\MSVOA14\Data\031121\F4086.D\	03/11/21 17:22

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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2102511-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/11/21 12:54	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/11/21 12:54	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/11/21 12:54	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/11/21 12:54	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/11/21 12:54	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/11/21 12:54	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/11/21 12:54	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/11/21 12:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/11/21 12:54	
Dibromofluoromethane	94	80 - 116	03/11/21 12:54	
Toluene-d8	102	87 - 121	03/11/21 12:54	

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Analyzed: 03/11/21 12:00
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Lab Control Sample
Lab Code: RQ2102511-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-14
File ID: I:\ACQUDATA\MSVOA14\Data\031121\F4072.D\
Analysis Lot: 715721

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2102511-05	I:\ACQUDATA\MSVOA14\Data\031121\F4074.D\	03/11/21 12:54
MW-16 030921	R2102165-004	I:\ACQUDATA\MSVOA14\Data\031121\F4085.D\	03/11/21 17:00
DUP-030921	R2102165-007	I:\ACQUDATA\MSVOA14\Data\031121\F4086.D\	03/11/21 17:22

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Analyzed: 03/11/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/L
Basis:NA

Lab Control Sample
RQ2102511-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.4	20.0	92	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	19.5	20.0	98	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.9	20.0	114	71-118
Tetrachloroethene (PCE)	8260C	17.4	20.0	87	72-125
Trichloroethene (TCE)	8260C	18.5	20.0	93	74-122
Vinyl Chloride	8260C	19.5	20.0	97	74-159
cis-1,2-Dichloroethene	8260C	21.1	20.0	106	80-121
trans-1,2-Dichloroethene	8260C	22.2	20.0	111	73-118

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QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165
Date Analyzed:03/11/21 10:18

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\MSVOA14\Data\031121\F4069.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot: 715721

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.87	41406	Pass
75	95	30	60	51.50	107329	Pass
95	95	100	100	100.00	208405	Pass
96	95	5	9	6.90	14388	Pass
173	174	0	2	0.25	467	Pass
174	95	50	120	89.97	187501	Pass
175	174	5	9	7.31	13700	Pass
176	174	95	101	95.37	178811	Pass
177	176	5	9	6.75	12065	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2102511-02	I:\ACQUADATA\MSVOA14\Data\031121\F4070.D\	03/11/21 10:50	
Lab Control Sample	RQ2102511-03	I:\ACQUADATA\MSVOA14\Data\031121\F4072.D\	03/11/21 12:00	
Method Blank	RQ2102511-05	I:\ACQUADATA\MSVOA14\Data\031121\F4074.D\	03/11/21 12:54	
MW-16 030921	R2102165-004	I:\ACQUADATA\MSVOA14\Data\031121\F4085.D\	03/11/21 17:00	
DUP-030921	R2102165-007	I:\ACQUADATA\MSVOA14\Data\031121\F4086.D\	03/11/21 17:22	

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165
Date Analyzed:03/11/21 10:50

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\MSVOA14\Data\031121\F4070.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code:RQ2102511-02
Analysis Lot:715721
Signal ID:1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	394,321	11.73	774,005	5.93	713,485	9.58
Upper Limit ==>	788,642	11.90	1,548,010	6.10	1,426,970	9.75
Lower Limit ==>	197,161	11.56	387,003	5.76	356,743	9.41

Associated Analyses

Lab Control Sample	RQ2102511-03	386197	11.73	786378	5.93	716869	9.58
Method Blank	RQ2102511-05	360243	11.73	757697	5.93	686673	9.58
MW-16 030921	R2102165-004	335439	11.73	718270	5.93	646053	9.58
DUP-030921	R2102165-007	324183	11.73	701053	5.94	636140	9.58

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165
Date Analyzed:03/11/21 10:50

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\MSVOA14\Data\031121\F4070.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code:RQ2102511-02
Analysis Lot:715721
Signal ID:1

	Pentafluorobenzene	
	Area	RT
Result ==>	530,436	4.68
Upper Limit ==>	1,060,872	4.85
Lower Limit ==>	265,218	4.51

Associated Analyses

		Area	RT
Lab Control Sample	RQ2102511-03	535817	4.68
Method Blank	RQ2102511-05	522691	4.68
MW-16 030921	R2102165-004	498954	4.68
DUP-030921	R2102165-007	482953	4.68



Raw Data

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com



Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 11:45
Date Received: 03/10/21 08:45

Sample Name: MW-10 030921
Lab Code: R2102165-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.46 J	1.0	0.20	1	03/17/21 16:28	
1,1-Dichloroethane (1,1-DCA)	0.46 J	1.0	0.20	1	03/17/21 16:28	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 16:28	
Tetrachloroethene (PCE)	0.37 J	1.0	0.21	1	03/17/21 16:28	
Trichloroethene (TCE)	3.6	1.0	0.20	1	03/17/21 16:28	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/17/21 16:28	
cis-1,2-Dichloroethene	1.2	1.0	0.23	1	03/17/21 16:28	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/17/21 16:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 16:28	
Dibromofluoromethane	99	80 - 116	03/17/21 16:28	
Toluene-d8	108	87 - 121	03/17/21 16:28	

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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 11:50
Date Received: 03/10/21 08:45

Sample Name: MW-9 030921
Lab Code: R2102165-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/21 16:50	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/17/21 16:50	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 16:50	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/21 16:50	
Trichloroethene (TCE)	9.8	1.0	0.20	1	03/17/21 16:50	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/17/21 16:50	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/17/21 16:50	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/17/21 16:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 16:50	
Dibromofluoromethane	100	80 - 116	03/17/21 16:50	
Toluene-d8	107	87 - 121	03/17/21 16:50	

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dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 13:15
Date Received: 03/10/21 08:45

Sample Name: MW-17 030921
Lab Code: R2102165-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/21 17:12	
1,1-Dichloroethane (1,1-DCA)	2.0	1.0	0.20	1	03/17/21 17:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 17:12	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/21 17:12	
Trichloroethene (TCE)	3.3	1.0	0.20	1	03/17/21 17:12	
Vinyl Chloride	0.21 J	1.0	0.20	1	03/17/21 17:12	
cis-1,2-Dichloroethene	7.2	1.0	0.23	1	03/17/21 17:12	
trans-1,2-Dichloroethene	0.55 J	1.0	0.20	1	03/17/21 17:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 17:12	
Dibromofluoromethane	101	80 - 116	03/17/21 17:12	
Toluene-d8	106	87 - 121	03/17/21 17:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 14:50
Date Received: 03/10/21 08:45

Sample Name: MW-8-030921
Lab Code: R2102165-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.99 J	2.5	0.50	2.5	03/18/21 15:32	
1,1-Dichloroethane (1,1-DCA)	1.2 J	2.5	0.50	2.5	03/18/21 15:32	
1,1-Dichloroethene (1,1-DCE)	2.5 J	2.5	0.50	2.5	03/18/21 15:32	
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	03/18/21 15:32	
Trichloroethene (TCE)	270	2.5	0.50	2.5	03/18/21 15:32	
Vinyl Chloride	2.5 U	2.5	0.50	2.5	03/18/21 15:32	
cis-1,2-Dichloroethene	120	2.5	0.58	2.5	03/18/21 15:32	
trans-1,2-Dichloroethene	1.6 J	2.5	0.50	2.5	03/18/21 15:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/18/21 15:32	
Dibromofluoromethane	102	80 - 116	03/18/21 15:32	
Toluene-d8	107	87 - 121	03/18/21 15:32	

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dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 14:55
Date Received: 03/10/21 08:45

Sample Name: FB-030921
Lab Code: R2102165-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/21 16:06	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/17/21 16:06	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 16:06	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/21 16:06	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/17/21 16:06	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/17/21 16:06	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/17/21 16:06	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/17/21 16:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 16:06	
Dibromofluoromethane	99	80 - 116	03/17/21 16:06	
Toluene-d8	105	87 - 121	03/17/21 16:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21
Date Received: 03/10/21 08:45

Sample Name: Trip Blank
Lab Code: R2102165-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

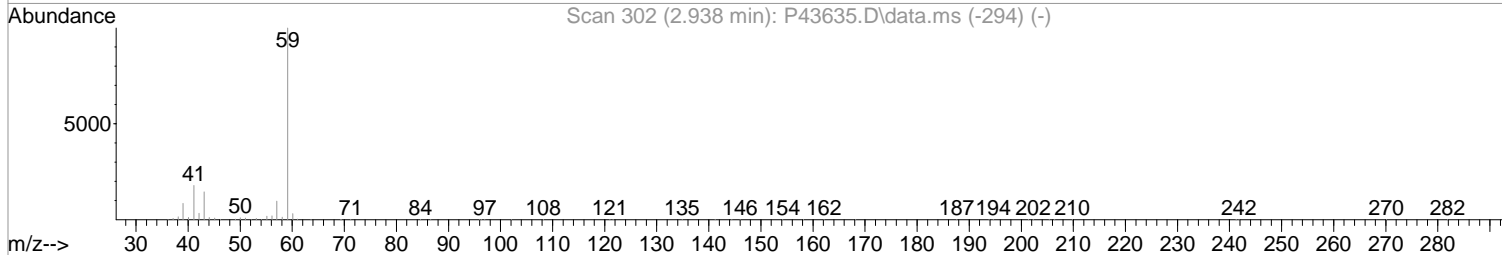
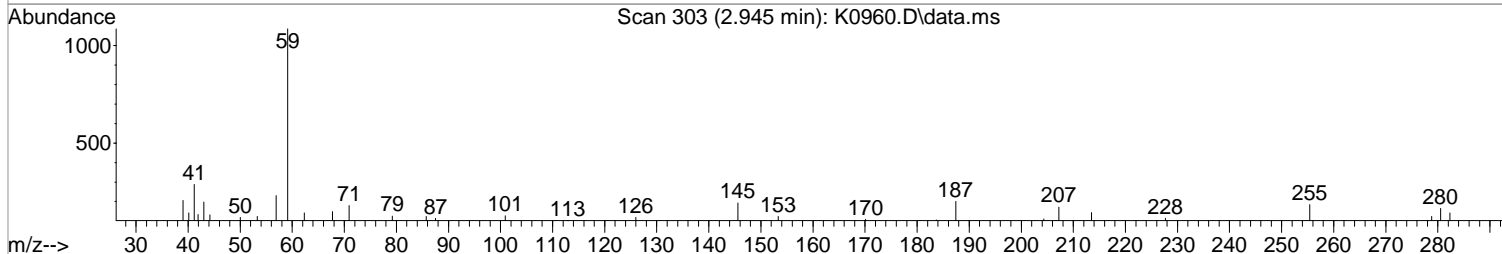
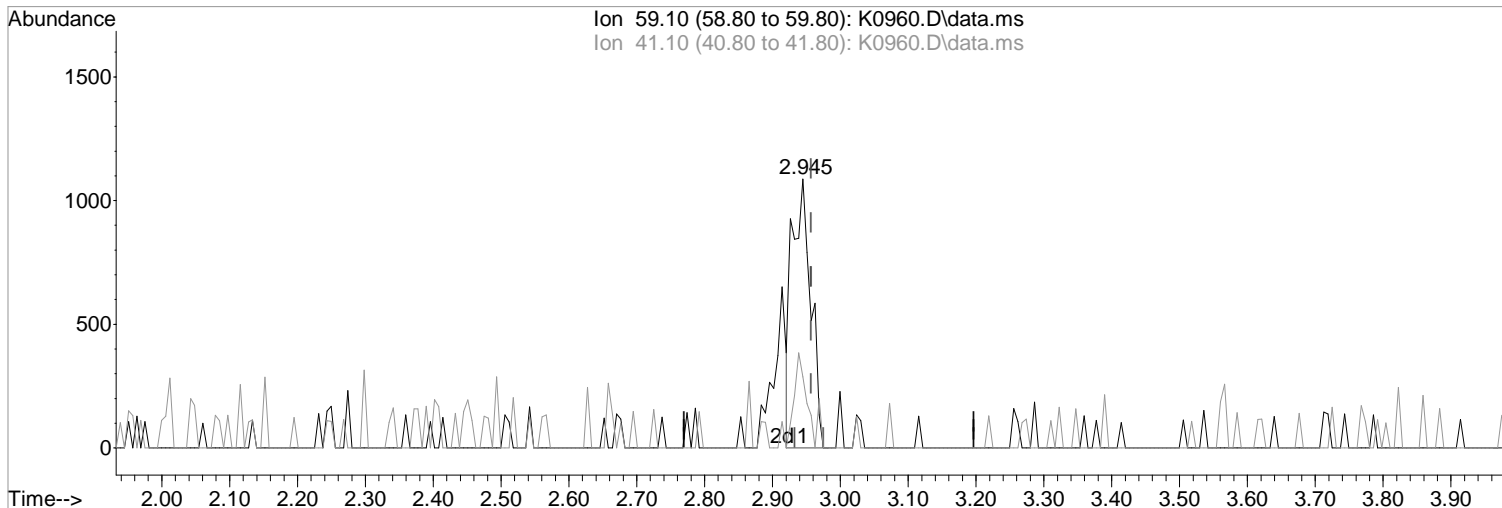
Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/21 15:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/17/21 15:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/21 15:44	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/21 15:44	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/17/21 15:44	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/17/21 15:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/17/21 15:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/17/21 15:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/17/21 15:44	
Dibromofluoromethane	98	80 - 116	03/17/21 15:44	
Toluene-d8	106	87 - 121	03/17/21 15:44	

Data Path : I:\ACQUDATA\msvoal2\Data\031721\
Data File : K0960.D
Acq On : 17 Mar 2021 4:28 pm
Operator : KRuest
Sample : R2102165-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 09:35:26 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



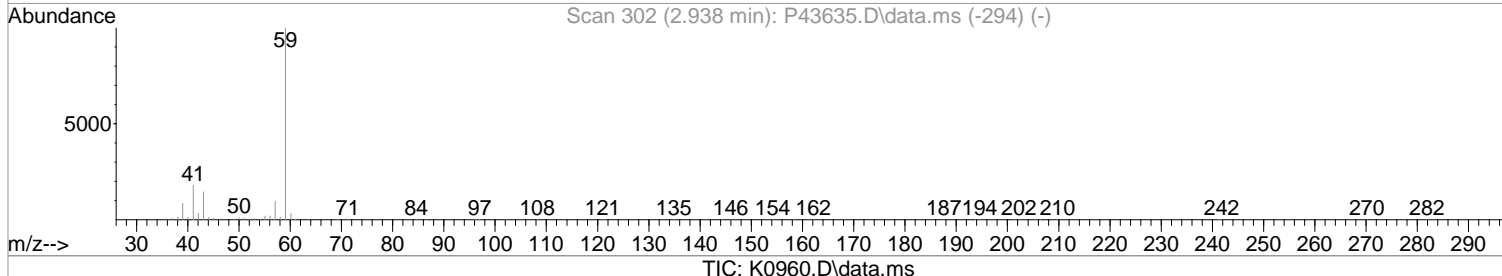
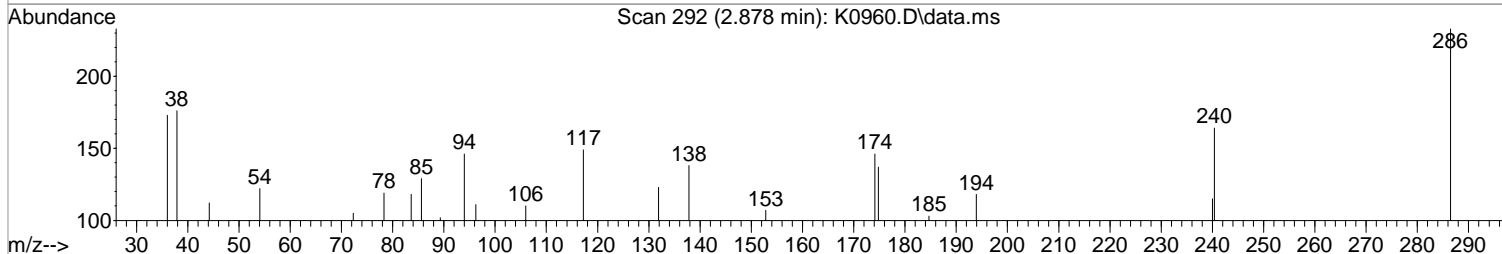
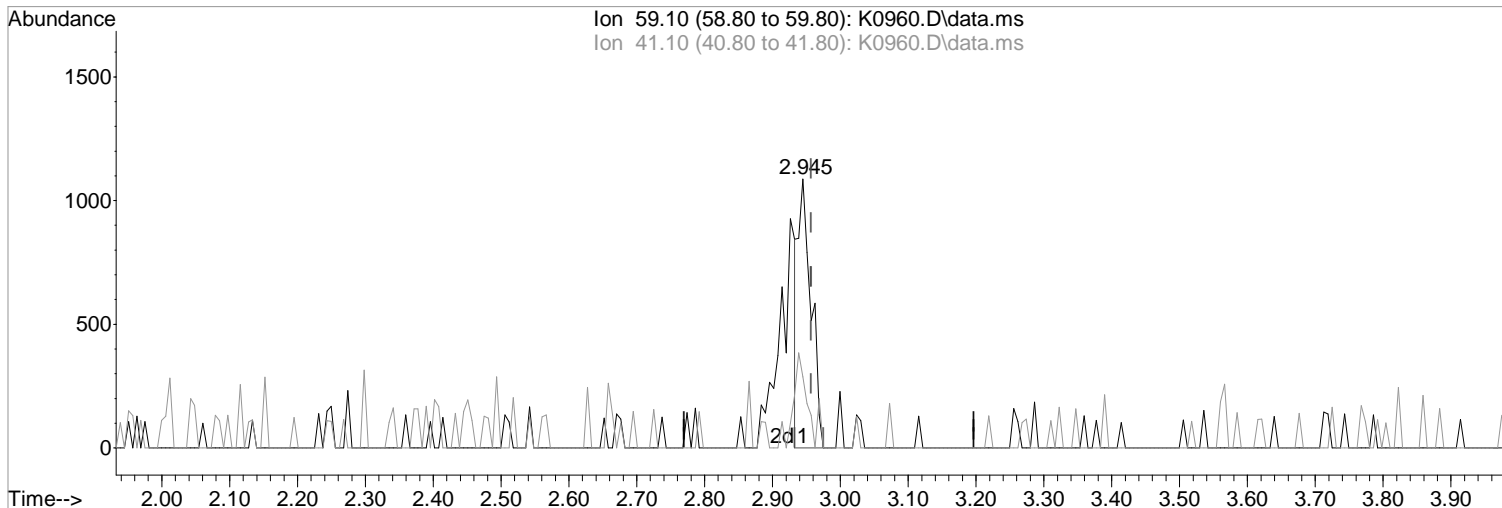
(23) TBA
2.945min (-0.012) 3.24 ppb m
response 2096

Manual Integration:
After
Poor integration.
03/18/21

Ion	Exp%	Act%
59.10	100	100
41.10	17.90	26.49
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\031721\
Data File : K0960.D
Acq On : 17 Mar 2021 4:28 pm
Operator : KRuest
Sample : R2102165-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 09:35:26 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration

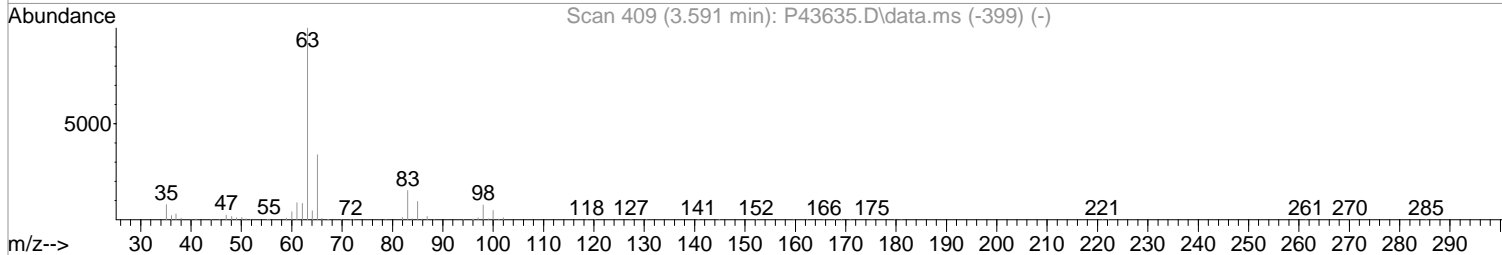
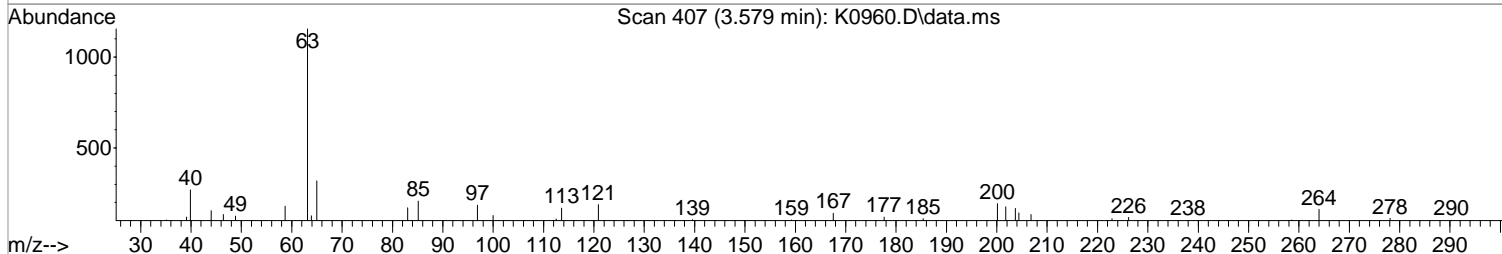
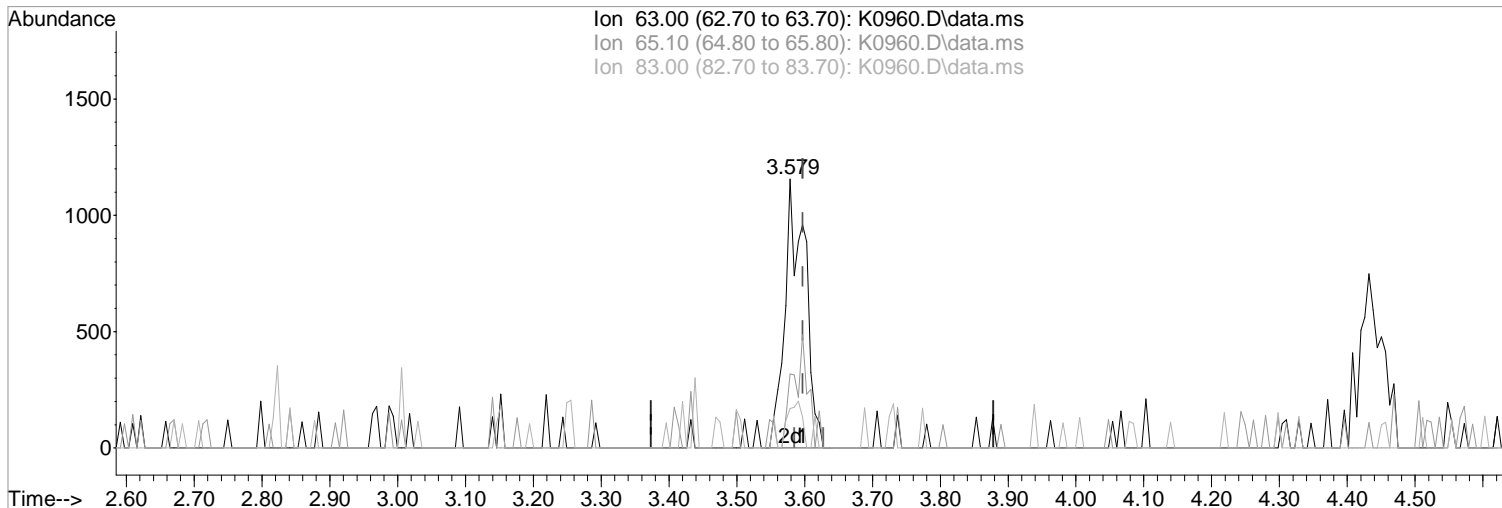


(23) TBA Manual Integration:
2.945min (-0.012) 2.24 ppb Before
response 1448
03/18/21

Ion	Exp%	Act%
59.10	100	100
41.10	17.90	26.49
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0960.D
Acq On : 17 Mar 2021 4:28 pm
Operator : KRuest
Sample : R2102165-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 09:35:26 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(28) 1,1-Dicethane (P)
3.579min (-0.018) 0.46 ppb m
response 2403

Manual Integration:

After

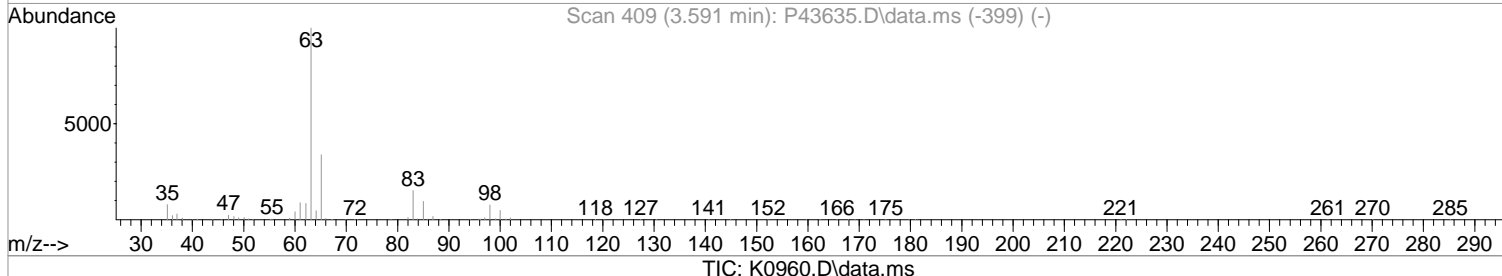
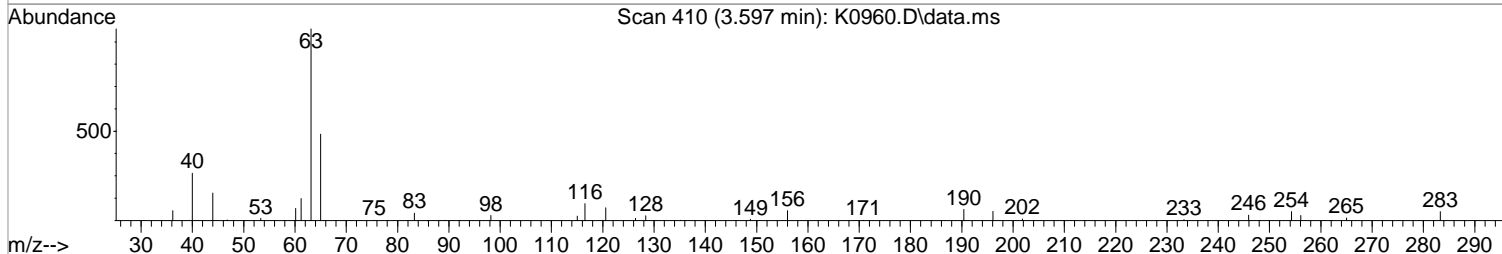
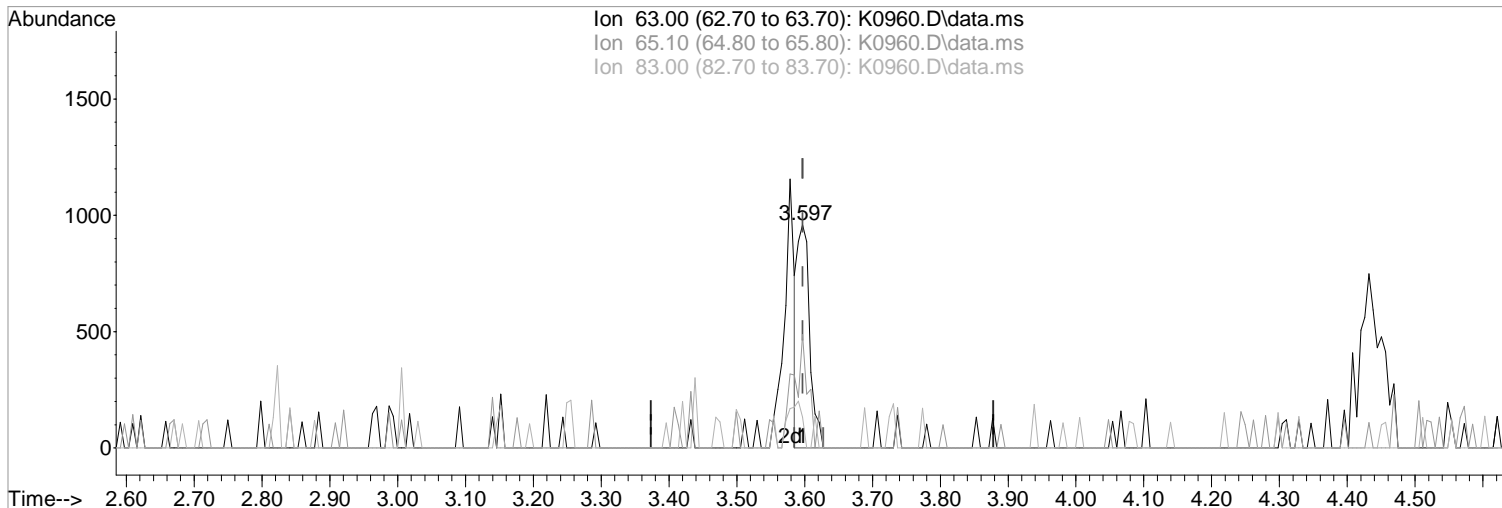
Split Peak

03/18/21

Ion	Exp%	Act%
63.00	100	100
65.10	33.90	27.51
83.00	15.20	14.71
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0960.D
Acq On : 17 Mar 2021 4:28 pm
Operator : KRuest
Sample : R2102165-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 09:35:26 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(28) 1,1-Dicethane (P)
3.597min (-0.000) 0.23 ppb
response 1212

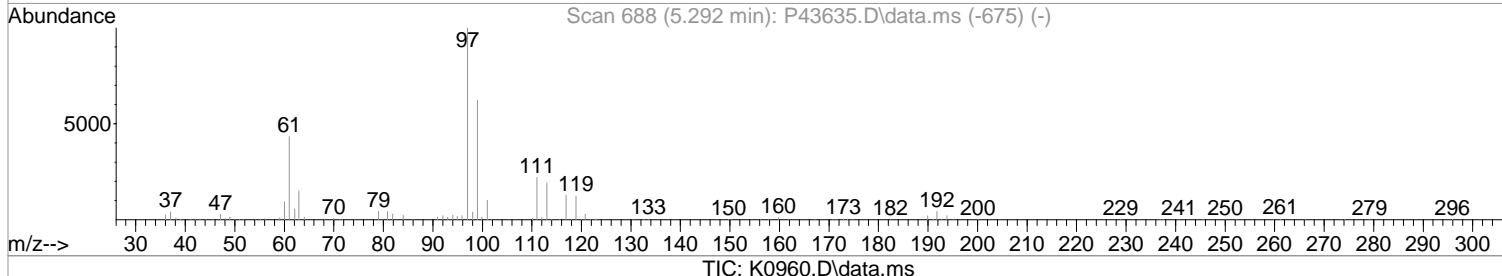
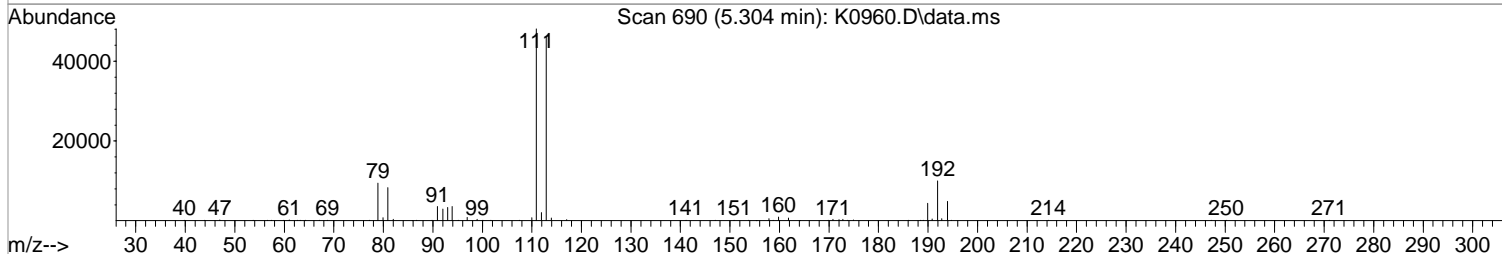
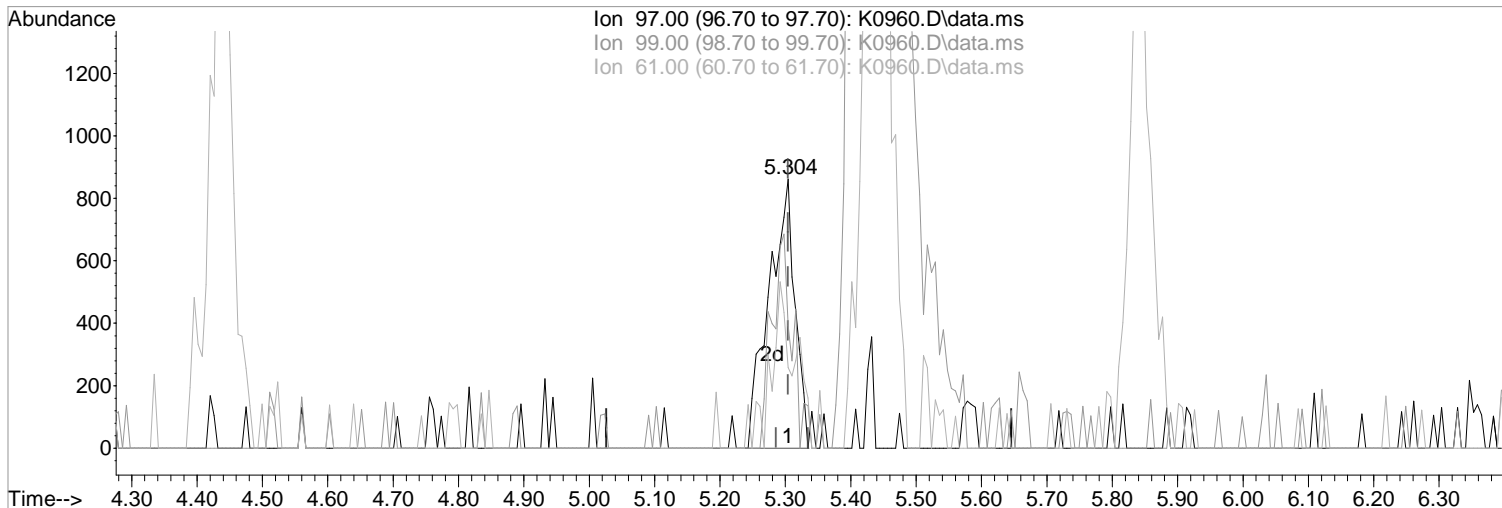
Manual Integration:
Before

Ion	Exp%	Act%
63.00	100	100
65.10	33.90	50.78
83.00	15.20	13.87
0.00	0.00	0.00

03/18/21

Data Path : I:\ACQUDATA\msvoal2\Data\031721\
Data File : K0960.D
Acq On : 17 Mar 2021 4:28 pm
Operator : KRuest
Sample : R2102165-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 09:35:26 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.304min (-0.000) 0.46 ppb m
response 2373

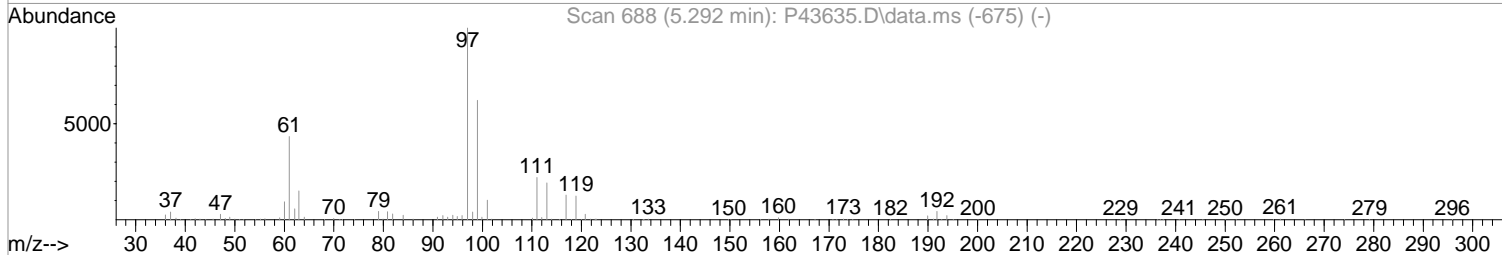
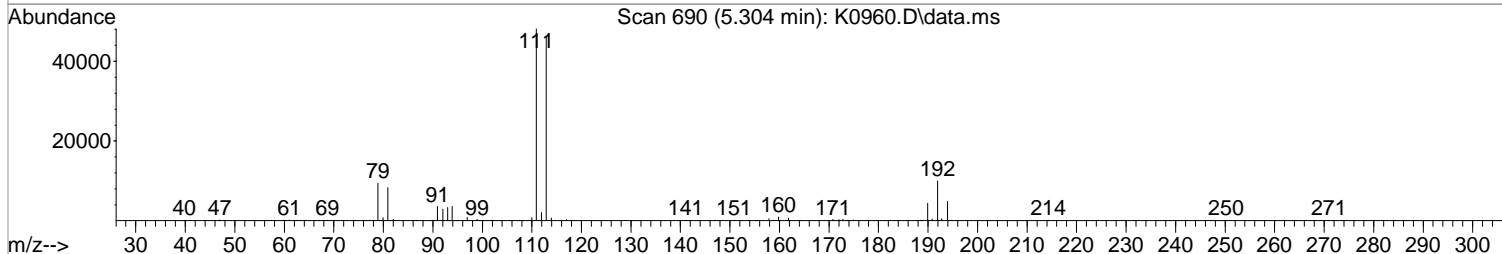
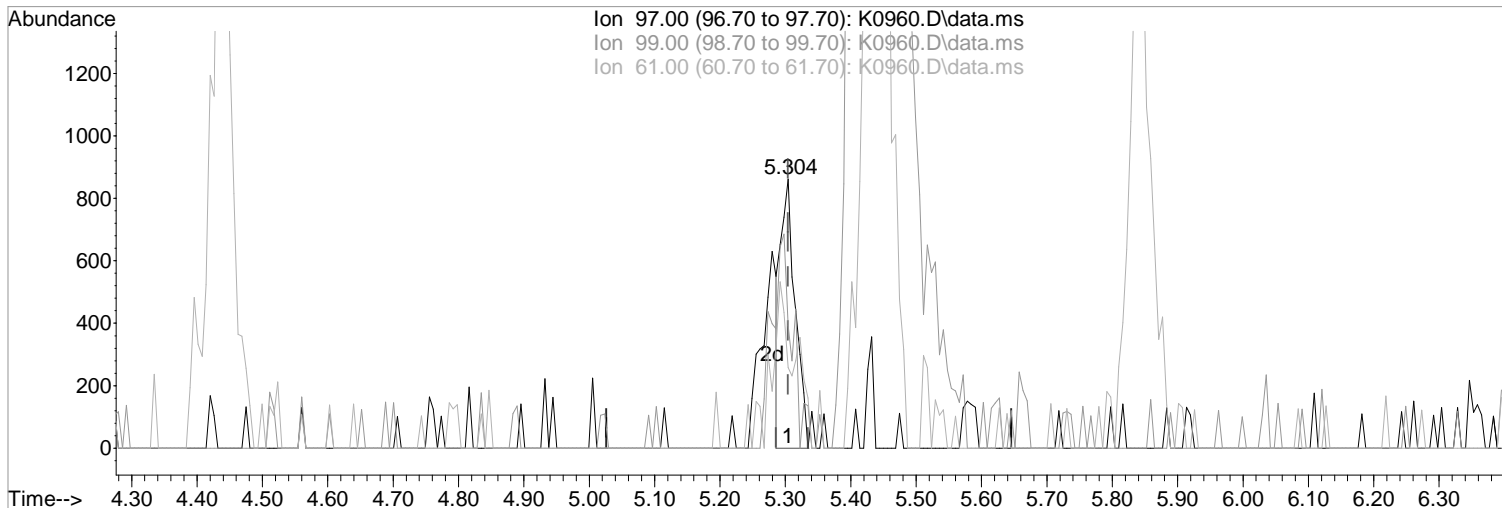
Ion	Exp%	Act%
97.00	100	100
99.00	62.10	45.48
61.00	43.30	29.93
0.00	0.00	0.00

Manual Integration:

After
Split Peak
03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0960.D
Acq On : 17 Mar 2021 4:28 pm
Operator : KRuest
Sample : R2102165-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 09:35:26 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

Manual Integration:

5.304min (-0.000) 0.26 ppb

Before

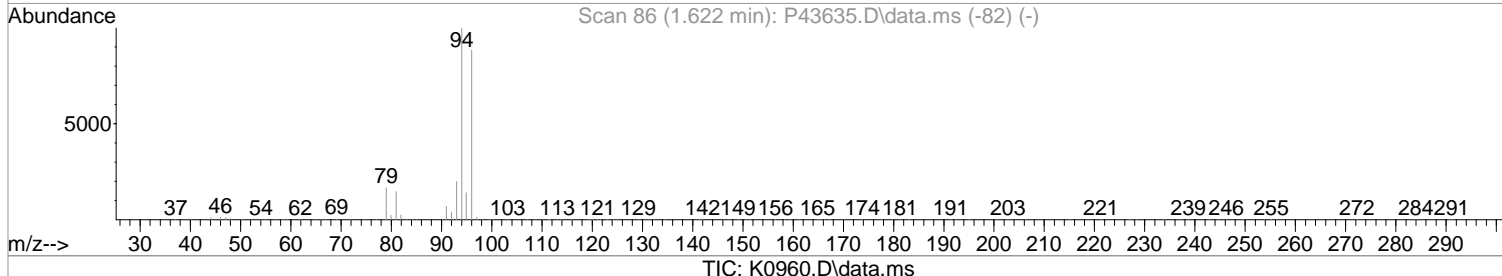
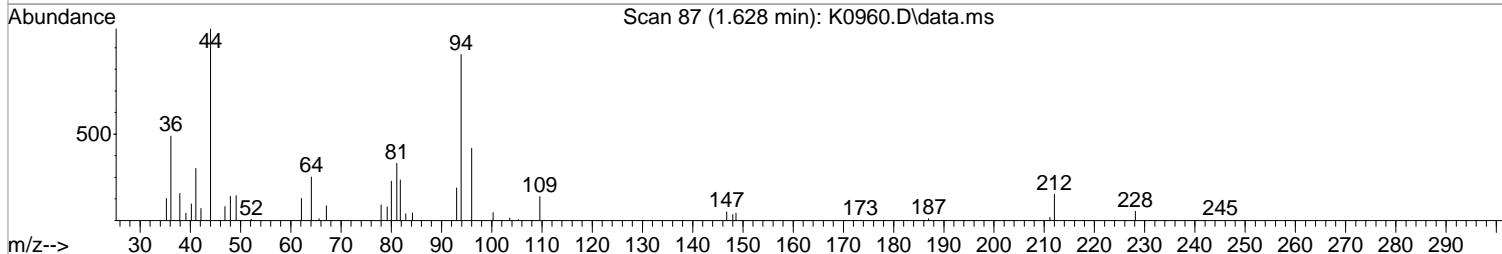
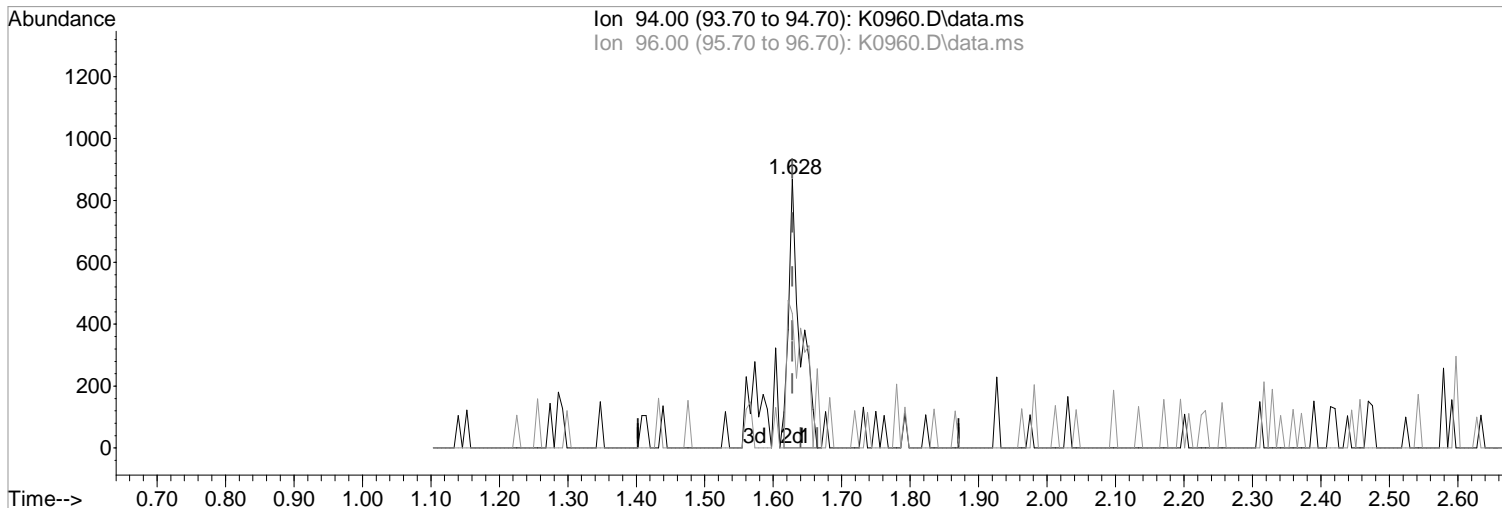
response 1360

Ion	Exp%	Act%
97.00	100	100
99.00	62.10	45.48
61.00	43.30	29.93
0.00	0.00	0.00

03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0960.D
Acq On : 17 Mar 2021 4:28 pm
Operator : KRuest
Sample : R2102165-001|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 09:35:26 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.628min (-0.000) 0.28 ppb m
response 1017

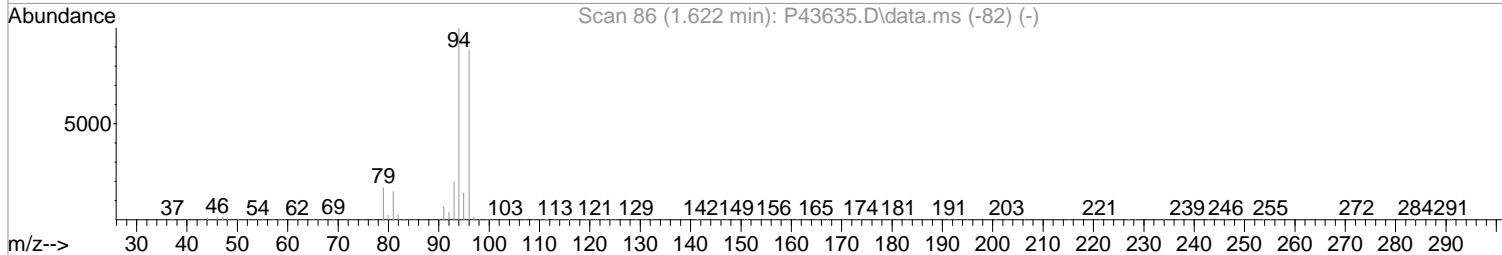
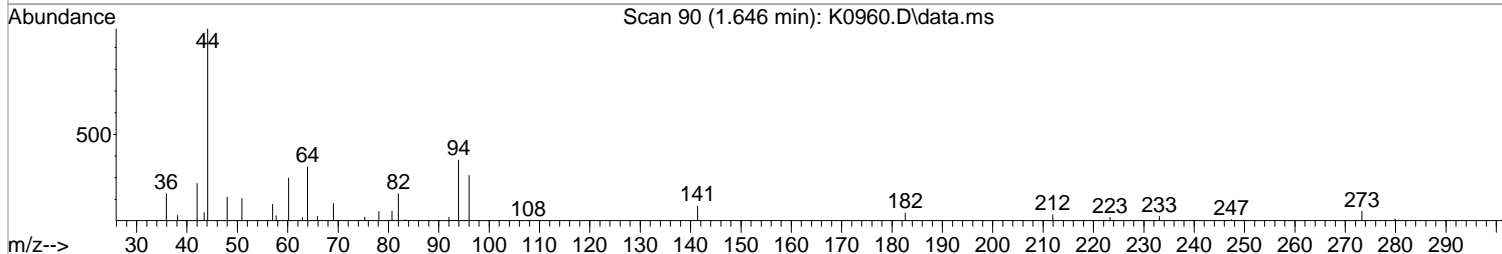
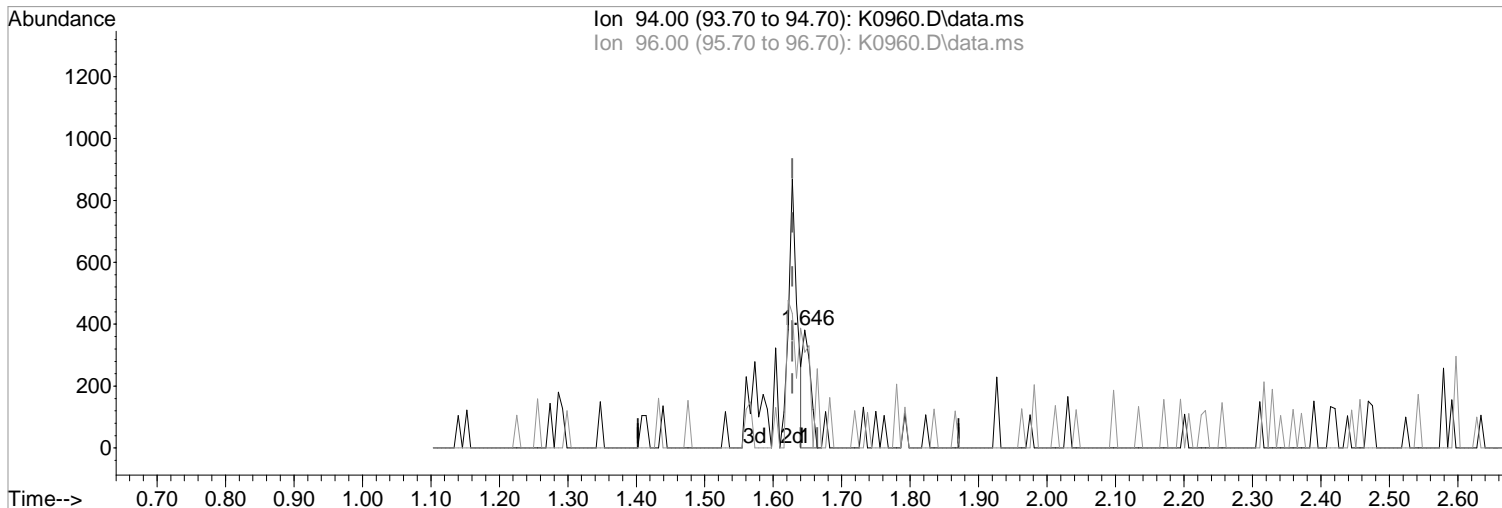
Manual Integration:
After
Poor integration.

Ion	Exp%	Act%
94.00	100	100
96.00	88.30	50.06#
0.00	0.00	0.00
0.00	0.00	0.00

03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0960.D
 Acq On : 17 Mar 2021 4:28 pm
 Operator : KRuest
 Sample : R2102165-001|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 09:35:26 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration



TIC: K0960.D\data.ms

(5) Bromomethane (P)
 1.646min (+0.018) 0.08 ppb
 response 291

Ion	Exp%	Act%
94.00	100	100
96.00	88.30	81.36
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:
 Before

03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0960.D
 Acq On : 17 Mar 2021 4:28 pm
 Operator : KRuest
 Sample : R2102165-001|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 10:51:26 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

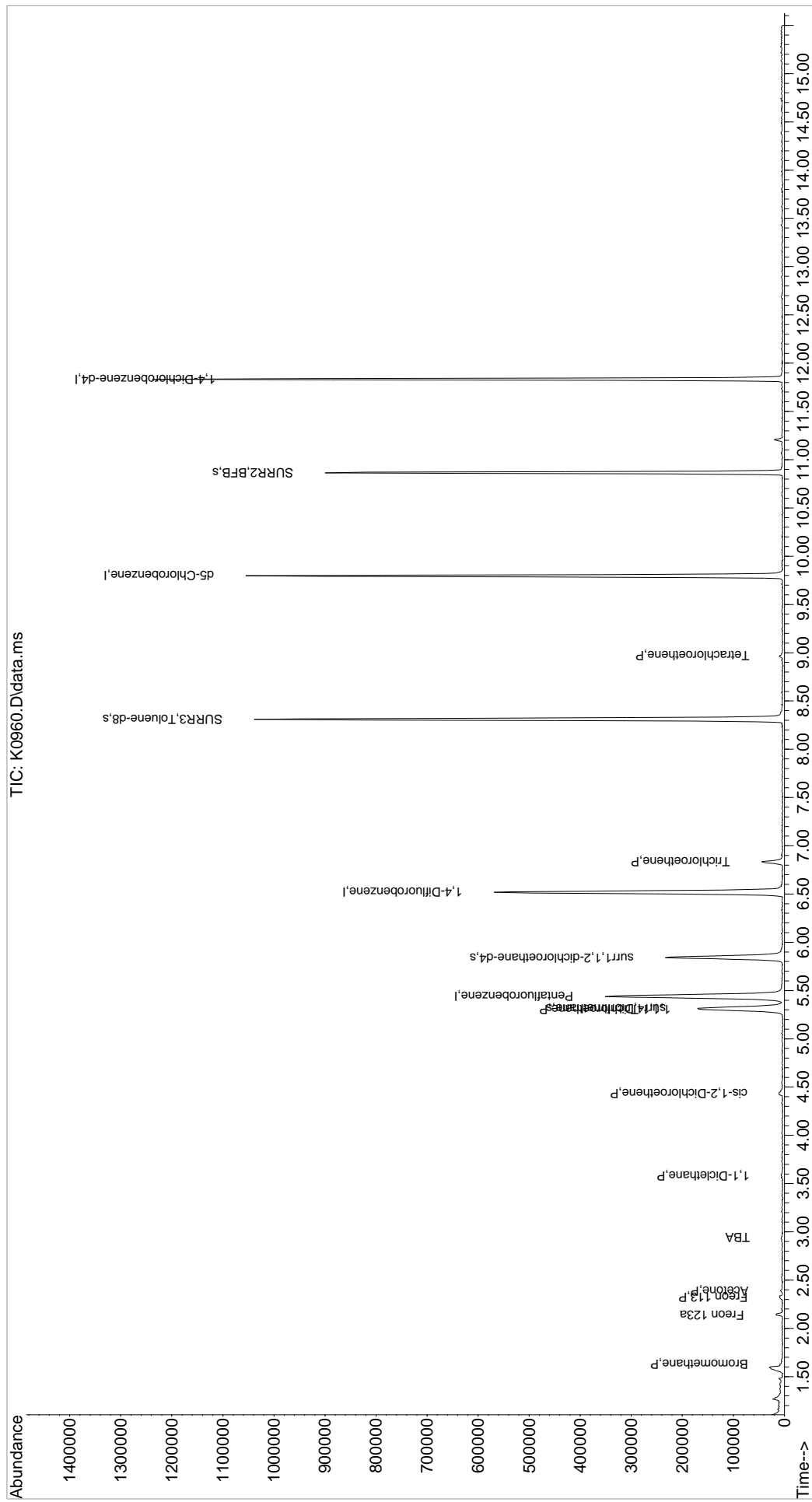
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	311047	50.00	ppb	-0.01
43) 1,4-Difluorobenzene	6.517	114	495611	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	471586	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	234317	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	136457	49.74	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	99.48%		
48) surr1,1,2-dichloroetha...	5.840	65	189448	54.69	ppb	-0.01
Spiked Amount	50.000	Range 73 - 125	Recovery =	109.38%		
65) SURR3,Toluene-d8	8.309	98	649523	53.90	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	107.80%		
70) SURR2,BFB	10.864	95	234652	49.11	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	98.22%		
Target Compounds						
5) Bromomethane	1.628	94	1017m	0.28	ppb	Qvalue
10) Freon 123a	2.140	67	5580	1.67	ppb	98
14) Freon 113	2.323	101	1847	0.61	ppb	# 70
15) Acetone	2.390	43	2947	2.08	ppb	88
23) TBA	2.945	59	2096m	3.24	ppb	
28) 1,1-Dicethane	3.579	63	2403m	0.46	ppb	
34) cis-1,2-Dichloroethene	4.432	96	4221	1.24	ppb	88
41) 1,1,1-Trichloroethane	5.304	97	2373m	0.46	ppb	
54) Trichloroethene	6.834	130	13119	3.62	ppb	90
72) Tetrachloroethene	8.974	164	1092	0.37	ppb	# 51

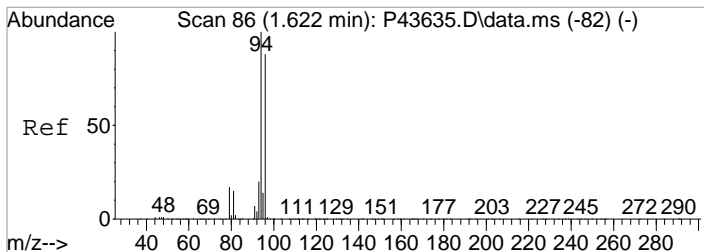
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\031721\
 Data File : K0960.D
 Acq On : 17 Mar 2021 4:28 pm
 Operator : KRuest
 Sample : R2102165-001|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

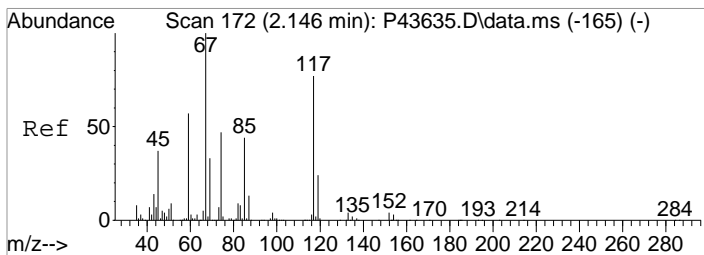
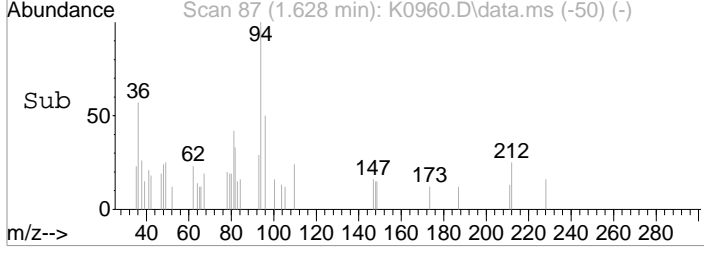
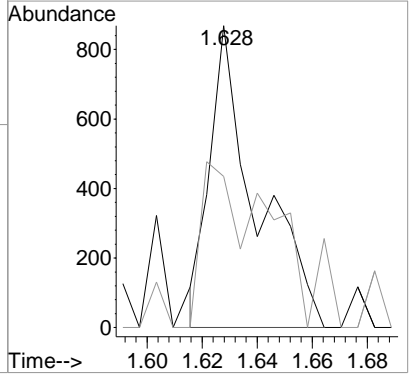
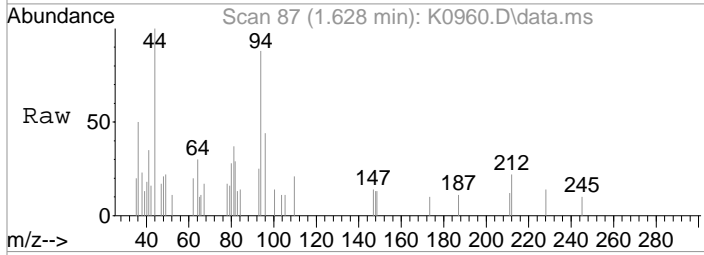
Quant Time: Mar 18 10:51:26 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration





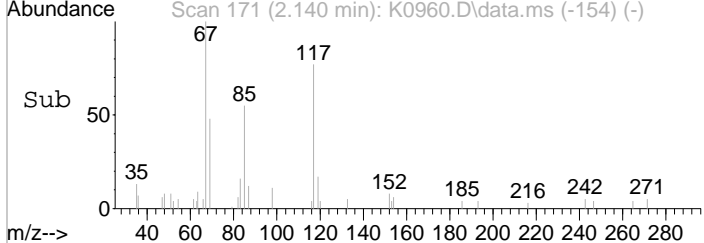
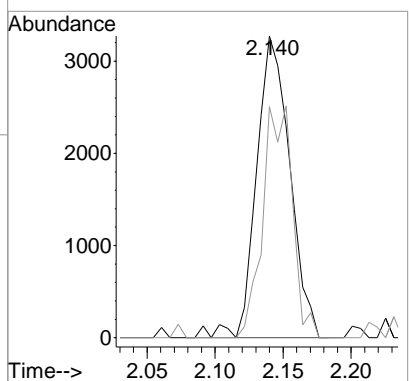
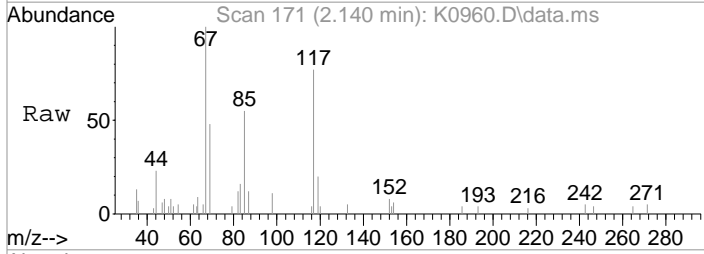
#5
 Bromomethane
 Concen: 0.28 ppb m
 RT: 1.628 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

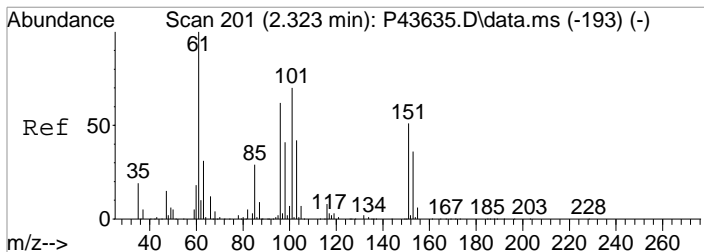
Tgt Ion	Resp	Lower	Upper
94	1017		
96	50.1	68.3	108.3#



#10
 Freon 123a
 Concen: 1.67 ppb
 RT: 2.140 min Scan# 171
 Delta R.T. -0.012 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

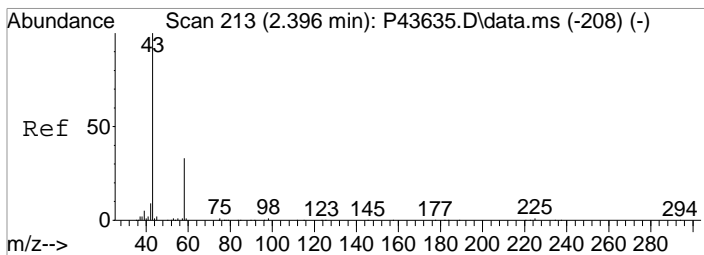
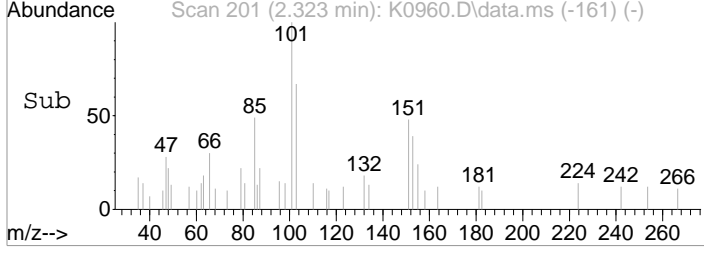
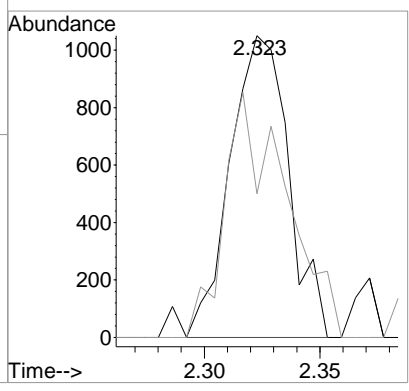
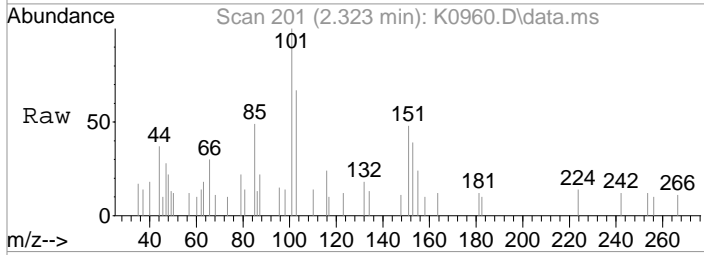
Tgt Ion	Resp	Lower	Upper
67	5580		
117	76.6	58.5	98.5





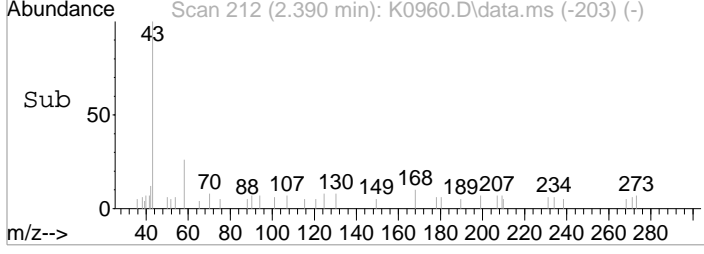
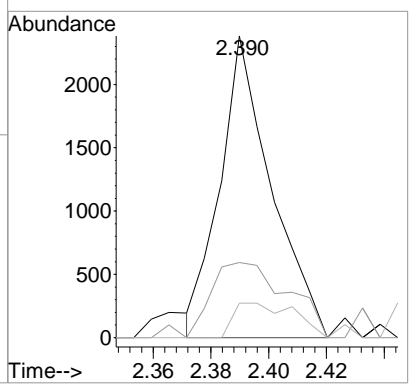
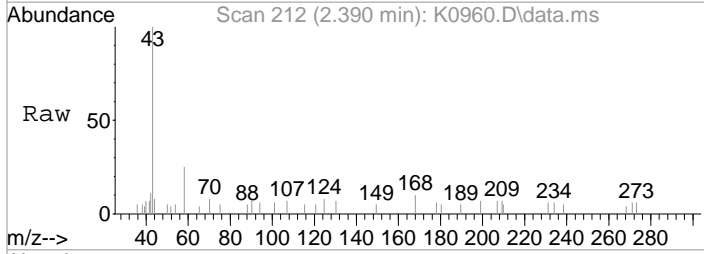
#14
 Freon 113
 Concen: 0.61 ppb
 RT: 2.323 min Scan# 201
 Delta R.T. -0.012 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

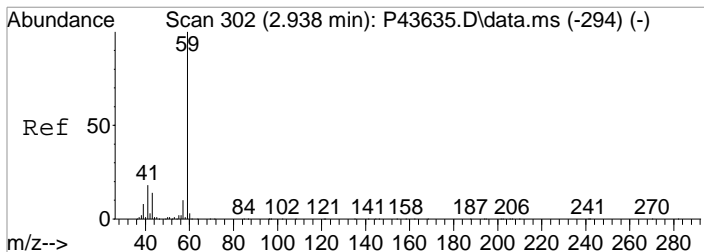
Tgt Ion	Resp	Lower	Upper
101	1847		
101	100		
151	47.6	52.5	92.5#



#15
 Acetone
 Concen: 2.08 ppb
 RT: 2.390 min Scan# 212
 Delta R.T. -0.018 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

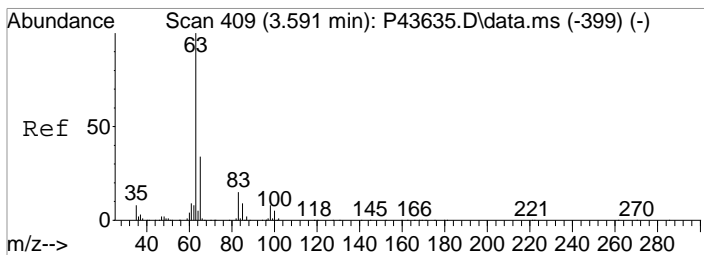
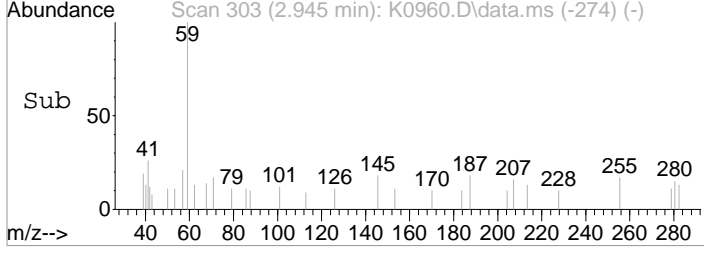
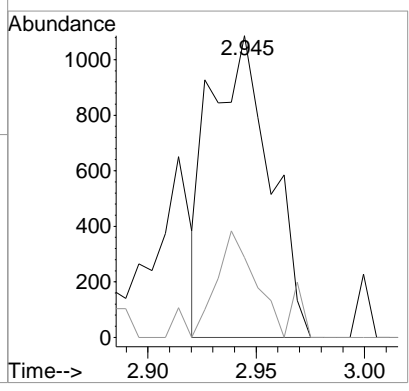
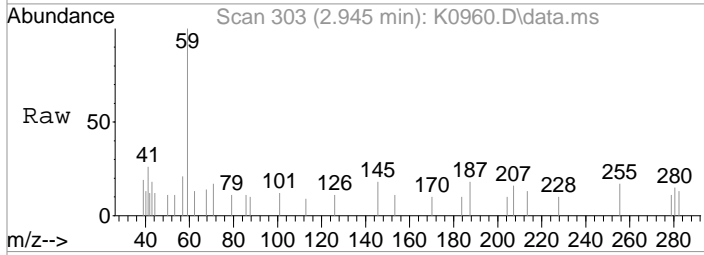
Tgt Ion	Resp	Lower	Upper
43	2947		
43	100		
58	24.9	12.9	52.9
42	11.5	0.0	29.5





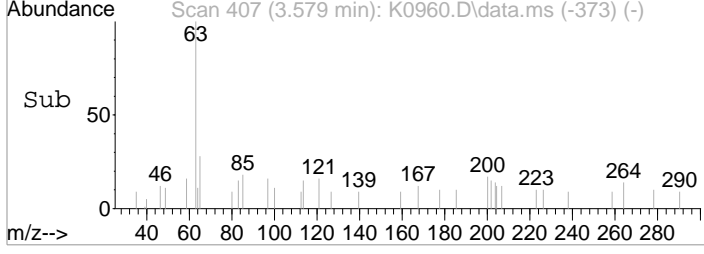
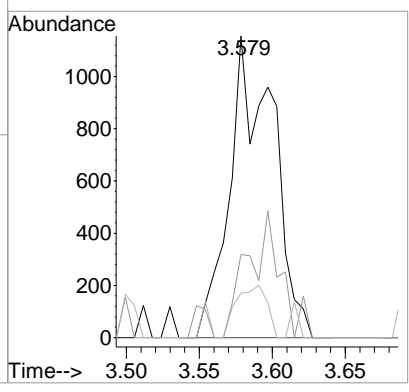
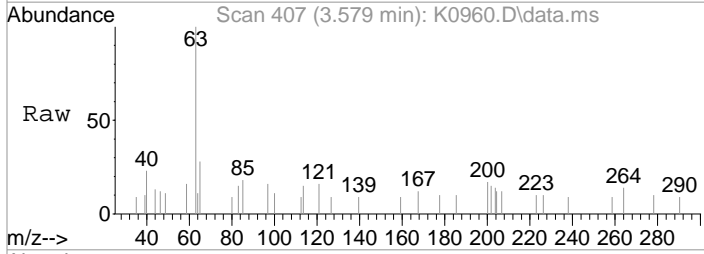
#23
 TBA
 Concen: 3.24 ppb m
 RT: 2.945 min Scan# 303
 Delta R.T. -0.012 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

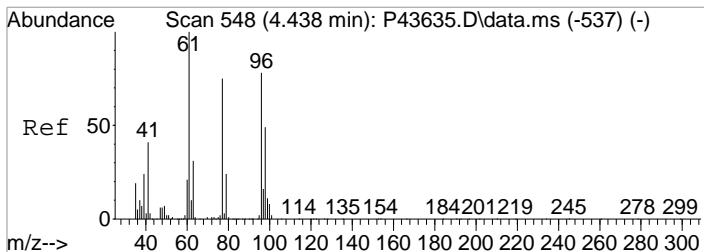
Tgt Ion	Resp	Lower	Upper
59	100		
41	26.5	0.0	37.9



#28
 1,1-Dicethane
 Concen: 0.46 ppb m
 RT: 3.579 min Scan# 407
 Delta R.T. -0.018 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

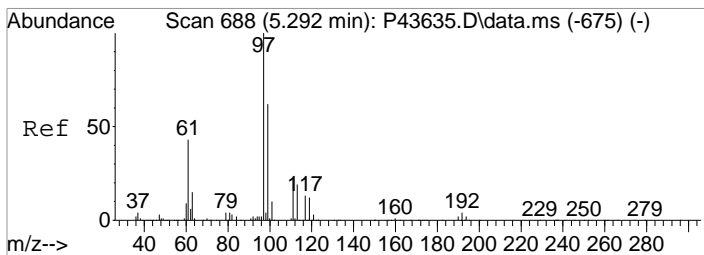
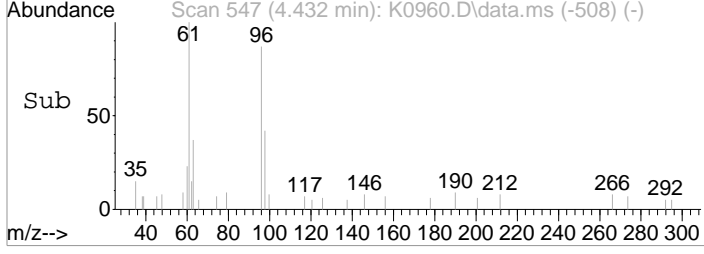
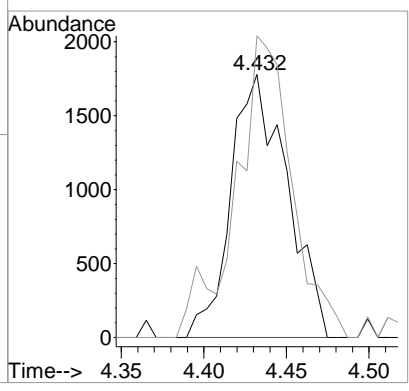
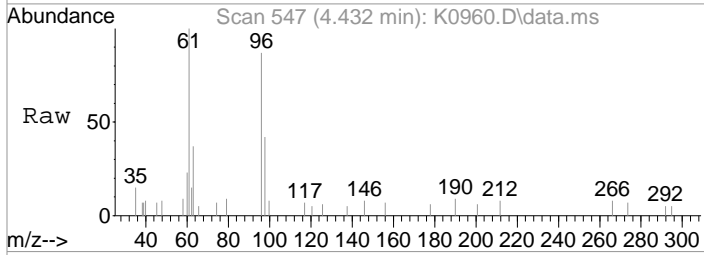
Tgt Ion	Resp	Lower	Upper
63	100		
65	27.5	13.9	53.9
83	14.7	0.0	35.2





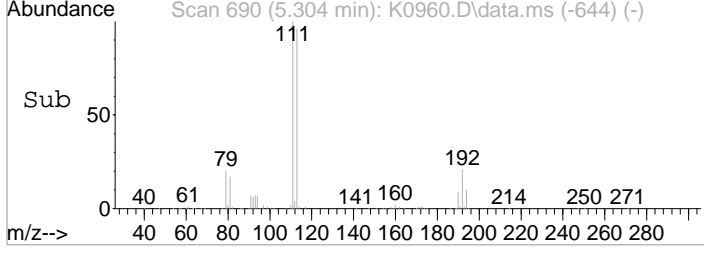
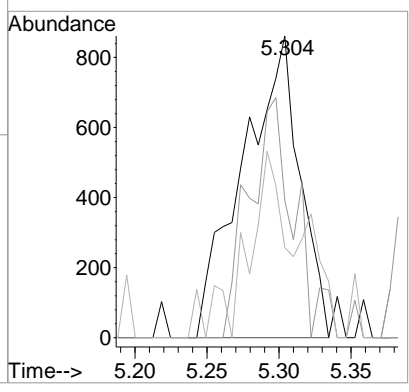
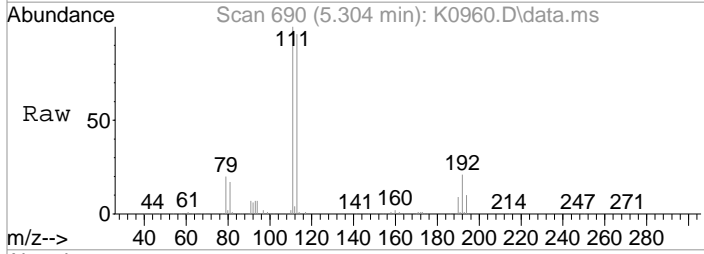
#34
 cis-1,2-Dichloroethene
 Concen: 1.24 ppb
 RT: 4.432 min Scan# 547
 Delta R.T. -0.018 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

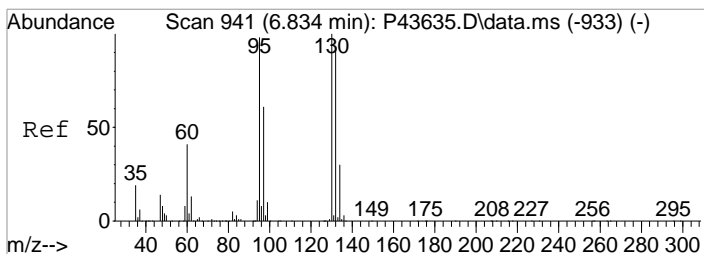
Tgt Ion	Resp	Lower	Upper
96	4221		
96	100		
61	114.8	108.1	148.1



#41
 1,1,1-Trichloroethane
 Concen: 0.46 ppb m
 RT: 5.304 min Scan# 690
 Delta R.T. -0.000 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

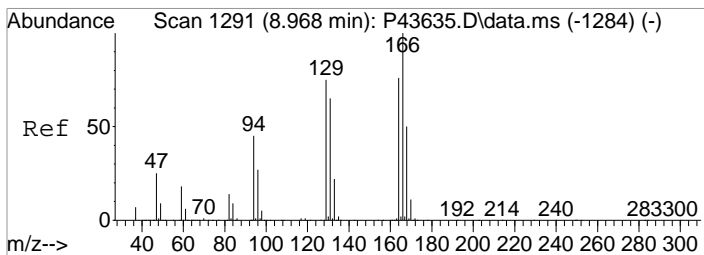
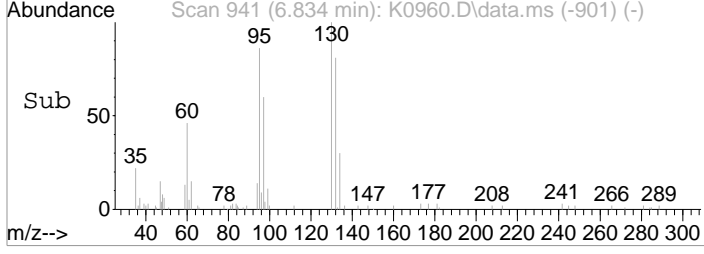
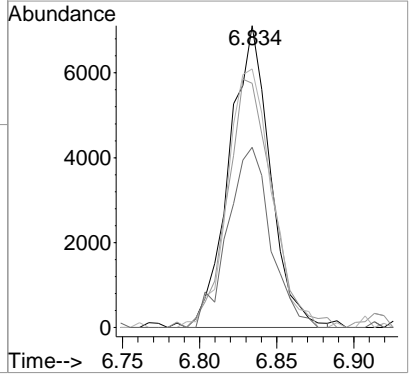
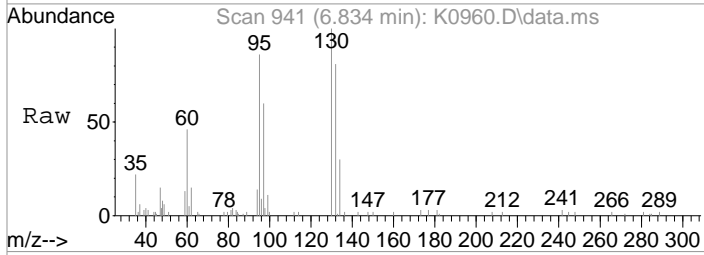
Tgt Ion	Resp	Lower	Upper
97	2373		
97	100		
99	45.5	42.1	82.1
61	29.9	23.3	63.3





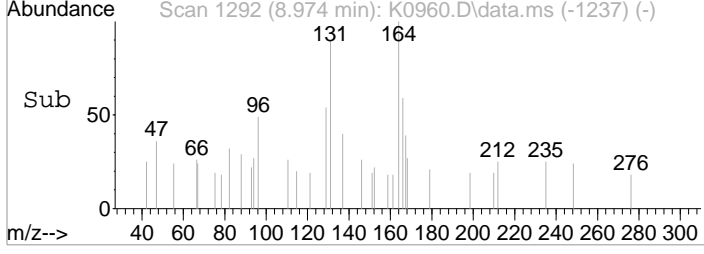
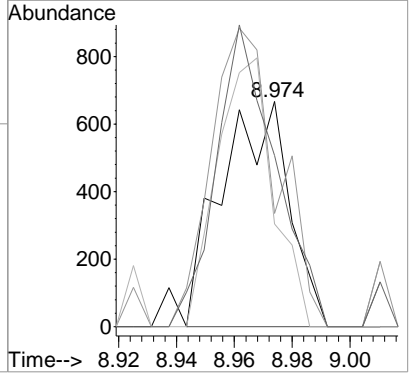
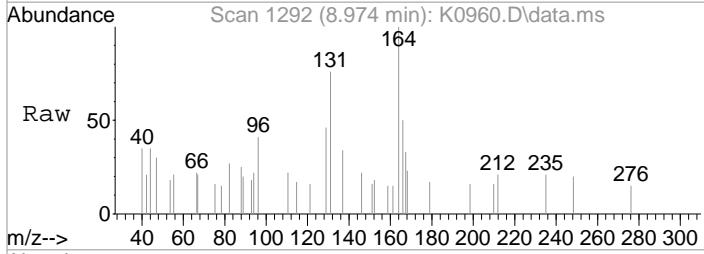
#54
 Trichloroethene
 Concen: 3.62 ppb
 RT: 6.834 min Scan# 941
 Delta R.T. -0.006 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

Tgt Ion	Resp	Lower	Upper
130	13119		
130	100		
132	80.9	73.4	113.4
95	85.6	78.0	118.0
97	63.6	41.4	81.4



#72
 Tetrachloroethene
 Concen: 0.37 ppb
 RT: 8.974 min Scan# 1292
 Delta R.T. 0.006 min
 Lab File: K0960.D
 Acq: 17 Mar 2021 4:28 pm

Tgt Ion	Resp	Lower	Upper
164	1092		
164	100		
166	50.2	112.4	152.4#
129	45.6	79.5	119.5#
131	76.0	66.0	106.0



Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0961.D
 Acq On : 17 Mar 2021 4:50 pm
 Operator : KRuest
 Sample : R2102165-002|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 16 Sample Multiplier: 1

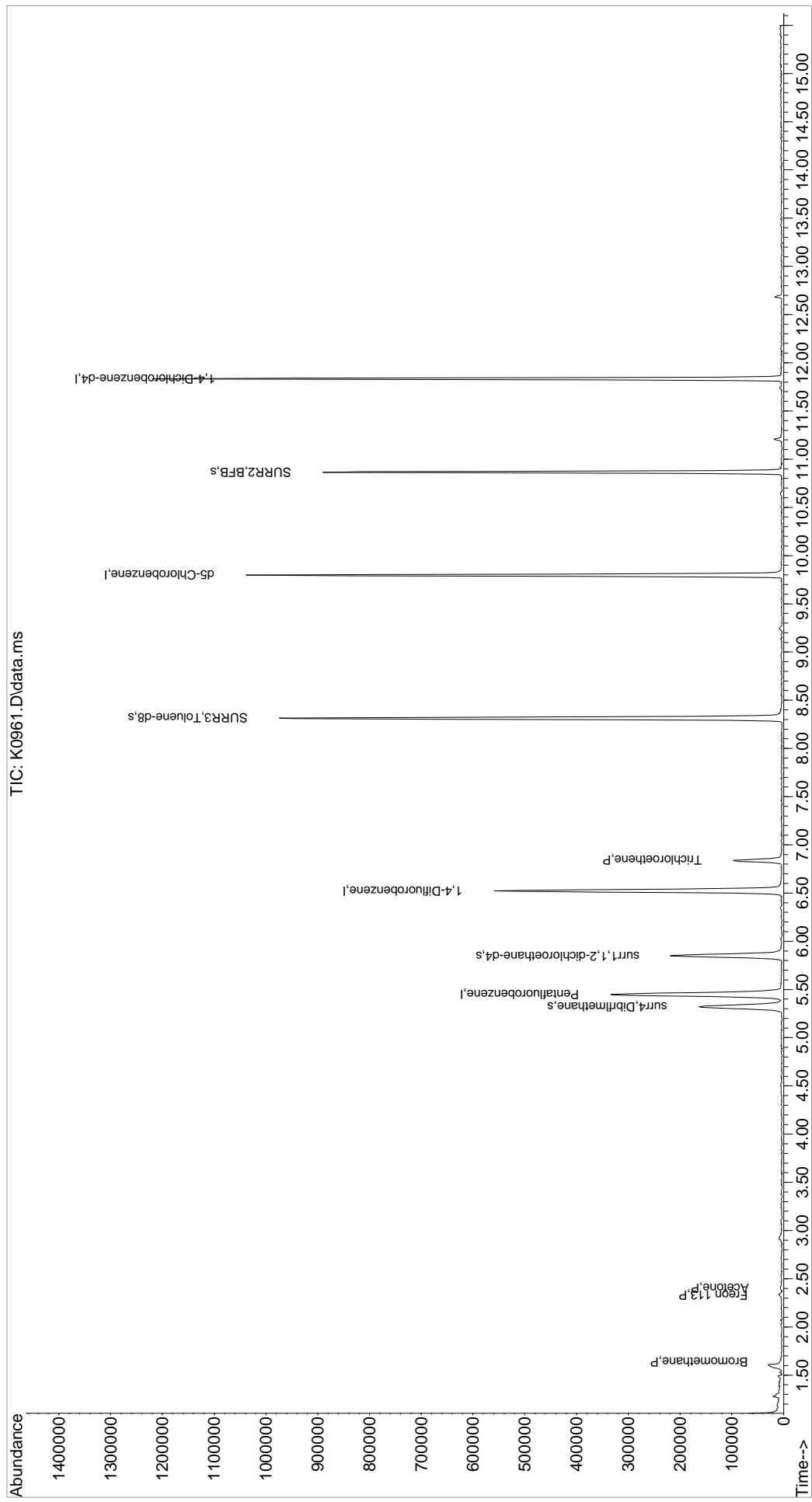
Quant Time: Mar 18 11:24:46 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

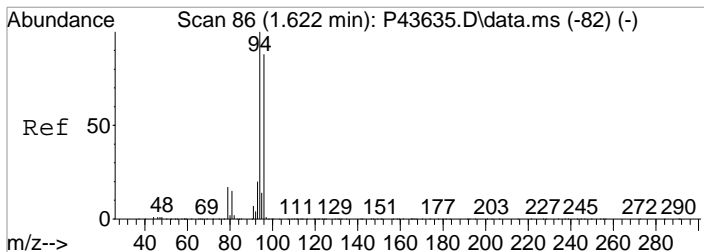
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	300938	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	480156	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	448936	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	228884	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	132898	50.00	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	100.00%	
48) surr1,1,2-dichloroetha...	5.846	65	178811	53.28	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	106.56%	
65) SURR3,Toluene-d8	8.315	98	626951	53.71	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	107.42%	
70) SURR2,BFB	10.864	95	227529	49.15	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.30%	
Target Compounds						
5) Bromomethane	1.640	94	1140	0.32	ppb	91
14) Freon 113	2.329	101	1741	0.59	ppb	95
15) Acetone	2.402	43	2847	2.08	ppb	75
54) Trichloroethene	6.840	130	34345	9.78	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

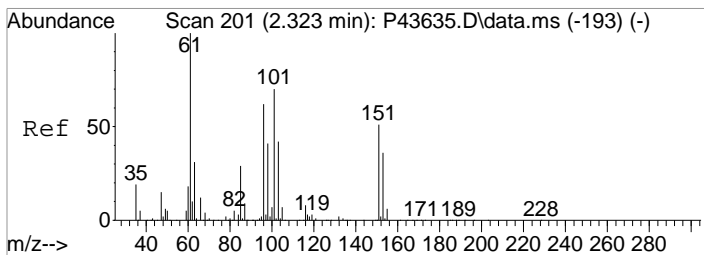
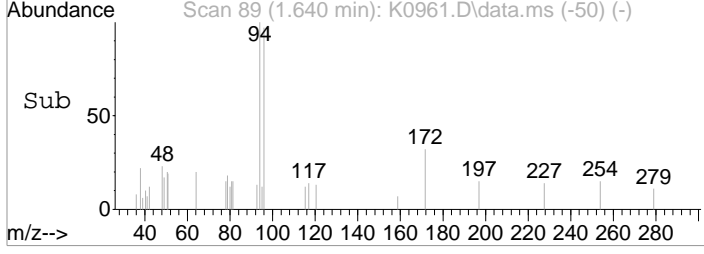
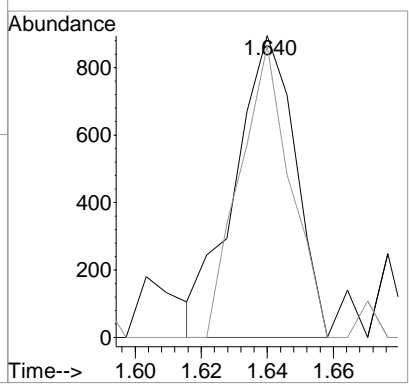
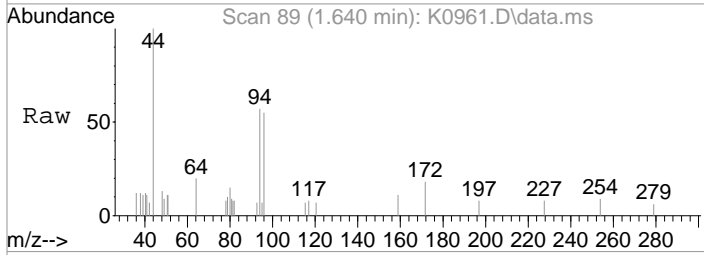
Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0961.D
Acq On : 17 Mar 2021 4:50 pm
Operator : KRuest
Sample : R2102165-002|1.0
Misc : VERINA 8260 T4
ALS Vial : 16 Sample Multiplier: 1
Inst : MSVOA-12
Quant Time: Mar 18 11:24:46 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration





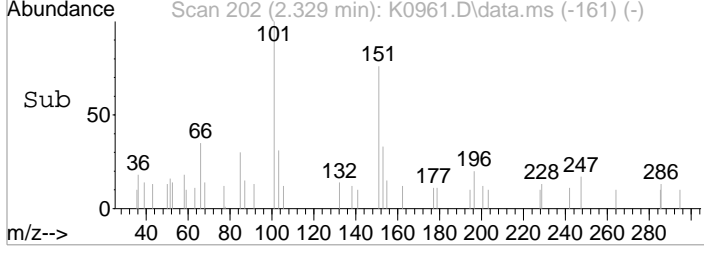
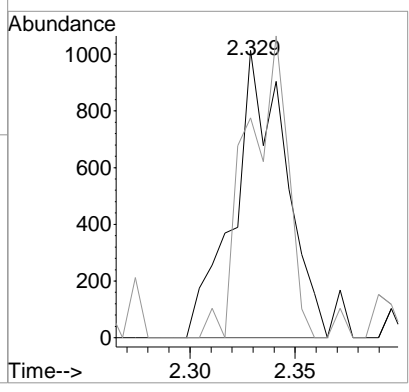
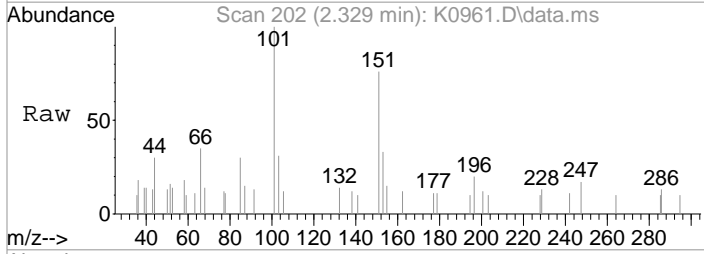
#5
 Bromomethane
 Concen: 0.32 ppb
 RT: 1.640 min Scan# 89
 Delta R.T. 0.012 min
 Lab File: K0961.D
 Acq: 17 Mar 2021 4:50 pm

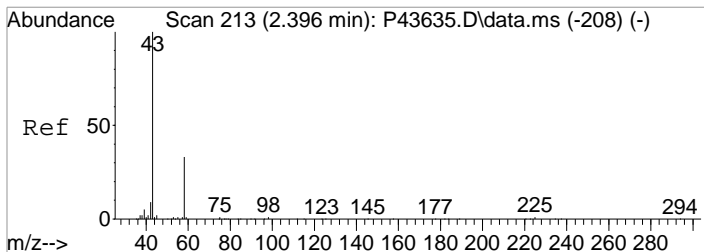
Tgt Ion	Resp	Lower	Upper
94	100		
96	96.8	68.3	108.3



#14
 Freon 113
 Concen: 0.59 ppb
 RT: 2.329 min Scan# 202
 Delta R.T. -0.006 min
 Lab File: K0961.D
 Acq: 17 Mar 2021 4:50 pm

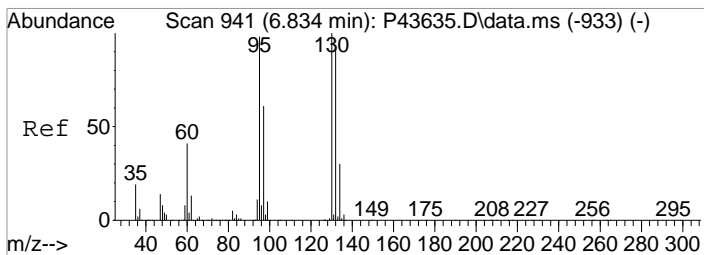
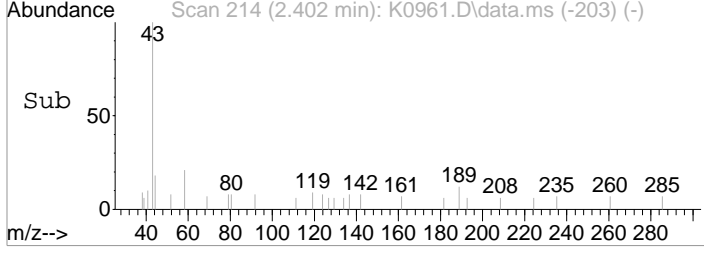
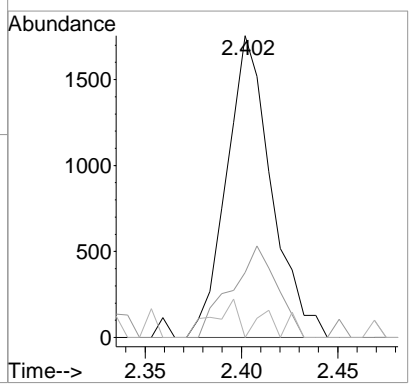
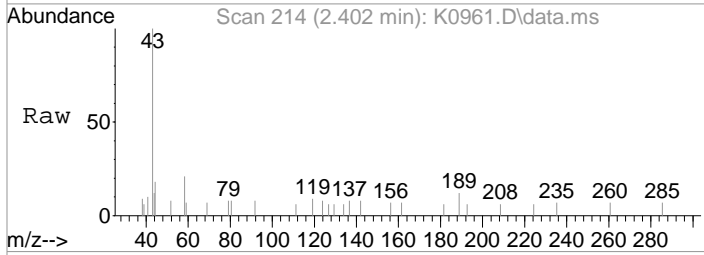
Tgt Ion	Resp	Lower	Upper
101	100		
151	76.4	52.5	92.5





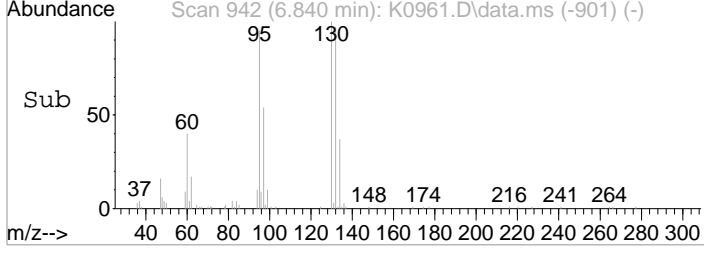
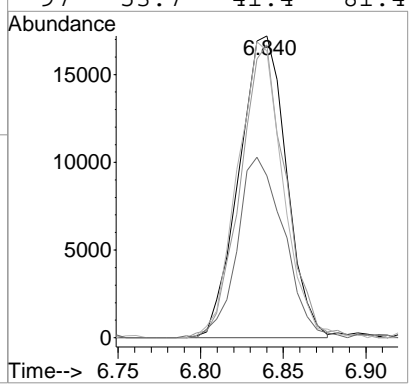
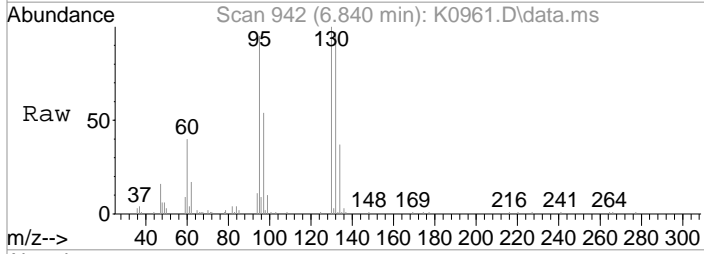
#15
 Acetone
 Concen: 2.08 ppb
 RT: 2.402 min Scan# 214
 Delta R.T. -0.006 min
 Lab File: K0961.D
 Acq: 17 Mar 2021 4:50 pm

Tgt Ion	Ion	Resp	Lower	Upper
43	100			
58	19.3	12.9	52.9	
42	0.0	0.0	29.5	



#54
 Trichloroethene
 Concen: 9.78 ppb
 RT: 6.840 min Scan# 942
 Delta R.T. -0.000 min
 Lab File: K0961.D
 Acq: 17 Mar 2021 4:50 pm

Tgt Ion	Ion	Resp	Lower	Upper
130	100			
132	97.0	73.4	113.4	
95	94.9	78.0	118.0	
97	53.7	41.4	81.4	



Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0962.D
 Acq On : 17 Mar 2021 5:12 pm
 Operator : KRuest
 Sample : R2102165-003|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 18 11:29:05 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

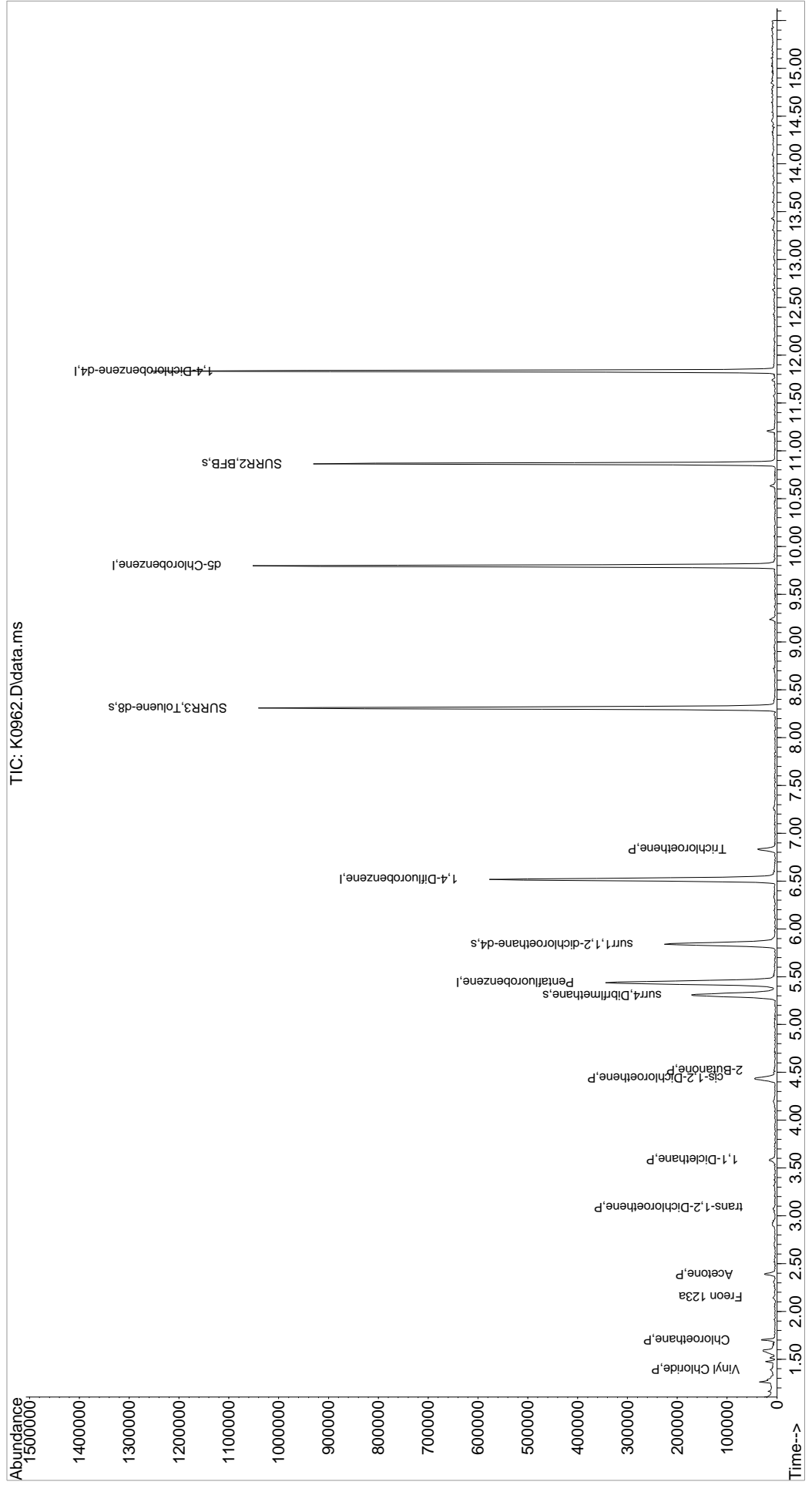
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	311680	50.00	ppb	-0.01
43) 1,4-Difluorobenzene	6.517	114	490430	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	461879	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	229979	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.304	113	137499	50.65	ppb	-0.02
Spiked Amount	50.000	Range 80 - 116	Recovery =	101.30%		
48) surr1,1,2-dichloroetha...	5.840	65	188569	55.01	ppb	-0.01
Spiked Amount	50.000	Range 73 - 125	Recovery =	110.02%		
65) SURR3,Toluene-d8	8.309	98	629865	52.83	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	105.66%		
70) SURR2,BFB	10.864	95	230726	48.79	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	97.58%		
Target Compounds						
4) Vinyl Chloride	1.396	62	958	0.21	ppb	Qvalue 64
6) Chloroethane	1.701	64	14425	4.82	ppb	97
10) Freon 123a	2.152	67	1276	0.38	ppb	79
15) Acetone	2.390	43	20772	14.62	ppb	97
26) trans-1,2-Dichloroethene	3.085	96	1553	0.55	ppb #	55
28) 1,1-Dicethane	3.585	63	10416	1.98	ppb	90
34) cis-1,2-Dichloroethene	4.438	96	24460	7.16	ppb #	79
35) 2-Butanone	4.524	43	3312	1.59	ppb	92
54) Trichloroethene	6.834	130	11949	3.33	ppb #	86

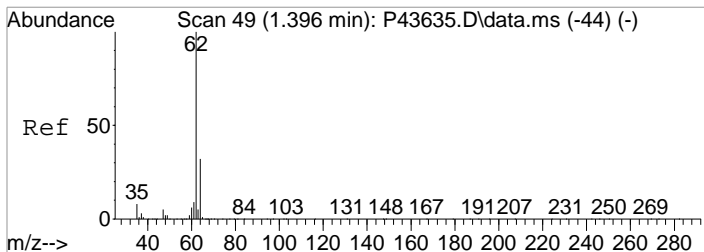
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0962.D
 Acq On : 17 Mar 2021 5:12 pm
 Operator : KRuest
 Sample : R2102165-003|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

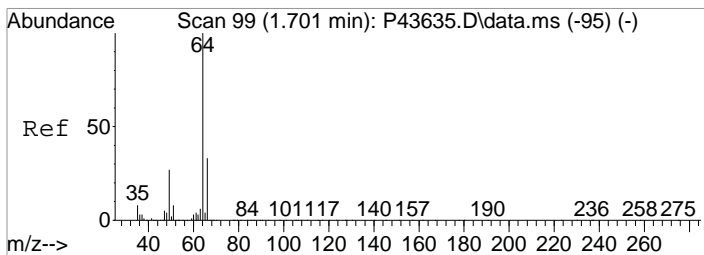
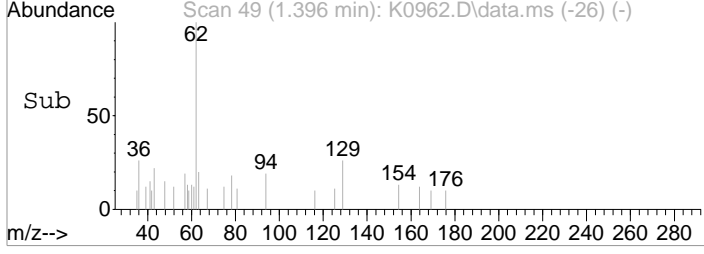
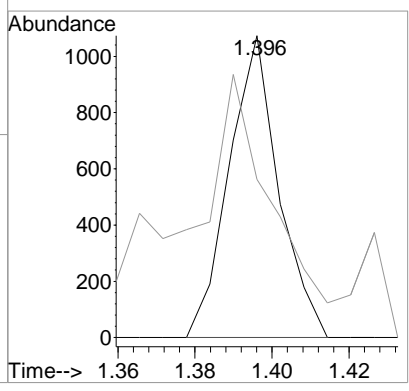
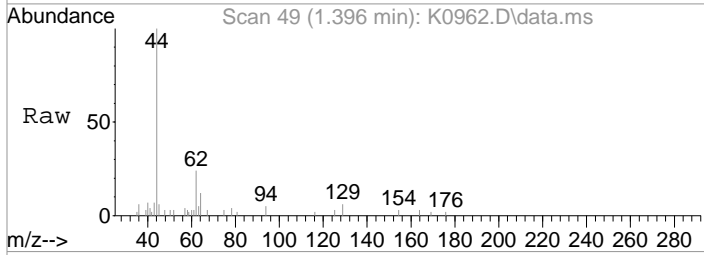
Quant Time: Mar 18 11:29:05 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration





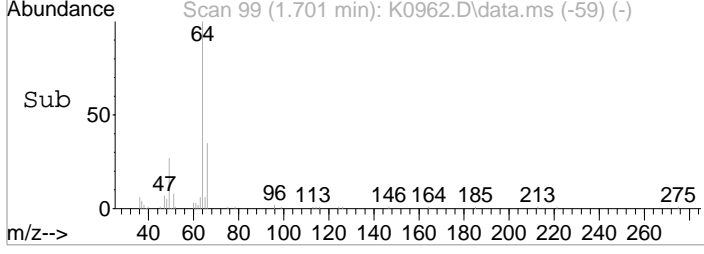
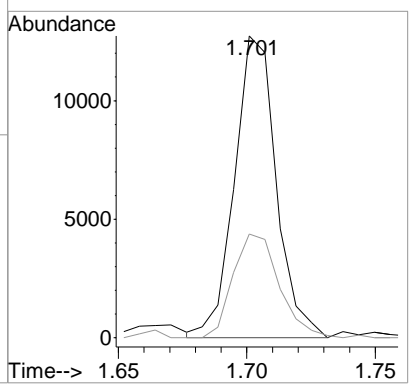
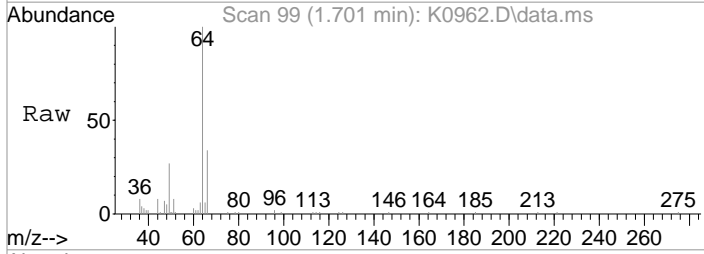
#4
 Vinyl Chloride
 Concen: 0.21 ppb
 RT: 1.396 min Scan# 49
 Delta R.T. -0.006 min
 Lab File: K0962.D
 Acq: 17 Mar 2021 5:12 pm

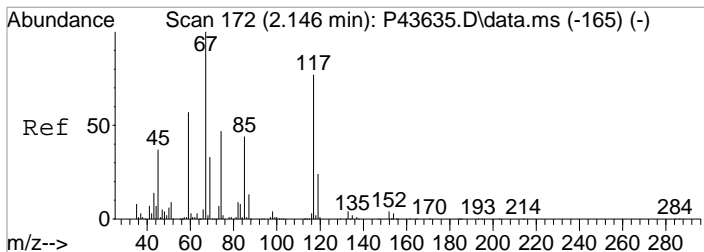
Tgt Ion	62	64	Resp	958
Ion Ratio	100	52.3	Lower	Upper
			12.4	52.4



#6
 Chloroethane
 Concen: 4.82 ppb
 RT: 1.701 min Scan# 99
 Delta R.T. -0.000 min
 Lab File: K0962.D
 Acq: 17 Mar 2021 5:12 pm

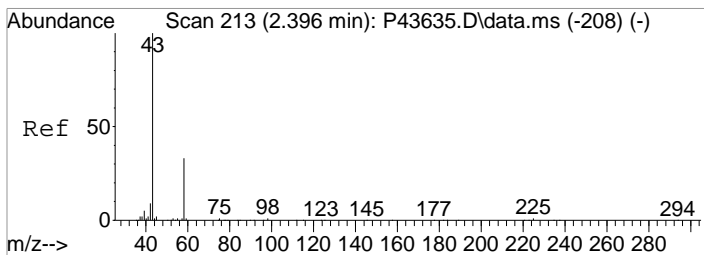
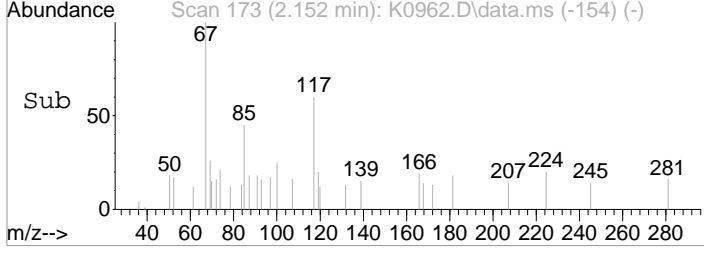
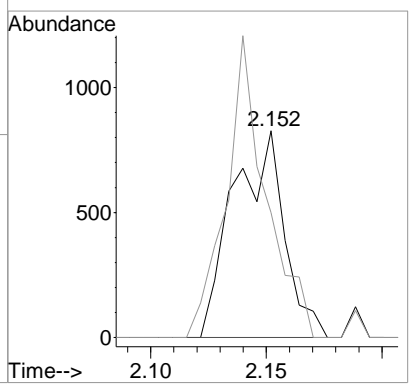
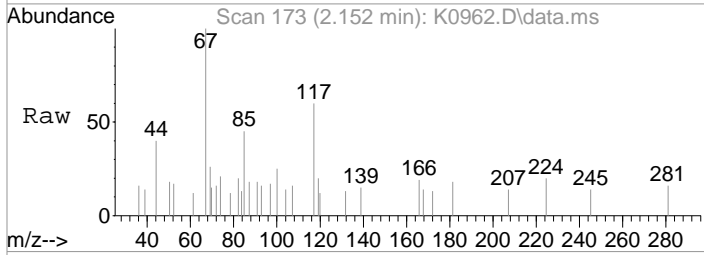
Tgt Ion	64	66	Resp	14425
Ion Ratio	100	34.4	Lower	Upper
			12.6	52.6





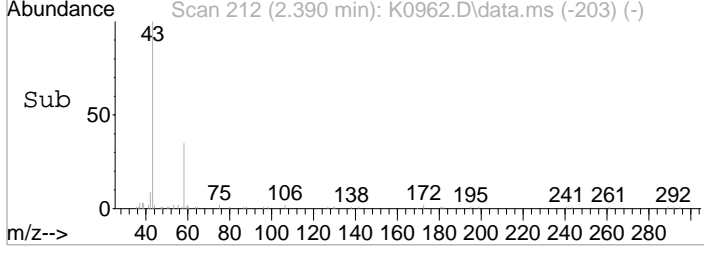
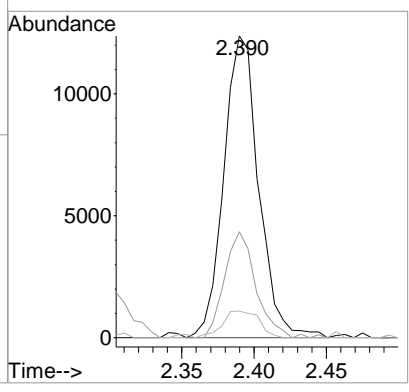
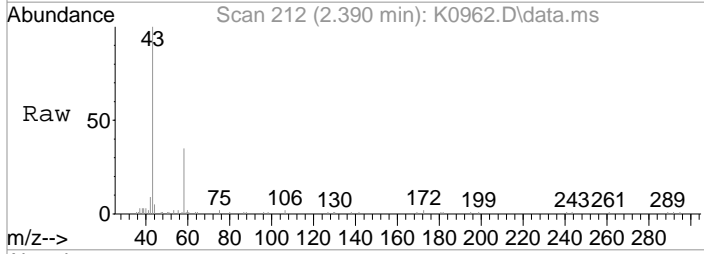
#10
 Freon 123a
 Concen: 0.38 ppb
 RT: 2.152 min Scan# 173
 Delta R.T. -0.000 min
 Lab File: K0962.D
 Acq: 17 Mar 2021 5:12 pm

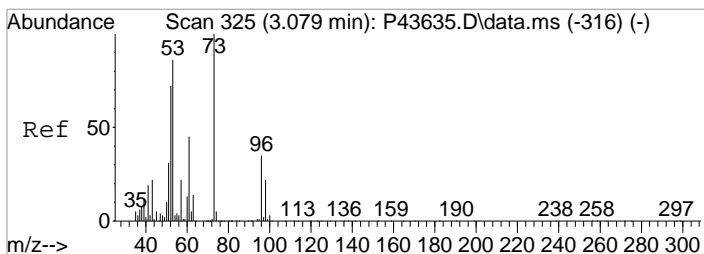
Tgt Ion	Resp	Lower	Upper
67	1276		
117	60.5	58.5	98.5



#15
 Acetone
 Concen: 14.62 ppb
 RT: 2.390 min Scan# 212
 Delta R.T. -0.018 min
 Lab File: K0962.D
 Acq: 17 Mar 2021 5:12 pm

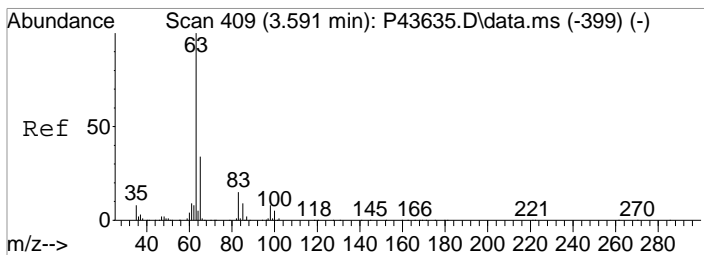
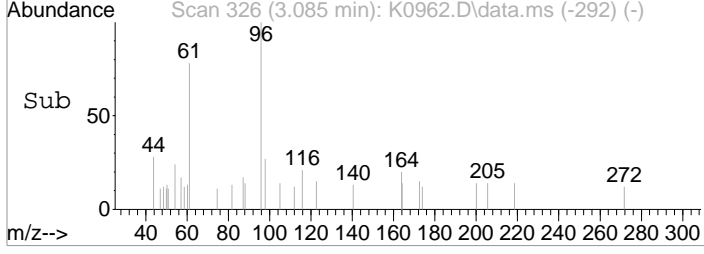
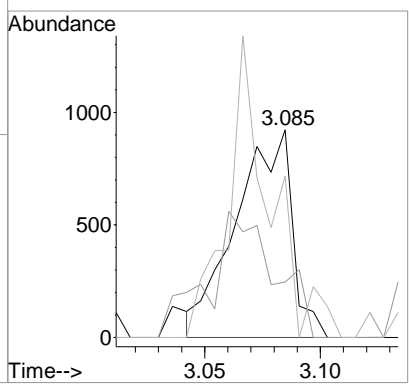
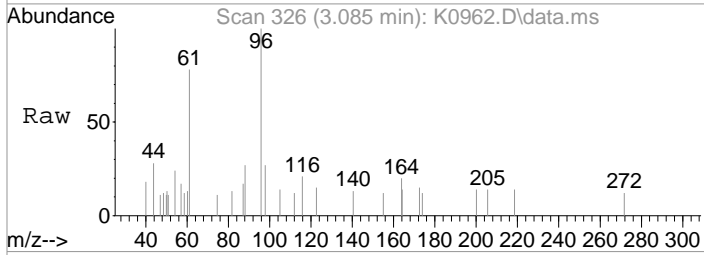
Tgt Ion	Resp	Lower	Upper
43	20772		
58	35.1	12.9	52.9
42	8.8	0.0	29.5





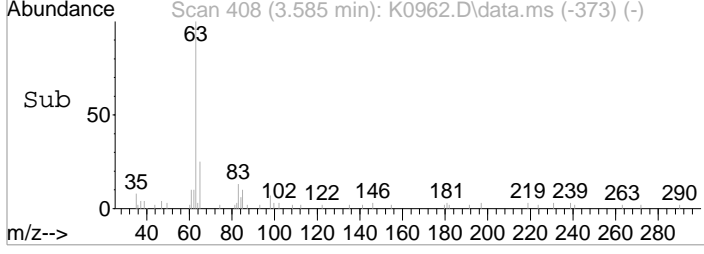
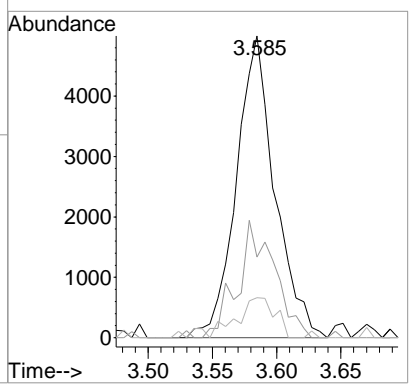
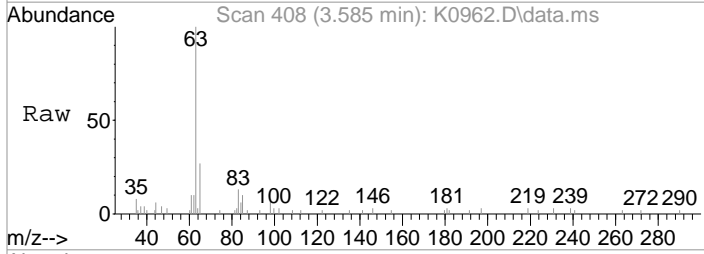
#26
 trans-1,2-Dichloroethene
 Concen: 0.55 ppb
 RT: 3.085 min Scan# 326
 Delta R.T. -0.000 min
 Lab File: K0962.D
 Acq: 17 Mar 2021 5:12 pm

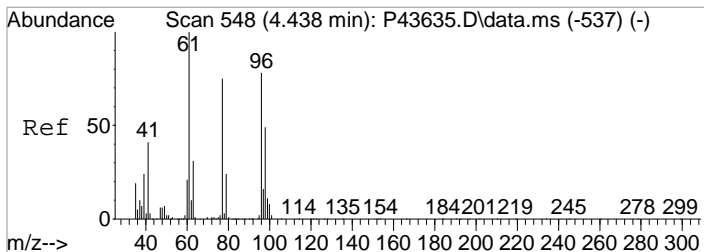
Tgt Ion	Resp	Lower	Upper
96	1553		
96	100		
98	26.8	44.3	84.3#
61	77.7	108.6	148.6#



#28
 1,1-Diclcethane
 Concen: 1.98 ppb
 RT: 3.585 min Scan# 408
 Delta R.T. -0.012 min
 Lab File: K0962.D
 Acq: 17 Mar 2021 5:12 pm

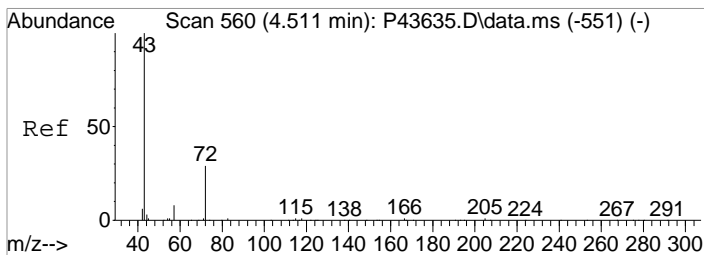
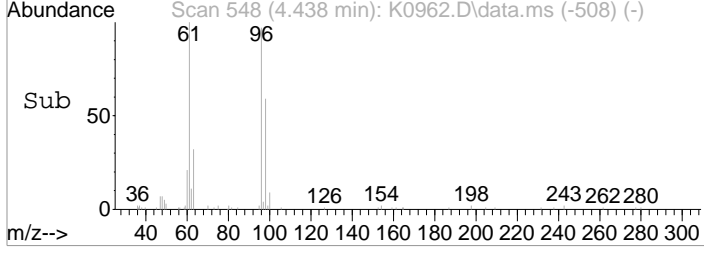
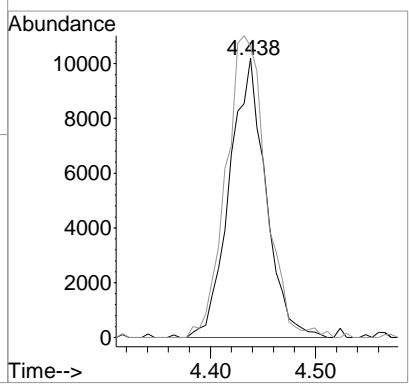
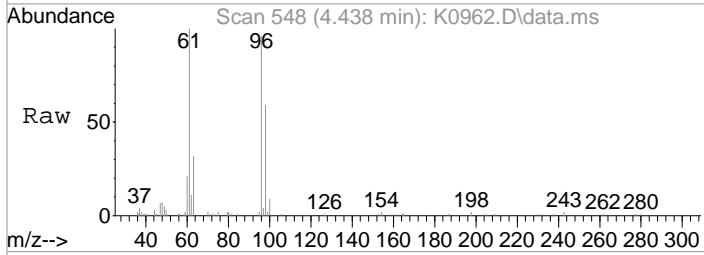
Tgt Ion	Resp	Lower	Upper
63	10416		
63	100		
65	26.7	13.9	53.9
83	13.3	0.0	35.2





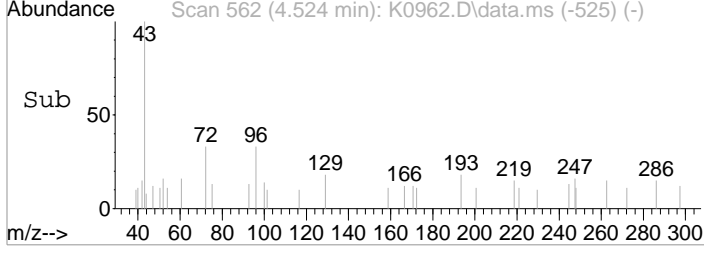
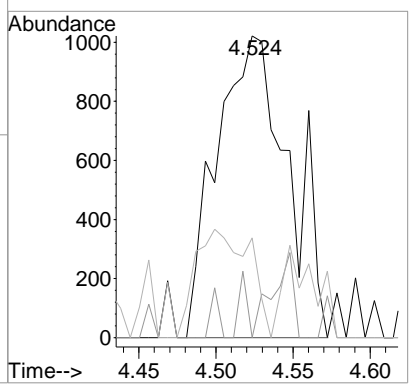
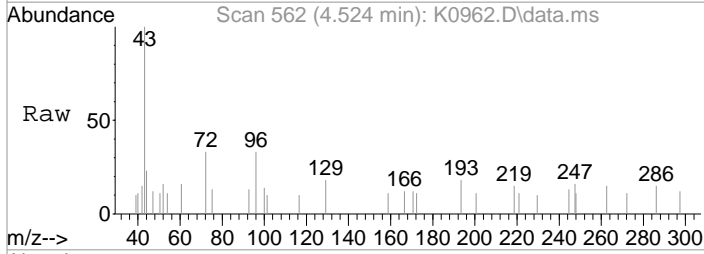
#34
 cis-1,2-Dichloroethene
 Concen: 7.16 ppb
 RT: 4.438 min Scan# 548
 Delta R.T. -0.012 min
 Lab File: K0962.D
 Acq: 17 Mar 2021 5:12 pm

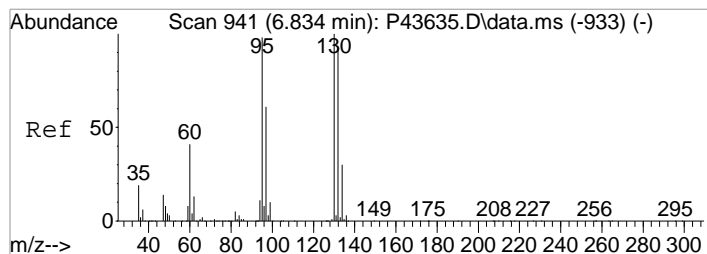
Tgt Ion	Resp	Lower	Upper
96	24460		
96	100		
61	104.2	108.1	148.1#



#35
 2-Butanone
 Concen: 1.59 ppb
 RT: 4.524 min Scan# 562
 Delta R.T. -0.000 min
 Lab File: K0962.D
 Acq: 17 Mar 2021 5:12 pm

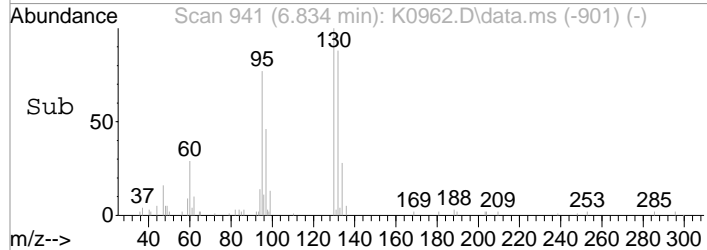
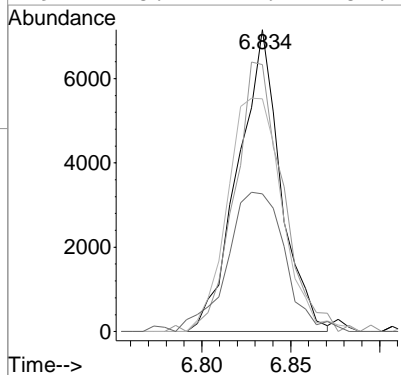
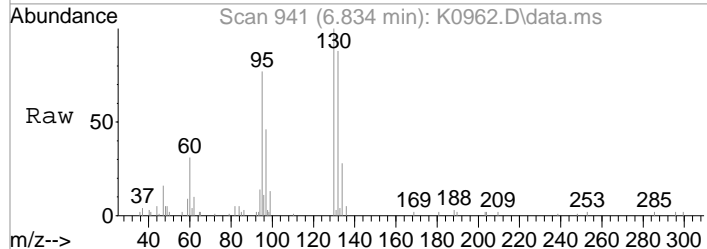
Tgt Ion	Resp	Lower	Upper
43	3312		
43	100		
57	0.0	0.0	28.5
72	33.1	10.9	50.9





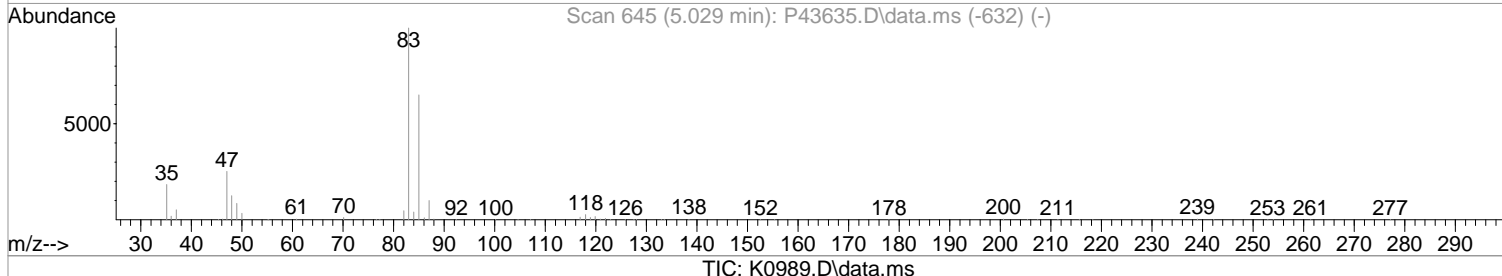
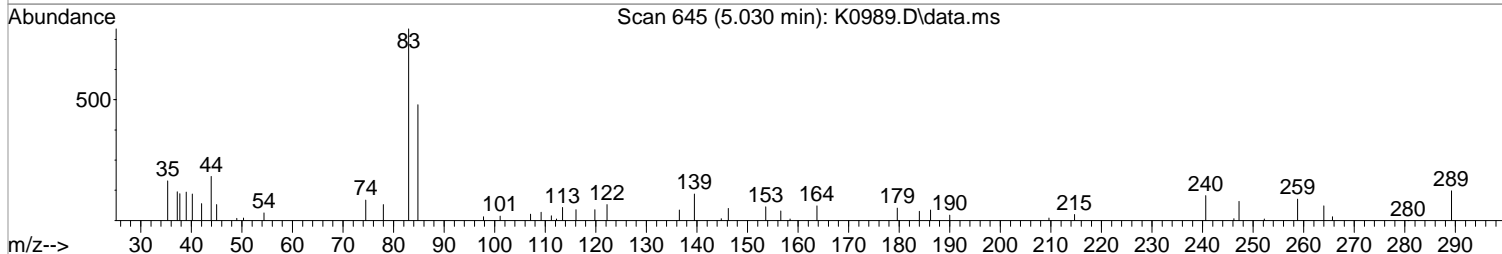
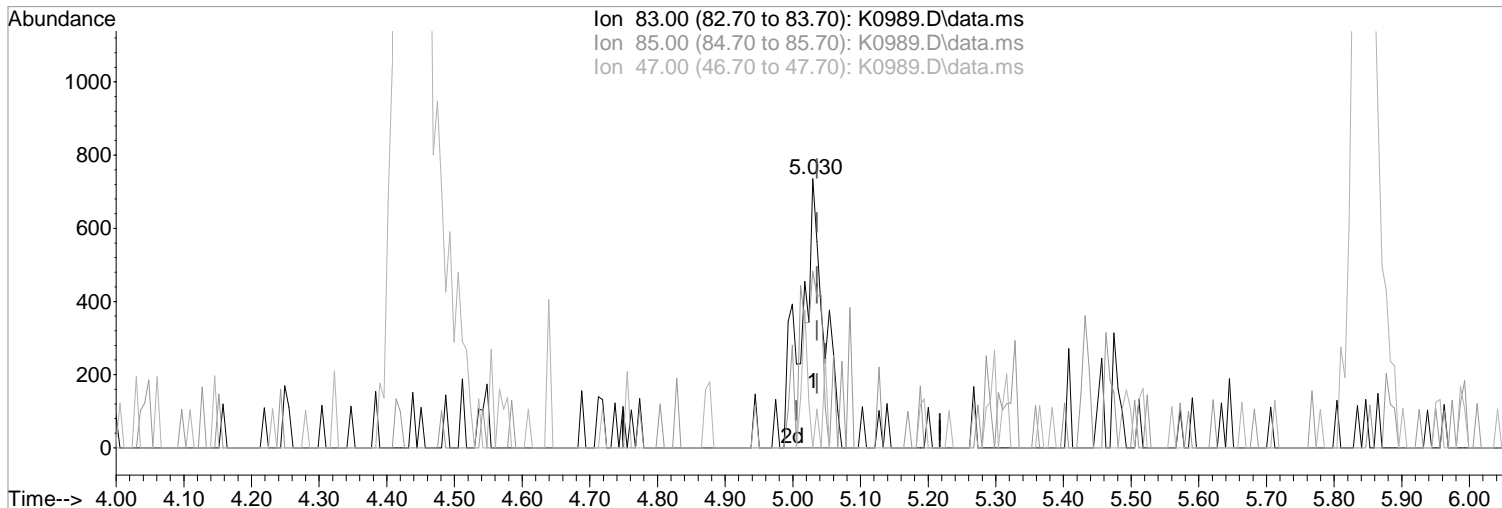
#54
 Trichloroethene
 Concen: 3.33 ppb
 RT: 6.834 min Scan# 941
 Delta R.T. -0.006 min
 Lab File: K0962.D
 Acq: 17 Mar 2021 5:12 pm

Tgt Ion	Resp	Lower	Upper
130	11949		
130	100		
132	88.4	73.4	113.4
95	77.1	78.0	118.0#
97	48.7	41.4	81.4



Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0989.D
Acq On : 18 Mar 2021 3:32 pm
Operator : KRuest
Sample : R2102165-005|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 15:55:29 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(40) Chloroform (P)

5.030min (-0.006) 0.29 ppb m

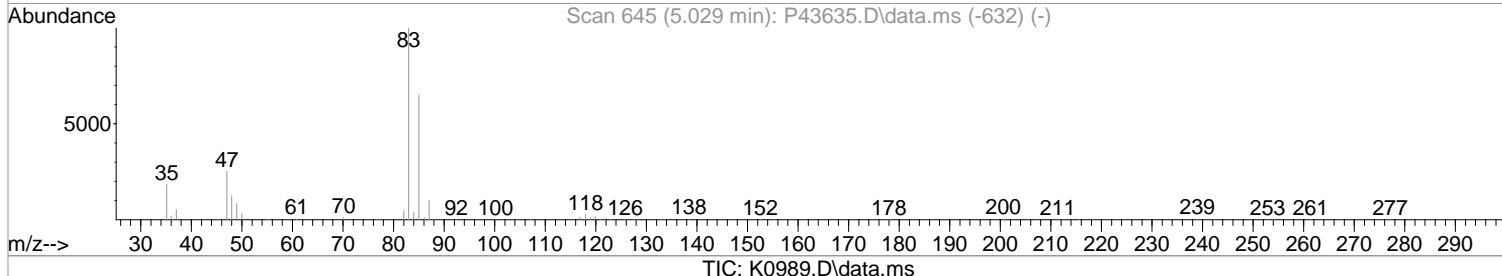
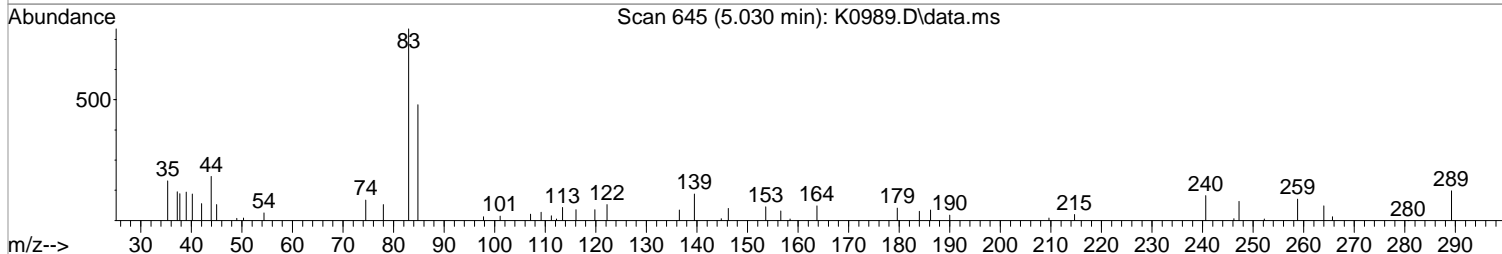
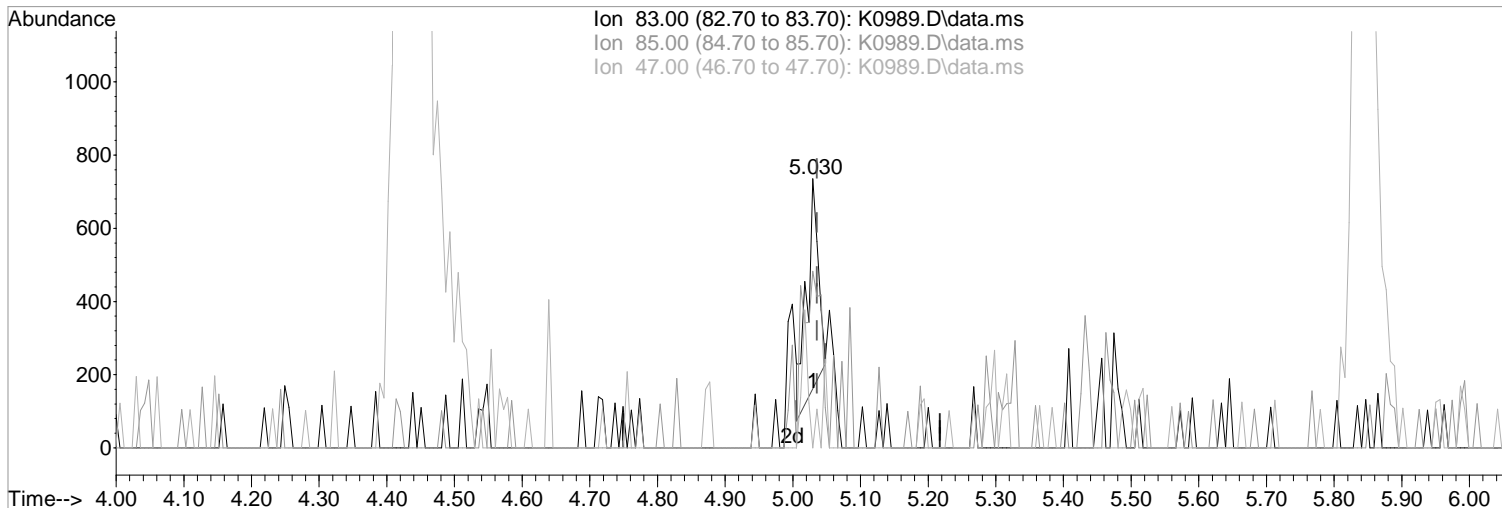
response 1701

Ion	Exp%	Act%
83.00	100	100
85.00	65.00	65.71
47.00	25.10	0.00#
0.00	0.00	0.00

Manual Integration:
After
Split Peak
03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0989.D
Acq On : 18 Mar 2021 3:32 pm
Operator : KRuest
Sample : R2102165-005|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 15:55:29 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration

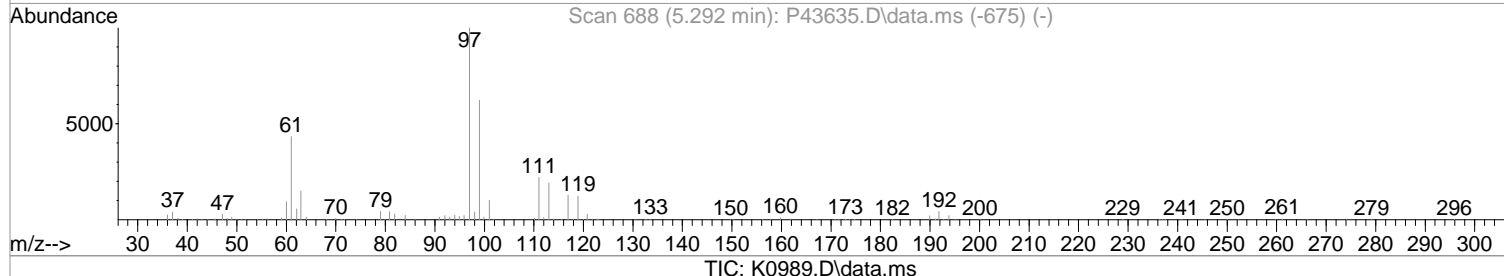
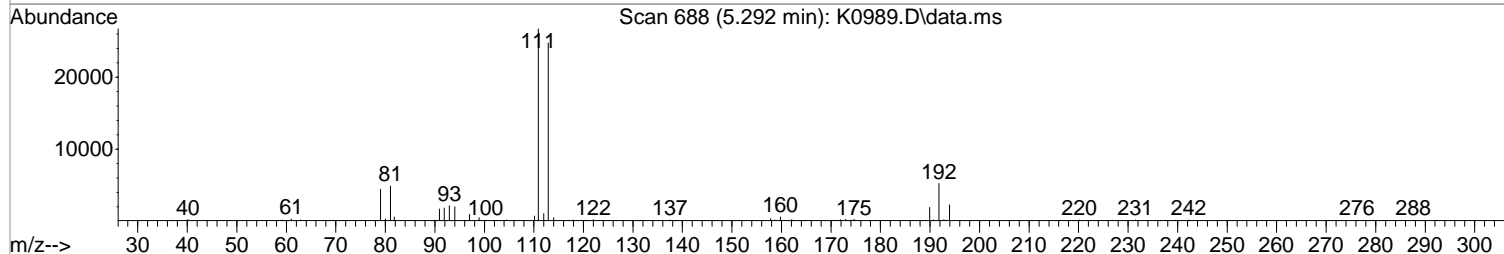
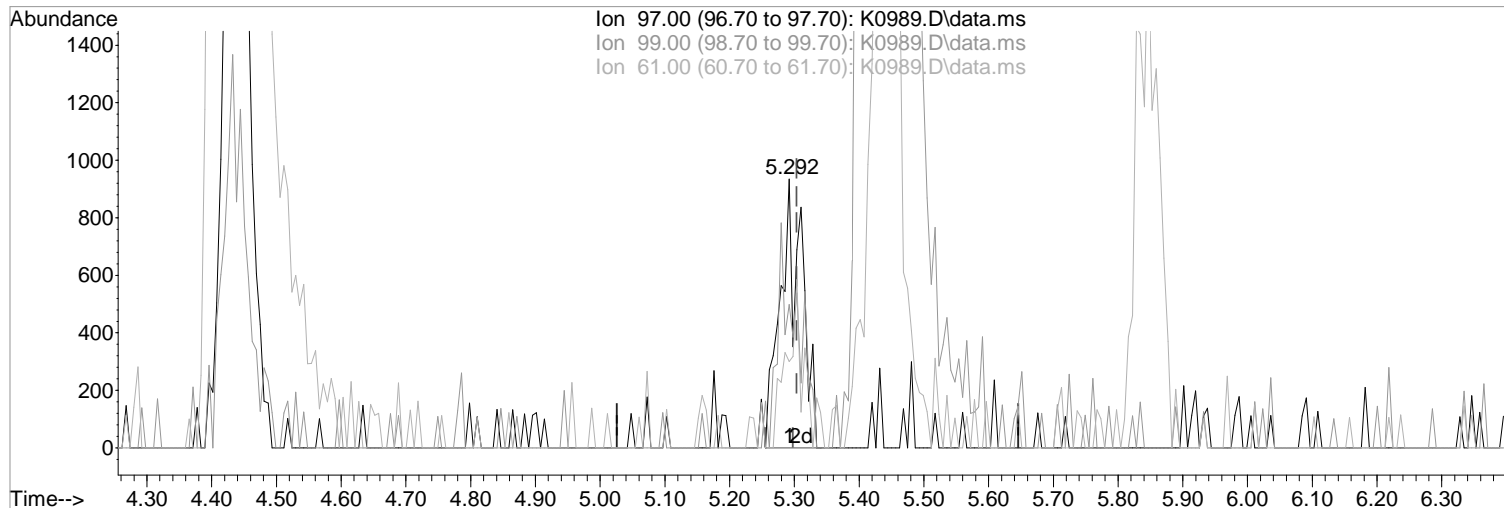


(40) Chloroform (P)
5.030min (-0.006) 0.12 ppb
response 692
Ion Exp% Act%
83.00 100 100
85.00 65.00 65.71
47.00 25.10 0.00#
0.00 0.00 0.00

Manual Integration:
Before
03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0989.D
Acq On : 18 Mar 2021 3:32 pm
Operator : KRuest
Sample : R2102165-005|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 15:55:29 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.292min (-0.012) 0.40 ppb m
response 2198

Ion	Exp%	Act%
97.00	100	100
99.00	62.10	53.26
61.00	43.30	32.09
0.00	0.00	0.00

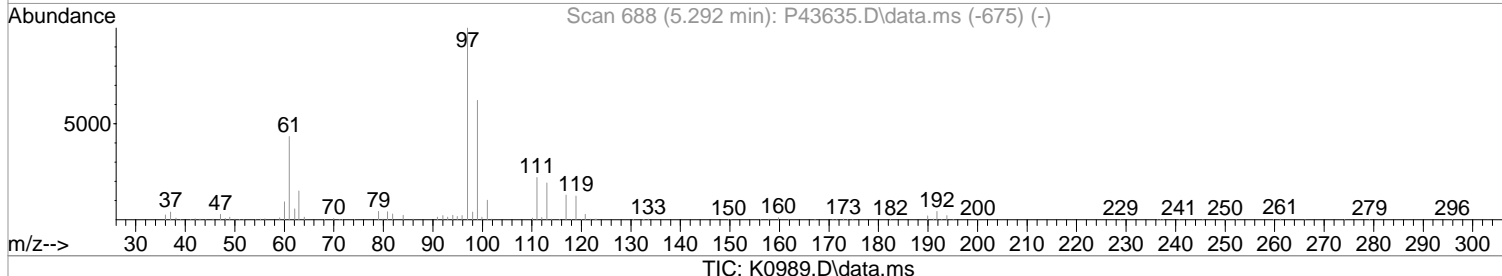
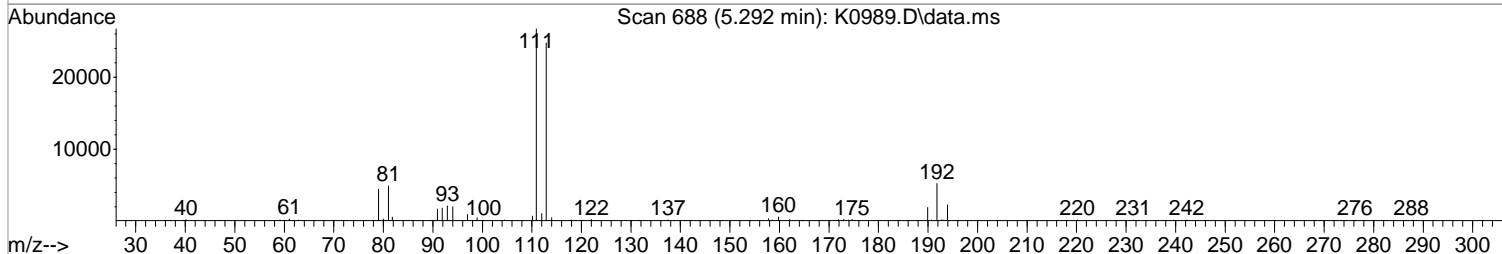
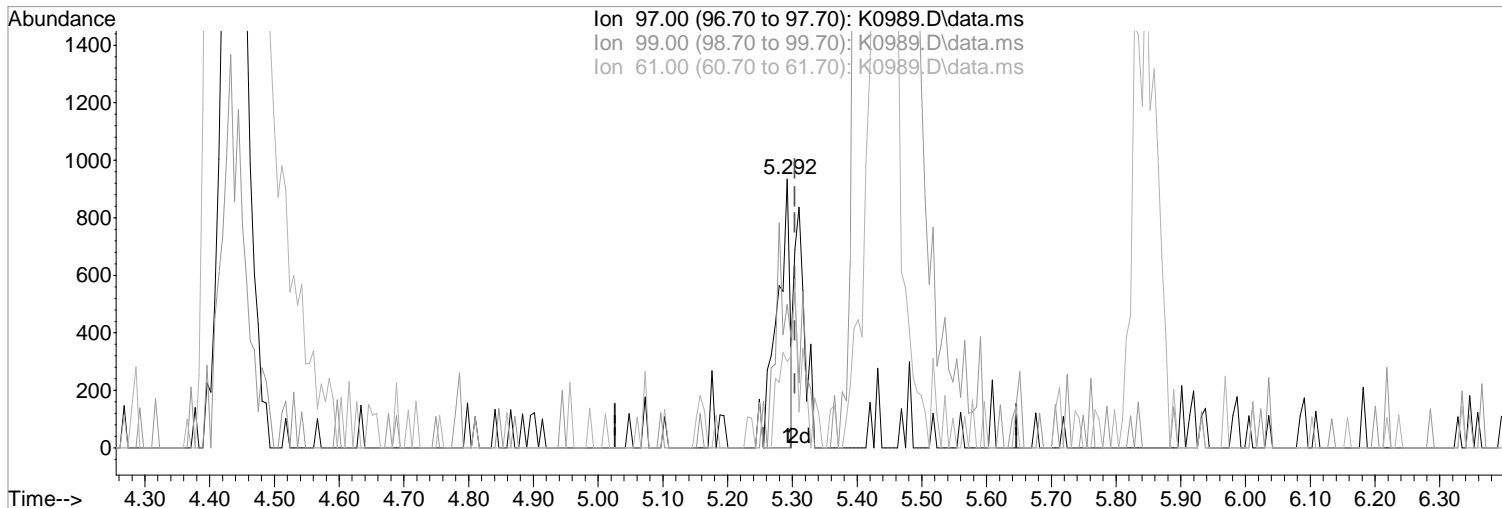
Manual Integration:

After
Split Peak
03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0989.D
Acq On : 18 Mar 2021 3:32 pm
Operator : KRuest
Sample : R2102165-005|2.5
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 15:55:29 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

Manual Integration:

5.292min (-0.012) 0.23 ppb

Before

response 1250

Ion	Exp%	Act%
97.00	100	100
99.00	62.10	53.26
61.00	43.30	32.09
0.00	0.00	0.00

03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
 Data File : K0989.D
 Acq On : 18 Mar 2021 3:32 pm
 Operator : KRuest
 Sample : R2102165-005|2.5 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 17:39:39 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

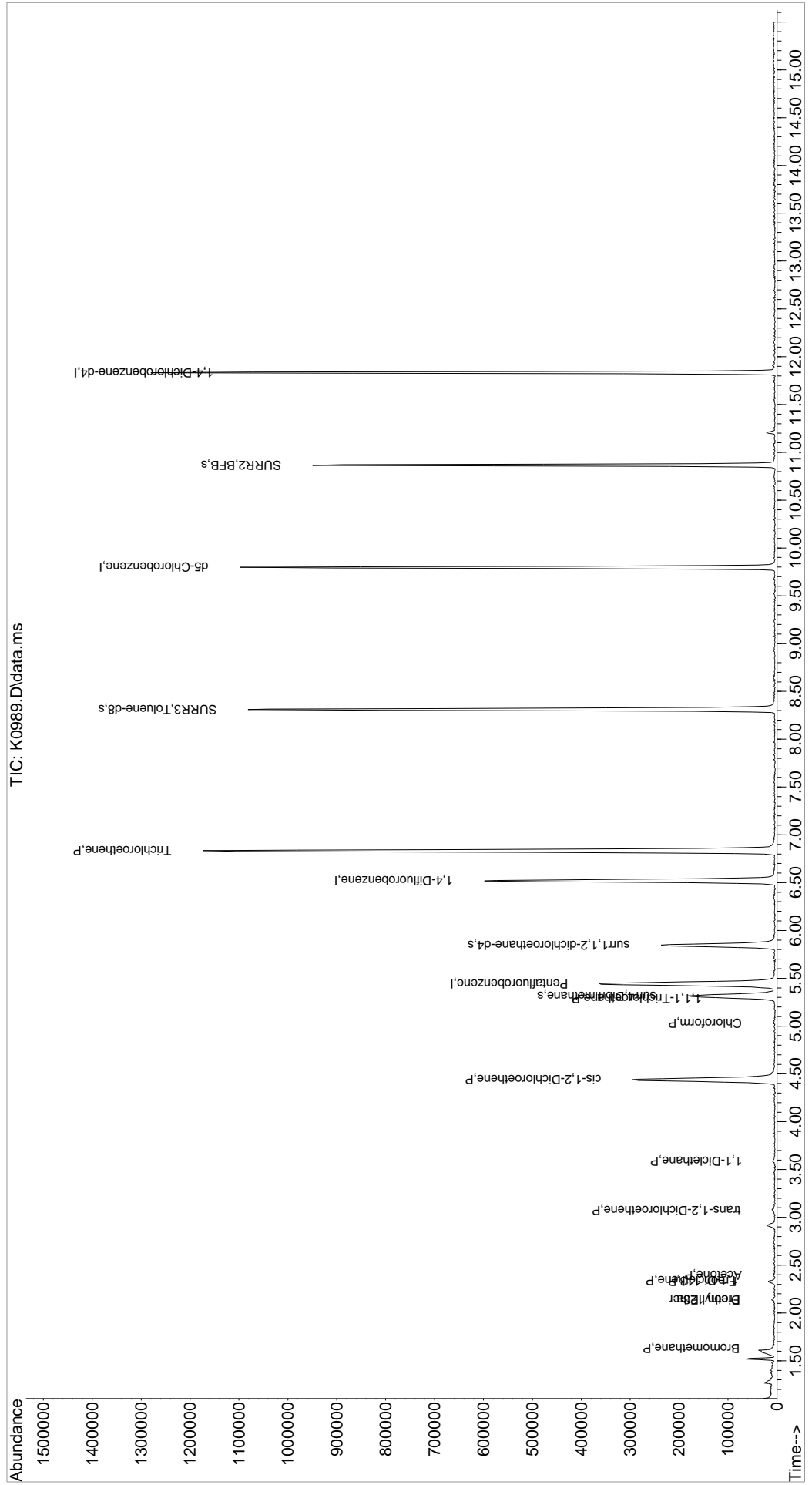
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	332974	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.517	114	519736	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	484302	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	246892	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	146623	50.97	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	101.94%		
48) surr1,1,2-dichloroetha...	5.847	65	199361	54.88	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	109.76%		
65) SURR3,Toluene-d8	8.310	98	676645	53.55	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	107.10%		
70) SURR2,BFB	10.864	95	246382	49.17	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	98.34%		
Target Compounds						
5) Bromomethane	1.628	94	1100	0.28	ppb	98
9) Diethyl Ether	2.140	59	1475	0.52	ppb	# 76
10) Freon 123a	2.140	67	1002	0.28	ppb	# 56
13) 1,1-Dicethene	2.335	96	2626	0.99	ppb	# 57
14) Freon 113	2.329	101	2042	0.62	ppb	94
15) Acetone	2.396	43	2281	1.50	ppb	84
26) trans-1,2-Dichloroethene	3.073	96	1919	0.63	ppb	# 74
28) 1,1-Dicethane	3.591	63	2687	0.48	ppb	95
34) cis-1,2-Dichloroethene	4.438	96	170669	46.75	ppb	93
40) Chloroform	5.030	83	1701m	0.29	ppb	
41) 1,1,1-Trichloroethane	5.292	97	2198m	0.40	ppb	
54) Trichloroethene	6.834	130	404003	106.28	ppb	98

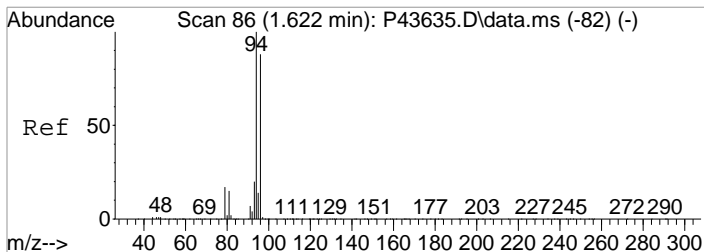
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\031821\
Data File : K0989.D
Acq On : 18 Mar 2021 3:32 pm
Operator : KRuest
Sample : R2102165-005|2.5
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

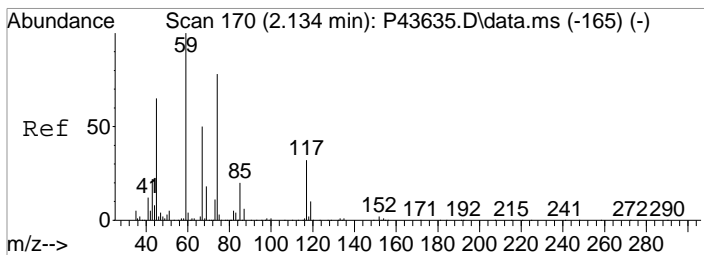
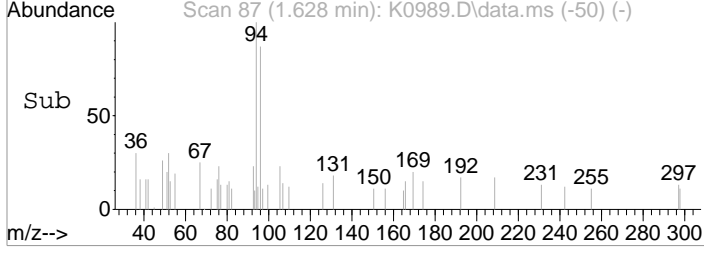
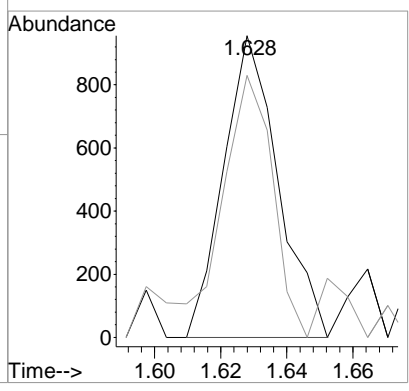
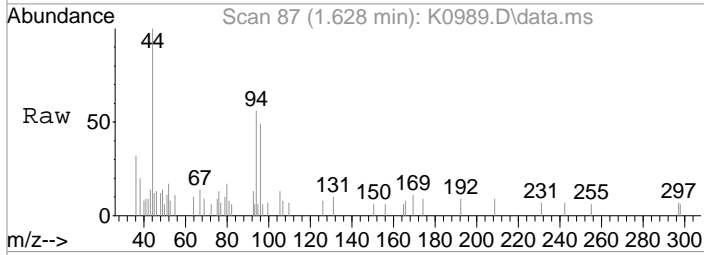
Quant Time: Mar 18 17:39:39 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration





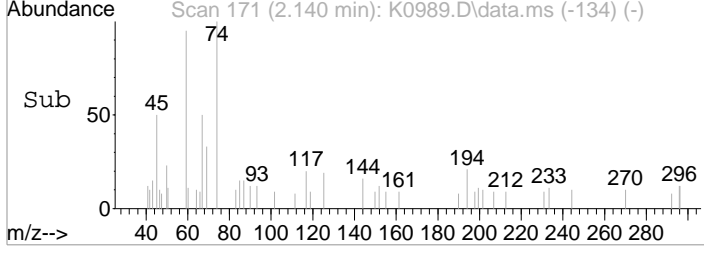
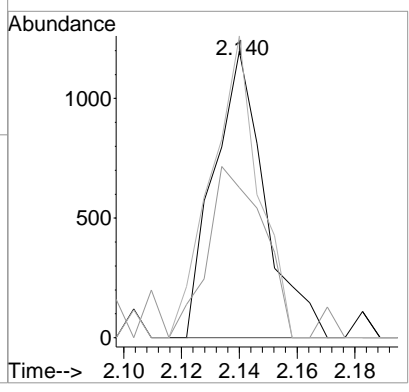
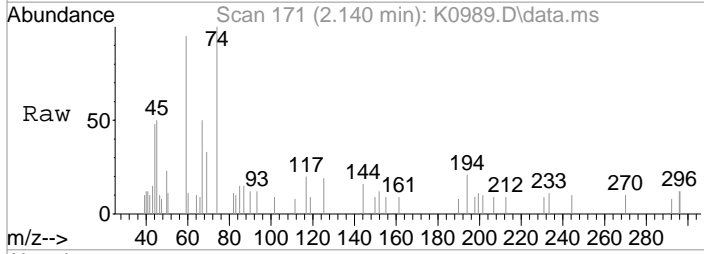
#5
 Bromomethane
 Concen: 0.28 ppb
 RT: 1.628 min Scan# 87
 Delta R.T. 0.000 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

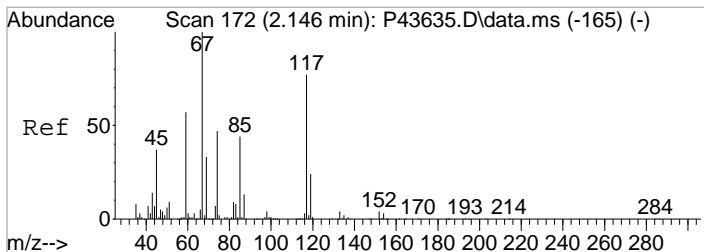
Tgt Ion	94	96	Resp	1100	Lower	Upper
Ion Ratio	100	86.8			68.3	108.3



#9
 Diethyl Ether
 Concen: 0.52 ppb
 RT: 2.140 min Scan# 171
 Delta R.T. -0.006 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

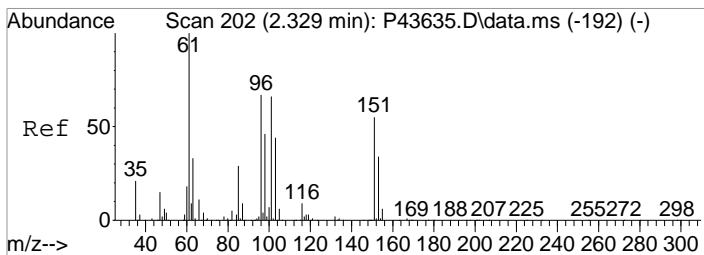
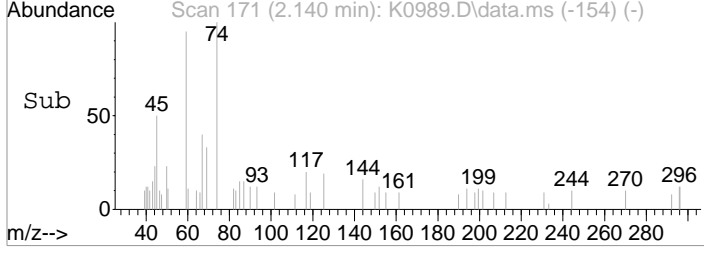
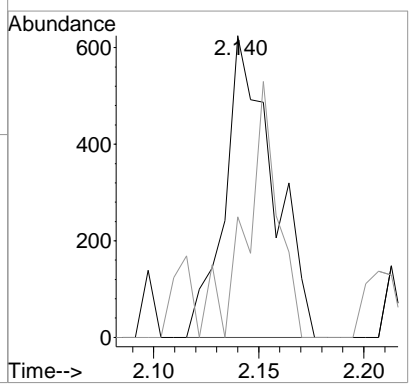
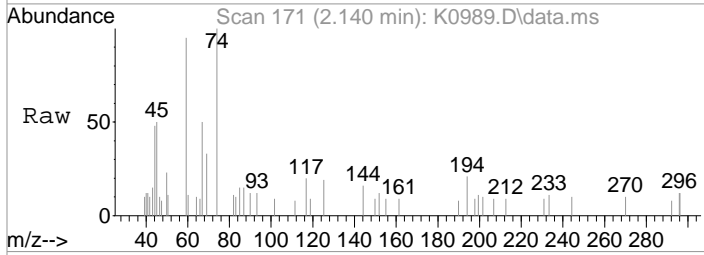
Tgt Ion	59	74	Resp	1475	Lower	Upper
Ion Ratio	100	105.4			44.9	84.9
					58.1	98.1#





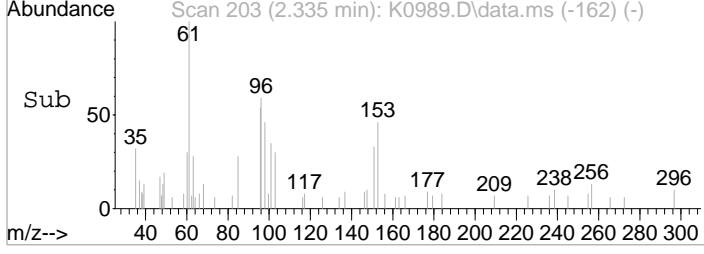
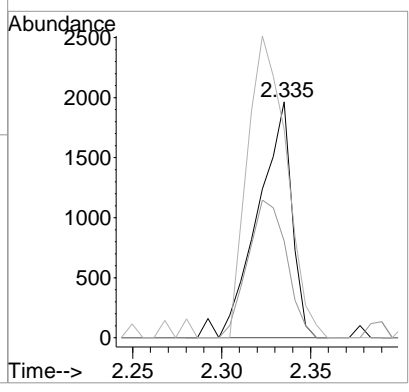
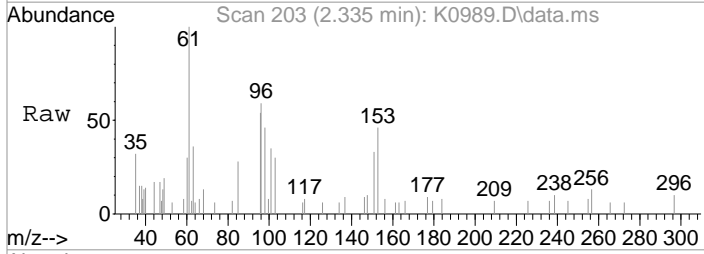
#10
 Freon 123a
 Concen: 0.28 ppb
 RT: 2.140 min Scan# 171
 Delta R.T. -0.012 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

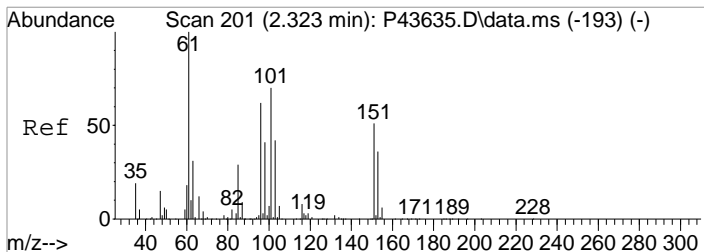
Tgt Ion	Resp	Lower	Upper
67	1002		
67	100		
117	40.0	58.5	98.5#



#13
 1,1-Diclcethene
 Concen: 0.99 ppb
 RT: 2.335 min Scan# 203
 Delta R.T. 0.000 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

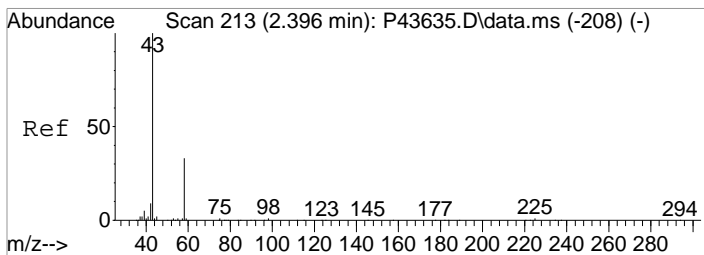
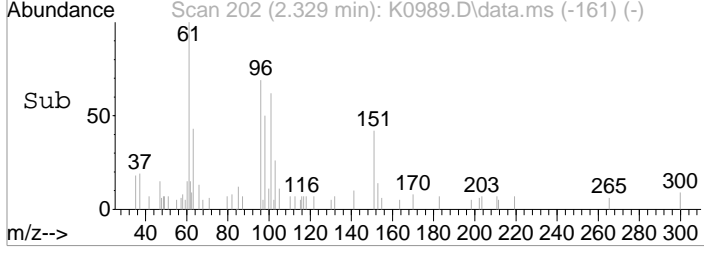
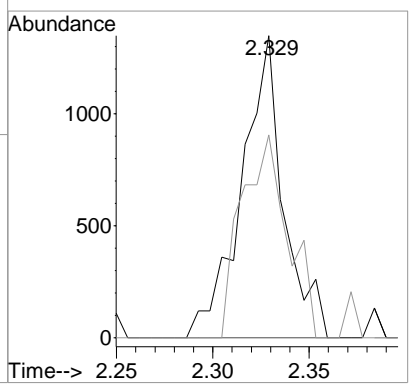
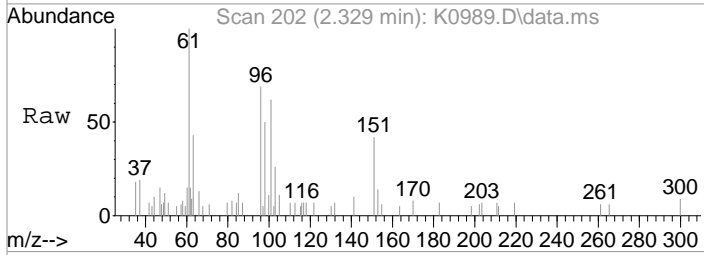
Tgt Ion	Resp	Lower	Upper
96	2626		
96	100		
98	41.0	48.3	88.3#
61	88.4	129.1	169.1#





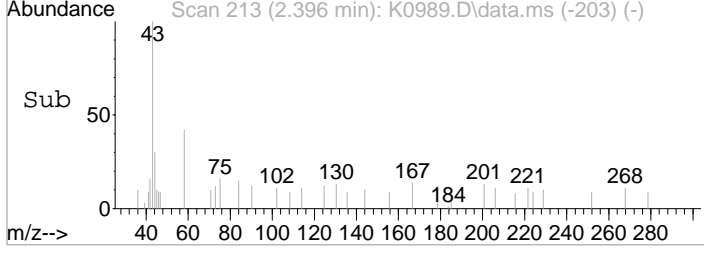
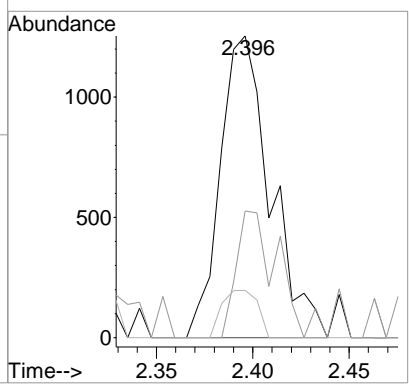
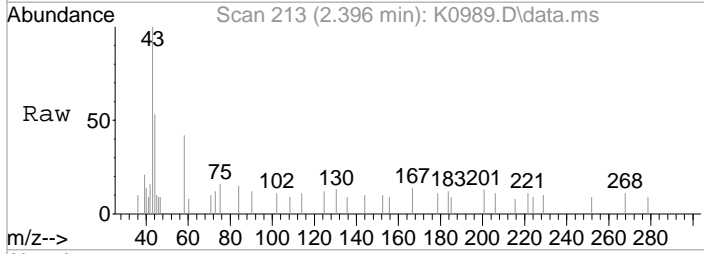
#14
 Freon 113
 Concen: 0.62 ppb
 RT: 2.329 min Scan# 202
 Delta R.T. -0.006 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

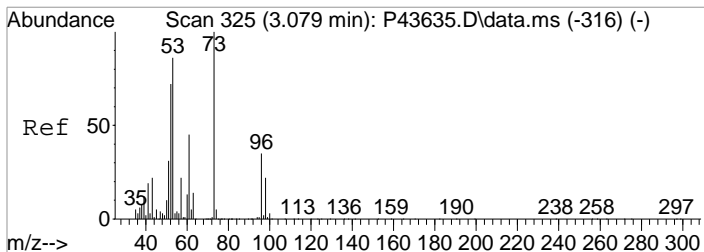
Tgt Ion	Resp	Lower	Upper
101	2042		
101	100		
151	67.2	52.5	92.5



#15
 Acetone
 Concen: 1.50 ppb
 RT: 2.396 min Scan# 213
 Delta R.T. -0.012 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

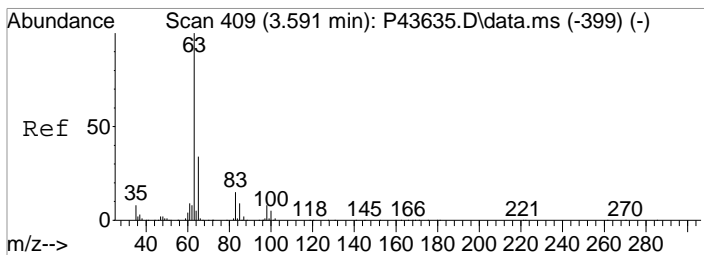
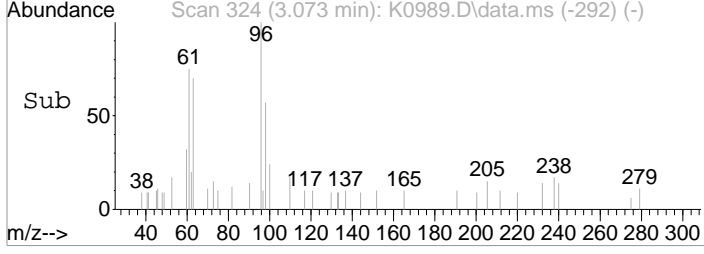
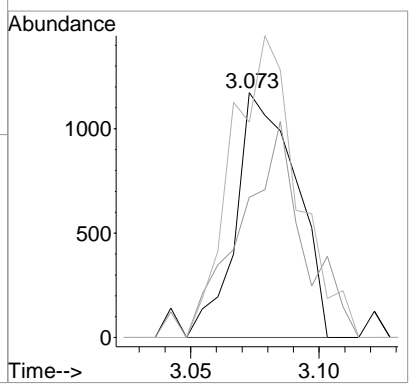
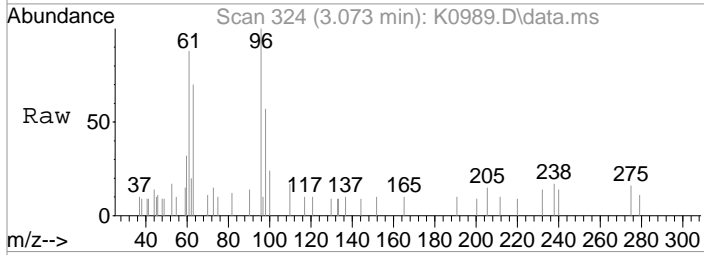
Tgt Ion	Resp	Lower	Upper
43	2281		
43	100		
58	42.0	12.9	52.9
42	15.7	0.0	29.5





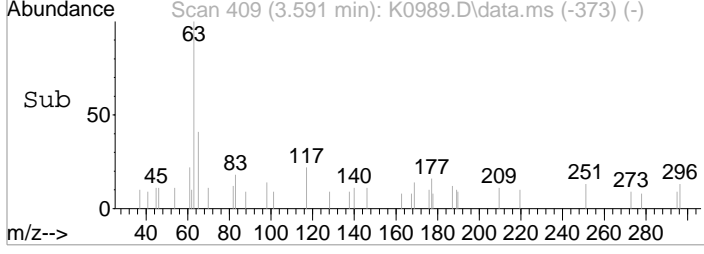
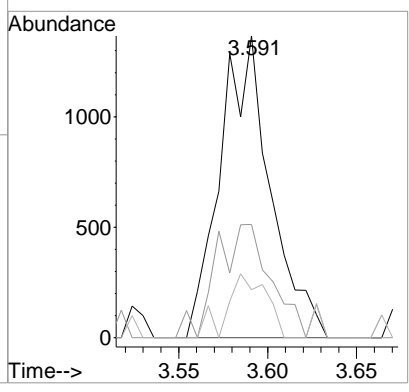
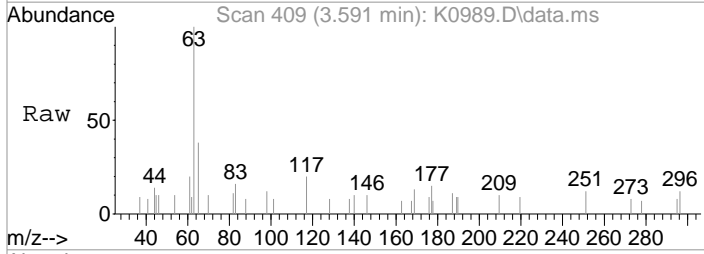
#26
 trans-1,2-Dichloroethene
 Concen: 0.63 ppb
 RT: 3.073 min Scan# 324
 Delta R.T. -0.012 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

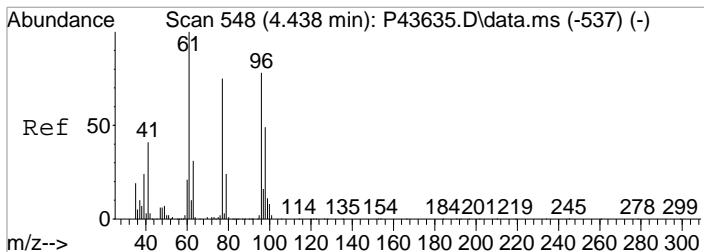
Tgt Ion	Resp	Lower	Upper
96	1919		
96	100		
98	57.3	44.3	84.3
61	87.9	108.6	148.6#



#28
 1,1-Diclcethane
 Concen: 0.48 ppb
 RT: 3.591 min Scan# 409
 Delta R.T. -0.006 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

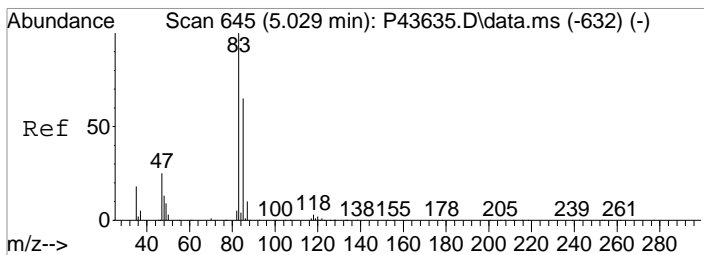
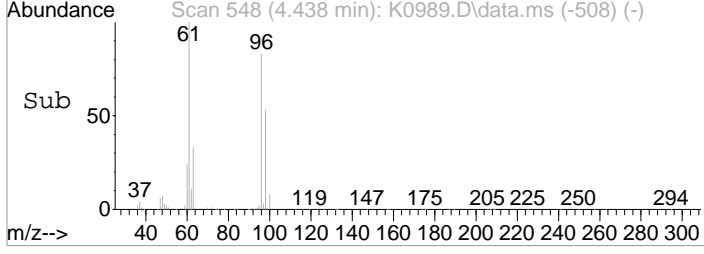
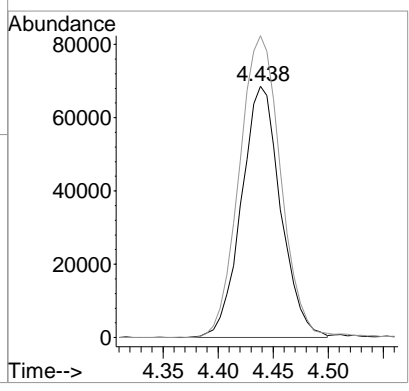
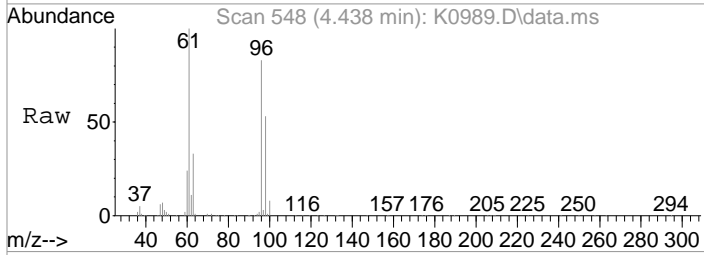
Tgt Ion	Resp	Lower	Upper
63	2687		
63	100		
65	37.5	13.9	53.9
83	15.9	0.0	35.2





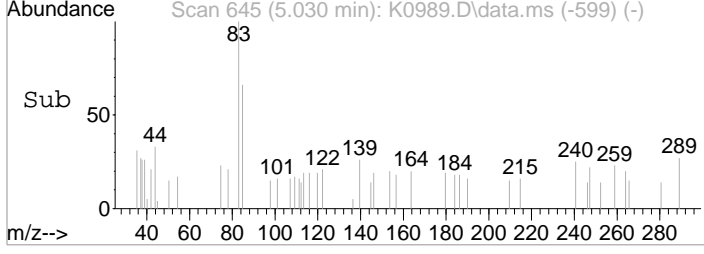
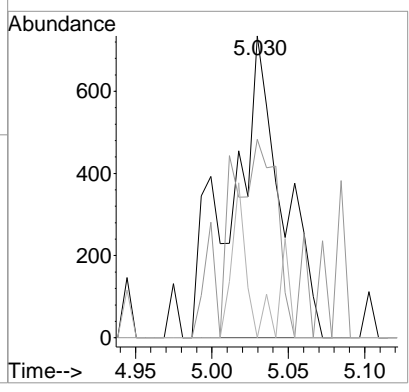
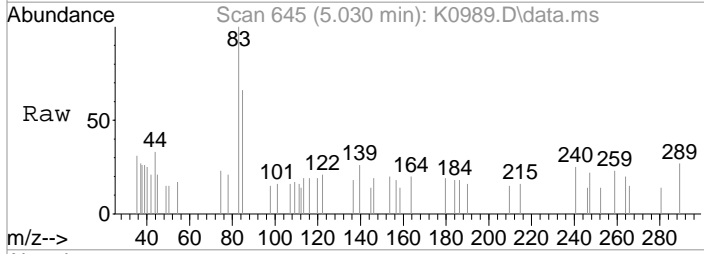
#34
 cis-1,2-Dichloroethene
 Concen: 46.75 ppb
 RT: 4.438 min Scan# 548
 Delta R.T. -0.012 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

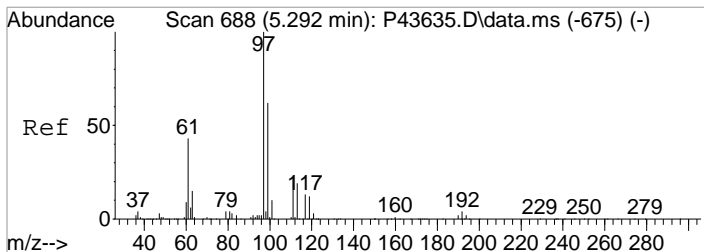
Tgt Ion	Resp	Lower	Upper
96	170669		
96	100		
61	120.1	108.1	148.1



#40
 Chloroform
 Concen: 0.29 ppb m
 RT: 5.030 min Scan# 645
 Delta R.T. -0.006 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

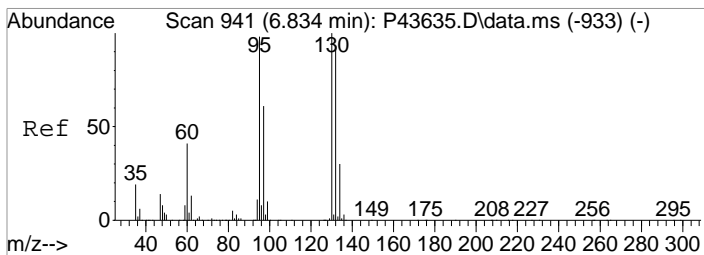
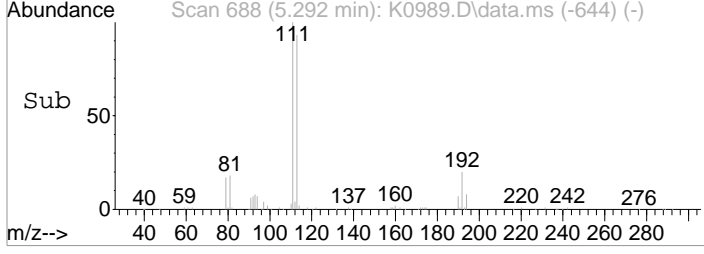
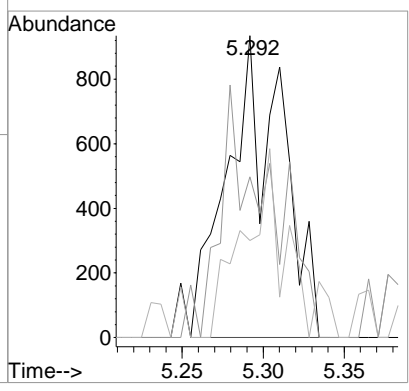
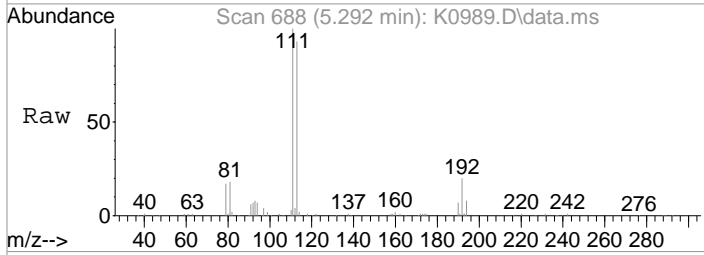
Tgt Ion	Resp	Lower	Upper
83	1701		
83	100		
85	65.7	45.0	85.0
47	0.0	5.1	45.1#





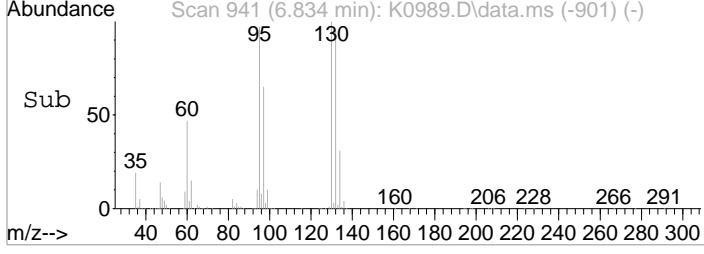
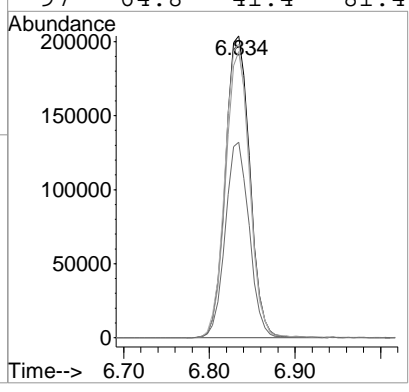
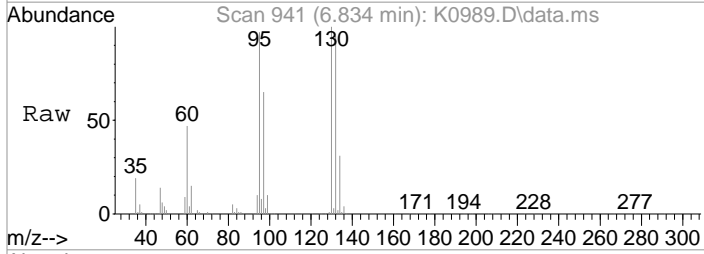
#41
 1,1,1-Trichloroethane
 Concen: 0.40 ppb m
 RT: 5.292 min Scan# 688
 Delta R.T. -0.012 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

Tgt Ion	Resp	Lower	Upper
97	100		
99	53.3	42.1	82.1
61	32.1	23.3	63.3



#54
 Trichloroethene
 Concen: 106.28 ppb
 RT: 6.834 min Scan# 941
 Delta R.T. -0.006 min
 Lab File: K0989.D
 Acq: 18 Mar 2021 3:32 pm

Tgt Ion	Resp	Lower	Upper
130	100		
132	94.7	73.4	113.4
95	97.3	78.0	118.0
97	64.8	41.4	81.4



Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0959.D
 Acq On : 17 Mar 2021 4:06 pm
 Operator : KRuest
 Sample : R2102165-006|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 18 10:47:44 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

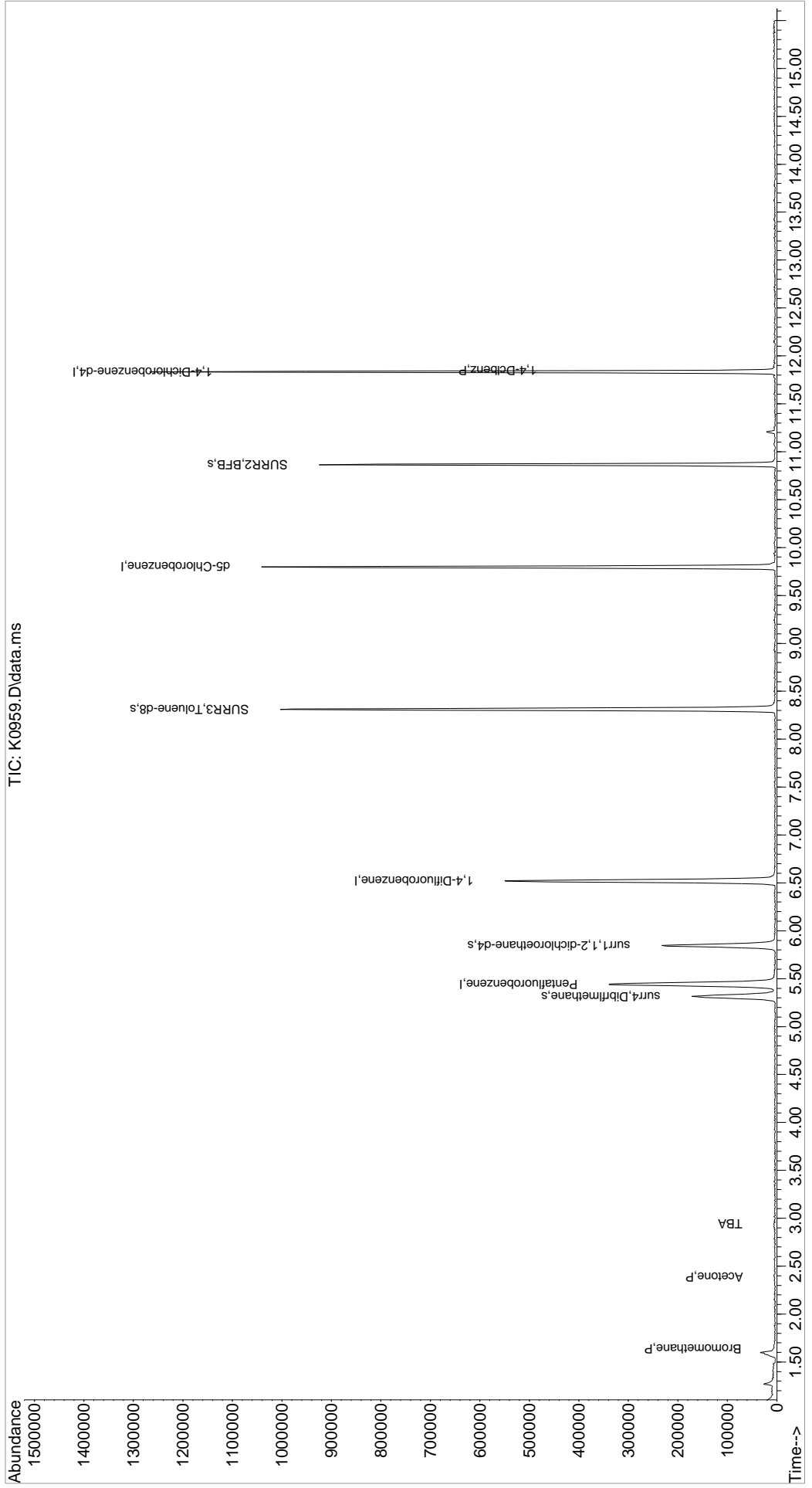
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	309683	50.00	ppb	-0.01
43) 1,4-Difluorobenzene	6.523	114	491641	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	458004	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	239143	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	135246	49.70	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	99.40%	
48) surr1,1,2-dichloroetha...	5.846	65	185790	54.07	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.14%	
65) SURR3,Toluene-d8	8.309	98	628995	52.62	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	105.24%	
70) SURR2,BFB	10.864	95	231684	48.88	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.76%	
Target Compounds						
5) Bromomethane	1.634	94	818	0.22	ppb	Qvalue 93
15) Acetone	2.390	43	2142	1.52	ppb	71
23) TBA	2.945	59	1609	2.50	ppb	83
106) 1,4-Dclbenz	11.845	146	2009	0.22	ppb #	27

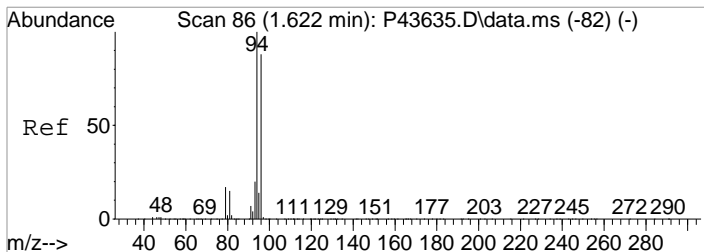
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0959.D
Acq On : 17 Mar 2021 4:06 pm
Operator : KRuest
Sample : R2102165-006|1.0
Misc : VERINA 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

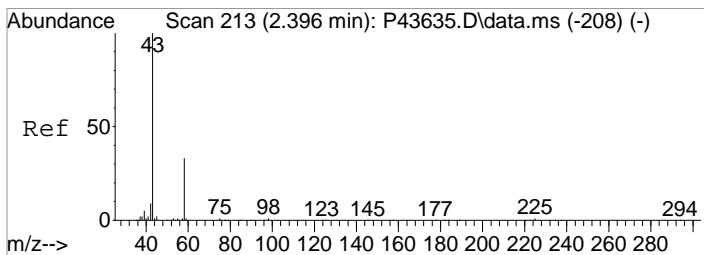
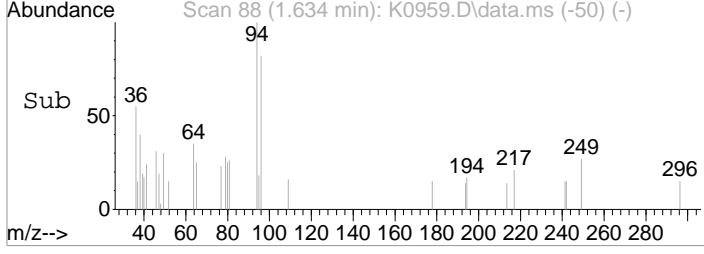
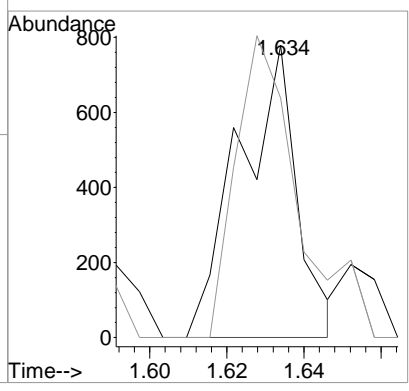
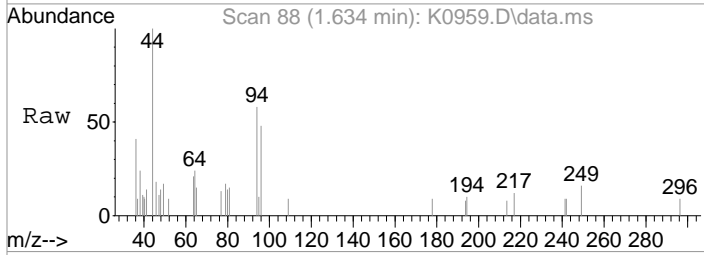
Quant Time: Mar 18 10:47:44 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration





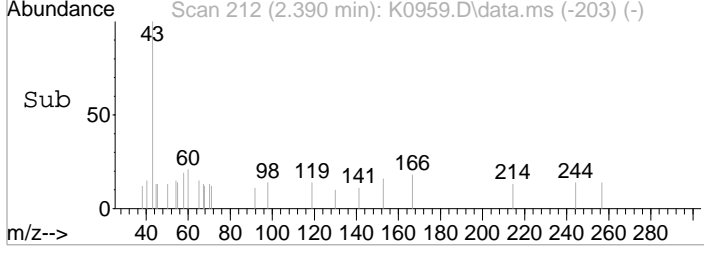
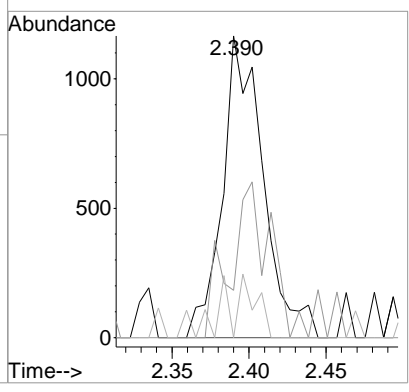
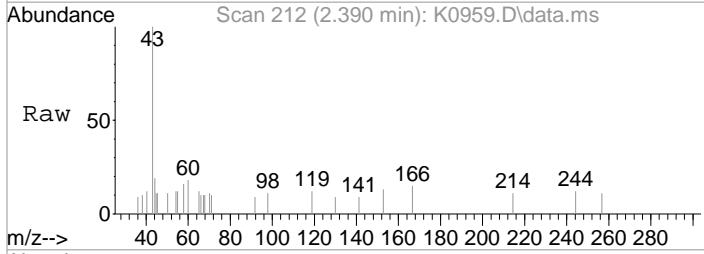
#5
 Bromomethane
 Concen: 0.22 ppb
 RT: 1.634 min Scan# 88
 Delta R.T. 0.006 min
 Lab File: K0959.D
 Acq: 17 Mar 2021 4:06 pm

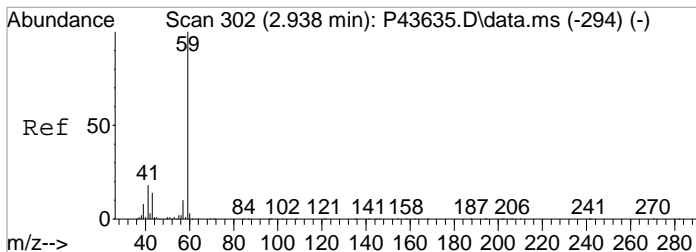
Tgt Ion	Resp	Lower	Upper
94	100		
96	81.9	68.3	108.3



#15
 Acetone
 Concen: 1.52 ppb
 RT: 2.390 min Scan# 212
 Delta R.T. -0.018 min
 Lab File: K0959.D
 Acq: 17 Mar 2021 4:06 pm

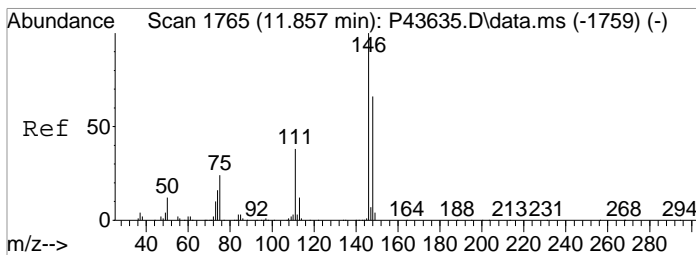
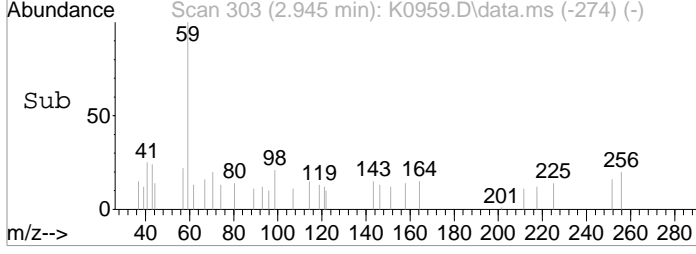
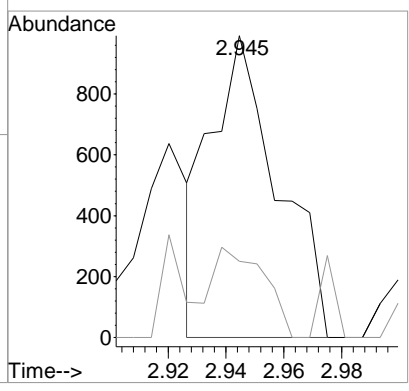
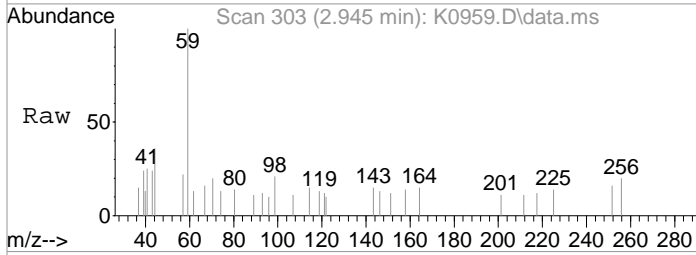
Tgt Ion	Resp	Lower	Upper
43	100		
58	15.7	12.9	52.9
42	0.0	0.0	29.5





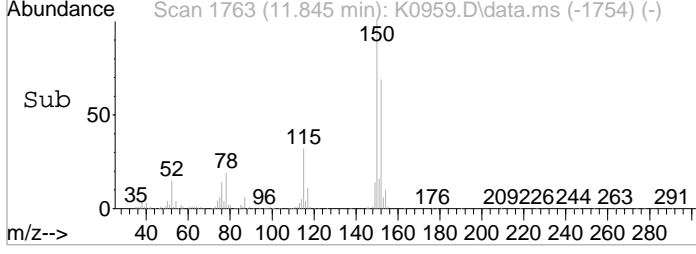
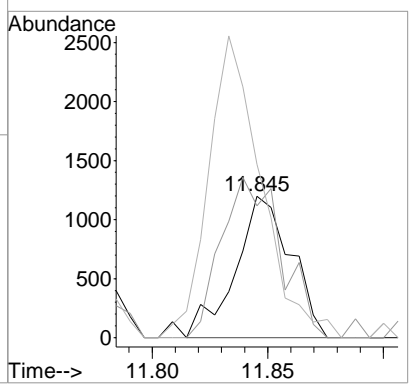
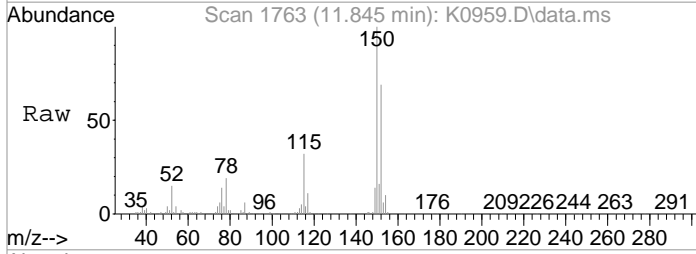
#23
 TBA
 Concen: 2.50 ppb
 RT: 2.945 min Scan# 303
 Delta R.T. -0.012 min
 Lab File: K0959.D
 Acq: 17 Mar 2021 4:06 pm

Tgt Ion	Resp	Lower	Upper
59	1609		
41	25.2	0.0	37.9



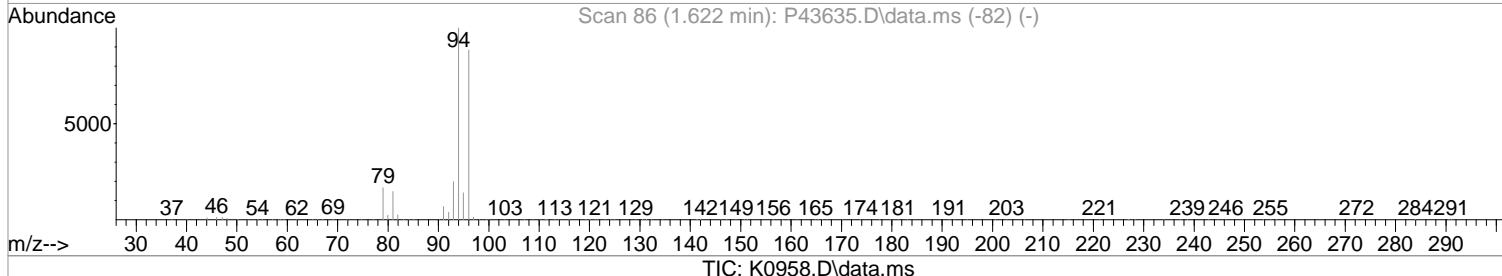
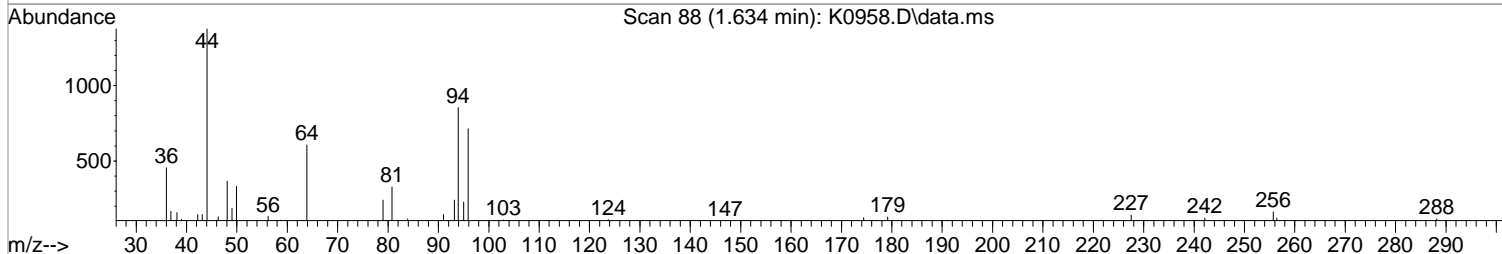
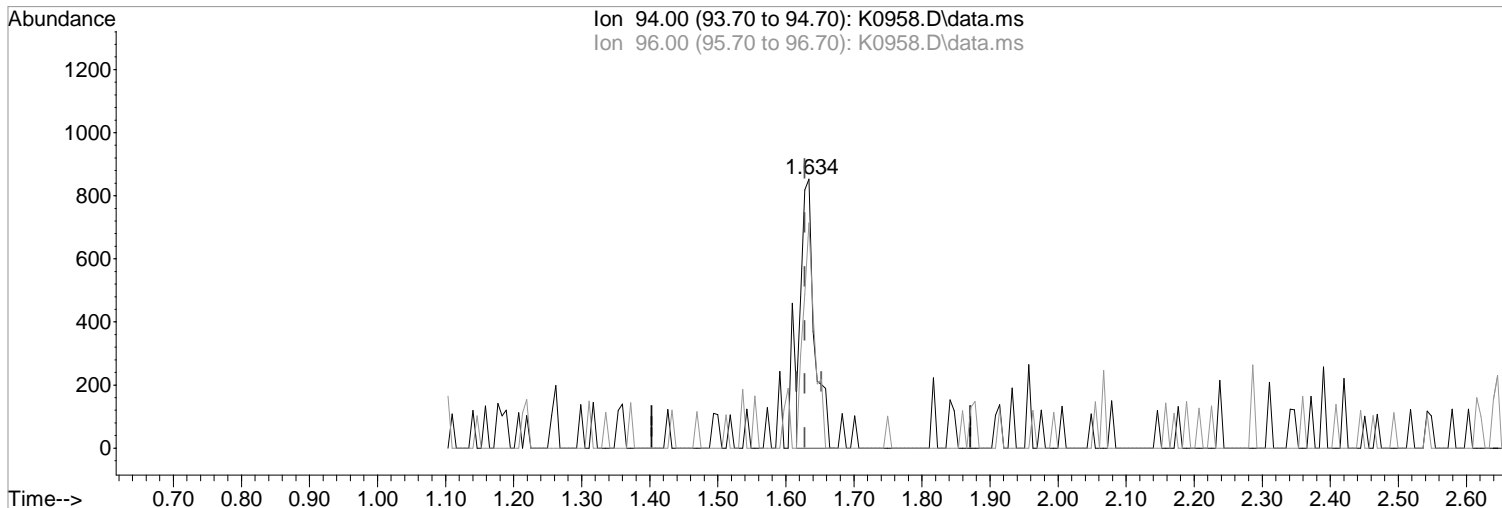
#106
 1,4-DcIbenz
 Concen: 0.22 ppb
 RT: 11.845 min Scan# 1763
 Delta R.T. -0.012 min
 Lab File: K0959.D
 Acq: 17 Mar 2021 4:06 pm

Tgt Ion	Resp	Lower	Upper
146	2009		
148	93.2	46.4	86.4#
111	122.6	17.9	57.9#



Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0958.D
Acq On : 17 Mar 2021 3:44 pm
Operator : KRuest
Sample : R2102165-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 09:32:01 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(5) Bromomethane (P)

1.634min (+0.006) 0.32 ppb m
response 1142

Ion	Exp%	Act%
94.00	100	100
96.00	88.30	83.70
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

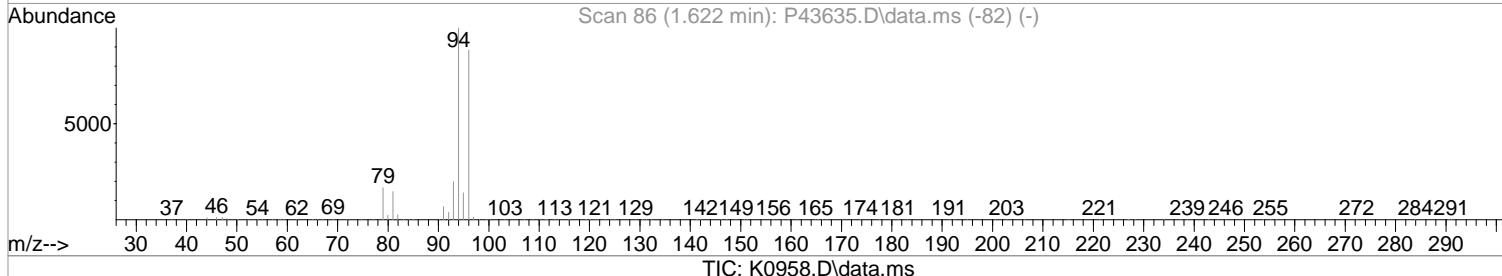
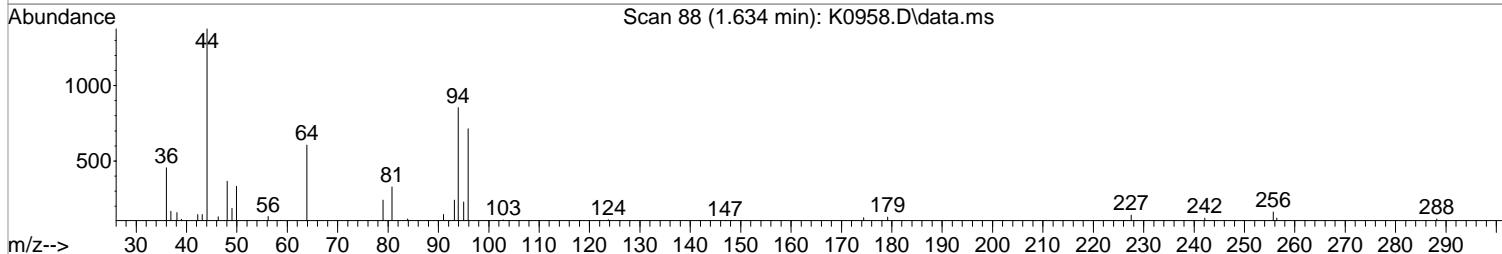
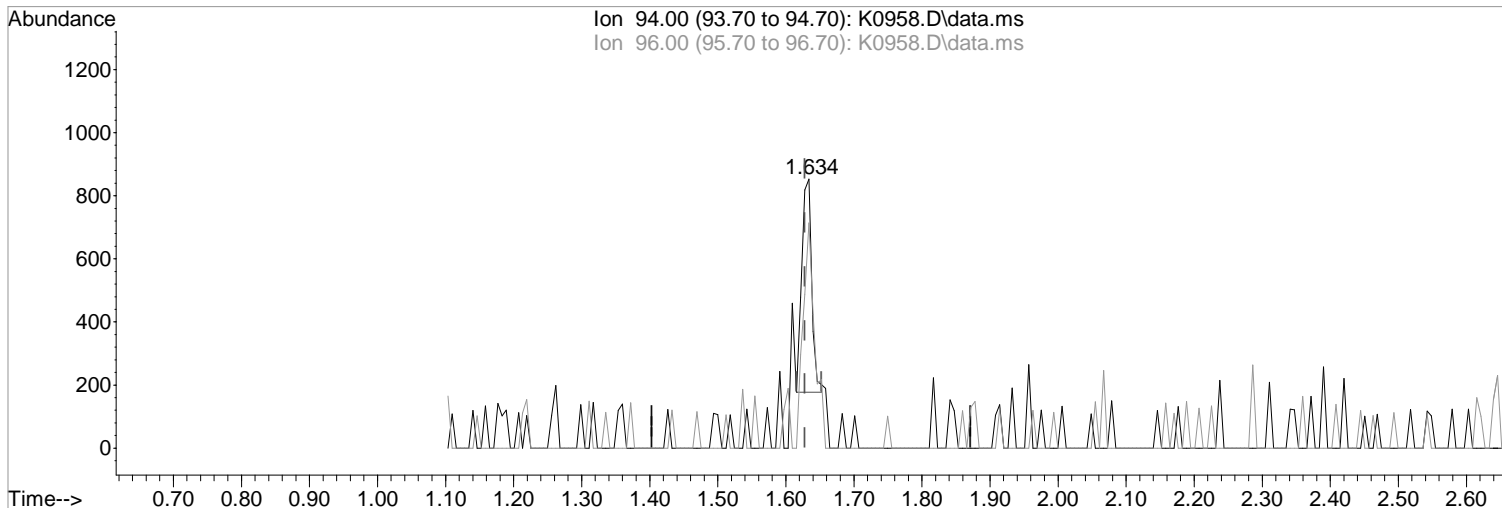
After

Poor integration.

03/18/21

Data Path : I:\ACQUDATA\msvoal2\Data\031721\
Data File : K0958.D
Acq On : 17 Mar 2021 3:44 pm
Operator : KRuest
Sample : R2102165-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 09:32:01 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.634min (+0.006) 0.19 ppb
response 685

Manual Integration:
Before

Ion	Exp%	Act%
94.00	100	100
96.00	88.30	83.70
0.00	0.00	0.00
0.00	0.00	0.00

03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0958.D
 Acq On : 17 Mar 2021 3:44 pm
 Operator : KRuest
 Sample : R2102165-008|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 10:45:53 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

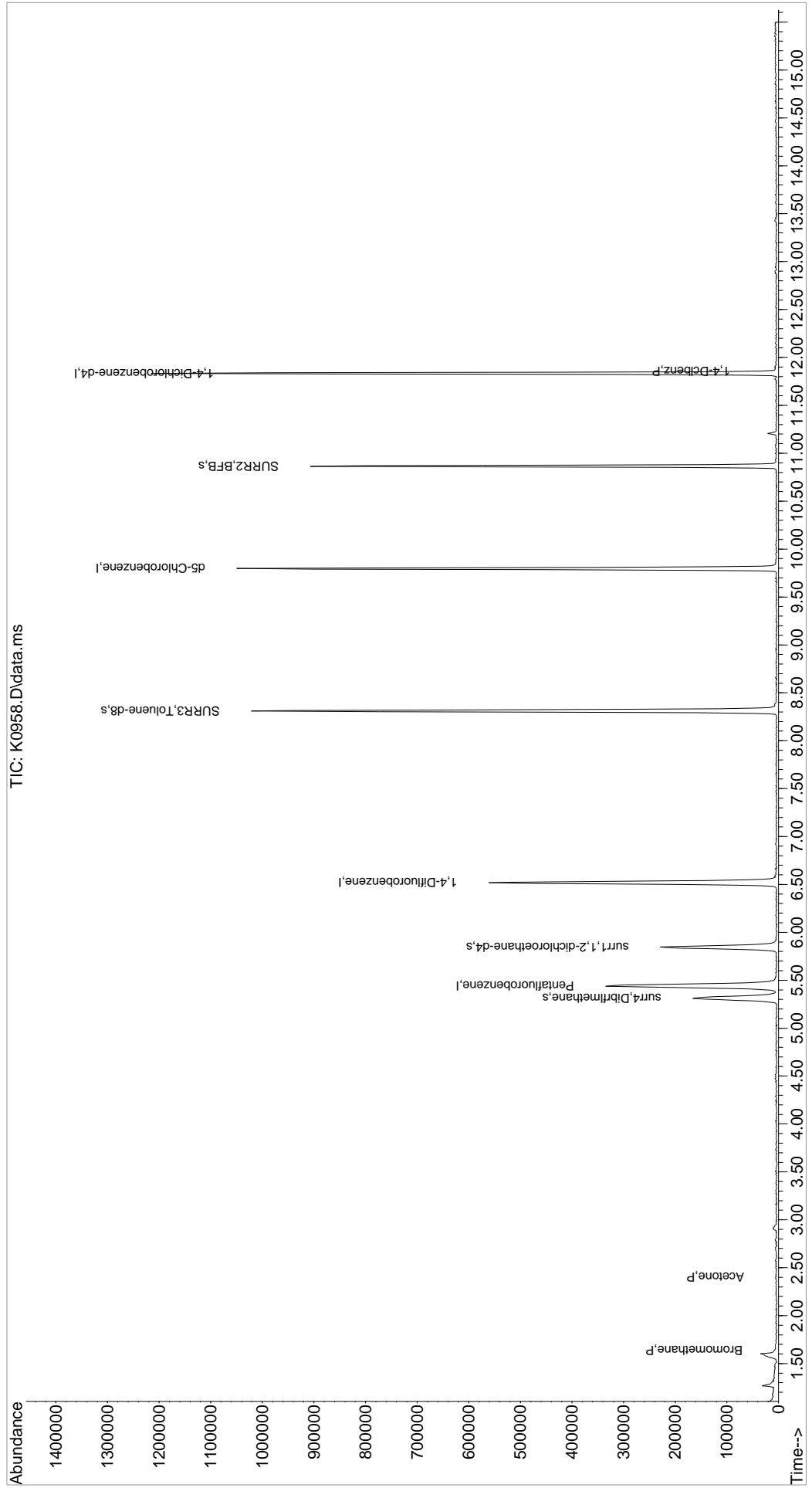
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	304770	50.00	ppb	-0.01
43) 1,4-Difluorobenzene	6.517	114	484654	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	452871	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	220703	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	131169	48.89	ppb	-0.01
Spiked Amount	50.000	Range 80 - 116	Recovery	=	97.78%	
48) surr1,1,2-dichloroetha...	5.847	65	185885	54.88	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	109.76%	
65) SURR3,Toluene-d8	8.309	98	623959	52.95	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	105.90%	
70) SURR2,BFB	10.864	95	229243	49.06	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.12%	
Target Compounds						
5) Bromomethane	1.634	94	1142m	0.32	ppb	Qvalue
15) Acetone	2.402	43	932	0.67	ppb	94
106) 1,4-Dclbenz	11.858	146	1801	0.21	ppb	# 59

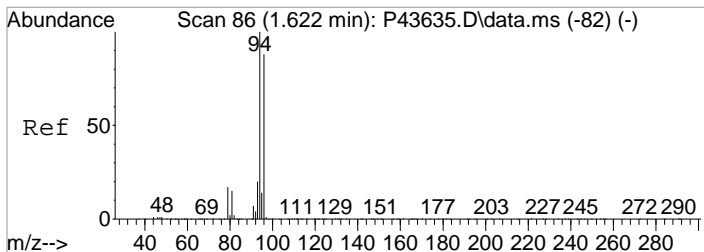
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0958.D
 Acq On : 17 Mar 2021 3:44 pm
 Operator : KRuest
 Sample : R2102165-008|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA-12

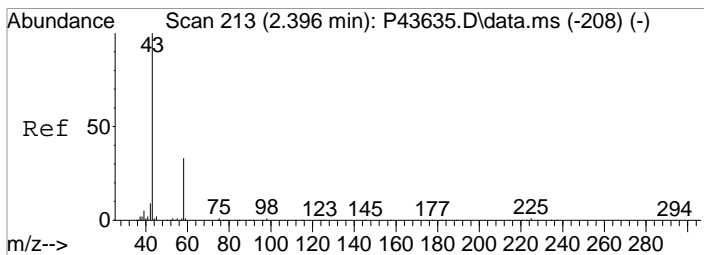
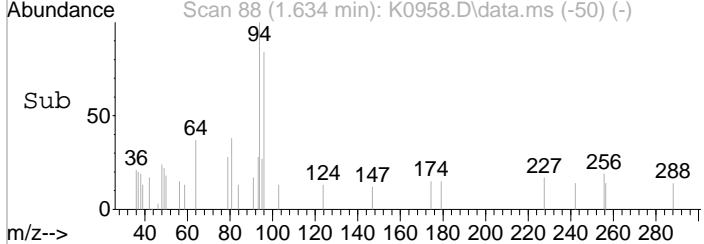
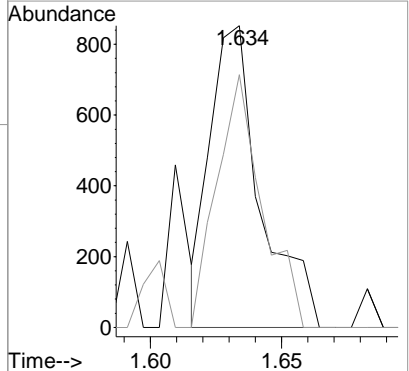
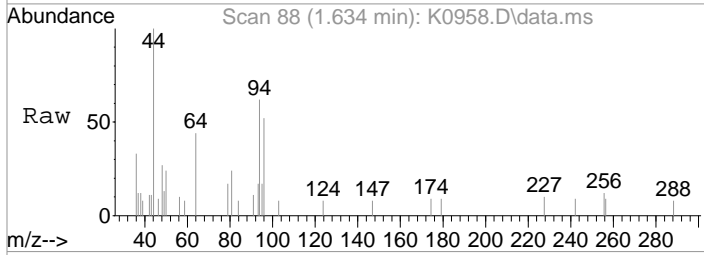
Quant Time: Mar 18 10:45:53 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration





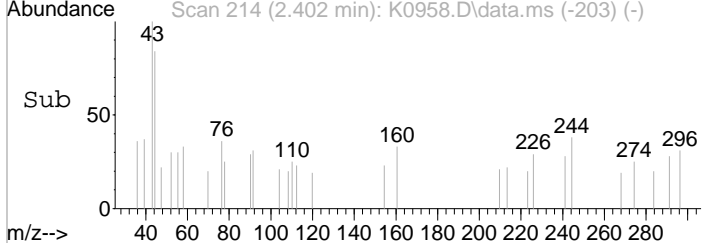
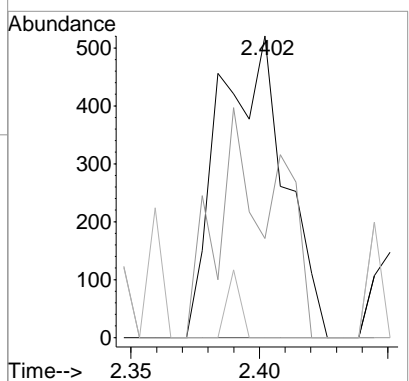
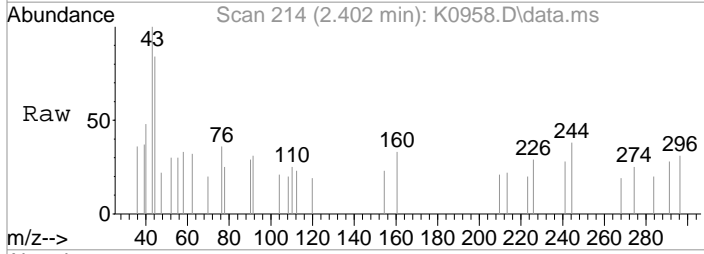
#5
 Bromomethane
 Concen: 0.32 ppb m
 RT: 1.634 min Scan# 88
 Delta R.T. 0.006 min
 Lab File: K0958.D
 Acq: 17 Mar 2021 3:44 pm

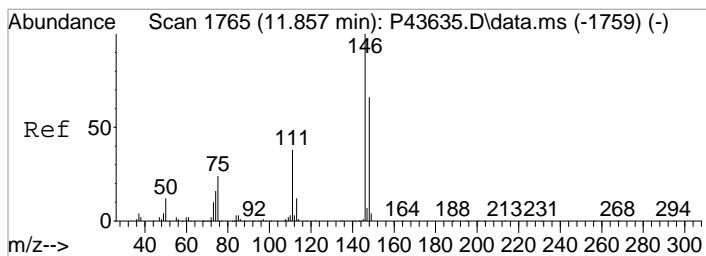
Tgt Ion	Resp	Lower	Upper
94	100		
96	83.7	68.3	108.3



#15
 Acetone
 Concen: 0.67 ppb
 RT: 2.402 min Scan# 214
 Delta R.T. -0.006 min
 Lab File: K0958.D
 Acq: 17 Mar 2021 3:44 pm

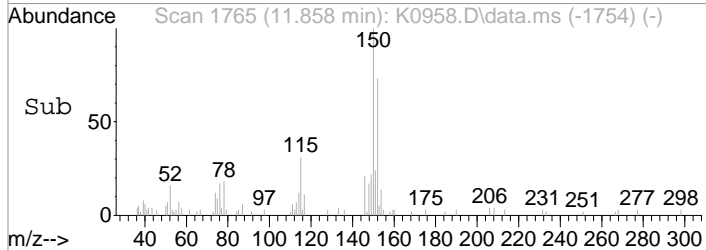
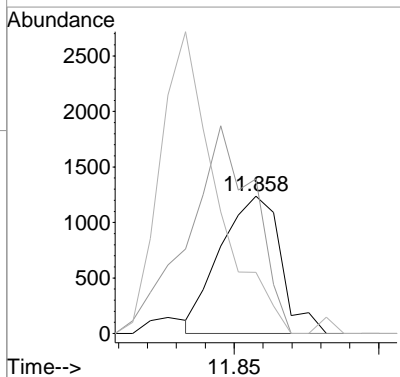
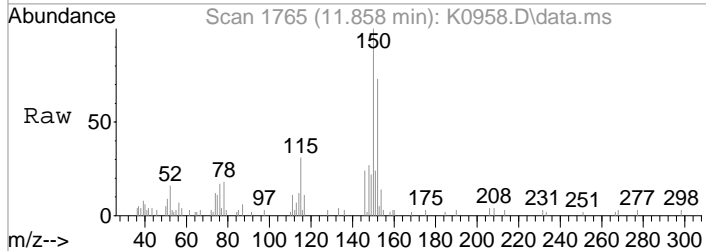
Tgt Ion	Resp	Lower	Upper
43	100		
58	32.8	12.9	52.9
42	0.0	0.0	29.5





#106
 1,4-Diclbz
 Concen: 0.21 ppb
 RT: 11.858 min Scan# 1765
 Delta R.T. -0.000 min
 Lab File: K0958.D
 Acq: 17 Mar 2021 3:44 pm

Tgt Ion	Resp	Lower	Upper
146	1801		
148	112.6	46.4	86.4#
111	44.4	17.9	57.9



Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0948.D
 Acq On : 17 Mar 2021 12:05 pm
 Operator : KRuest
 Sample : MBLK-FP Inst : MSVOA-12
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 17 12:24:17 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

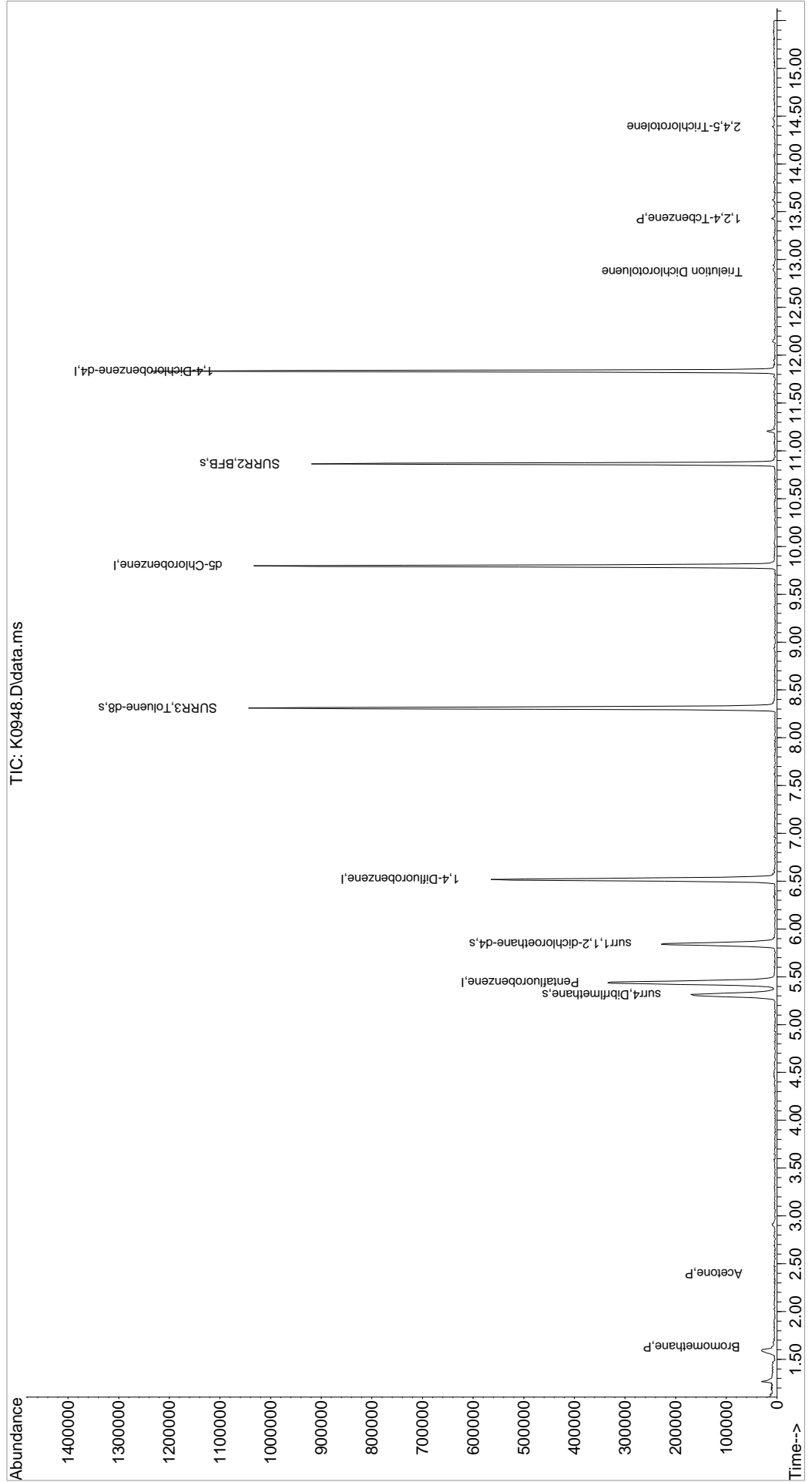
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	315649	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.517	114	490059	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	451348	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	224949	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	137263	50.60	ppb	-0.01
Spiked Amount	50.000	Range 80 - 116	Recovery	=	101.20%	
48) surr1,1,2-dichloroetha...	5.846	65	190407	55.59	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	111.18%	
65) SURR3,Toluene-d8	8.309	98	642007	53.88	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	107.76%	
70) SURR2,BFB	10.864	95	231984	49.10	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.20%	
Target Compounds						
5) Bromomethane	1.628	94	1041	0.28	ppb	Qvalue 93
15) Acetone	2.396	43	1334	0.93	ppb	74
112) Trielution Dichlorotol...	12.876	125	1790	0.24	ppb #	84
115) 1,2,4-Tcbenzene	13.424	180	1456	0.23	ppb #	80
119) 2,4,5-Trichlorotolene	14.387	159	944	0.21	ppb #	82

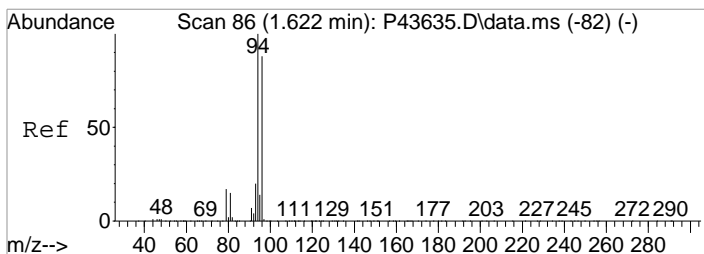
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0948.D
Acq On : 17 Mar 2021 12:05 pm
Operator : KRuest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

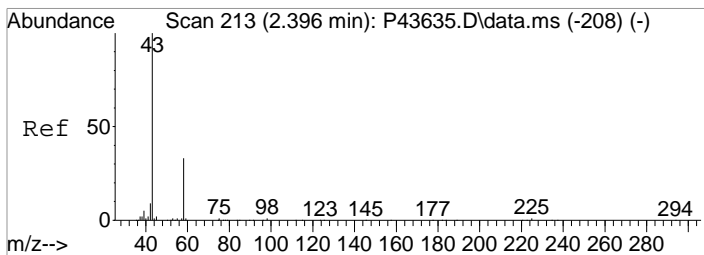
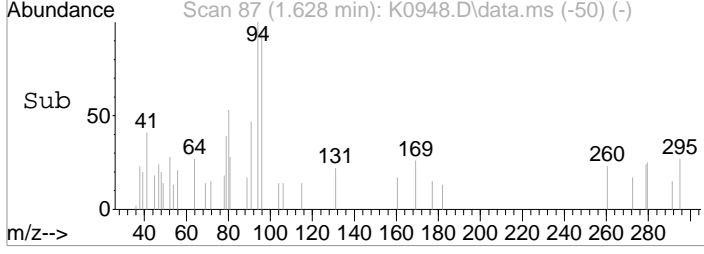
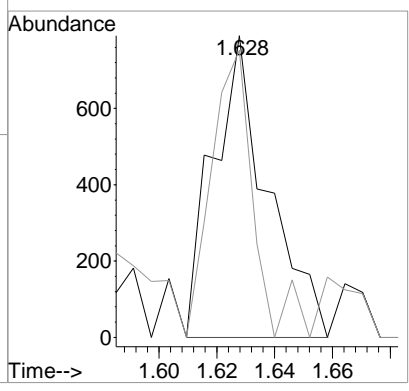
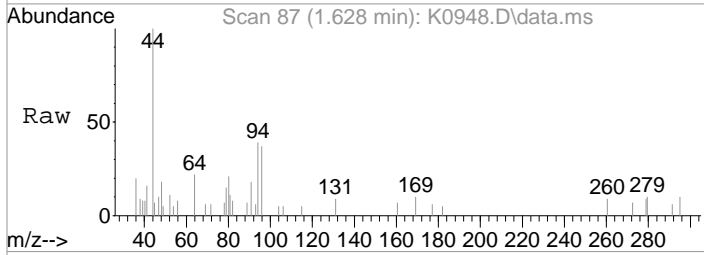
Quant Time: Mar 17 12:24:17 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration





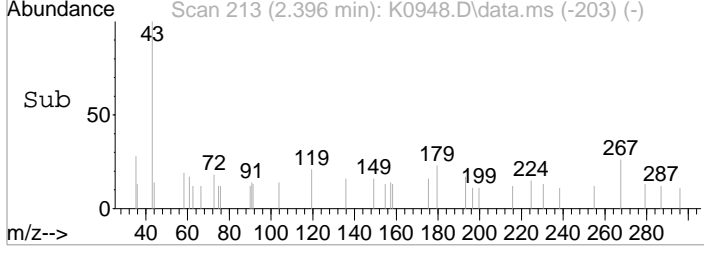
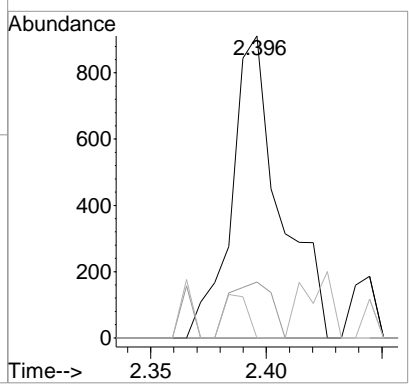
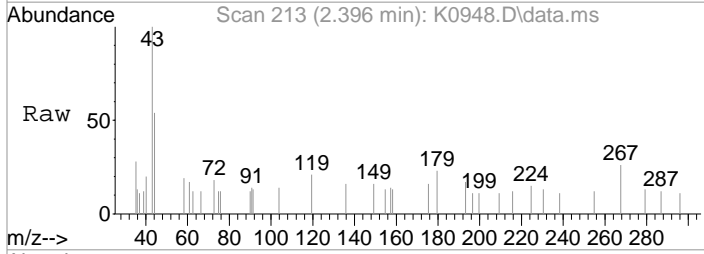
#5
 Bromomethane
 Concen: 0.28 ppb
 RT: 1.628 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: K0948.D
 Acq: 17 Mar 2021 12:05 pm

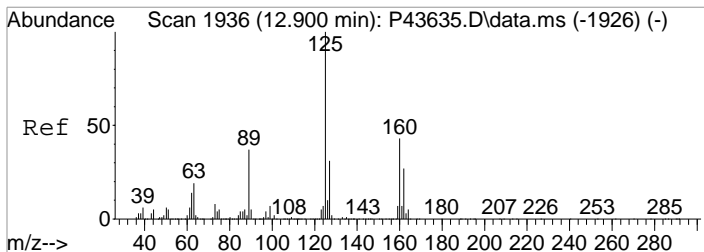
Tgt Ion	Resp	Lower	Upper
94	1041		
94	100		
96	95.2	68.3	108.3



#15
 Acetone
 Concen: 0.93 ppb
 RT: 2.396 min Scan# 213
 Delta R.T. -0.012 min
 Lab File: K0948.D
 Acq: 17 Mar 2021 12:05 pm

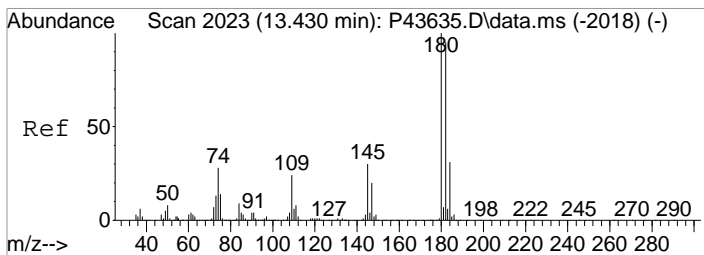
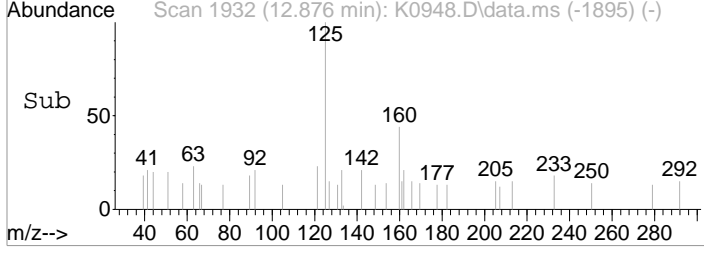
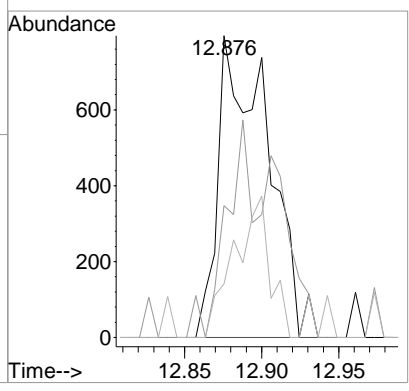
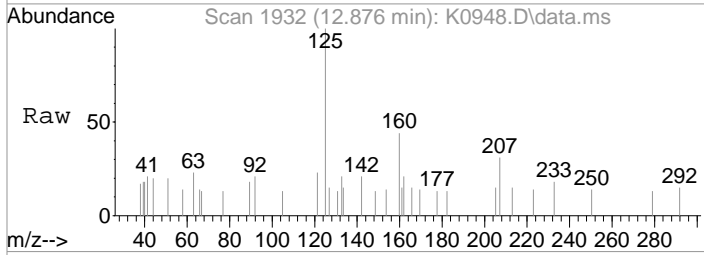
Tgt Ion	Resp	Lower	Upper
43	1334		
43	100		
58	18.5	12.9	52.9
42	0.0	0.0	29.5





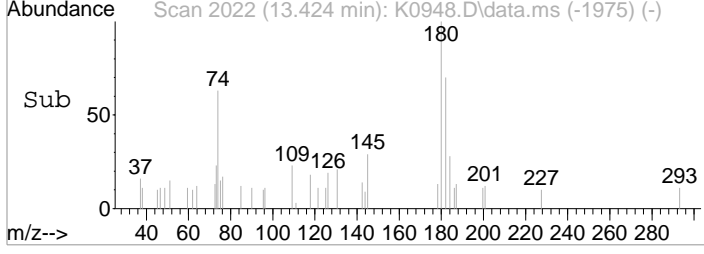
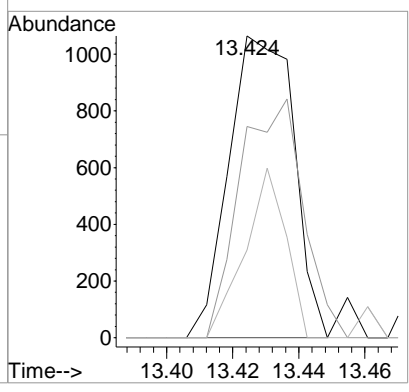
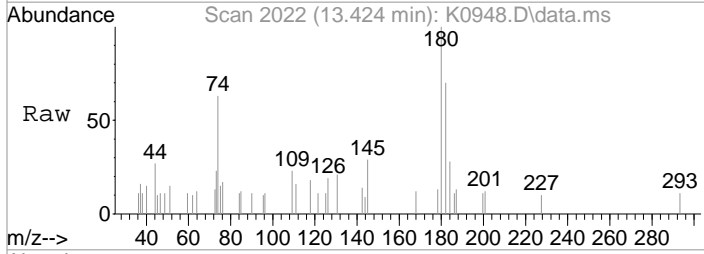
#112
 Trielution Dichlorotoluene
 Concen: 0.24 ppb
 RT: 12.876 min Scan# 1932
 Delta R.T. -0.024 min
 Lab File: K0948.D
 Acq: 17 Mar 2021 12:05 pm

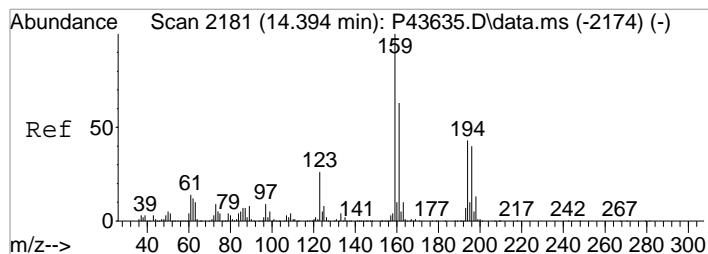
Tgt Ion	Resp	Lower	Upper
125	1790		
160	43.7	34.2	51.4
89	17.7	29.8	44.8#



#115
 1,2,4-Tcbenzene
 Concen: 0.23 ppb
 RT: 13.424 min Scan# 2022
 Delta R.T. -0.006 min
 Lab File: K0948.D
 Acq: 17 Mar 2021 12:05 pm

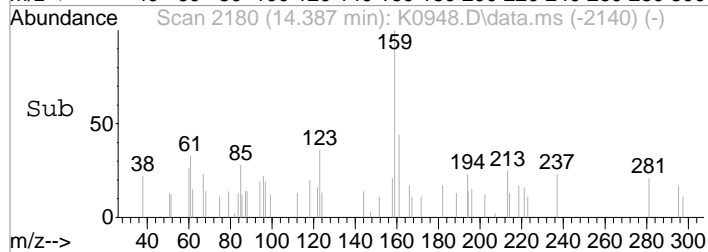
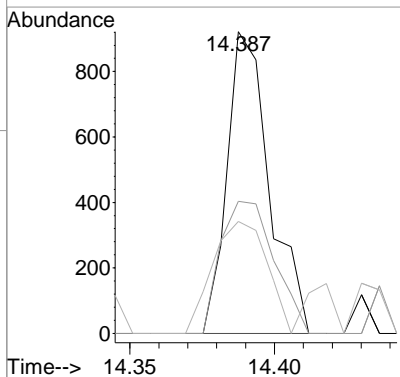
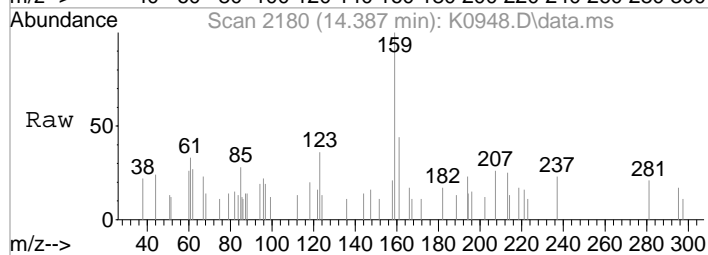
Tgt Ion	Resp	Lower	Upper
180	1456		
182	70.0	75.2	115.2#
145	29.0	10.4	50.4





#119
2,4,5-Trichlorotoluene
Concen: 0.21 ppb
RT: 14.387 min Scan# 2180
Delta R.T. -0.006 min
Lab File: K0948.D
Acq: 17 Mar 2021 12:05 pm

Tgt Ion	Resp	Lower	Upper
159	100		
161	43.8	50.1	75.1#
194	37.1	34.2	51.2



Data Path : I:\ACQUDATA\msvoa12\Data\031821\
 Data File : K0981.D
 Acq On : 18 Mar 2021 12:33 pm
 Operator : KRuest
 Sample : MBLK-FP
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 13:18:08 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

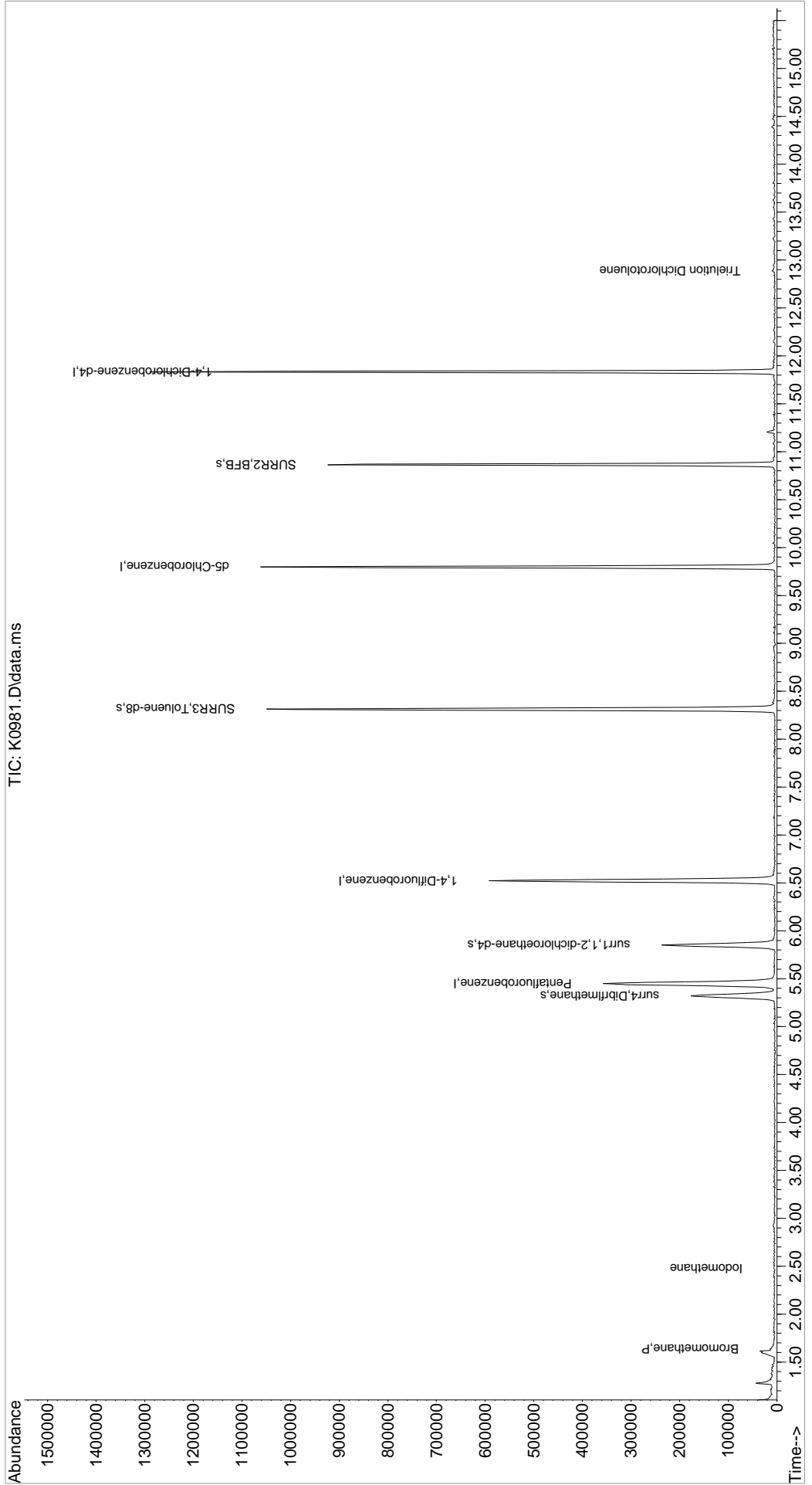
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	320057	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	503847	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	466434	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	239822	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	142332	51.03	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	102.06%	
48) surr1,1,2-dichloroetha...	5.852	65	191639	54.42	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.84%	
65) SURR3,Toluene-d8	8.315	98	645162	52.67	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	105.34%	
70) SURR2,BFB	10.864	95	235018	48.38	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.76%	
Target Compounds						Qvalue
5) Bromomethane	1.640	94	1083	0.29	ppb	# 36
17) Iodomethane	2.475	142	716	4.04	ppb	# 98
112) Trielution Dichlorotol...	12.888	125	1696	0.22	ppb	# 84

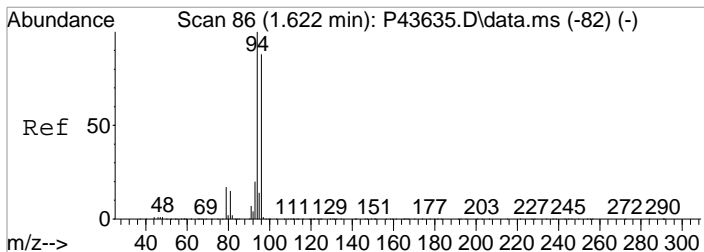
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0981.D
Acq On : 18 Mar 2021 12:33 pm
Operator : KRuest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

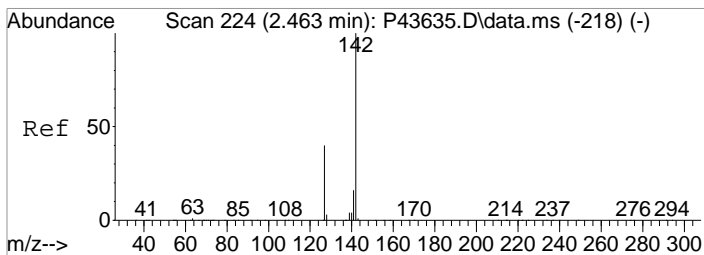
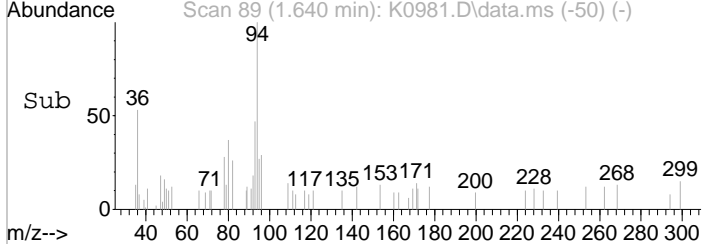
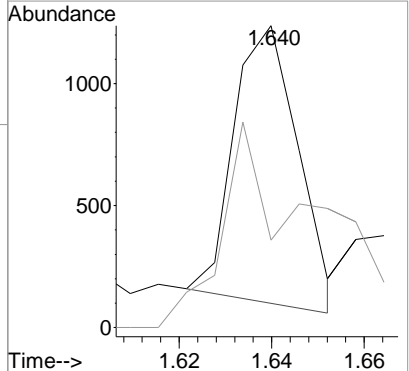
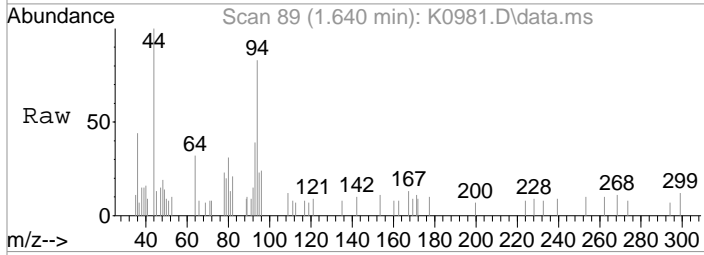
Quant Time: Mar 18 13:18:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration





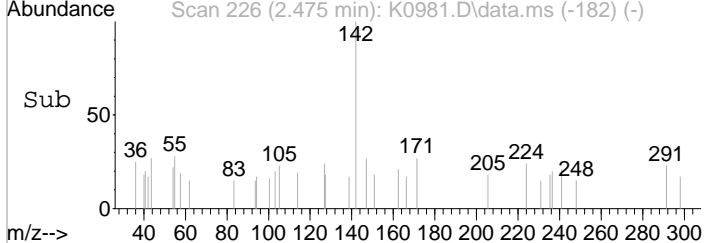
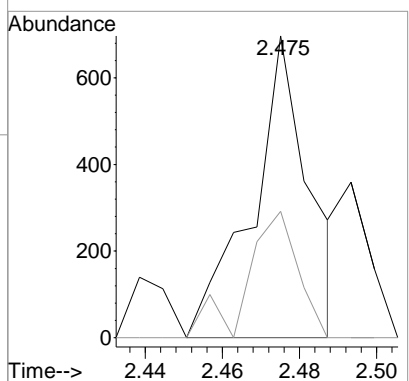
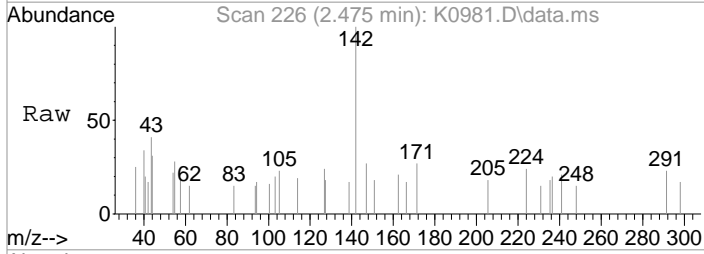
#5
 Bromomethane
 Concen: 0.29 ppb
 RT: 1.640 min Scan# 89
 Delta R.T. 0.012 min
 Lab File: K0981.D
 Acq: 18 Mar 2021 12:33 pm

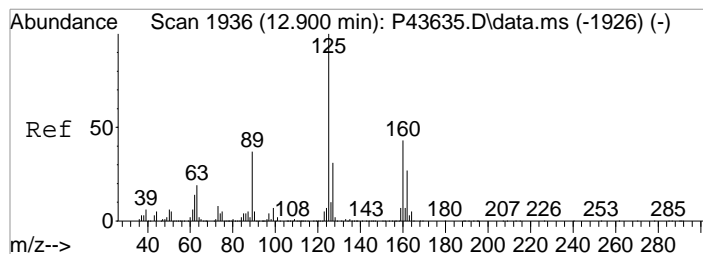
Tgt Ion	94	96	Resp	1083	Lower	Upper
Ion Ratio	100	29.0			68.3	108.3#



#17
 Iodomethane
 Concen: 4.04 ppb
 RT: 2.475 min Scan# 226
 Delta R.T. 0.006 min
 Lab File: K0981.D
 Acq: 18 Mar 2021 12:33 pm

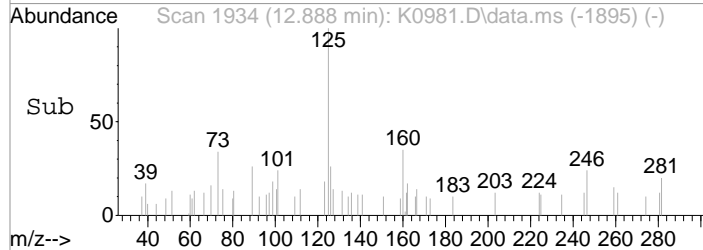
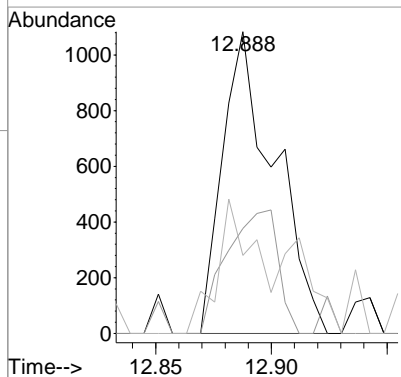
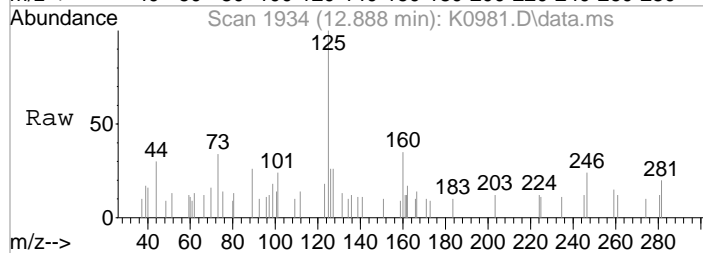
Tgt Ion	142	127	Resp	716	Lower	Upper
Ion Ratio	100	41.9			20.4	60.4





#112
 Trielution Dichlorotoluene
 Concen: 0.22 ppb
 RT: 12.888 min Scan# 1934
 Delta R.T. -0.012 min
 Lab File: K0981.D
 Acq: 18 Mar 2021 12:33 pm

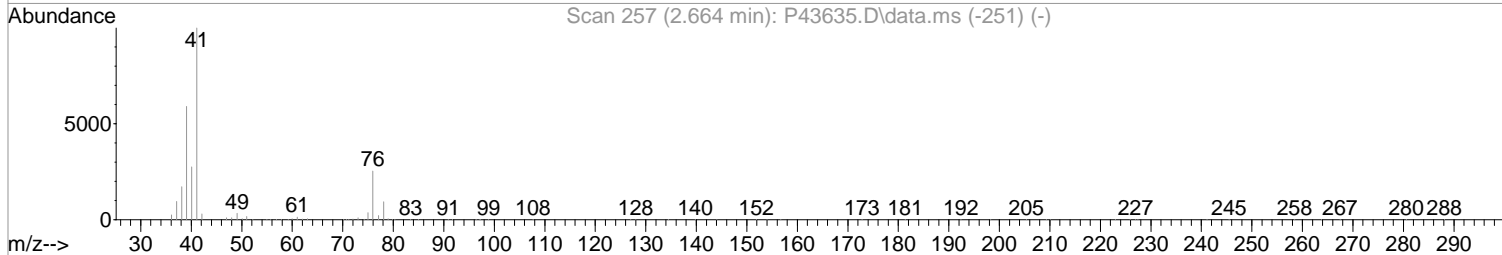
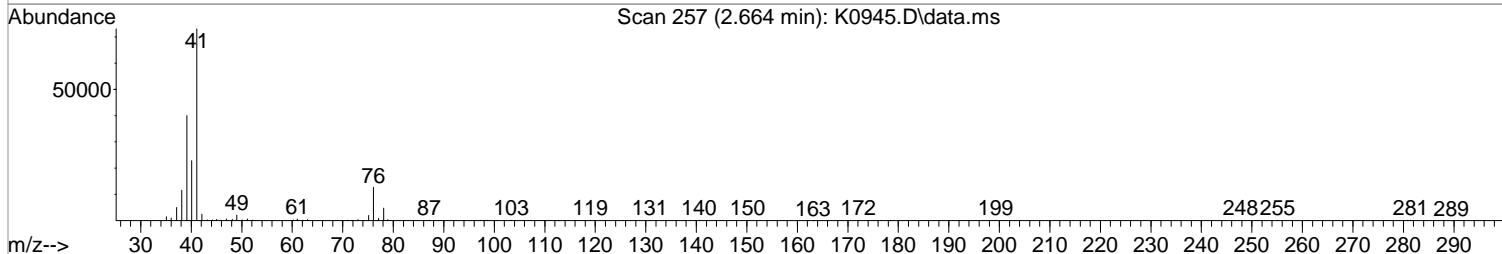
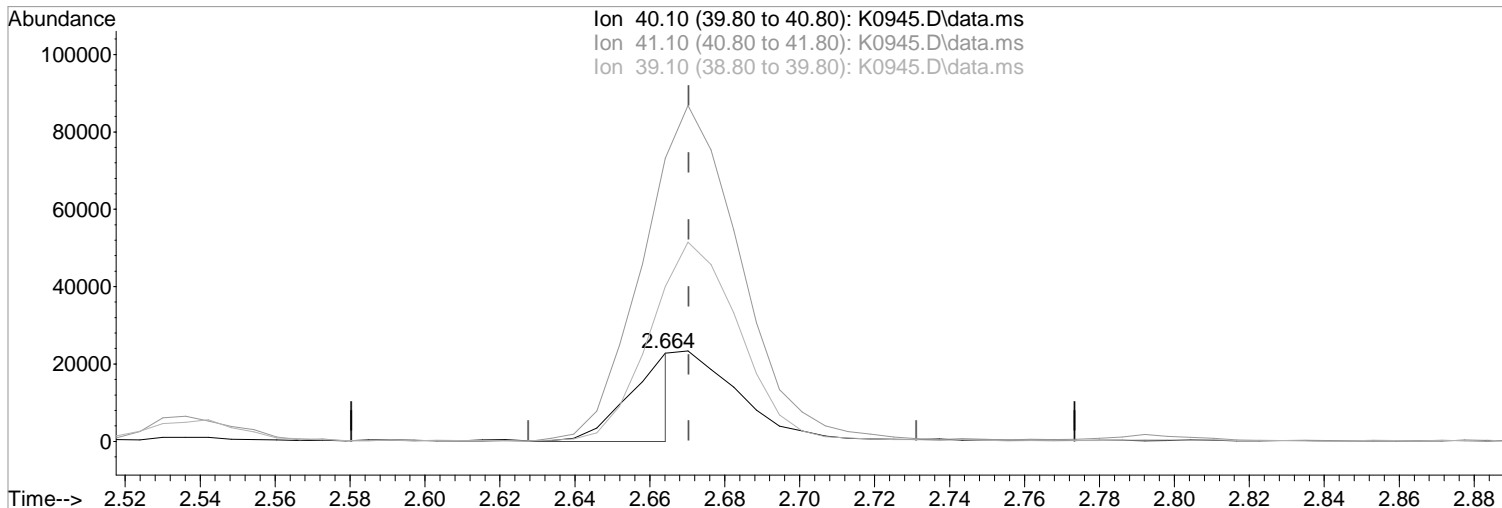
Tgt Ion	Resp	Lower	Upper
125	1696		
160	34.8	34.2	51.4
89	25.8	29.8	44.8#



Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0945.D
Acq On : 17 Mar 2021 10:53 am
Operator : KRuest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 11:11:39 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



TIC: K0945.D\data.ms

(19) Acetonitrile

2.664min (-0.006) 95.34 ppb m

response 19089

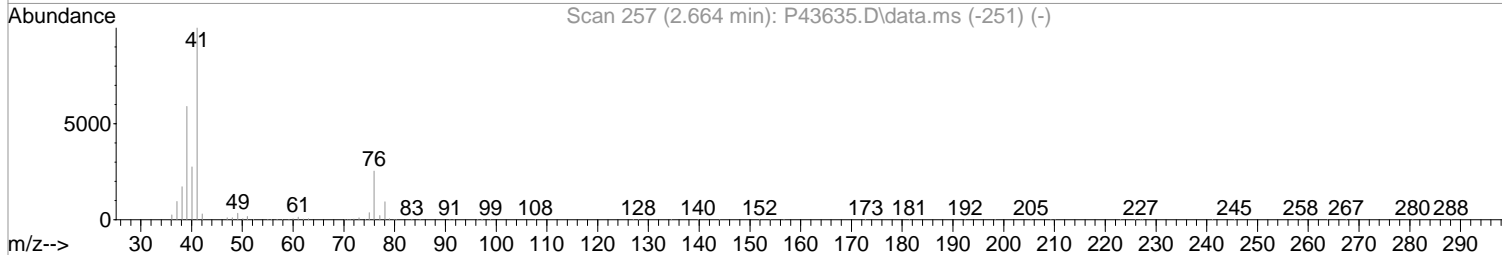
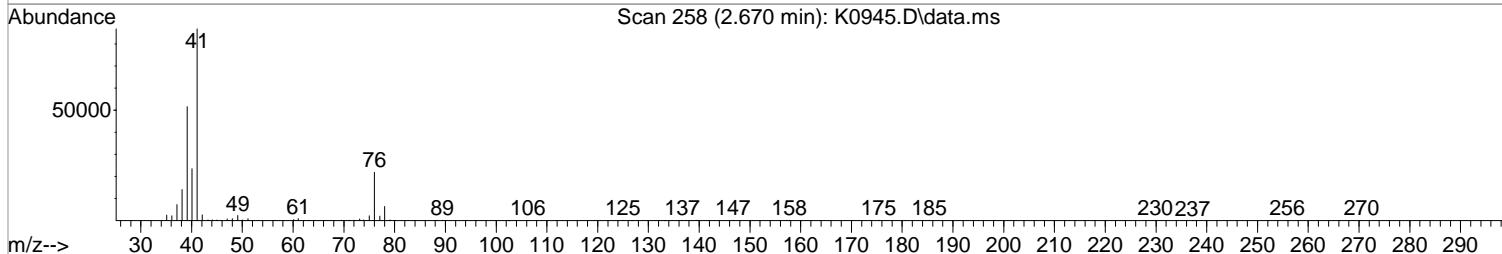
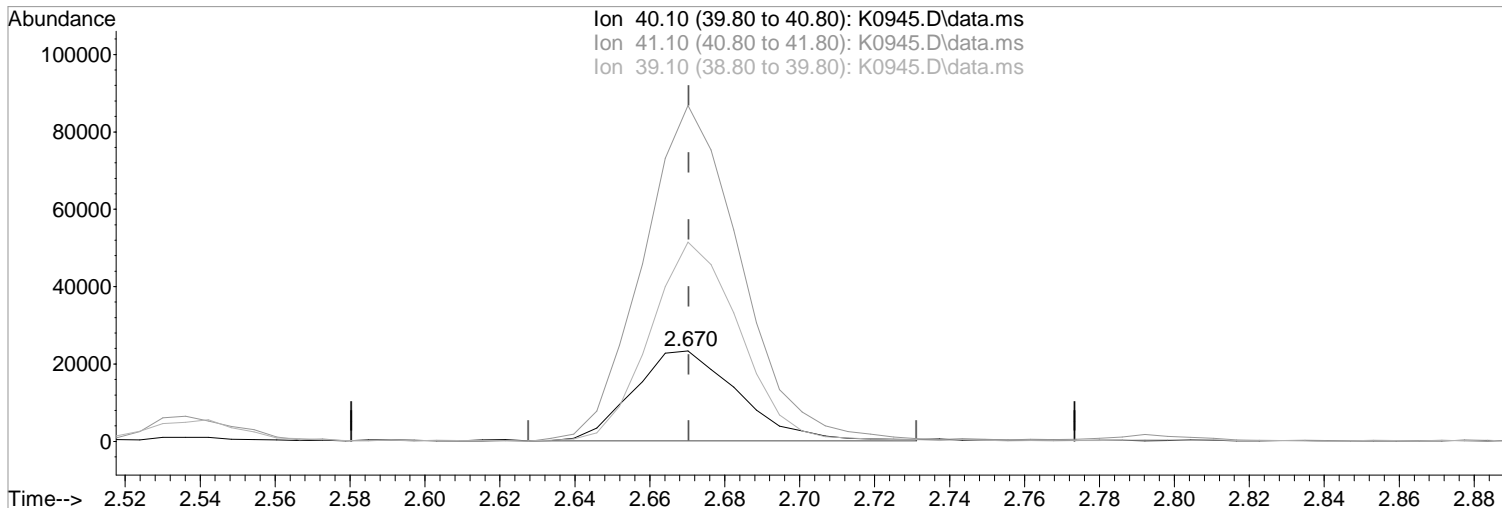
Ion	Exp%	Act%
40.10	100	100
41.10	361.80	321.00#
39.10	213.50	175.53#
0.00	0.00	0.00

Manual Integration:
After
Poor integration.
03/17/21

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
Data File : K0945.D
Acq On : 17 Mar 2021 10:53 am
Operator : KRuest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 11:11:39 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(19) Acetonitrile
2.670min (-0.000) 228.26 ppb
response 45702

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	361.80	370.76
39.10	213.50	220.02
0.00	0.00	0.00

03/17/21

Data Path : I:\ACQUDATA\msvoal2\Data\031721\
 Data File : K0945.D
 Acq On : 17 Mar 2021 10:53 am
 Operator : KRuest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 11:12:17 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	320229	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	506704	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	475487	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	254599	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	145155	51.75	ppb	-0.01
Spiked Amount	50.000	Range 80 - 116	Recovery	=	103.50%	
48) surr1,1,2-dichloroetha...	5.846	65	192623	54.39	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.78%	
65) SURR3,Toluene-d8	8.309	98	655523	53.21	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	106.42%	
70) SURR2,BFB	10.864	95	254451	52.08	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	104.16%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.201	85	96482	24.12	ppb	99
3) Chloromethane	1.329	50	82173	22.99	ppb	99
4) Vinyl Chloride	1.408	62	90602	18.98	ppb	95
5) Bromomethane	1.634	94	57736	15.24	ppb	97
6) Chloroethane	1.713	64	53906	17.54	ppb	98
7) Freon 21	1.865	67	116706	21.33	ppb	94
8) Trichlorofluoromethane	1.908	101	116747	23.04	ppb	98
9) Diethyl Ether	2.146	59	63089	23.31	ppb	94
10) Freon 123a	2.152	67	83707	24.34	ppb	99
11) Freon 123	2.213	83	82546	20.48	ppb	97
12) Acrolein	2.262	56	38216	48.88	ppb	96
13) 1,1-Dicethene	2.335	96	59740	23.36	ppb	91
14) Freon 113	2.335	101	58485	18.61	ppb	79
15) Acetone	2.402	43	28248	19.35	ppb	97
16) 2-Propanol	2.536	45	128886	362.91	ppb	97
17) Iodomethane	2.469	142	71008	21.41	ppb	98
18) Carbon Disulfide	2.524	76	167120	21.67	ppb	98
19) Acetonitrile	2.664	40	19089m	95.34	ppb	
20) Allyl Chloride	2.670	76	33892	20.23	ppb	# 81
21) Methyl Acetate	2.707	43	65124	17.69	ppb	94
22) Methylene Chloride	2.798	84	68115	20.29	ppb	95
23) TBA	2.945	59	241075	361.86	ppb	97
24) Acrylonitrile	3.079	53	177697	109.06	ppb	90
25) Methyl-t-Butyl Ether	3.091	73	237634	20.92	ppb	95
26) trans-1,2-Dichloroethene	3.085	96	67613	23.19	ppb	95
28) 1,1-Dicethane	3.597	63	115119	21.35	ppb	97
29) Vinyl Acetate	3.694	86	19105	29.90	ppb	# 96
30) DIPE	3.700	45	222944	26.06	ppb	96
31) 2-Chloro-1,3-Butadiene	3.707	53	108274	23.01	ppb	99
32) ETBE	4.231	59	213131	22.12	ppb	95
33) 2,2-Dichloropropane	4.426	77	105752	19.77	ppb	93
34) cis-1,2-Dichloroethene	4.444	96	77263	22.01	ppb	94
35) 2-Butanone	4.517	43	42625	19.93	ppb	90
36) Propionitrile	4.627	54	78079	108.50	ppb	93
37) Bromochloromethane	4.853	130	47636	20.79	ppb	92
38) Methacrylonitrile	4.889	67	39611	21.28	ppb	# 75
39) Tetrahydrofuran	4.950	42	29652	20.22	ppb	79
40) Chloroform	5.029	83	126337	22.55	ppb	96
41) 1,1,1-Trichloroethane	5.304	97	105486	19.75	ppb	98

Data Path : I:\ACQUDATA\msvoal2\Data\031721\
 Data File : K0945.D
 Acq On : 17 Mar 2021 10:53 am
 Operator : KRuest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 11:12:17 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	231068	22.98	ppb	95
44) Cyclohexane	5.359	41	63758	21.39	ppb	93
46) Carbontetrachloride	5.566	117	79954	17.92	ppb	95
47) 1,1-Dichloropropene	5.584	75	93753	20.95	ppb	97
49) Benzene	5.901	78	287989	21.37	ppb	95
50) 1,2-Dichloroethane	5.968	62	103498	22.00	ppb	97
51) Iso-Butyl Alcohol	5.956	43	95119	367.92	ppb	94
52) n-Heptane	6.352	43	92040	23.96	ppb	91
53) 1-Butanol	6.901	56	163154	918.66	ppb	96
54) Trichloroethene	6.834	130	72600	19.59	ppb	96
55) Methylcyclohexane	7.047	55	94399	21.53	ppb	95
56) 1,2-Diclpropane	7.127	63	69433	21.31	ppb	97
57) Dibromomethane	7.273	93	46494	19.67	ppb	97
58) 1,4-Dioxane	7.346	88	29963	352.88	ppb	99
59) Methyl Methacrylate	7.346	69	64615	20.80	ppb	87
60) Bromodichloromethane	7.499	83	83655	18.91	ppb	98
62) 2-Chloroethylvinyl Ether	7.846	63	474	0.23	ppb	# 39
63) cis-1,3-Dichloropropene	8.029	75	107573	19.78	ppb	99
64) 4-Methyl-2-pentanone	8.242	43	93275	21.06	ppb	99
66) Toluene	8.383	91	334177	20.84	ppb	100
67) trans-1,3-Dichloropropene	8.669	75	103129	19.46	ppb	98
68) Ethyl Methacrylate	8.797	69	101732	18.37	ppb	98
69) 1,1,2-Trichloroethane	8.858	97	74219	21.08	ppb	96
72) Tetrachloroethene	8.968	164	59290	19.71	ppb	95
73) 2-Hexanone	9.145	43	66148	20.02	ppb	95
74) 1,3-Dichloropropene	9.023	76	123856	21.36	ppb	88
75) Dibromochloromethane	9.248	129	62208	18.40	ppb	93
76) N-Butyl Acetate	9.291	43	126054	20.38	ppb	97
77) 1,2-Dibromoethane	9.340	107	73624	19.75	ppb	97
78) Chlorobenzene	9.821	112	217936	20.41	ppb	95
79) 3-CBTF	9.840	180	114578	19.82	ppb	96
80) 4-CBTF	9.894	180	103889	20.41	ppb	98
81) 1,1,1,2-Tetrachloroethane	9.913	131	66741	18.55	ppb	93
82) Ethylbenzene	9.937	106	117848	20.08	ppb	99
83) (m+p)Xylene	10.047	106	285654	41.66	ppb	95
84) o-Xylene	10.406	106	142982	20.33	ppb	95
85) Styrene	10.419	104	233127	19.95	ppb	96
87) Bromoform	10.583	173	36955	15.86	ppb	93
88) 2-CBTF	10.650	180	108751	19.49	ppb	98
89) Isopropylbenzene	10.736	105	382484	21.55	ppb	98
90) Cyclohexanone	10.821	55	88758	101.04	ppb	97
91) trans-1,4-Dichloro-2-B...	11.059	53	24411	16.10	ppb	85
92) 1,1,2,2-Tetrachloroethane	11.010	83	106273	19.26	ppb	97
93) Bromobenzene	10.986	156	88987	19.68	ppb	# 88
94) 1,2,3-Trichloropropane	11.041	110	35803	18.46	ppb	93
95) n-Propylbenzene	11.089	91	456314	22.27	ppb	100
96) 2-Chlorotoluene	11.156	91	270666	21.16	ppb	98
97) 3-Chlorotoluene	11.211	91	286079	21.67	ppb	98
98) 4-Chlorotoluene	11.248	91	308530	20.99	ppb	97
99) 1,3,5-Trimethylbenzene	11.242	105	323147	20.81	ppb	99
100) tert-Butylbenzene	11.510	119	276688	20.50	ppb	98
101) 1,2,4-Trimethylbenzene	11.553	105	324404	20.91	ppb	99
102) 3,4-DCBTF	11.614	214	89698	20.08	ppb	99
103) sec-Butylbenzene	11.693	105	422656	22.00	ppb	98
104) p-Isopropyltoluene	11.815	119	351906	20.94	ppb	98
105) 1,3-Dclbenz	11.778	146	183056	19.79	ppb	97

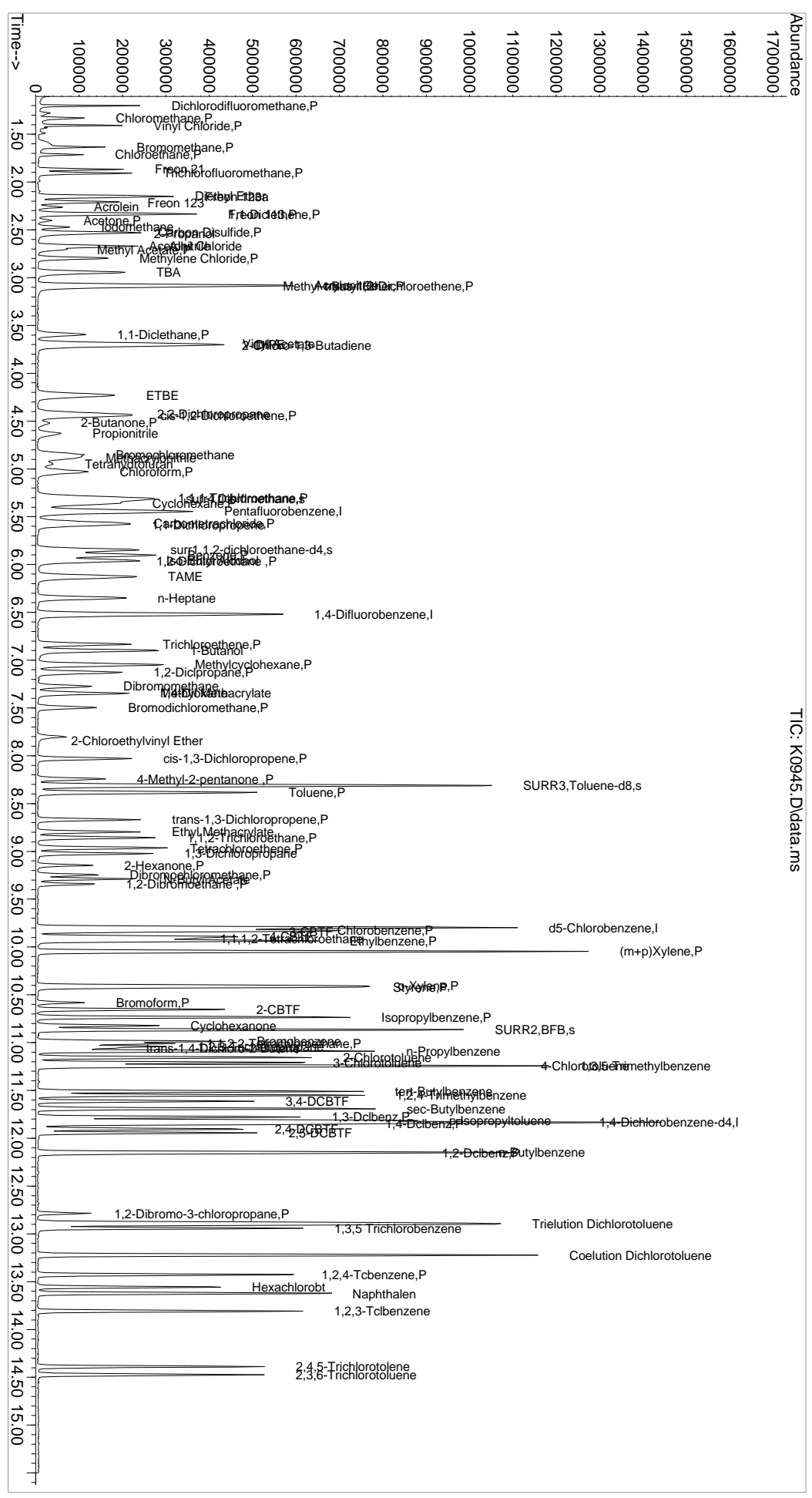
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 Data File : K0945.D
 Acq On : 17 Mar 2021 10:53 am
 Operator : KRuest
 Sample : LCS-FP Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 17 11:12:17 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.851	146	184716	18.92	ppb	96
107) 2,4-DCBTF	11.906	214	83254	19.85	ppb	95
108) 2,5-DCBTF	11.943	214	94199	20.05	ppb	96
109) n-Butylbenzene	12.144	91	326517	21.44	ppb	98
110) 1,2-Dclbenz	12.156	146	182649	19.41	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.790	157	22988	15.31	ppb	96
112) Trielution Dichlorotol...	12.894	125	523274	62.80	ppb	98
113) 1,3,5 Trichlorobenzene	12.943	180	139078	20.55	ppb	97
114) Coelution Dichlorotoluene	13.223	125	373361	40.59	ppb	99
115) 1,2,4-Tcbenzene	13.430	180	140531	19.82	ppb	97
116) Hexachlorobt	13.558	225	58987	18.87	ppb	98
117) Naphthalen	13.625	128	411660	19.81	ppb	98
118) 1,2,3-Tclbenzene	13.808	180	135087	19.10	ppb	97
119) 2,4,5-Trichlorotolene	14.387	159	110226	21.43	ppb	97
120) 2,3,6-Trichlorotoluene	14.473	159	98179	19.92	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

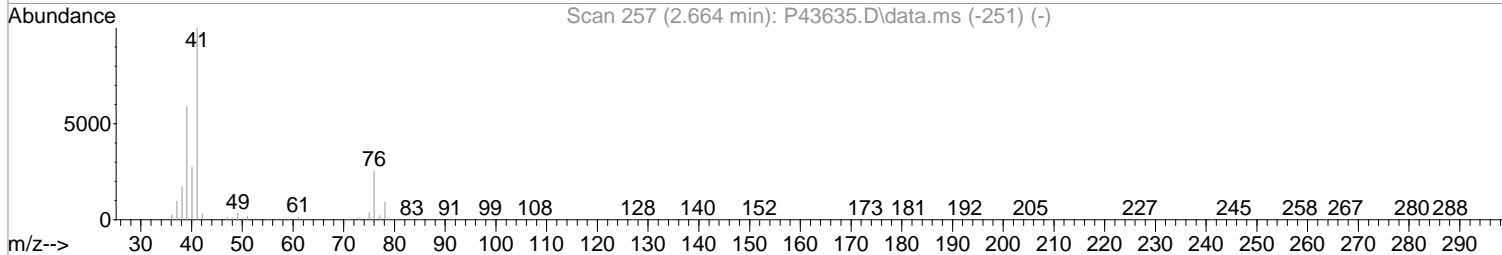
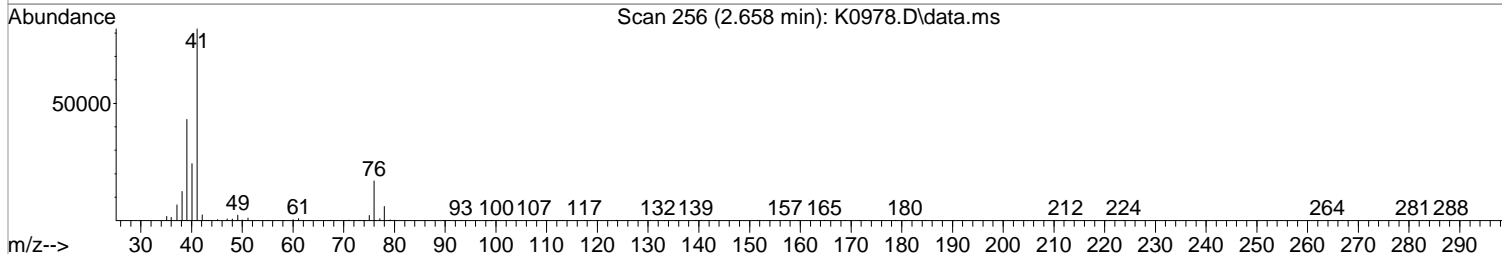
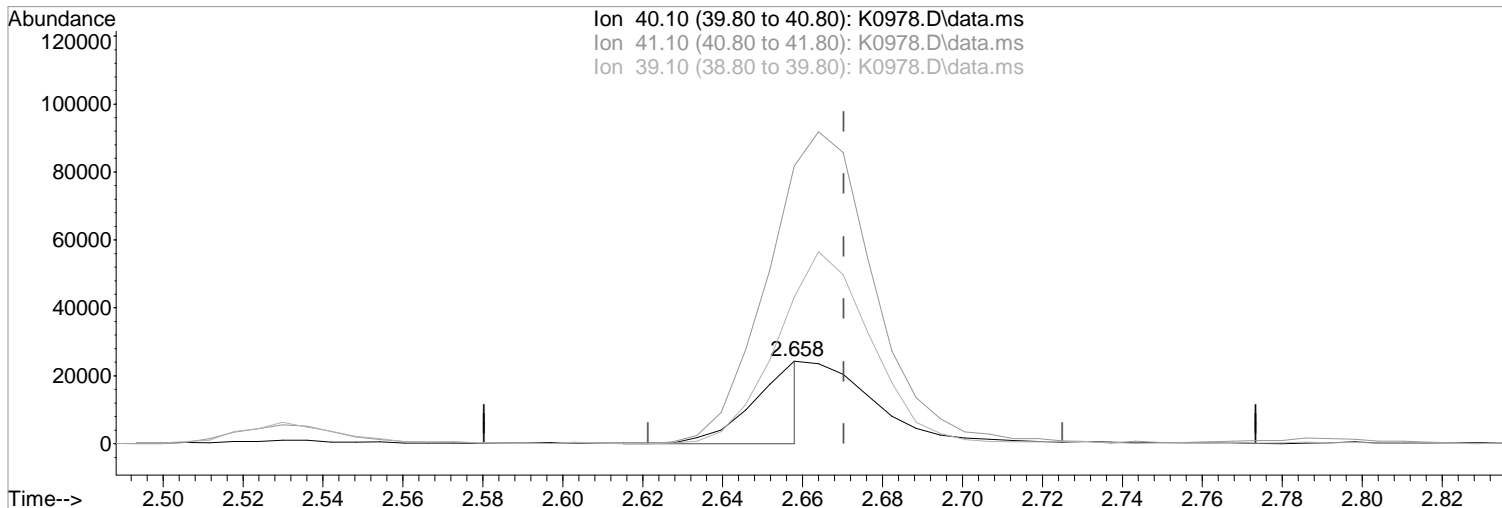
Data Path : I:\ACQDATA\msvoa12\Data\031721\
 Data File : K0945.D
 Acq On : 17 Mar 2021 10:53 am
 Operator : KRuest
 Sample : LCS-FP
 PALS Vial : 1 Sample Multiplier: 1
 Inst : MSVOA-12
 Quant Time: Mar 17 11:12:17 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B MATERS 10mL Purge
 QIast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0978.D
Acq On : 18 Mar 2021 11:21 am
Operator : KRuest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:37:48 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



TIC: K0978.D\data.ms

(19) Acetonitrile
2.658min (-0.012) 97.41 ppb m
response 21200

Manual Integration:

After

Poor integration.

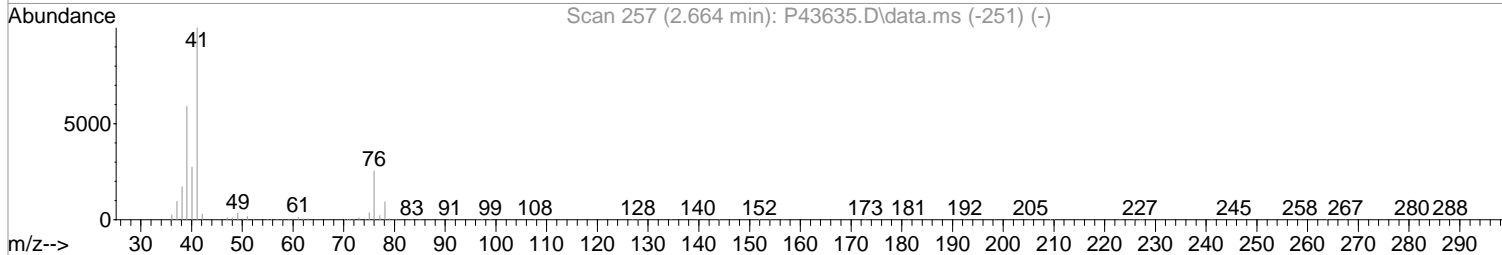
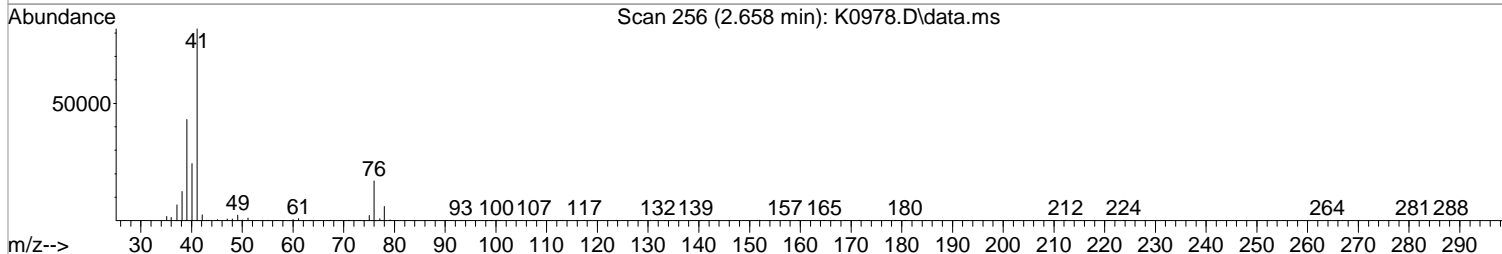
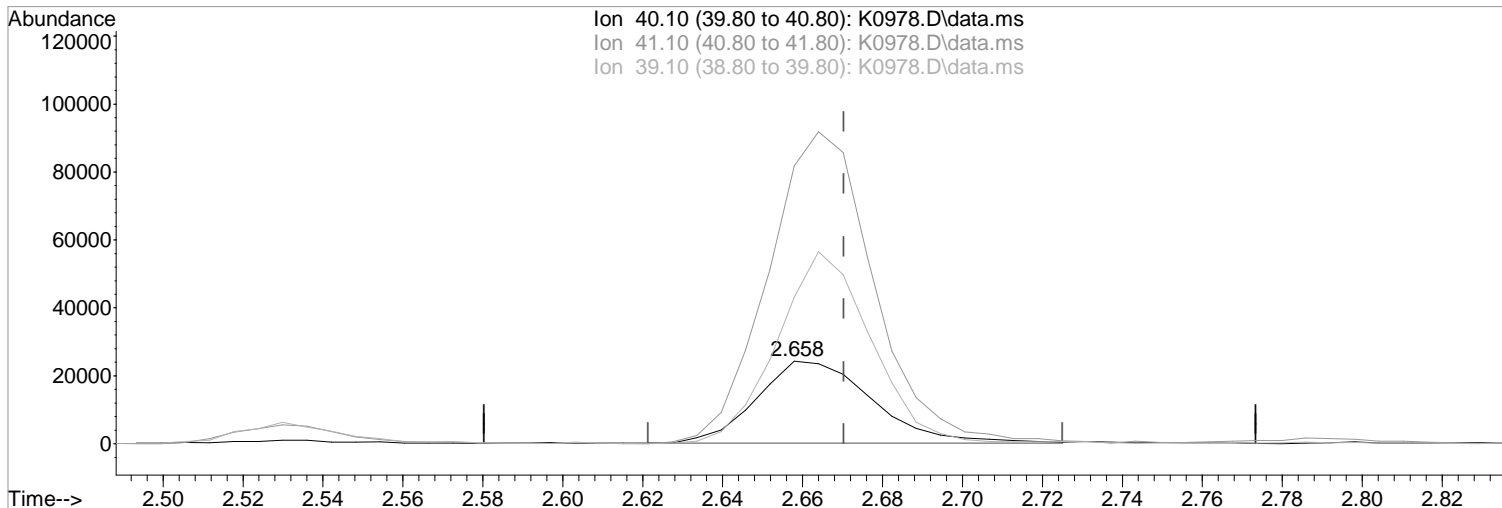
03/18/21

Ion	Exp%	Act%
40.10	100	100
41.10	361.80	337.19#
39.10	213.50	177.98#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0978.D
Acq On : 18 Mar 2021 11:21 am
Operator : KRuest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:37:48 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(19) Acetonitrile
2.658min (-0.012) 222.62 ppb
response 48449

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	361.80	337.19#
39.10	213.50	177.98#
0.00	0.00	0.00

03/18/21

Data Path : I:\ACQUDATA\msvoal2\Data\031821\
 Data File : K0978.D
 Acq On : 18 Mar 2021 11:21 am
 Operator : KRuest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:43:37 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	348078	50.00	ppb	-0.01
43) 1,4-Difluorobenzene	6.517	114	547328	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	519488	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	273738	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	157580	52.01	ppb	-0.01
Spiked Amount	50.000	Range 80 - 116	Recovery	=	104.02%	
48) surr1,1,2-dichloroetha...	5.840	65	212367	55.52	ppb	-0.01
Spiked Amount	50.000	Range 73 - 125	Recovery	=	111.04%	
65) SURR3,Toluene-d8	8.309	98	714159	53.67	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	107.34%	
70) SURR2,BFB	10.864	95	274286	51.98	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	103.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.195	85	103129	23.71	ppb	99
3) Chloromethane	1.323	50	88349	22.74	ppb	92
4) Vinyl Chloride	1.402	62	96289	18.56	ppb	98
5) Bromomethane	1.628	94	61450	14.93	ppb	96
6) Chloroethane	1.707	64	55936	16.75	ppb	100
7) Freon 21	1.859	67	126586	21.28	ppb	97
8) Trichlorofluoromethane	1.902	101	124006	22.52	ppb	93
9) Diethyl Ether	2.140	59	66964	22.76	ppb	94
10) Freon 123a	2.146	67	89044	23.82	ppb	97
11) Freon 123	2.201	83	93950	21.44	ppb	99
12) Acrolein	2.256	56	39247	46.19	ppb	96
13) 1,1-Dicethene	2.329	96	65653	23.62	ppb	93
14) Freon 113	2.329	101	65397	19.15	ppb	88
15) Acetone	2.396	43	28123	17.73	ppb	95
16) 2-Propanol	2.530	45	136539	353.70	ppb	93
17) Iodomethane	2.463	142	77743	21.54	ppb	98
18) Carbon Disulfide	2.518	76	189383	22.59	ppb	97
19) Acetonitrile	2.658	40	21200m	97.41	ppb	
20) Allyl Chloride	2.664	76	38072	20.90	ppb	93
21) Methyl Acetate	2.701	43	70549	17.63	ppb	94
22) Methylene Chloride	2.792	84	74029	20.28	ppb	93
23) TBA	2.938	59	254352	351.25	ppb	97
24) Acrylonitrile	3.072	53	193821	109.44	ppb	96
25) Methyl-t-Butyl Ether	3.085	73	252607	20.46	ppb	99
26) trans-1,2-Dichloroethene	3.079	96	72608	22.91	ppb	98
28) 1,1-Dicethane	3.585	63	129202	22.04	ppb	98
29) Vinyl Acetate	3.682	86	18881	27.19	ppb	# 87
30) DIPE	3.688	45	242314	26.05	ppb	89
31) 2-Chloro-1,3-Butadiene	3.700	53	121324	23.72	ppb	94
32) ETBE	4.225	59	223286	21.32	ppb	97
33) 2,2-Dichloropropane	4.426	77	116782	20.09	ppb	99
34) cis-1,2-Dichloroethene	4.438	96	81331	21.31	ppb	88
35) 2-Butanone	4.517	43	46218	19.88	ppb	94
36) Propionitrile	4.627	54	81245	103.87	ppb	95
37) Bromochloromethane	4.847	130	50214	20.16	ppb	93
38) Methacrylonitrile	4.883	67	42293	20.90	ppb	95
39) Tetrahydrofuran	4.938	42	32250	20.23	ppb	86
40) Chloroform	5.029	83	134120	22.02	ppb	92
41) 1,1,1-Trichloroethane	5.298	97	117352	20.21	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
 Data File : K0978.D
 Acq On : 18 Mar 2021 11:21 am
 Operator : KRuest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:43:37 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.121	73	246749	22.58	ppb	94
44) Cyclohexane	5.353	41	72409	22.49	ppb	98
46) Carbontetrachloride	5.554	117	87930	18.24	ppb	93
47) 1,1-Dichloropropene	5.572	75	102005	21.10	ppb	97
49) Benzene	5.895	78	310125	21.31	ppb	98
50) 1,2-Dichloroethane	5.956	62	109657	21.58	ppb	94
51) Iso-Butyl Alcohol	5.950	43	102424	366.77	ppb	96
52) n-Heptane	6.346	43	97380	23.47	ppb	86
53) 1-Butanol	6.901	56	174101	907.54	ppb	97
54) Trichloroethene	6.834	130	78069	19.50	ppb	97
55) Methylcyclohexane	7.047	55	101163	21.36	ppb	92
56) 1,2-Diclpropane	7.127	63	73887	20.99	ppb	86
57) Dibromomethane	7.273	93	48691	19.08	ppb	86
58) 1,4-Dioxane	7.334	88	33396	364.12	ppb	95
59) Methyl Methacrylate	7.346	69	71966	21.45	ppb	95
60) Bromodichloromethane	7.492	83	94456	19.77	ppb	98
63) cis-1,3-Dichloropropene	8.029	75	120409	20.50	ppb	97
64) 4-Methyl-2-pentanone	8.242	43	99052	20.70	ppb	98
66) Toluene	8.382	91	368400	21.27	ppb	98
67) trans-1,3-Dichloropropene	8.669	75	112826	19.71	ppb	97
68) Ethyl Methacrylate	8.797	69	109956	18.38	ppb	99
69) 1,1,2-Trichloroethane	8.858	97	77605	20.40	ppb	98
72) Tetrachloroethene	8.962	164	64939	19.76	ppb	92
73) 2-Hexanone	9.144	43	72564	20.10	ppb	100
74) 1,3-Dichloropropane	9.023	76	131100	20.69	ppb	94
75) Dibromochloromethane	9.242	129	70625	19.12	ppb	99
76) N-Butyl Acetate	9.285	43	133820	19.80	ppb	98
77) 1,2-Dibromoethane	9.340	107	79839	19.61	ppb	95
78) Chlorobenzene	9.821	112	232225	19.90	ppb	93
79) 3-CBTF	9.839	180	124279	19.67	ppb	94
80) 4-CBTF	9.888	180	112215	20.18	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.913	131	75842	19.29	ppb	99
82) Ethylbenzene	9.937	106	126657	19.75	ppb	95
83) (m+p)Xylene	10.047	106	317569	42.39	ppb	95
84) o-Xylene	10.406	106	154836	20.15	ppb	100
85) Styrene	10.419	104	252360	19.76	ppb	97
87) Bromoform	10.583	173	40668	16.24	ppb	90
88) 2-CBTF	10.656	180	122784	20.47	ppb	93
89) Isopropylbenzene	10.736	105	406266	21.29	ppb	98
90) Cyclohexanone	10.821	55	92873	98.34	ppb	93
91) trans-1,4-Dichloro-2-B...	11.059	53	27058	16.59	ppb	94
92) 1,1,2,2-Tetrachloroethane	11.010	83	116821	19.69	ppb	99
93) Bromobenzene	10.986	156	96638	19.88	ppb	# 84
94) 1,2,3-Trichloropropane	11.040	110	38739	18.57	ppb	97
95) n-Propylbenzene	11.089	91	499139	22.66	ppb	99
96) 2-Chlorotoluene	11.156	91	294869	21.44	ppb	98
97) 3-Chlorotoluene	11.211	91	309203	21.78	ppb	100
98) 4-Chlorotoluene	11.248	91	329218	20.83	ppb	98
99) 1,3,5-Trimethylbenzene	11.242	105	353381	21.17	ppb	97
100) tert-Butylbenzene	11.510	119	300197	20.68	ppb	98
101) 1,2,4-Trimethylbenzene	11.553	105	348562	20.90	ppb	97
102) 3,4-DCBTF	11.614	214	96896	20.18	ppb	96
103) sec-Butylbenzene	11.693	105	456943	22.12	ppb	98
104) p-Isopropyltoluene	11.815	119	384340	21.27	ppb	97
105) 1,3-Dclbenz	11.778	146	197294	19.84	ppb	98
106) 1,4-Dclbenz	11.851	146	200878	19.14	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
 Data File : K0978.D
 Acq On : 18 Mar 2021 11:21 am
 Operator : KRuest
 Sample : LCS-FP Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 18 11:43:37 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,4-DCBTF	11.906	214	91489	20.29	ppb	94
108) 2,5-DCBTF	11.943	214	101156	20.03	ppb	96
109) n-Butylbenzene	12.144	91	348903	21.31	ppb	96
110) 1,2-Dclbenz	12.156	146	190529	18.83	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.784	157	25021	15.49	ppb #	82
112) Trielution Dichlorotol...	12.894	125	558428	62.33	ppb	97
113) 1,3,5 Trichlorobenzene	12.943	180	149172	20.50	ppb	99
114) Coelution Dichlorotoluene	13.223	125	409818	41.44	ppb	97
115) 1,2,4-Tcbenzene	13.430	180	147587	19.36	ppb	97
116) Hexachlorobt	13.558	225	59450	17.69	ppb	97
117) Naphthalen	13.625	128	444349	19.89	ppb	98
118) 1,2,3-Tclbenzene	13.808	180	142620	18.75	ppb	97
119) 2,4,5-Trichlorotolene	14.387	159	116966	21.15	ppb	96
120) 2,3,6-Trichlorotoluene	14.473	159	108080	20.39	ppb	97

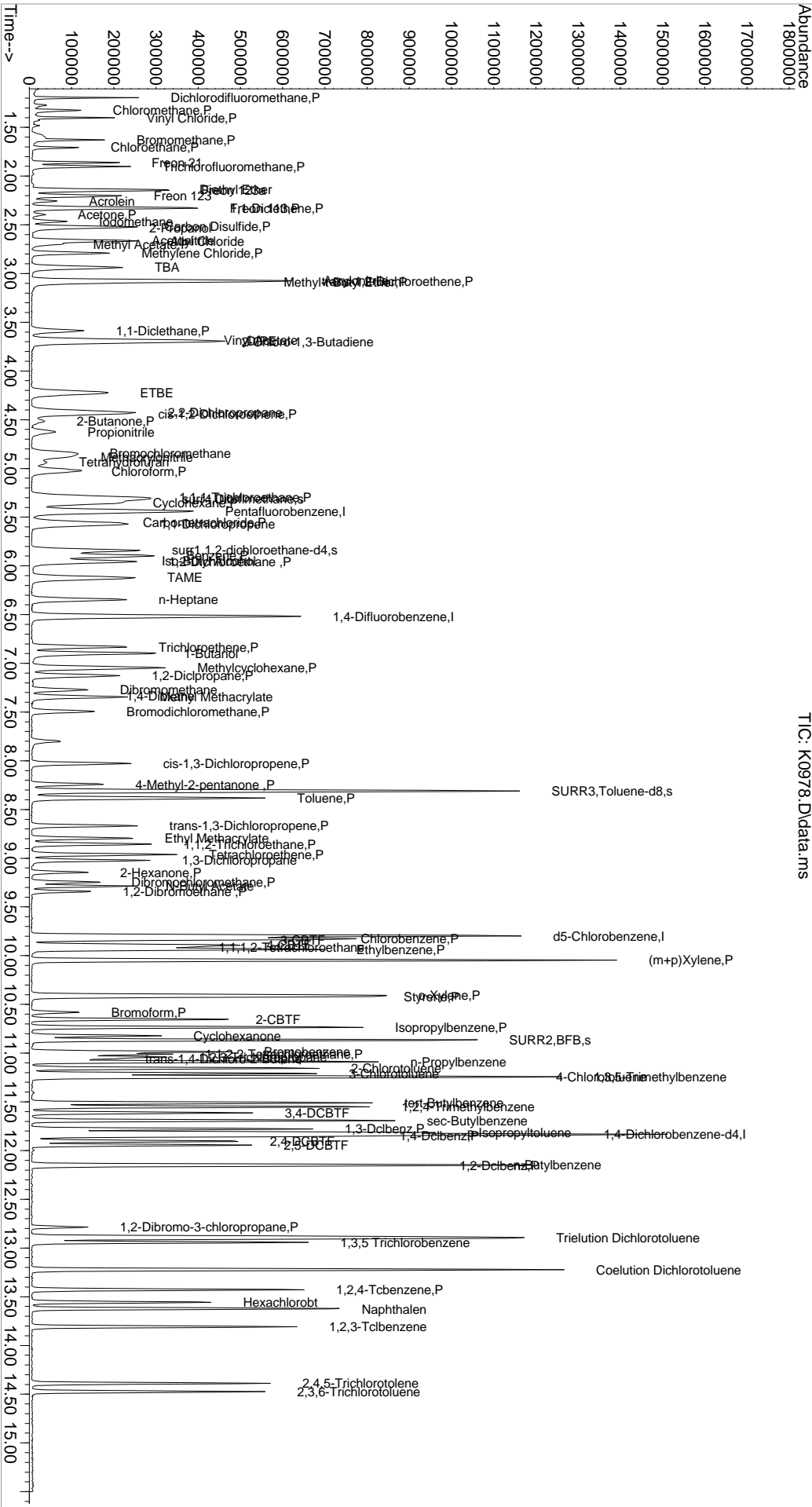
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\031821\
 Data File : K0978.D
 Acq On : 18 Mar 2021 11:21 am
 Operator : KRuest
 Sample : LCS-Fp
 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:43:37 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B MATERS 10ml Purge
 Qlast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

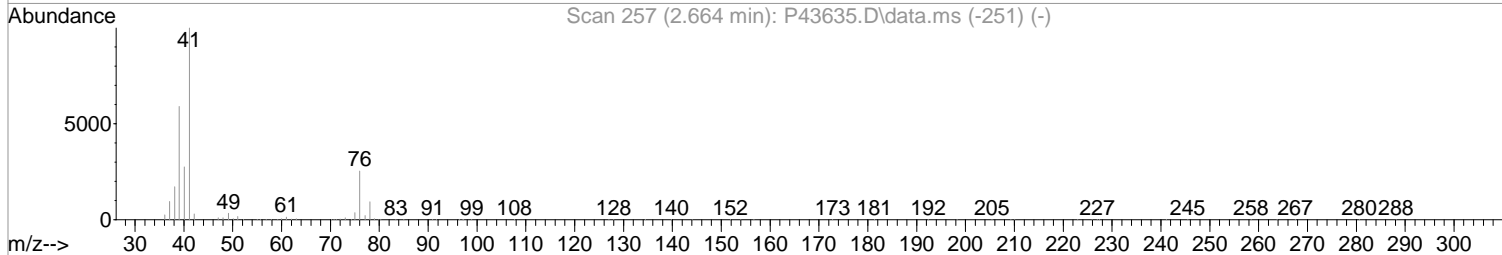
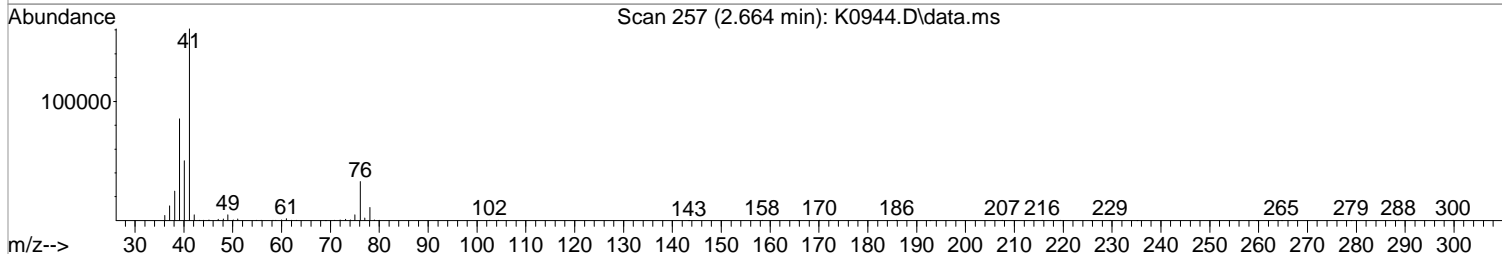
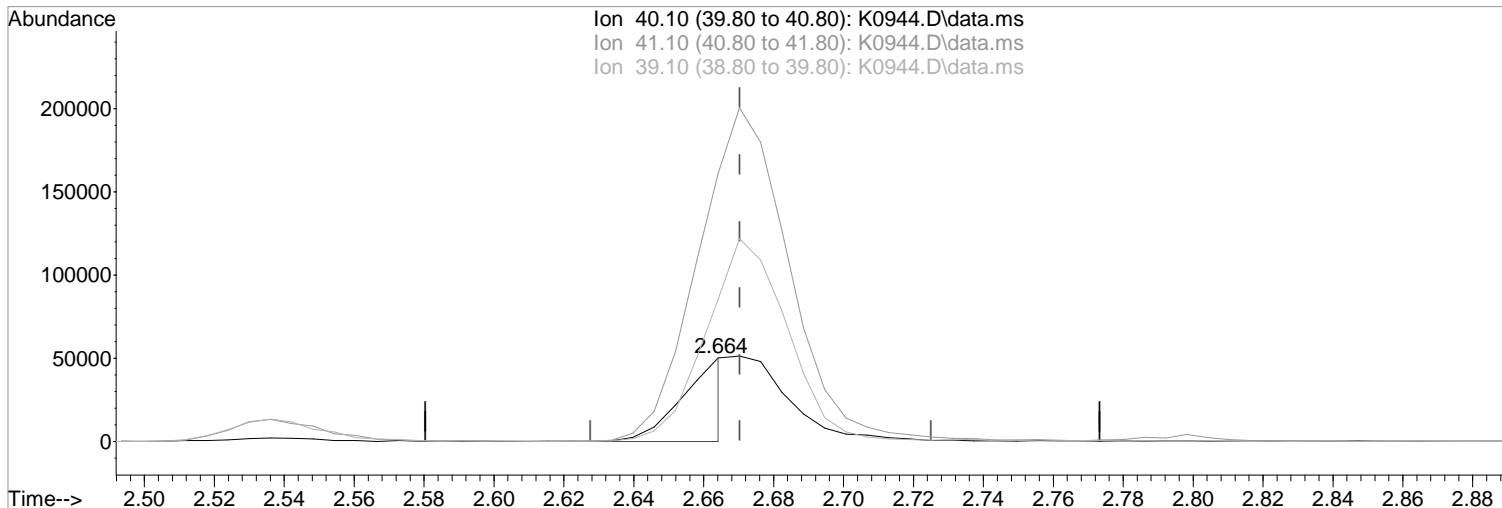
TIC: K0978.D\data.ms



Data Path : I:\ACQUDATA\msvoal2\Data\031721\
Data File : K0944.D
Acq On : 17 Mar 2021 10:25 am
Operator : KRuest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 10:58:56 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



TIC: K0944.D\data.ms

(19) Acetonitrile
2.664min (-0.006) 217.04 ppb m
response 44131

Manual Integration:
After
Poor integration.

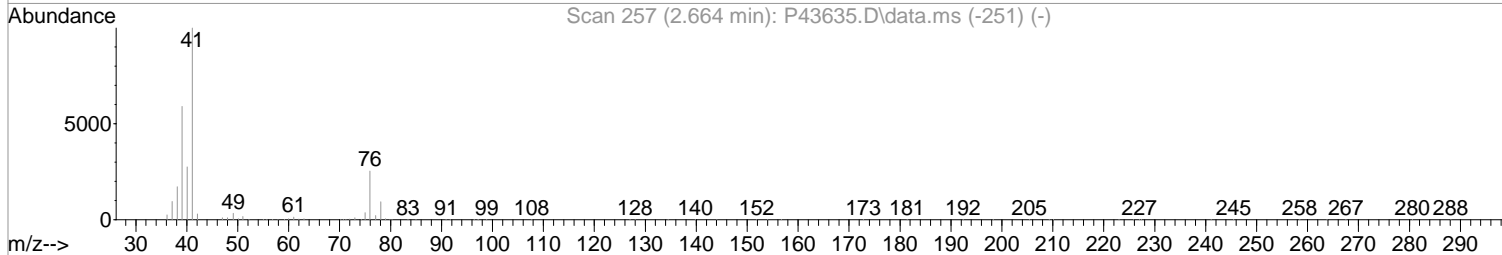
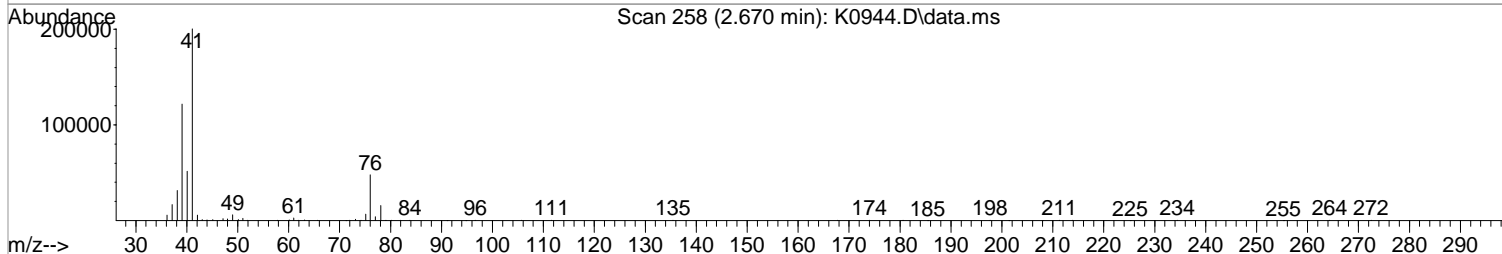
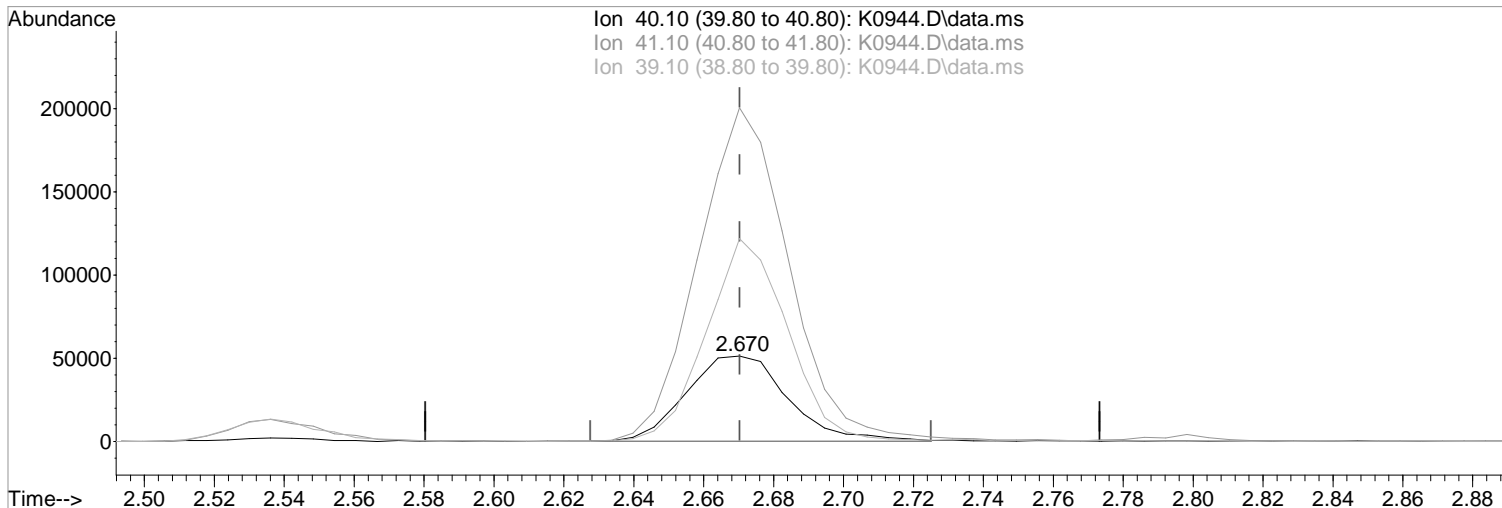
Ion	Exp%	Act%
40.10	100	100
41.10	361.80	321.12#
39.10	213.50	170.25#
0.00	0.00	0.00

03/17/21

Data Path : I:\ACQUDATA\msvoal2\Data\031721\
Data File : K0944.D
Acq On : 17 Mar 2021 10:25 am
Operator : KRuest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 10:58:56 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



(19) Acetonitrile
2.670min (-0.000) 510.58 ppb
response 103816

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	361.80	390.40#
39.10	213.50	237.32#
0.00	0.00	0.00

03/17/21

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0944.D
 Acq On : 17 Mar 2021 10:25 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 10:59:31 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.0000	50.0000	0.0	97	0.00
2 P	Dichlorodifluoromethane	50.0000	50.8996	-1.8	95	0.00
3 P	Chloromethane	50.0000	48.9588	2.1	98	0.00
4 P	Vinyl Chloride	50.0000	44.2579	11.5	84	0.00
5 P	Bromomethane	50.0000	32.3004	35.4#	80	0.00
6 P	Chloroethane	50.0000	40.7590	18.5	86	0.01
7	Freon 21	50.0000	58.3135	-16.6	118	0.00
8 P	Trichlorofluoromethane	50.0000	53.5947	-7.2	110	0.00
9	Diethyl Ether	50.0000	52.9783	-6.0	104	0.00
10	Freon 123a	50.0000	50.4203	-0.8	99	0.00
11	Freon 123	50.0000	51.7264	-3.5	100	0.00
12	Acrolein	250.0000	218.0838	12.8	85	0.00
13 P	1,1-Dicethene	50.0000	46.6006	6.8	99	0.00
14 P	Freon 113	50.0000	47.3031	5.4	98	0.00
15 P	Acetone	50.0000	46.4265	7.1	89	0.00
16	2-Propanol	1000.0000	866.8676	13.3	81	0.00
17	Iodomethane	50.0000	48.8366	2.3	97	0.00
18 P	Carbon Disulfide	50.0000	48.6855	2.6	95	0.00
19	Acetonitrile	250.0000	217.0408	13.2	74	0.00
20	Allyl Chloride	50.0000	47.2264	5.5	108	0.00
21 P	Methyl Acetate	50.0000	49.9517	0.1	99	0.00
22 P	Methylene Chloride	50.0000	47.3489	5.3	99	0.00
23	TBA	1000.0000	822.2286	17.8	79	-0.01
24	Acrylonitrile	250.0000	256.2956	-2.5	99	0.00
25 P	Methyl-t-Butyl Ether	50.0000	50.2125	-0.4	96	0.00
26 P	trans-1,2-Dichloroethene	50.0000	49.1292	1.7	99	0.00
27	Halothane	-1.0000	0.0000	0.0	0	-4.18#
28 P	1,1-Dicethane	50.0000	51.8983	-3.8	103	0.00
29	Vinyl Acetate	50.0000	45.2921	9.4	88	0.00
30	DIPE	50.0000	53.2103	-6.4	105	0.00
31	2-Chloro-1,3-Butadiene	50.0000	51.9917	-4.0	99	0.00
32	ETBE	50.0000	49.9001	0.2	95	-0.01
33	2,2-Dichloropropane	50.0000	47.3248	5.4	94	0.00
34 P	cis-1,2-Dichloroethene	50.0000	50.0785	-0.2	98	0.00
35 P	2-Butanone	50.0000	46.5632	6.9	93	0.00
36	Propionitrile	250.0000	242.2908	3.1	95	-0.01
37	Bromochloromethane	50.0000	47.7052	4.6	94	-0.01
38	Methacrylonitrile	50.0000	49.0009	2.0	95	-0.01
39	Tetrahydrofuran	50.0000	45.2088	9.6	91	0.00
40 P	Chloroform	50.0000	51.0178	-2.0	98	0.00
41 P	1,1,1-Trichloroethane	50.0000	47.1758	5.6	94	0.00
42	TAME	50.0000	48.9012	2.2	92	0.00
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	98	0.00
44 P	Cyclohexane	50.0000	54.9102	-9.8	107	0.00
45 s	surr4,Dibrflmethane	50.0000	52.1854	-4.4	100	0.00
46 P	Carbontetrachloride	50.0000	43.9776	12.0	87	0.00
47	1,1-Dichloropropene	50.0000	51.1402	-2.3	102	-0.01
48 s	surr1,1,2-dichloroethane-d4	50.0000	54.4597	-8.9	104	0.00
49 P	Benzene	50.0000	51.2641	-2.5	101	0.00
50 P	1,2-Dichloroethane	50.0000	52.2095	-4.4	103	0.00
51	Iso-Butyl Alcohol	1000.0000	897.5503	10.2	89	-0.01

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0944.D
 Acq On : 17 Mar 2021 10:25 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 10:59:31 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	n-Heptane	50.0000	61.2349	-22.5#	123	0.00
53	1-Butanol	2500.0000	2185.0359	12.6	82	-0.01
54 P	Trichloroethene	50.0000	46.7943	6.4	95	0.00
55 P	Methylcyclohexane	50.0000	53.4782	-7.0	109	0.00
56 P	1,2-Diclp propane	50.0000	52.5020	-5.0	104	0.00
57	Dibromomethane	50.0000	47.8544	4.3	97	0.00
58	1,4-Dioxane	1000.0000	846.8628	15.3	86	0.00
59	Methyl Methacrylate	50.0000	48.7395	2.5	93	0.00
60 P	Bromodichloromethane	50.0000	49.9234	0.2	97	0.00
61	2-Nitropropane	-1.0000	0.0000	0.0	62	0.00
62	2-Chloroethylvinyl Ether	50.0000	25.5526	48.9#	49	0.00
63 P	cis-1,3-Dichloropropene	50.0000	49.6834	0.6	97	0.00
64 P	4-Methyl-2-pentanone	50.0000	47.6235	4.8	94	0.00
65 s	SURR3,Toluene-d8	50.0000	54.6257	-9.3	103	0.00
66 P	Toluene	50.0000	51.4709	-2.9	102	0.00
67 P	trans-1,3-Dichloropropene	50.0000	49.3290	1.3	96	0.00
68	Ethyl Methacrylate	50.0000	50.4287	-0.9	97	0.00
69 P	1,1,2-Trichloroethane	50.0000	49.4689	1.1	99	0.00
70 s	SURR2,BFB	50.0000	55.5706	-11.1	107	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	98	0.00
72 P	Tetrachloroethene	50.0000	47.0275	5.9	96	0.00
73 P	2-Hexanone	50.0000	45.9130	8.2	91	0.00
74	1,3-Dichloropropene	50.0000	51.3740	-2.7	101	0.00
75 P	Dibromochloromethane	50.0000	46.1601	7.7	90	0.00
76	N-Butyl Acetate	50.0000	51.8209	-3.6	97	0.00
77 P	1,2-Dibromoethane	50.0000	46.7986	6.4	91	0.00
78 P	Chlorobenzene	50.0000	48.4049	3.2	99	0.00
79	3-CBTF	50.0000	48.2927	3.4	93	0.00
80	4-CBTF	50.0000	48.6011	2.8	94	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	46.2264	7.5	91	0.00
82 P	Ethylbenzene	50.0000	48.8224	2.4	101	0.00
83 P	(m+p)Xylene	100.0000	105.1687	-5.2	101	0.00
84 P	o-Xylene	50.0000	49.4811	1.0	99	0.00
85 P	Styrene	50.0000	51.1326	-2.3	96	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	100	0.00
87 P	Bromoform	50.0000	39.0713	21.9#	79	0.00
88	2-CBTF	50.0000	45.3543	9.3	92	0.00
89 P	Isopropylbenzene	50.0000	49.4343	1.1	99	0.00
90	Cyclohexanone	1000.0000	936.9245	6.3	94	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	41.8864	16.2	87	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	46.4564	7.1	97	0.00
93	Bromobenzene	50.0000	47.2888	5.4	97	0.00
94	1,2,3-Trichloropropene	50.0000	42.5397	14.9	89	0.00
95	n-Propylbenzene	50.0000	53.3550	-6.7	103	0.00
96	2-Chlorotoluene	50.0000	51.2223	-2.4	104	0.00
97	3-Chlorotoluene	50.0000	49.7970	0.4	102	0.00
98	4-Chlorotoluene	50.0000	51.0920	-2.2	104	0.00
99	1,3,5-Trimethylbenzene	50.0000	51.1016	-2.2	101	0.00
100	tert-Butylbenzene	50.0000	48.6988	2.6	99	0.00
101	1,2,4-Trimethylbenzene	50.0000	50.9217	-1.8	99	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0944.D
 Acq On : 17 Mar 2021 10:25 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 10:59:31 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	3,4-DCBTF	50.0000	47.4260	5.1	94	0.00
103	sec-Butylbenzene	50.0000	52.5077	-5.0	103	0.00
104	p-Isopropyltoluene	50.0000	51.5360	-3.1	102	0.00
105 P	1,3-Dclbenz	50.0000	47.2849	5.4	98	0.00
106 P	1,4-Dclbenz	50.0000	46.3449	7.3	99	0.00
107	2,4-DCBTF	50.0000	46.8830	6.2	94	0.00
108	2,5-DCBTF	50.0000	46.8405	6.3	94	0.00
109	n-Butylbenzene	50.0000	53.2935	-6.6	106	0.00
110 P	1,2-Dclbenz	50.0000	46.6245	6.8	97	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	39.7178	20.6#	78	0.00
112	Trielution Dichlorotoluene	150.0000	150.3995	-0.3	98	0.00
113	1,3,5 Trichlorobenzene	50.0000	47.5943	4.8	93	0.00
114	Coelution Dichlorotoluene	100.0000	99.4491	0.6	98	0.00
115 P	1,2,4-Tcbenzene	50.0000	47.1556	5.7	95	0.00
116	Hexachlorobt	50.0000	45.6771	8.6	96	0.00
117	Naphthalen	50.0000	47.5671	4.9	87	0.00
118	1,2,3-Tclbenzene	50.0000	46.7938	6.4	93	0.00
119	2,4,5-Trichlorotolene	50.0000	49.9818	0.0	96	0.00
120	2,3,6-Trichlorotoluene	50.0000	46.1618	7.7	92	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0944.D
 Acq On : 17 Mar 2021 10:25 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 10:59:31 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.444	168	325209	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	510901	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	481256	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	272049	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	147581	52.19	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery	=	104.38%		
48) surr1,1,2-dichloroetha...	5.846	65	194458	54.46	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.92%		
65) SURR3,Toluene-d8	8.309	98	678516	54.63	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	109.26%		
70) SURR2,BFB	10.864	95	273737	55.57	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	111.14%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.201	85	206805	50.90	ppb		99
3) Chloromethane	1.329	50	177747	48.96	ppb		99
4) Vinyl Chloride	1.408	62	214552	44.26	ppb		99
5) Bromomethane	1.634	94	124240	32.30	ppb		93
6) Chloroethane	1.713	64	127197	40.76	ppb		98
7) Freon 21	1.865	67	324027	58.31	ppb		98
8) Trichlorofluoromethane	1.908	101	275759	53.59	ppb		97
9) Diethyl Ether	2.146	59	145607	52.98	ppb		98
10) Freon 123a	2.152	67	176100	50.42	ppb		90
11) Freon 123	2.207	83	211739	51.73	ppb		99
12) Acrolein	2.262	56	173143	218.08	ppb		99
13) 1,1-Diclcethene	2.335	96	121035	46.60	ppb		93
14) Freon 113	2.335	101	150951	47.30	ppb		92
15) Acetone	2.402	43	68818	46.43	ppb		94
16) 2-Propanol	2.536	45	312649	866.87	ppb		100
17) Iodomethane	2.469	142	189861	48.84	ppb		98
18) Carbon Disulfide	2.524	76	381272	48.69	ppb		100
19) Acetonitrile	2.664	40	44131m	217.04	ppb		
20) Allyl Chloride	2.676	76	80358	47.23	ppb	#	91
21) Methyl Acetate	2.707	43	186771	49.95	ppb		98
22) Methylene Chloride	2.798	84	161460	47.35	ppb		96
23) TBA	2.945	59	556290	822.23	ppb		95
24) Acrylonitrile	3.079	53	424083	256.30	ppb		98
25) Methyl-t-Butyl Ether	3.091	73	579203	50.21	ppb		96
26) trans-1,2-Dichloroethene	3.085	96	145447	49.13	ppb		98
28) 1,1-Diclcethane	3.597	63	284187	51.90	ppb		97
29) Vinyl Acetate	3.688	86	29388	45.29	ppb	#	95
30) DIPE	3.700	45	462353	53.21	ppb		87
31) 2-Chloro-1,3-Butadiene	3.713	53	248468	51.99	ppb		93
32) ETBE	4.225	59	488201	49.90	ppb		97
33) 2,2-Dichloropropane	4.426	77	257085	47.32	ppb		97
34) cis-1,2-Dichloroethene	4.444	96	178543	50.08	ppb		93
35) 2-Butanone	4.517	43	101116	46.56	ppb		96
36) Propionitrile	4.627	54	177068	242.29	ppb		87
37) Bromochloromethane	4.847	130	111033	47.71	ppb		94
38) Methacrylonitrile	4.883	67	92625	49.00	ppb		91
39) Tetrahydrofuran	4.944	42	67340	45.21	ppb		77
40) Chloroform	5.029	83	290283	51.02	ppb		97
41) 1,1,1-Trichloroethane	5.298	97	255934	47.18	ppb		98

Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0944.D
 Acq On : 17 Mar 2021 10:25 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 17 10:59:31 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	499329	48.90	ppb	99
44) Cyclohexane	5.359	41	164999	54.91	ppb	100
46) Carbontetrachloride	5.560	117	197876	43.98	ppb	97
47) 1,1-Dichloropropene	5.578	75	230801	51.14	ppb	100
49) Benzene	5.901	78	696546	51.26	ppb	96
50) 1,2-Dichloroethane	5.962	62	247659	52.21	ppb	96
51) Iso-Butyl Alcohol	5.956	43	233965	897.55	ppb	93
52) n-Heptane	6.346	43	237156	61.23	ppb	87
53) 1-Butanol	6.901	56	391275	2185.04	ppb	94
54) Trichloroethene	6.834	130	174851	46.79	ppb	98
55) Methylcyclohexane	7.047	55	236467	53.48	ppb	95
56) 1,2-Diclpropane	7.127	63	172495	52.50	ppb	99
57) Dibromomethane	7.273	93	114022	47.85	ppb	98
58) 1,4-Dioxane	7.340	88	72503	846.86	ppb	98
59) Methyl Methacrylate	7.346	69	152661	48.74	ppb	89
60) Bromodichloromethane	7.499	83	222694	49.92	ppb	97
62) 2-Chloroethylvinyl Ether	7.901	63	53212	25.55	ppb	88
63) cis-1,3-Dichloropropene	8.029	75	272431	49.68	ppb	99
64) 4-Methyl-2-pentanone	8.242	43	212670	47.62	ppb	92
66) Toluene	8.383	91	832081	51.47	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	263616	49.33	ppb	99
68) Ethyl Methacrylate	8.797	69	281570	50.43	ppb	98
69) 1,1,2-Trichloroethane	8.858	97	175649	49.47	ppb	99
72) Tetrachloroethene	8.962	164	143151	47.03	ppb	96
73) 2-Hexanone	9.145	43	153576	45.91	ppb	99
74) 1,3-Dichloropropene	9.023	76	301574	51.37	ppb	92
75) Dibromochloromethane	9.248	129	157952	46.16	ppb	99
76) N-Butyl Acetate	9.285	43	324420	51.82	ppb	98
77) 1,2-Dibromoethane	9.340	107	176545	46.80	ppb	99
78) Chlorobenzene	9.821	112	523165	48.40	ppb	96
79) 3-CBTF	9.840	180	282630	48.29	ppb	97
80) 4-CBTF	9.894	180	250329	48.60	ppb	99
81) 1,1,1,2-Tetrachloroethane	9.913	131	168357	46.23	ppb	97
82) Ethylbenzene	9.937	106	289989	48.82	ppb	97
83) (m+p)Xylene	10.047	106	729882	105.17	ppb	99
84) o-Xylene	10.406	106	352223	49.48	ppb	96
85) Styrene	10.419	104	604847	51.13	ppb	97
87) Bromoform	10.583	173	97264	39.07	ppb	94
88) 2-CBTF	10.656	180	270422	45.35	ppb	97
89) Isopropylbenzene	10.736	105	937363	49.43	ppb	99
90) Cyclohexanone	10.821	55	879411	936.92	ppb	96
91) trans-1,4-Dichloro-2-B...	11.059	53	67879	41.89	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.010	83	273882	46.46	ppb	99
93) Bromobenzene	10.986	156	228489	47.29	ppb	# 84
94) 1,2,3-Trichloropropane	11.041	110	88176	42.54	ppb	91
95) n-Propylbenzene	11.089	91	1167959	53.35	ppb	99
96) 2-Chlorotoluene	11.156	91	700231	51.22	ppb	98
97) 3-Chlorotoluene	11.211	91	702610	49.80	ppb	99
98) 4-Chlorotoluene	11.248	91	802545	51.09	ppb	98
99) 1,3,5-Trimethylbenzene	11.242	105	847824	51.10	ppb	98
100) tert-Butylbenzene	11.510	119	702441	48.70	ppb	100
101) 1,2,4-Trimethylbenzene	11.553	105	843964	50.92	ppb	99
102) 3,4-DCBTF	11.614	214	226347	47.43	ppb	100
103) sec-Butylbenzene	11.693	105	1077944	52.51	ppb	98
104) p-Isopropyltoluene	11.815	119	925592	51.54	ppb	98
105) 1,3-Dclbenz	11.778	146	467350	47.28	ppb	99

Data Path : I:\ACQUDATA\msvoal2\Data\031721\
 Data File : K0944.D
 Acq On : 17 Mar 2021 10:25 am
 Operator : KRuest
 Sample : CCV Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 17 10:59:31 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.851	146	483433	46.34	ppb	98
107) 2,4-DCBTF	11.906	214	210062	46.88	ppb	99
108) 2,5-DCBTF	11.943	214	235119	46.84	ppb	91
109) n-Butylbenzene	12.144	91	867115	53.29	ppb	98
110) 1,2-Dclbenz	12.156	146	468778	46.62	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.784	157	63741	39.72	ppb	90
112) Trielution Dichlorotol...	12.894	125	1339126	150.40	ppb	97
113) 1,3,5 Trichlorobenzene	12.943	180	344160	47.59	ppb	98
114) Coelution Dichlorotoluene	13.223	125	977527	99.45	ppb	97
115) 1,2,4-Tcbenzene	13.430	180	357259	47.16	ppb	97
116) Hexachlorobt	13.558	225	152581	45.68	ppb	99
117) Naphthalen	13.625	128	1056270	47.57	ppb	99
118) 1,2,3-Tclbenzene	13.808	180	353662	46.79	ppb	99
119) 2,4,5-Trichlorotolene	14.387	159	274747	49.98	ppb	95
120) 2,3,6-Trichlorotoluene	14.473	159	243142	46.16	ppb	95

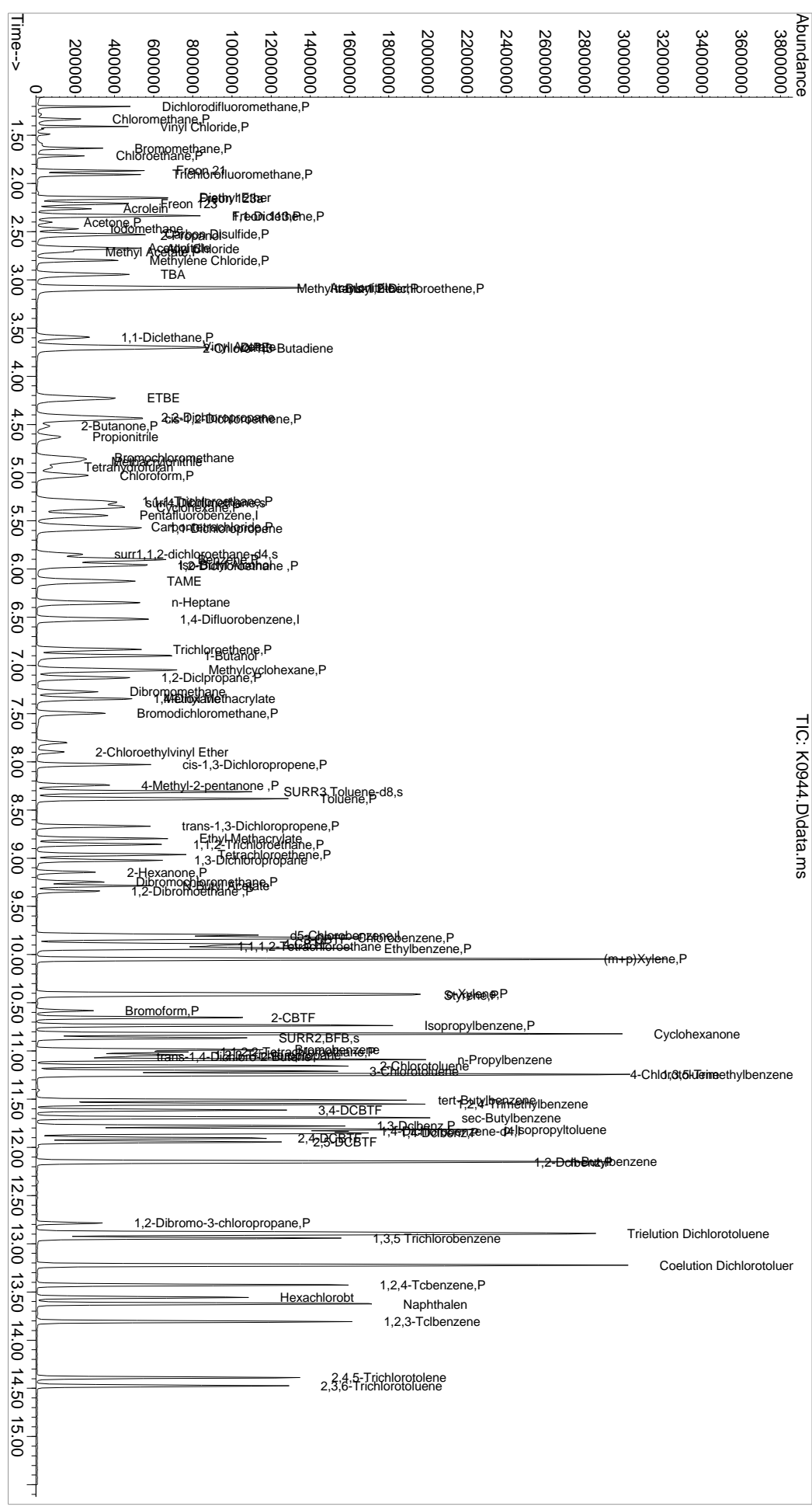
(#) = qualifier out of range (m) = manual integration (+) = signals summed

03/17/21

Data Path : I:\ACQDATA\msvoa12\Data\031721\
 Data File : K0944.D
 Acq On : 17 Mar 2021 10:25 am
 Operator : KRuest
 Sample : CCV
 PALS Vial : 1 Sample Multiplier: 1
 Quant Time: Mar 17 10:59:31 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QIast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Inst : MSVOA-12

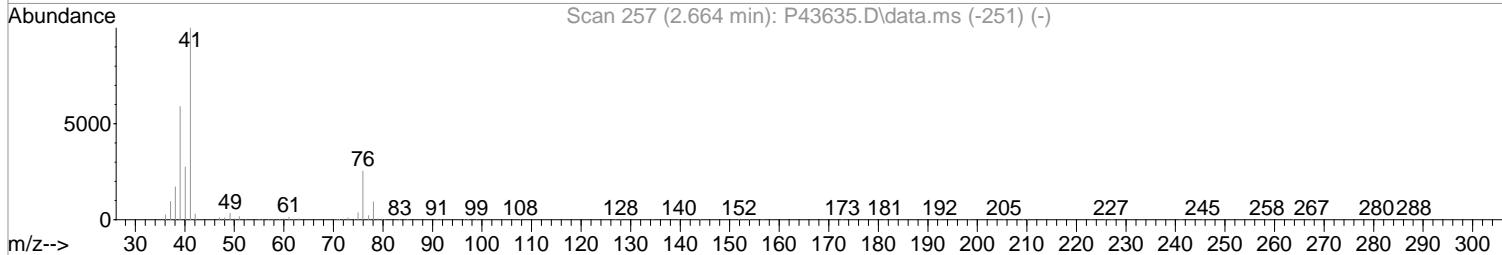
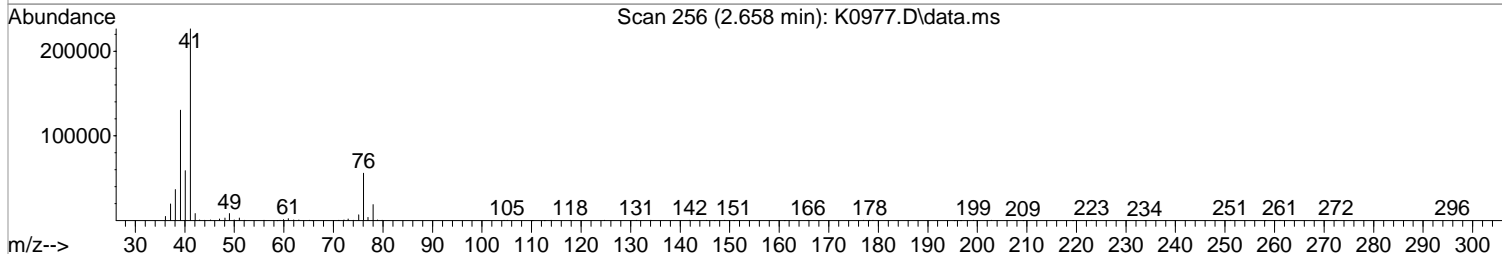
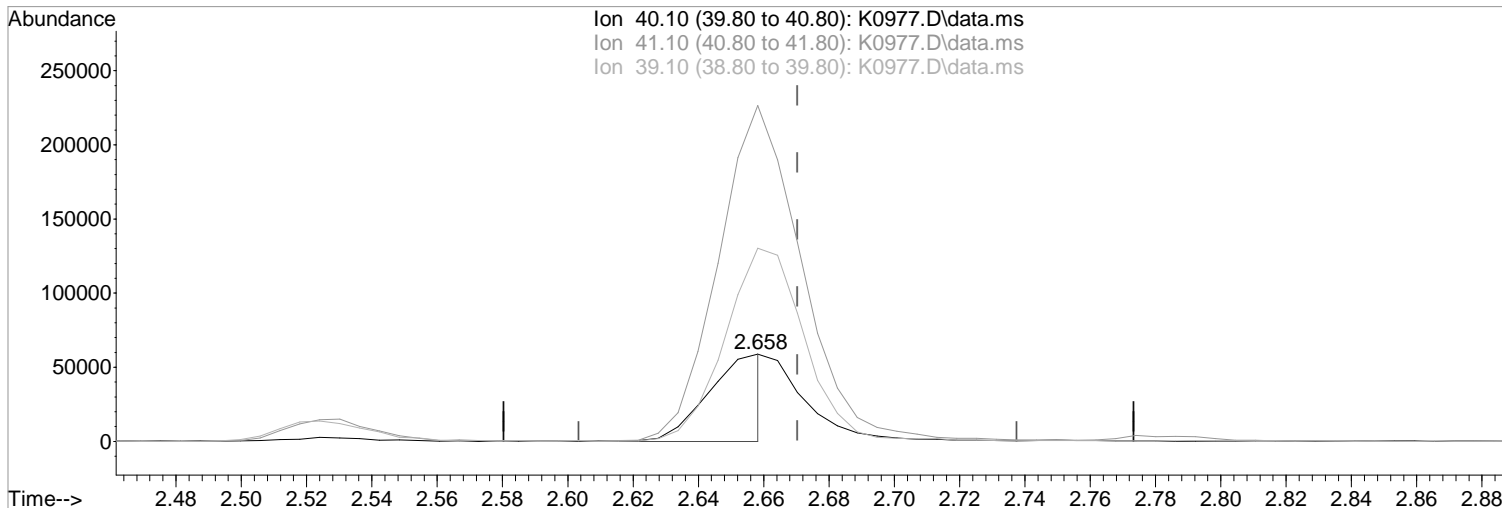
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Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0977.D
Acq On : 18 Mar 2021 10:43 am
Operator : KRuest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:04:07 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



TIC: K0977.D\data.ms

(19) Acetonitrile
2.658min (-0.012) 310.87 ppb m
response 70031

Manual Integration:

After

Poor integration.

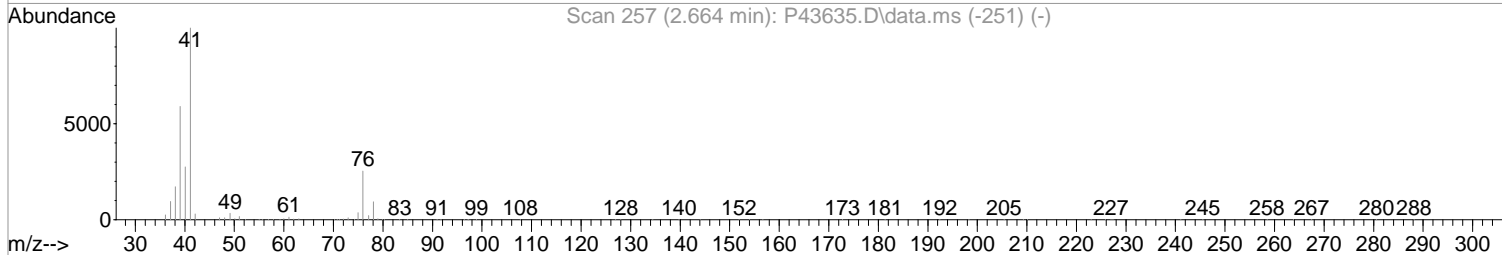
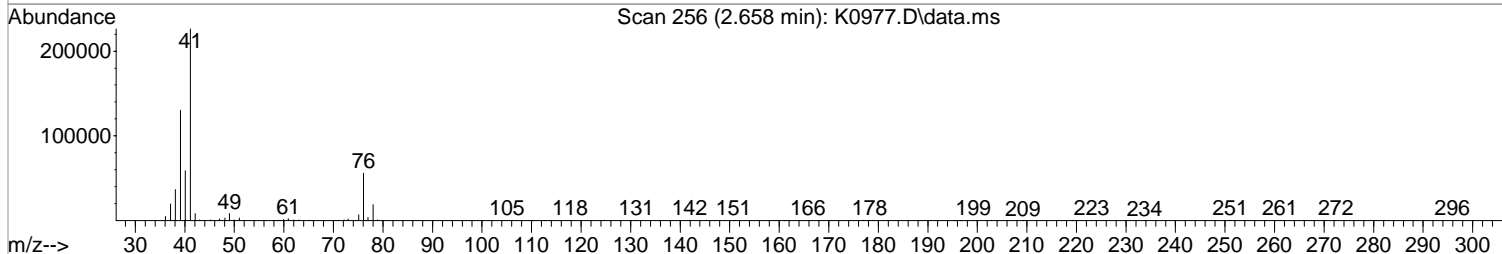
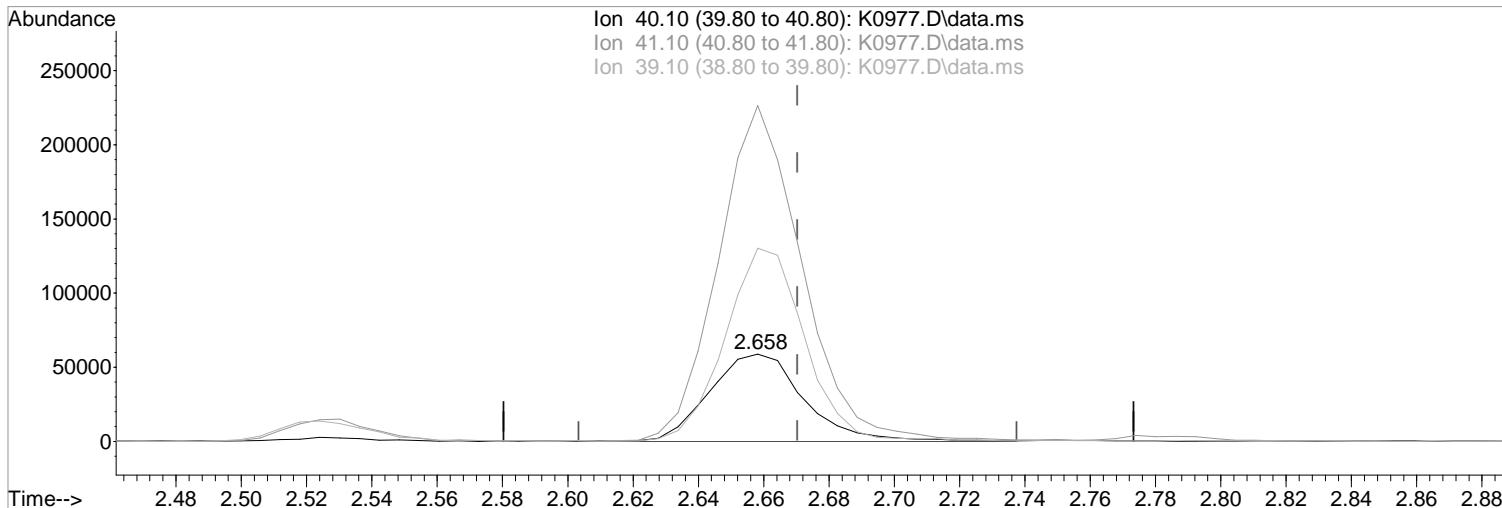
03/18/21

Ion	Exp%	Act%
40.10	100	100
41.10	361.80	384.78#
39.10	213.50	221.20
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0977.D
Acq On : 18 Mar 2021 10:43 am
Operator : KRuest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:04:07 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration



TIC: K0977.D\data.ms

(19) Acetonitrile
2.658min (-0.012) 528.98 ppb
response 119165

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	361.80	384.78#
39.10	213.50	221.20
0.00	0.00	0.00

03/18/21

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0977.D
Acq On : 18 Mar 2021 10:43 am
Operator : KRuest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:22:13 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.0000	50.0000	0.0	107	-0.01
2 P	Dichlorodifluoromethane	50.0000	47.8519	4.3	99	-0.01
3 P	Chloromethane	50.0000	48.9559	2.1	108	-0.01
4 P	Vinyl Chloride	50.0000	43.4911	13.0	91	0.00
5 P	Bromomethane	50.0000	31.7472	36.5#	87	0.00
6 P	Chloroethane	50.0000	41.0525	17.9	96	0.00
7	Freon 21	50.0000	56.6217	-13.2	127	-0.01
8 P	Trichlorofluoromethane	50.0000	53.3832	-6.8	121	0.00
9	Diethyl Ether	50.0000	50.2311	-0.5	109	-0.01
10	Freon 123a	50.0000	49.4962	1.0	107	-0.01
11	Freon 123	50.0000	50.7003	-1.4	109	-0.01
12	Acrolein	250.0000	214.7883	14.1	92	-0.01
13 P	1,1-Dicethene	50.0000	46.6019	6.8	110	-0.01
14 P	Freon 113	50.0000	45.7361	8.5	105	-0.01
15 P	Acetone	50.0000	47.2074	5.6	101	-0.02
16	2-Propanol	1000.0000	874.5015	12.5	90	-0.02
17	Iodomethane	50.0000	47.9113	4.2	106	-0.01
18 P	Carbon Disulfide	50.0000	47.9330	4.1	103	-0.01
19	Acetonitrile	250.0000	310.8718	-24.3#	117	-0.01
20	Allyl Chloride	50.0000	49.1563	1.7	124	-0.01
21 P	Methyl Acetate	50.0000	49.9330	0.1	109	-0.01
22 P	Methylene Chloride	50.0000	45.1314	9.7	105	-0.01
23	TBA	1000.0000	833.7696	16.6	89	-0.02
24	Acrylonitrile	250.0000	249.8697	0.1	106	-0.02
25 P	Methyl-t-Butyl Ether	50.0000	49.4605	1.1	105	-0.01
26 P	trans-1,2-Dichloroethene	50.0000	47.7569	4.5	107	-0.01
27	Halothane	-1.0000	0.0000	0.0	0	-4.18#
28 P	1,1-Dicethane	50.0000	49.8735	0.3	109	-0.01
29	Vinyl Acetate	50.0000	41.5371	16.9	89	-0.01
30	DIPE	50.0000	53.2867	-6.6	116	-0.02
31	2-Chloro-1,3-Butadiene	50.0000	52.2286	-4.5	111	-0.02
32	ETBE	50.0000	49.3211	1.4	104	-0.02
33	2,2-Dichloropropane	50.0000	45.9391	8.1	101	-0.02
34 P	cis-1,2-Dichloroethene	50.0000	48.1619	3.7	104	-0.02
35 P	2-Butanone	50.0000	47.5453	4.9	106	-0.02
36	Propionitrile	250.0000	242.8622	2.9	106	-0.02
37	Bromochloromethane	50.0000	47.9301	4.1	105	-0.02
38	Methacrylonitrile	50.0000	48.6711	2.7	104	-0.02
39	Tetrahydrofuran	50.0000	45.7166	8.6	102	-0.01
40 P	Chloroform	50.0000	50.0358	-0.1	107	-0.02
41 P	1,1,1-Trichloroethane	50.0000	47.1554	5.7	104	-0.01
42	TAME	50.0000	48.1289	3.7	101	-0.01
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	107	0.00
44 P	Cyclohexane	50.0000	53.4364	-6.9	115	-0.01
45 s	surr4,Dibrflmethane	50.0000	51.3949	-2.8	108	-0.01
46 P	Carbontetrachloride	50.0000	45.1238	9.8	98	-0.02
47	1,1-Dichloropropene	50.0000	50.0428	-0.1	110	-0.02
48 s	surr1,1,2-dichloroethane-d4	50.0000	52.9493	-5.9	111	-0.01
49 P	Benzene	50.0000	50.5426	-1.1	109	-0.01
50 P	1,2-Dichloroethane	50.0000	51.2590	-2.5	111	-0.01
51	Iso-Butyl Alcohol	1000.0000	896.6895	10.3	98	-0.02

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
 Data File : K0977.D
 Acq On : 18 Mar 2021 10:43 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:22:13 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	n-Heptane	50.0000	57.8362	-15.7	127	-0.01
53	1-Butanol	2500.0000	2277.4018	8.9	93	-0.02
54 P	Trichloroethene	50.0000	47.0260	5.9	105	-0.01
55 P	Methylcyclohexane	50.0000	52.2911	-4.6	116	-0.01
56 P	1,2-Diclp propane	50.0000	51.9744	-3.9	113	0.00
57	Dibromomethane	50.0000	46.8467	6.3	104	-0.01
58	1,4-Dioxane	1000.0000	865.7040	13.4	97	0.00
59	Methyl Methacrylate	50.0000	49.9446	0.1	104	0.00
60 P	Bromodichloromethane	50.0000	49.8115	0.4	106	0.00
61	2-Nitropropane	-1.0000	0.0000	0.0	72	0.00
62	2-Chloroethylvinyl Ether	50.0000	25.0655	49.9#	53	0.00
63 P	cis-1,3-Dichloropropene	50.0000	50.6954	-1.4	108	0.00
64 P	4-Methyl-2-pentanone	50.0000	50.1225	-0.2	109	-0.01
65 s	SURR3,Toluene-d8	50.0000	52.9309	-5.9	110	0.00
66 P	Toluene	50.0000	50.6140	-1.2	110	0.00
67 P	trans-1,3-Dichloropropene	50.0000	48.8459	2.3	104	0.00
68	Ethyl Methacrylate	50.0000	49.6035	0.8	104	-0.01
69 P	1,1,2-Trichloroethane	50.0000	48.4919	3.0	106	0.00
70 s	SURR2,BFB	50.0000	53.5920	-7.2	113	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	108	0.00
72 P	Tetrachloroethene	50.0000	46.4868	7.0	105	0.00
73 P	2-Hexanone	50.0000	48.9713	2.1	107	0.00
74	1,3-Dichloropropene	50.0000	49.1990	1.6	108	0.00
75 P	Dibromochloromethane	50.0000	46.3371	7.3	100	0.00
76	N-Butyl Acetate	50.0000	52.1283	-4.3	108	0.00
77 P	1,2-Dibromoethane	50.0000	45.9277	8.1	99	0.00
78 P	Chlorobenzene	50.0000	46.9821	6.0	106	0.00
79	3-CBTF	50.0000	47.2829	5.4	101	0.00
80	4-CBTF	50.0000	48.1302	3.7	103	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	47.2545	5.5	103	0.00
82 P	Ethylbenzene	50.0000	48.0813	3.8	110	0.00
83 P	(m+p)Xylene	100.0000	101.8712	-1.9	108	0.00
84 P	o-Xylene	50.0000	48.1591	3.7	106	0.00
85 P	Styrene	50.0000	50.0568	-0.1	105	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	107	0.00
87 P	Bromoform	50.0000	41.4967	17.0	90	0.00
88	2-CBTF	50.0000	46.7604	6.5	103	0.00
89 P	Isopropylbenzene	50.0000	49.7880	0.4	108	0.00
90	Cyclohexanone	1000.0000	1036.7447	-3.7	112	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	40.4684	19.1	90	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	46.2439	7.5	104	0.00
93	Bromobenzene	50.0000	48.0782	3.8	106	0.00
94	1,2,3-Trichloropropene	50.0000	44.0131	12.0	99	0.00
95	n-Propylbenzene	50.0000	53.7786	-7.6	112	0.00
96	2-Chlorotoluene	50.0000	51.2517	-2.5	112	0.00
97	3-Chlorotoluene	50.0000	51.5134	-3.0	114	0.00
98	4-Chlorotoluene	50.0000	51.2944	-2.6	113	0.00
99	1,3,5-Trimethylbenzene	50.0000	51.4946	-3.0	109	0.00
100	tert-Butylbenzene	50.0000	49.1749	1.7	108	0.00
101	1,2,4-Trimethylbenzene	50.0000	51.0730	-2.1	107	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
 Data File : K0977.D
 Acq On : 18 Mar 2021 10:43 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:22:13 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	3,4-DCBTF	50.0000	46.7870	6.4	100	0.00
103	sec-Butylbenzene	50.0000	52.0476	-4.1	110	0.00
104	p-Isopropyltoluene	50.0000	51.0921	-2.2	109	0.00
105 P	1,3-Dclbenz	50.0000	47.5375	4.9	106	0.00
106 P	1,4-Dclbenz	50.0000	45.5320	8.9	105	0.00
107	2,4-DCBTF	50.0000	46.9713	6.1	101	0.00
108	2,5-DCBTF	50.0000	46.3718	7.3	100	0.00
109	n-Butylbenzene	50.0000	52.7293	-5.5	113	0.00
110 P	1,2-Dclbenz	50.0000	46.1254	7.7	104	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	39.0588	21.9#	83	0.00
112	Trielution Dichlorotoluene	150.0000	148.5975	0.9	105	0.00
113	1,3,5 Trichlorobenzene	50.0000	47.6358	4.7	101	0.00
114	Coelution Dichlorotoluene	100.0000	98.4308	1.6	104	0.00
115 P	1,2,4-Tcbenzene	50.0000	45.8395	8.3	100	0.00
116	Hexachlorobt	50.0000	43.2753	13.4	98	0.00
117	Naphthalen	50.0000	47.0150	6.0	93	0.00
118	1,2,3-Tclbenzene	50.0000	45.7564	8.5	98	0.00
119	2,4,5-Trichlorotolene	50.0000	48.7110	2.6	100	0.00
120	2,3,6-Trichlorotoluene	50.0000	46.1303	7.7	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
 Data File : K0977.D
 Acq On : 18 Mar 2021 10:43 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:22:13 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	360304	50.00	ppb	-0.01
43) 1,4-Difluorobenzene	6.517	114	559629	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	533202	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	293400	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	159208	51.39	ppb	-0.01
Spiked Amount	50.000	Range 80 - 116	Recovery =	102.78%		
48) surr1,1,2-dichloroetha...	5.840	65	207097	52.95	ppb	-0.01
Spiked Amount	50.000	Range 73 - 125	Recovery =	105.90%		
65) SURR3,Toluene-d8	8.309	98	720171	52.93	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	105.86%		
70) SURR2,BFB	10.864	95	289169	53.59	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	107.18%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.189	85	215403	47.85	ppb	97
3) Chloromethane	1.317	50	196917	48.96	ppb	98
4) Vinyl Chloride	1.396	62	233587	43.49	ppb	99
5) Bromomethane	1.622	94	135290	31.75	ppb	95
6) Chloroethane	1.701	64	141938	41.05	ppb	97
7) Freon 21	1.853	67	348579	56.62	ppb	99
8) Trichlorofluoromethane	1.896	101	304312	53.38	ppb	95
9) Diethyl Ether	2.134	59	152955	50.23	ppb	98
10) Freon 123a	2.140	67	191528	49.50	ppb	93
11) Freon 123	2.195	83	229935	50.70	ppb	98
12) Acrolein	2.250	56	188929	214.79	ppb	97
13) 1,1-Dicethene	2.323	96	134100	46.60	ppb	95
14) Freon 113	2.323	101	161701	45.74	ppb	89
15) Acetone	2.390	43	77527	47.21	ppb	94
16) 2-Propanol	2.524	45	349439	874.50	ppb	99
17) Iodomethane	2.457	142	205835	47.91	ppb	100
18) Carbon Disulfide	2.512	76	415888	47.93	ppb	99
19) Acetonitrile	2.658	40	70031m	310.87	ppb	
20) Allyl Chloride	2.664	76	92668	49.16	ppb	95
21) Methyl Acetate	2.695	43	206849	49.93	ppb	99
22) Methylene Chloride	2.786	84	170506	45.13	ppb	89
23) TBA	2.933	59	624973	833.77	ppb	93
24) Acrylonitrile	3.067	53	458068	249.87	ppb	95
25) Methyl-t-Butyl Ether	3.079	73	632098	49.46	ppb	96
26) trans-1,2-Dichloroethene	3.073	96	156642	47.76	ppb	97
28) 1,1-Dicethane	3.585	63	302571	49.87	ppb	96
29) Vinyl Acetate	3.682	86	29860	41.54	ppb	# 72
30) DIPE	3.688	45	512983	53.29	ppb	85
31) 2-Chloro-1,3-Butadiene	3.695	53	276536	52.23	ppb	99
32) ETBE	4.219	59	534609	49.32	ppb	95
33) 2,2-Dichloropropane	4.414	77	276488	45.94	ppb	96
34) cis-1,2-Dichloroethene	4.432	96	190240	48.16	ppb	100
35) 2-Butanone	4.505	43	114391	47.55	ppb	87
36) Propionitrile	4.621	54	196639	242.86	ppb	93
37) Bromochloromethane	4.835	130	123595	47.93	ppb	92
38) Methacrylonitrile	4.877	67	101930	48.67	ppb	90
39) Tetrahydrofuran	4.932	42	75445	45.72	ppb	87
40) Chloroform	5.017	83	315419	50.04	ppb	98
41) 1,1,1-Trichloroethane	5.292	97	283431	47.16	ppb	99

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
 Data File : K0977.D
 Acq On : 18 Mar 2021 10:43 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:22:13 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.121	73	544478	48.13	ppb	97
44) Cyclohexane	5.353	41	175885	53.44	ppb	96
46) Carbontetrachloride	5.548	117	222398	45.12	ppb	97
47) 1,1-Dichloropropene	5.572	75	247389	50.04	ppb	98
49) Benzene	5.895	78	752242	50.54	ppb	98
50) 1,2-Dichloroethane	5.956	62	266341	51.26	ppb	97
51) Iso-Butyl Alcohol	5.950	43	256034	896.69	ppb	99
52) n-Heptane	6.340	43	245357	57.84	ppb	93
53) 1-Butanol	6.895	56	446711	2277.40	ppb	97
54) Trichloroethene	6.828	130	192476	47.03	ppb	97
55) Methylcyclohexane	7.041	55	253271	52.29	ppb	93
56) 1,2-Diclpropane	7.127	63	187048	51.97	ppb	95
57) Dibromomethane	7.267	93	122267	46.85	ppb	94
58) 1,4-Dioxane	7.334	88	81185	865.70	ppb	100
59) Methyl Methacrylate	7.346	69	171356	49.94	ppb	91
60) Bromodichloromethane	7.493	83	243387	49.81	ppb	99
62) 2-Chloroethylvinyl Ether	7.895	63	57176	25.07	ppb	95
63) cis-1,3-Dichloropropene	8.029	75	304493	50.70	ppb	100
64) 4-Methyl-2-pentanone	8.236	43	245178	50.12	ppb	99
66) Toluene	8.383	91	896268	50.61	ppb	97
67) trans-1,3-Dichloropropene	8.669	75	285931	48.85	ppb	98
68) Ethyl Methacrylate	8.791	69	303378	49.60	ppb	93
69) 1,1,2-Trichloroethane	8.858	97	188602	48.49	ppb	98
72) Tetrachloroethene	8.962	164	156779	46.49	ppb	93
73) 2-Hexanone	9.145	43	181487	48.97	ppb	97
74) 1,3-Dichloropropene	9.023	76	319980	49.20	ppb	91
75) Dibromochloromethane	9.242	129	175672	46.34	ppb	95
76) N-Butyl Acetate	9.285	43	361570	52.13	ppb	97
77) 1,2-Dibromoethane	9.340	107	191961	45.93	ppb	99
78) Chlorobenzene	9.821	112	562597	46.98	ppb	93
79) 3-CBTF	9.834	180	306589	47.28	ppb	98
80) 4-CBTF	9.895	180	274662	48.13	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.913	131	190678	47.25	ppb	94
82) Ethylbenzene	9.937	106	316413	48.08	ppb	92
83) (m+p)Xylene	10.047	106	783309	101.87	ppb	96
84) o-Xylene	10.407	106	379815	48.16	ppb	95
85) Styrene	10.419	104	656034	50.06	ppb	96
87) Bromoform	10.583	173	111409	41.50	ppb	98
88) 2-CBTF	10.650	180	300687	46.76	ppb	99
89) Isopropylbenzene	10.736	105	1018163	49.79	ppb	98
90) Cyclohexanone	10.821	55	1049475	1036.74	ppb	97
91) trans-1,4-Dichloro-2-B...	11.059	53	70728	40.47	ppb	95
92) 1,1,2,2-Tetrachloroethane	11.010	83	294026	46.24	ppb	99
93) Bromobenzene	10.986	156	250535	48.08	ppb	# 87
94) 1,2,3-Trichloropropane	11.041	110	98390	44.01	ppb	95
95) n-Propylbenzene	11.089	91	1269625	53.78	ppb	100
96) 2-Chlorotoluene	11.156	91	755620	51.25	ppb	99
97) 3-Chlorotoluene	11.211	91	783872	51.51	ppb	98
98) 4-Chlorotoluene	11.248	91	868959	51.29	ppb	99
99) 1,3,5-Trimethylbenzene	11.242	105	921396	51.49	ppb	99
100) tert-Butylbenzene	11.510	119	764975	49.17	ppb	99
101) 1,2,4-Trimethylbenzene	11.553	105	912905	51.07	ppb	98
102) 3,4-DCBTF	11.614	214	240822	46.79	ppb	98
103) sec-Butylbenzene	11.693	105	1152355	52.05	ppb	99
104) p-Isopropyltoluene	11.815	119	989636	51.09	ppb	99
105) 1,3-Dclbenz	11.778	146	506721	47.54	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
 Data File : K0977.D
 Acq On : 18 Mar 2021 10:43 am
 Operator : KRuest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 18 11:22:13 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.851	146	512228	45.53	ppb	96
107) 2,4-DCBTF	11.906	214	226975	46.97	ppb	98
108) 2,5-DCBTF	11.943	214	251034	46.37	ppb	93
109) n-Butylbenzene	12.144	91	925268	52.73	ppb	97
110) 1,2-Dclbenz	12.156	146	500157	46.13	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.784	157	67603	39.06	ppb	87
112) Trielution Dichlorotol...	12.894	125	1426920	148.60	ppb	98
113) 1,3,5 Trichlorobenzene	12.943	180	371494	47.64	ppb	99
114) Coelution Dichlorotoluene	13.223	125	1043450	98.43	ppb	99
115) 1,2,4-Tcbenzene	13.430	180	374544	45.84	ppb	100
116) Hexachlorobt	13.558	225	155903	43.28	ppb	98
117) Naphthalen	13.626	128	1125946	47.01	ppb	98
118) 1,2,3-Tclbenzene	13.808	180	372962	45.76	ppb	97
119) 2,4,5-Trichlorotolene	14.388	159	288776	48.71	ppb	96
120) 2,3,6-Trichlorotoluene	14.473	159	262045	46.13	ppb	95

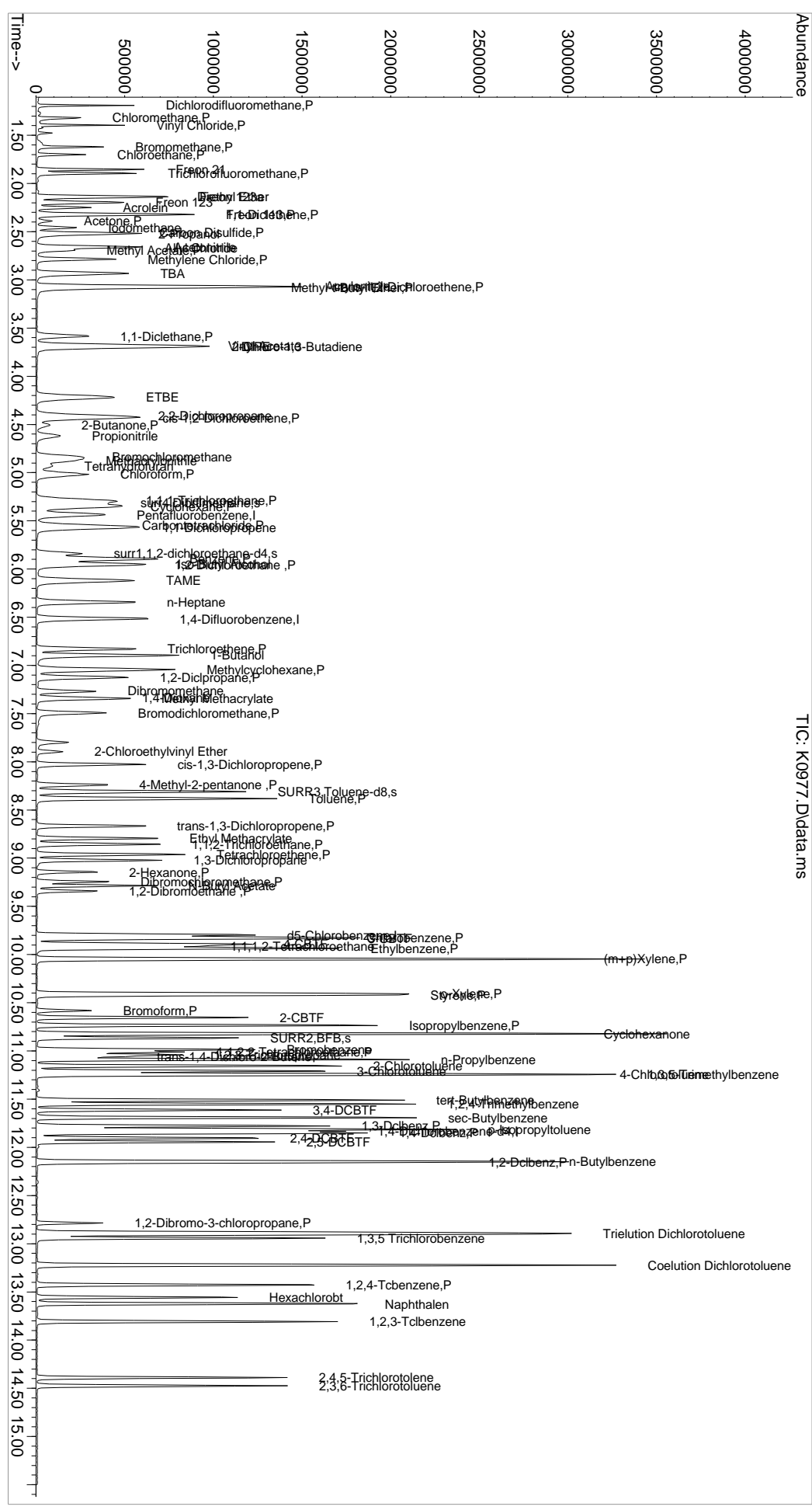
(#) = qualifier out of range (m) = manual integration (+) = signals summed

03/18/21

Data Path : I:\ACQDATA\msvoa12\Data\031821\
 Data File : K0977.D
 Acq On : 18 Mar 2021 10:43 am
 Operator : KRuest
 Sample : CCV
 PALS Vial : 1 Sample Multiplier: 1
 Quant Time: Mar 18 11:22:13 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Inst : MSVOA-12

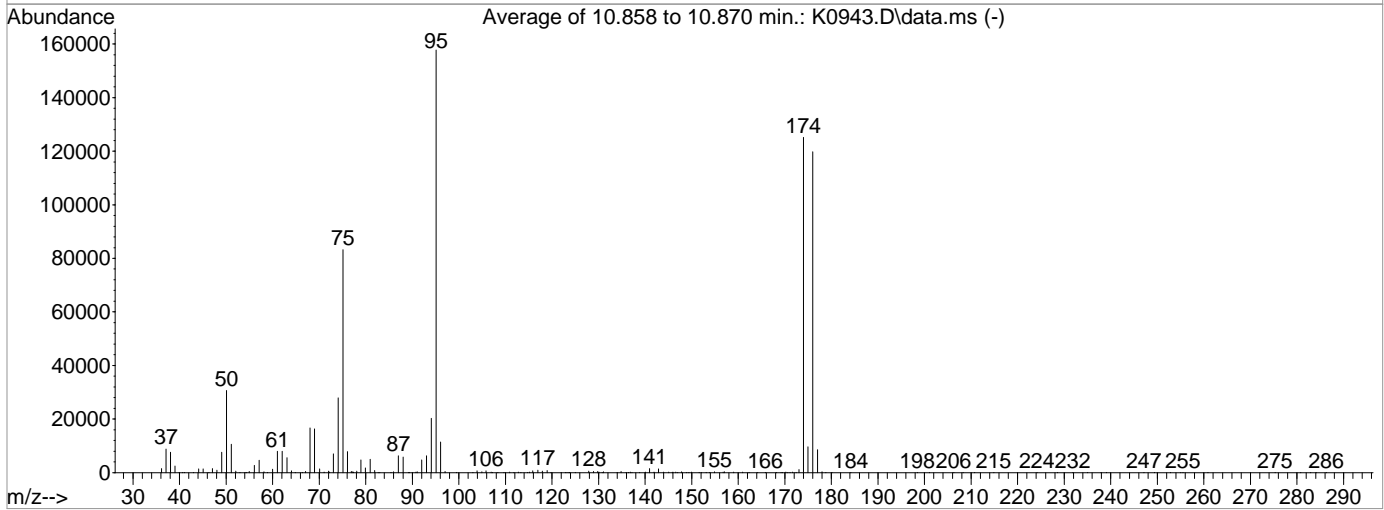
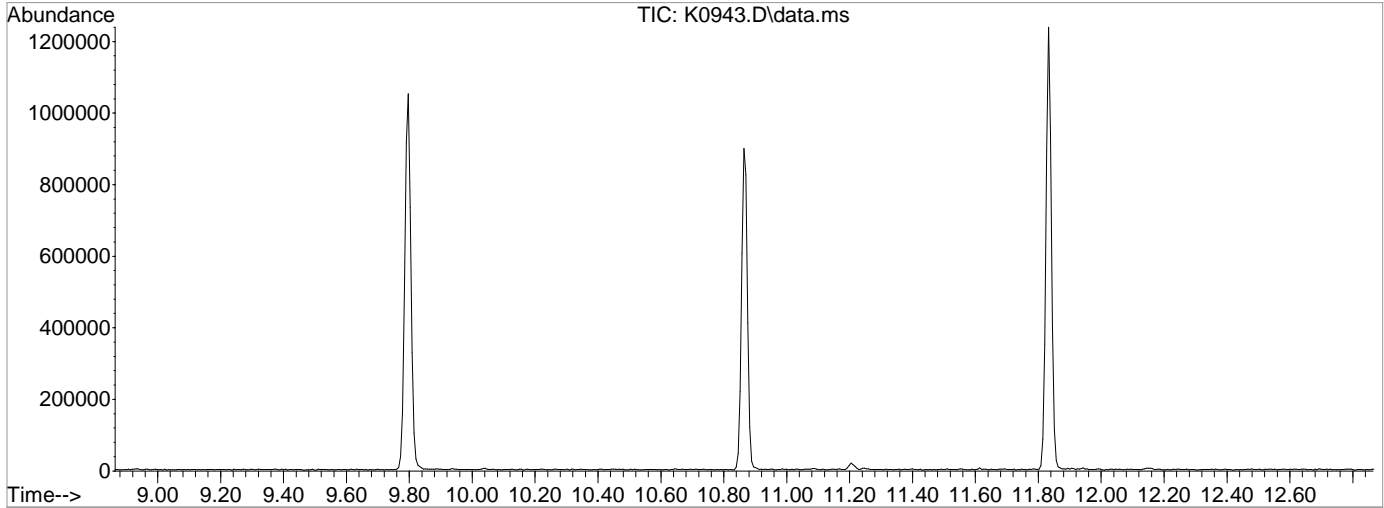
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Data Path : I:\ACQUDATA\msvoa12\Data\031721\
 Data File : K0943.D
 Acq On : 17 Mar 2021 9:52 am
 Operator : KRuest
 Sample : TUNE
 Misc :
 ALS Vial : 2 Sample Multiplier: 1
 Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Tue Feb 09 17:27:18 2021



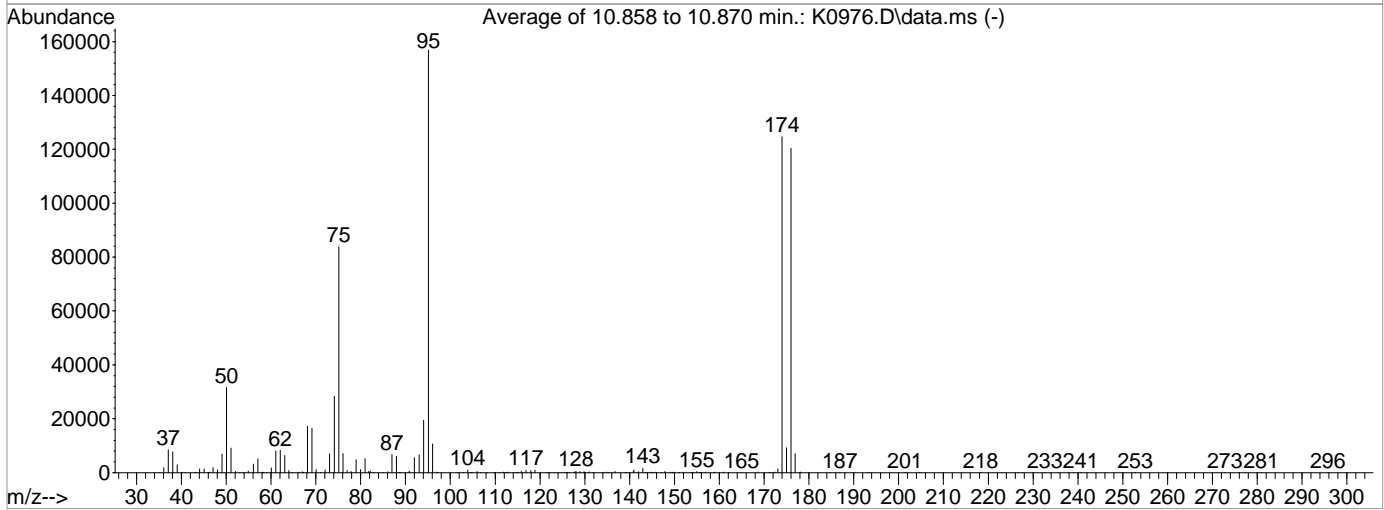
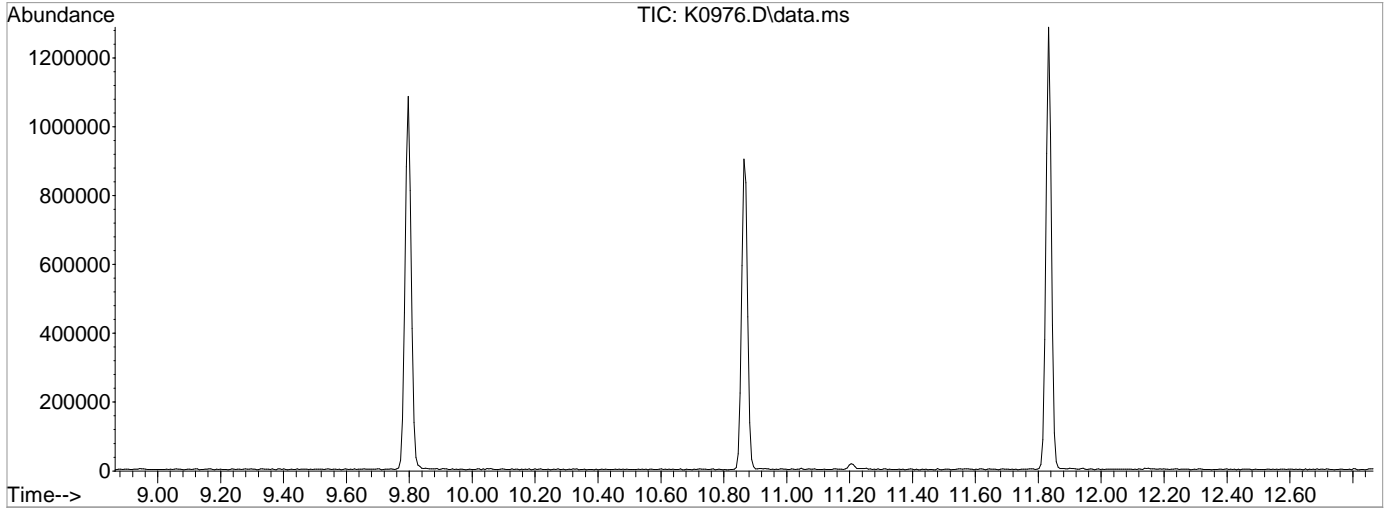
AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1595

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	30645	PASS
75	95	30	60	52.7	83205	PASS
95	95	100	100	100.0	157837	PASS
96	95	5	9	7.3	11445	PASS
173	174	0.00	2	0.9	1134	PASS
174	95	50	120	79.3	125157	PASS
175	174	5	9	7.7	9675	PASS
176	174	95	101	95.7	119771	PASS
177	176	5	9	7.2	8567	PASS

Data Path : I:\ACQUDATA\msvoa12\Data\031821\
Data File : K0976.D
Acq On : 18 Mar 2021 10:13 am
Operator : KRuest
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1
Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Feb 09 17:27:18 2021



AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1595

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	31557	PASS
75	95	30	60	53.4	83811	PASS
95	95	100	100	100.0	156933	PASS
96	95	5	9	6.8	10593	PASS
173	174	0.00	2	1.1	1359	PASS
174	95	50	120	79.5	124749	PASS
175	174	5	9	7.3	9156	PASS
176	174	95	101	96.5	120360	PASS
177	176	5	9	5.8	7040	PASS

ALS Group USA, Corp.

DBA ALS Environmental

QC/QC Report

Date Analyzed: 2/5/21 13:55

ICAL Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\020521\F3290.D
Instrument ID: R-MS-14

Analytical Method: 8260C/624.1

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	19.0	29475	PASS
75	95	30	60	53.1	82384	PASS
95	95	100	100	100.0	155072	PASS
96	95	5	9	7.0	10861	PASS
173	174	0	2	1.1	1314	PASS
174	95	50	120	78.2	121283	PASS
175	174	5	9	7.2	8778	PASS
176	174	95	101	95.2	115493	PASS
177	176	5	9	6.2	7150	PASS

Sample Name	Lab Code	File ID:	Date Analyzes: Q
ICALBLK	ICALBLK	I:\ACQUDATA\MSVOA14\DATA\020521\F3291.D	2/5/21 14:23
0.5 PPB STD	0.5 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3292.D	2/5/21 14:45
1.0 PPB STD	1.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3293.D	2/5/21 15:08
2.0 PPB STD	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3294.D	2/5/21 15:30
5.0 PPB STD	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3295.D	2/5/21 15:52
20 PPB STD	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3296.D	2/5/21 16:15
50 PPB STD	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3297.D	2/5/21 16:37
100 PPB STD	100 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3298.D	2/5/21 16:59
150 PPB STD	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3299.D	2/5/21 17:22
200 PPB STD	200 PPB STD	I:\ACQUDATA\MSVOA14\DATA\020521\F3300.D	2/5/21 17:44
50 PPB ICV	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\020521\F3304.D	2/5/21 19:13

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43642.D
 Acq On : 9 Feb 2021 4:33 pm
 Operator : K.Ruest
 Sample : ICV 50
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 17:47:13 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	331328	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	526271	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	491076	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	271743	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	150475	51.65	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	103.30%	
48) surr1,1,2-dichloroetha...	5.847	65	192719	52.40	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	104.80%	
65) SURR3,Toluene-d8	8.316	98	660377	51.61	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	103.22%	
70) SURR2,BFB	10.870	95	257687	50.78	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	101.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.189	85	211555	51.11	ppb	95
3) Chloromethane	1.317	50	188541	50.97	ppb	93
4) Vinyl Chloride	1.396	62	251572	50.94	ppb	99
5) Bromomethane	1.622	94	119099m	30.39	ppb	
6) Chloroethane	1.695	64	157586	49.56	ppb	97
7) Freon 21	1.853	67	241533	42.66	ppb	98
8) Trichlorofluoromethane	1.890	101	255480	48.74	ppb	96
9) Diethyl Ether	2.134	59	144261	51.52	ppb	97
10) Freon 123a	2.146	67	186055	52.29	ppb	98
11) Freon 123	2.201	83	195581	46.90	ppb	99
12) Acrolein	2.256	56	72786	89.99	ppb	98
13) 1,1-Diclcethene	2.323	96	145905	55.14	ppb	97
14) Freon 113	2.323	101	153163	47.11	ppb	90
15) Acetone	2.396	43	68766	45.53	ppb	95
16) 2-Propanol	2.530	45	349925	952.30	ppb	97
17) Iodomethane	2.463	142	165639	42.61	ppb	99
18) Carbon Disulfide	2.518	76	375482	47.06	ppb	100
19) Acetonitrile	2.658	40	49077m	236.91	ppb	
20) Allyl Chloride	2.664	76	85381	49.25	ppb	99
21) Methyl Acetate	2.701	43	149959	39.37	ppb	98
22) Methylene Chloride	2.786	84	166900	48.04	ppb	97
23) TBA	2.939	59	709043	1028.65	ppb	99
24) Acrylonitrile	3.073	53	435804	258.52	ppb	98
25) Methyl-t-Butyl Ether	3.085	73	611865	52.06	ppb	99
26) trans-1,2-Dichloroethene	3.073	96	167758	55.62	ppb	98
28) 1,1-Diclcethane	3.585	63	275439	49.37	ppb	96
29) Vinyl Acetate	3.682	86	43008	65.06	ppb	# 82
30) DIPE	3.695	45	487589	55.08	ppb	95
31) 2-Chloro-1,3-Butadiene	3.701	53	228316	46.89	ppb	98
32) ETBE	4.231	59	509386	51.10	ppb	97
33) 2,2-Dichloropropane	4.420	77	273276	49.38	ppb	96
34) cis-1,2-Dichloroethene	4.444	96	191265	52.66	ppb	91
35) 2-Butanone	4.518	43	105364	47.62	ppb	99
36) Propionitrile	4.627	54	187913	252.38	ppb	90
37) Bromochloromethane	4.847	130	123015	51.88	ppb	90
38) Methacrylonitrile	4.883	67	101486	52.70	ppb	99
39) Tetrahydrofuran	4.944	42	68328	45.02	ppb	94
40) Chloroform	5.030	83	293312	50.60	ppb	99
41) 1,1,1-Trichloroethane	5.298	97	278114	50.32	ppb	96

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43642.D
 Acq On : 9 Feb 2021 4:33 pm
 Operator : K.Ruest
 Sample : ICV 50
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 17:47:13 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	573376	55.12	ppb	99
44) Cyclohexane	5.359	41	137361	44.38	ppb	94
46) Carbontetrachloride	5.560	117	229027	49.41	ppb	96
47) 1,1-Dichloropropene	5.578	75	220513	47.43	ppb	98
49) Benzene	5.901	78	688751	49.21	ppb	99
50) 1,2-Dichloroethane	5.962	62	242703	49.67	ppb	98
51) Iso-Butyl Alcohol	5.956	43	268367	999.46	ppb	100
52) n-Heptane	6.353	43	194818	48.83	ppb	97
53) 1-Butanol	6.901	56	473444	2566.68	ppb	99
54) Trichloroethene	6.834	130	185466	48.19	ppb	97
55) Methylcyclohexane	7.048	55	198754	43.64	ppb	98
56) 1,2-Diclpropane	7.133	63	161023	47.58	ppb	98
57) Dibromomethane	7.273	93	115740	47.16	ppb	94
58) 1,4-Dioxane	7.340	88	85761	972.47	ppb	94
59) Methyl Methacrylate	7.346	69	171100	53.03	ppb	98
60) Bromodichloromethane	7.499	83	222409	48.40	ppb	99
62) 2-Chloroethylvinyl Ether	7.901	63	101036	47.10	ppb	96
63) cis-1,3-Dichloropropene	8.035	75	273115	48.35	ppb	97
64) 4-Methyl-2-pentanone	8.242	43	217926	47.38	ppb	98
66) Toluene	8.389	91	820932	49.30	ppb	98
67) trans-1,3-Dichloropropene	8.669	75	269189	48.90	ppb	97
68) Ethyl Methacrylate	8.797	69	305315	53.08	ppb	97
69) 1,1,2-Trichloroethane	8.858	97	182089	49.78	ppb	98
72) Tetrachloroethene	8.968	164	152487	49.09	ppb	92
73) 2-Hexanone	9.145	43	165807	48.58	ppb	96
74) 1,3-Dichloropropane	9.023	76	292555	48.84	ppb	94
75) Dibromochloromethane	9.248	129	182345	52.22	ppb	99
76) N-Butyl Acetate	9.291	43	326106	51.05	ppb	96
77) 1,2-Dibromoethane	9.346	107	193508	50.27	ppb	99
78) Chlorobenzene	9.827	112	535676	48.57	ppb	99
79) 3-CBTF	9.840	180	292115	48.92	ppb	99
80) 4-CBTF	9.895	180	259116	49.30	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.913	131	194768	52.41	ppb	99
82) Ethylbenzene	9.937	106	296532	48.93	ppb	93
83) (m+p)Xylene	10.047	106	743181	104.94	ppb	99
84) o-Xylene	10.407	106	366882	50.51	ppb	98
85) Styrene	10.425	104	598923	49.62	ppb	97
87) Bromoform	10.583	173	126267	50.78	ppb	100
88) 2-CBTF	10.657	180	287252	48.23	ppb	95
89) Isopropylbenzene	10.736	105	978734	51.67	ppb	97
90) Cyclohexanone	10.821	55	1021514	1089.55	ppb	98
91) trans-1,4-Dichloro-2-B...	11.059	53	82350	50.87	ppb	96
92) 1,1,2,2-Tetrachloroethane	11.016	83	293277	49.80	ppb	100
93) Bromobenzene	10.992	156	240192	49.77	ppb	99
94) 1,2,3-Trichloropropane	11.041	110	96285	46.50	ppb	95
95) n-Propylbenzene	11.089	91	1157186	52.92	ppb	99
96) 2-Chlorotoluene	11.156	91	688722	50.44	ppb	100
97) 3-Chlorotoluene	11.211	91	671958	47.68	ppb	100
98) 4-Chlorotoluene	11.248	91	779361	49.67	ppb	97
99) 1,3,5-Trimethylbenzene	11.242	105	852900	51.47	ppb	99
100) tert-Butylbenzene	11.510	119	746384	51.80	ppb	98
101) 1,2,4-Trimethylbenzene	11.553	105	859026	51.89	ppb	98
102) 3,4-DCBTF	11.614	214	230429	48.34	ppb	99
103) sec-Butylbenzene	11.693	105	1094889	53.39	ppb	100
104) p-Isopropyltoluene	11.815	119	925206	51.57	ppb	99
105) 1,3-Dclbenz	11.778	146	485331	49.16	ppb	99

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43642.D
 Acq On : 9 Feb 2021 4:33 pm
 Operator : K.Ruest
 Sample : ICV 50
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 17:47:13 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

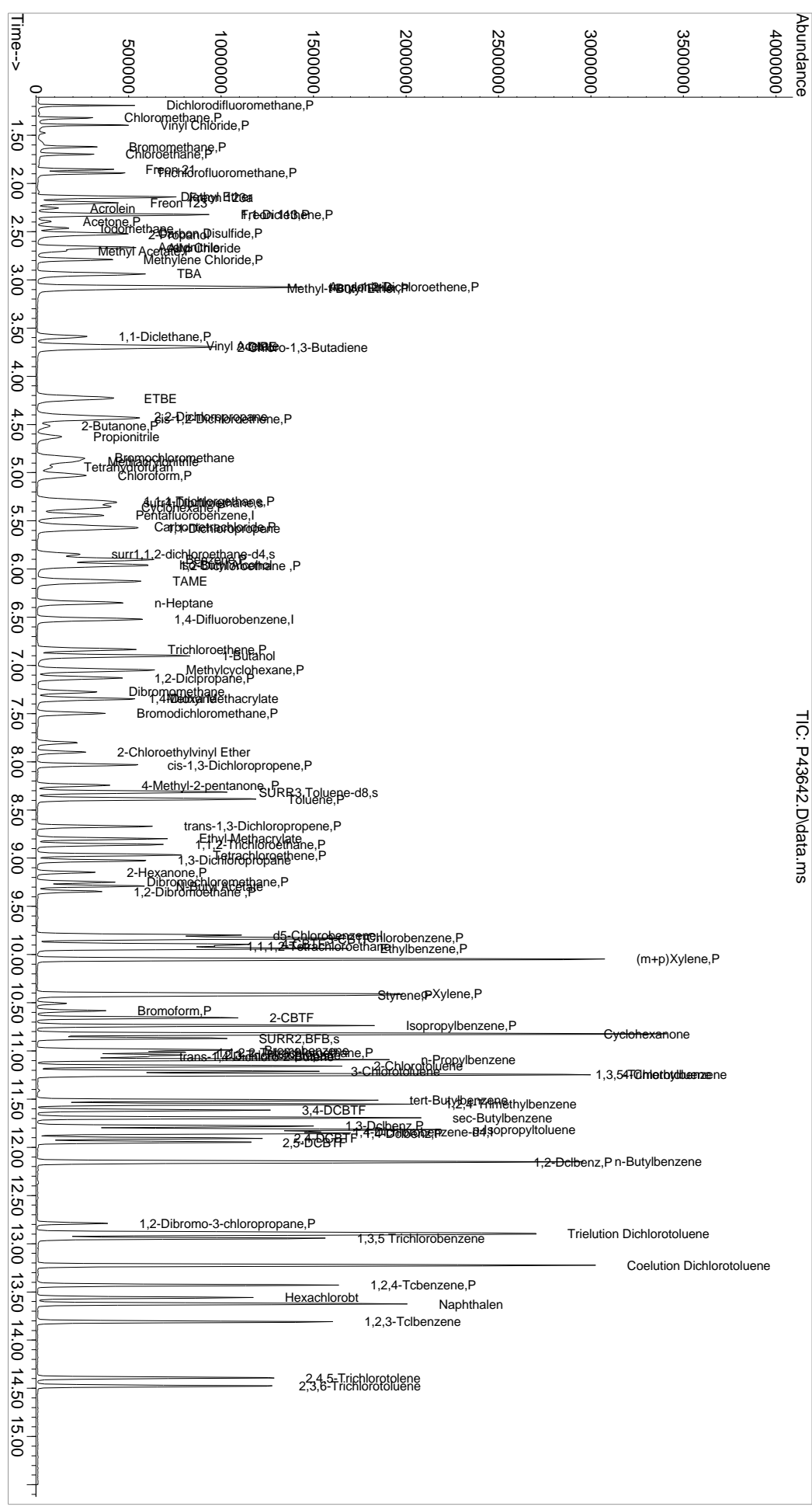
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.858	146	489711	47.00	ppb	99
107) 2,4-DCBTF	11.906	214	214621	47.95	ppb	96
108) 2,5-DCBTF	11.949	214	241161	48.10	ppb	98
109) n-Butylbenzene	12.150	91	844706	51.97	ppb	98
110) 1,2-Dclbenz	12.156	146	488415	48.63	ppb	100
111) 1,2-Dibromo-3-chloropr...	12.790	157	78676	49.08	ppb	95
112) Trielution Dichlorotol...	12.894	125	1319460	148.36	ppb	99
113) 1,3,5 Trichlorobenzene	12.943	180	361978	50.11	ppb	98
114) Coelution Dichlorotoluene	13.223	125	975826	99.39	ppb	100
115) 1,2,4-Tcbenzene	13.430	180	374665	49.51	ppb	99
116) Hexachlorobt	13.558	225	161670	48.45	ppb	98
117) Naphthalen	13.625	128	1213762	54.72	ppb	99
118) 1,2,3-Tclbenzene	13.808	180	372040	49.28	ppb	97
119) 2,4,5-Trichlorotolene	14.394	159	282018	51.36	ppb	99
120) 2,3,6-Trichlorotoluene	14.479	159	256944	48.84	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 02/09/21
2nd
Data Path : I:\ACQDATA\msvoa12\Data\020921\
Data File : P43642.D
Acq On : 9 Feb 2021 4:33 pm
Operator : K.Ruest
Sample : ICV 50
Inst : MSVOA-12
PALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 09 17:47:13 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B MATERS 10mL Purge
Quant Update : Tue Feb 09 17:27:18 2021
Response via : Initial Calibration

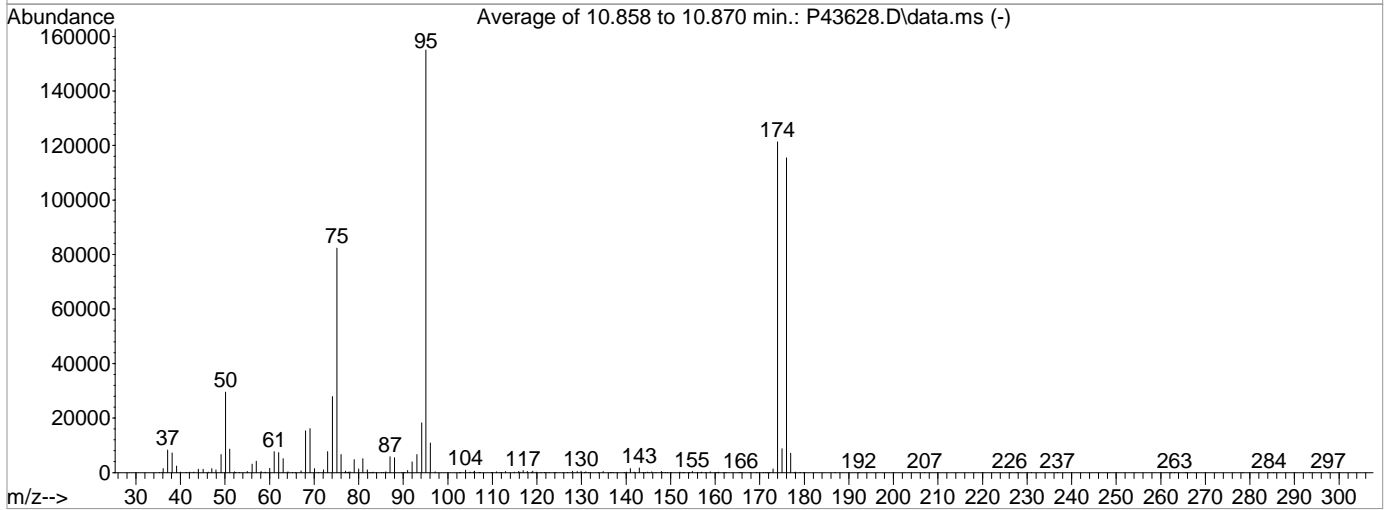
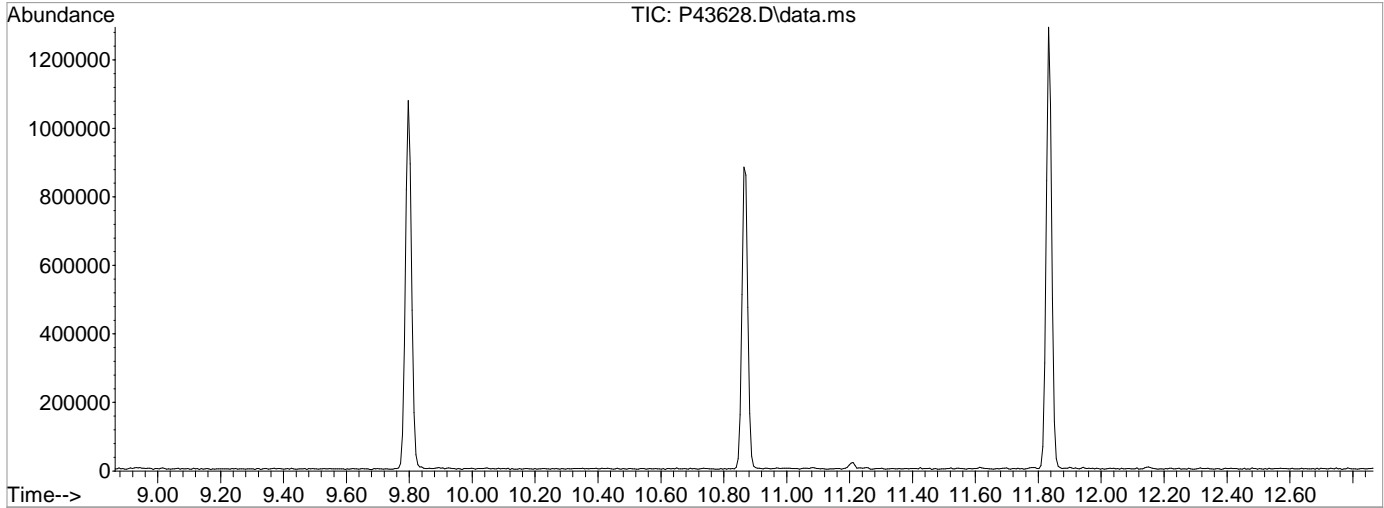
TIC: P43642.D\data.ms



Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43628.D
 Acq On : 9 Feb 2021 11:15 am
 Operator : K.Ruest
 Sample : TUNE
 Misc :
 ALS Vial : 5 Sample Multiplier: 1
 Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Fri Feb 05 11:04:45 2021



AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1595

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	29475	PASS
75	95	30	60	53.1	82384	PASS
95	95	100	100	100.0	155072	PASS
96	95	5	9	7.0	10861	PASS
173	174	0.00	2	1.1	1314	PASS
174	95	50	120	78.2	121283	PASS
175	174	5	9	7.2	8778	PASS
176	174	95	101	95.2	115493	PASS
177	176	5	9	6.2	7150	PASS

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43629.D
 Acq On : 9 Feb 2021 11:49 am
 Operator : K.Ruest
 Sample : ICAL BLK
 Misc : WATER ICAL
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 10 09:33:19 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration

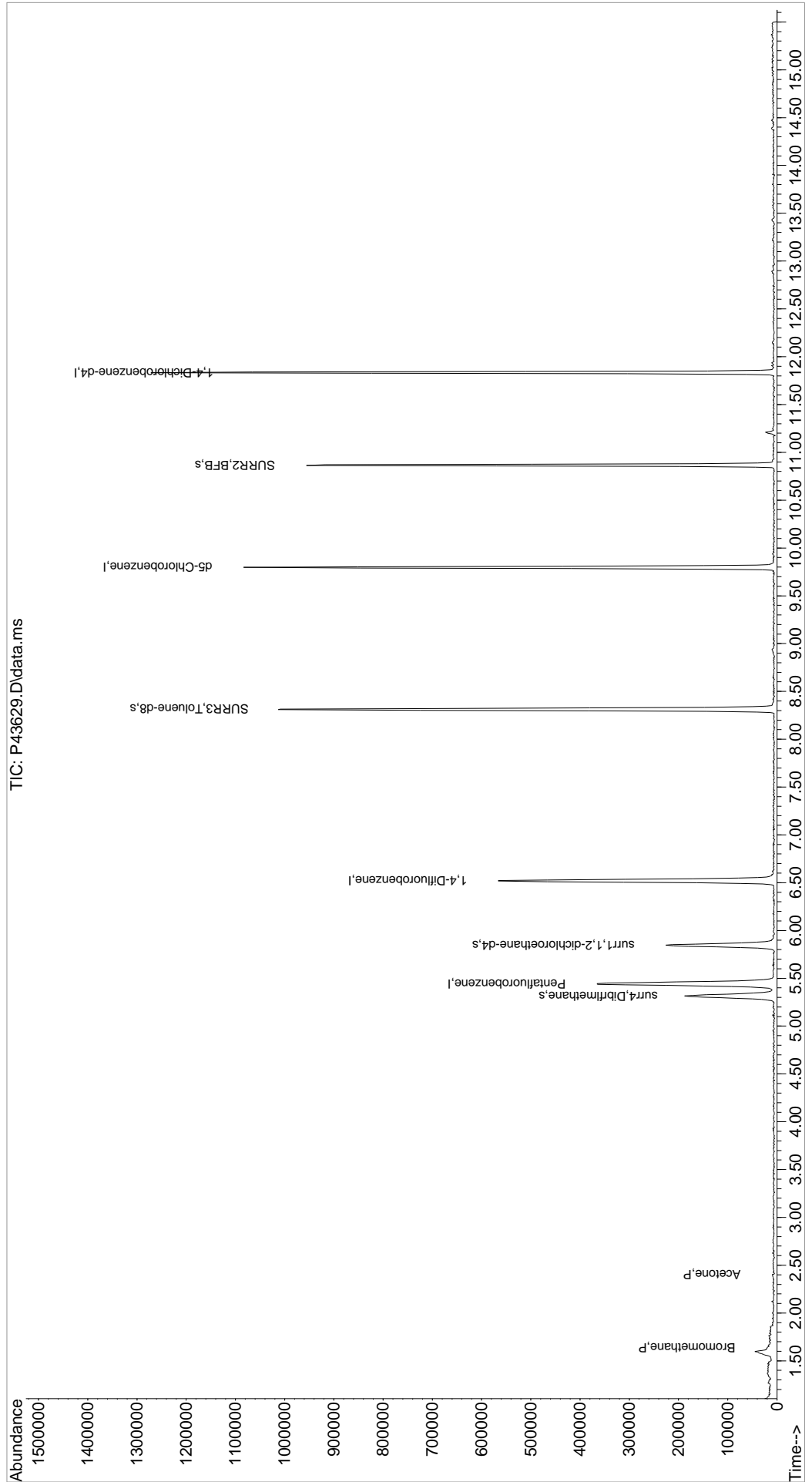
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	343031	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	523839	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	483745	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	247291	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	145368	50.13	ppb	-0.01
Spiked Amount	50.000	Range 80 - 116	Recovery	=	100.26%	
48) surr1,1,2-dichloroetha...	5.846	65	187227	51.14	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	102.28%	
65) SURR3,Toluene-d8	8.315	98	650111	51.05	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	102.10%	
70) SURR2,BFB	10.864	95	250291	49.56	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	99.12%	
Target Compounds						
5) Bromomethane	1.634	94	965	0.24	ppb	Qvalue 97
15) Acetone	2.402	43	1703	1.09	ppb	# 77

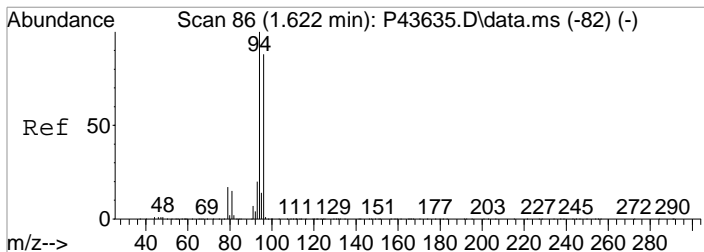
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\020921\
 Data File : P43629.D
 Acq On : 9 Feb 2021 11:49 am
 Operator : K.Ruest
 Sample : ICAL BLK
 Misc : WATER ICAL
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

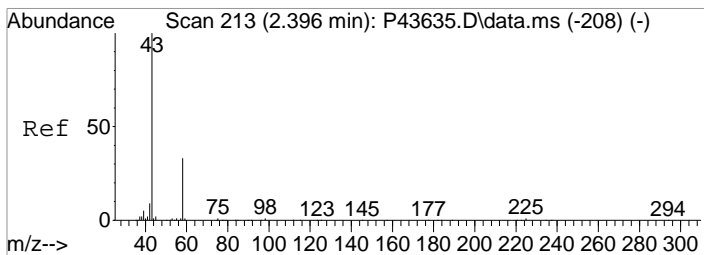
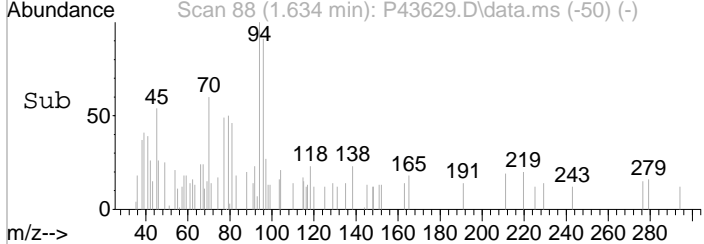
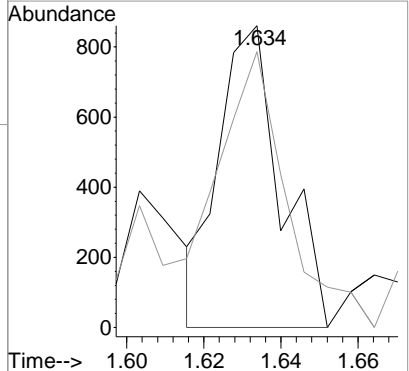
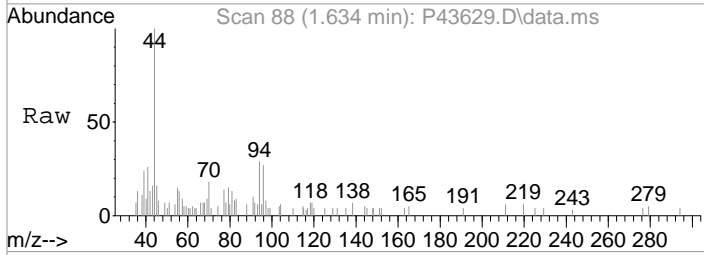
Quant Time: Feb 10 09:33:19 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration





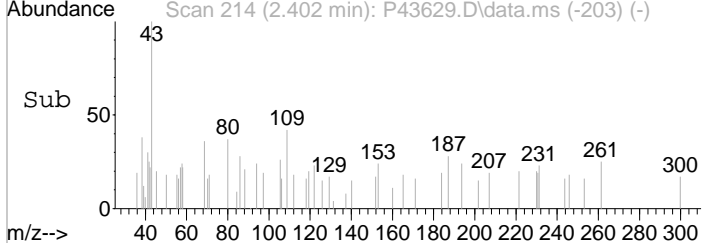
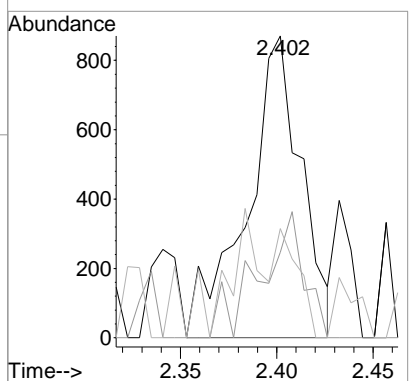
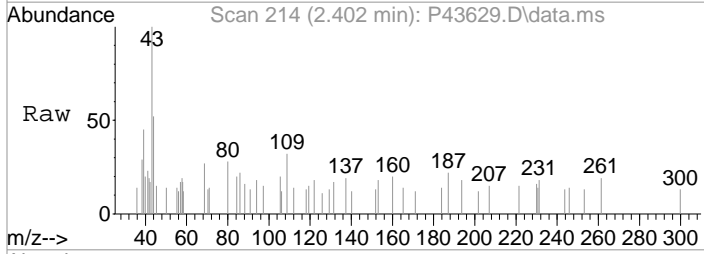
#5
 Bromomethane
 Concen: 0.24 ppb
 RT: 1.634 min Scan# 88
 Delta R.T. 0.006 min
 Lab File: P43629.D
 Acq: 9 Feb 2021 11:49 am

Tgt Ion	94	96	Resp	965	Lower	Upper
Ion Ratio	100	91.4		68.3		108.3



#15
 Acetone
 Concen: 1.09 ppb
 RT: 2.402 min Scan# 214
 Delta R.T. -0.006 min
 Lab File: P43629.D
 Acq: 9 Feb 2021 11:49 am

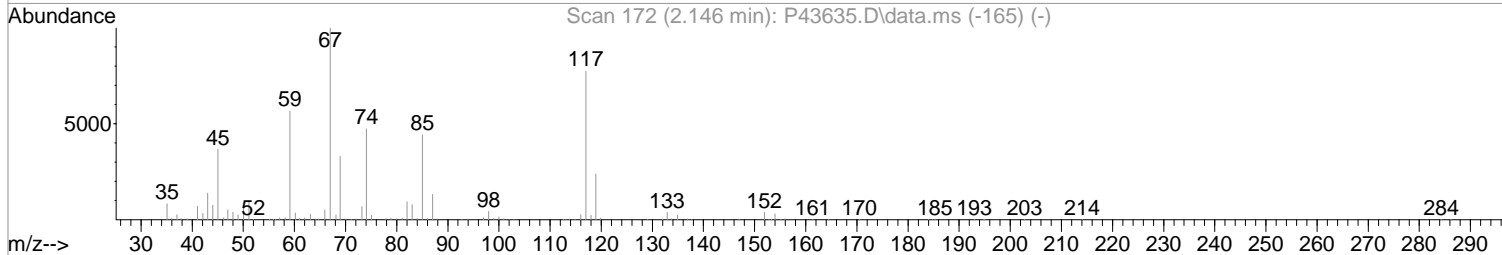
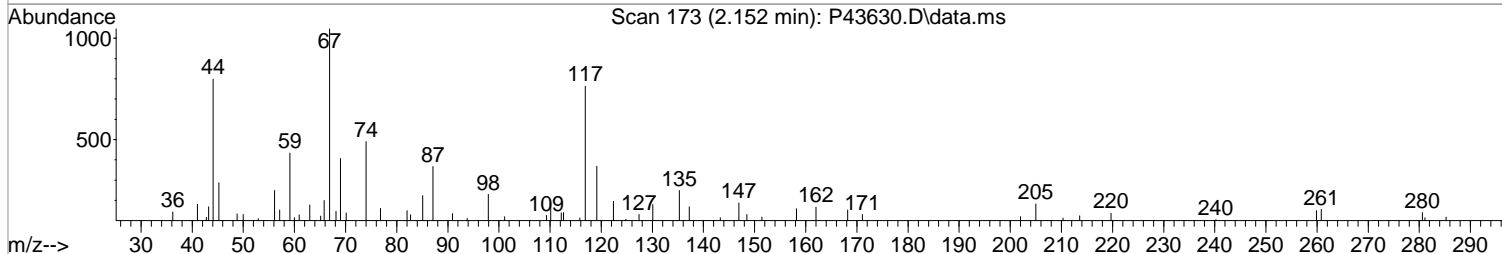
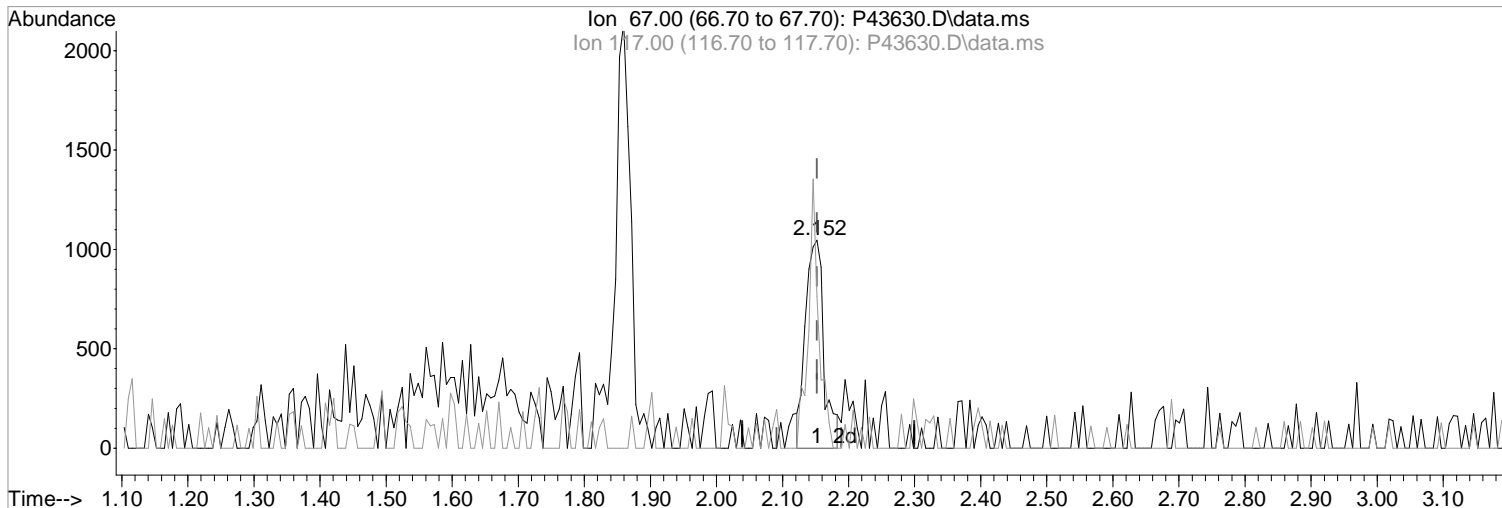
Tgt Ion	43	58	42	Resp	1703	Lower	Upper
Ion Ratio	100	28.4	36.2		12.9	0.0	52.9



Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43630.D
 Acq On : 9 Feb 2021 12:11 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration



(10) Freon 123a
 2.152min (+0.000) 0.56 ppb m
 response 2023

Manual Integration:
 After
 Poor integration.

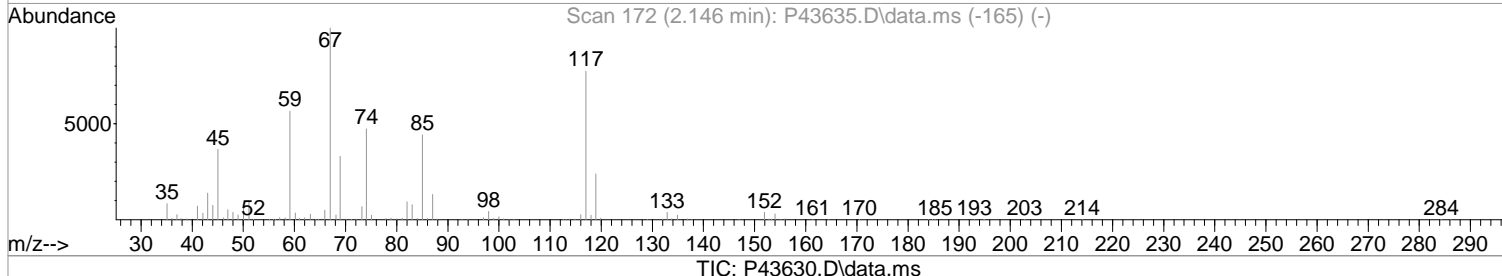
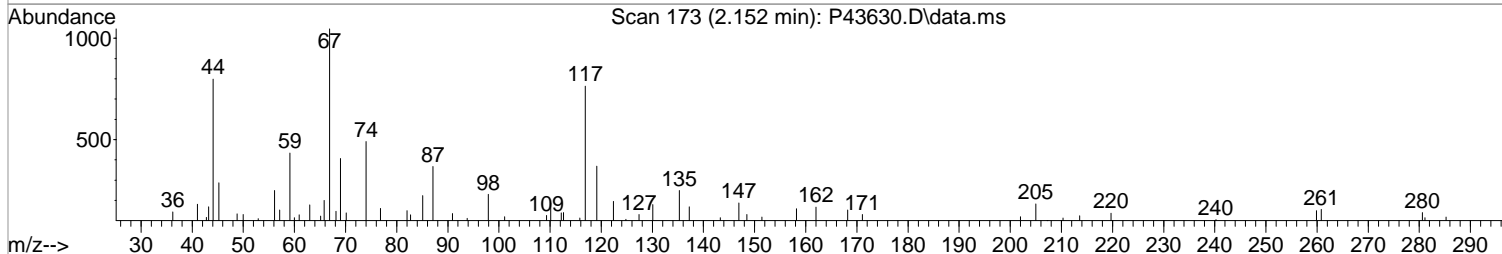
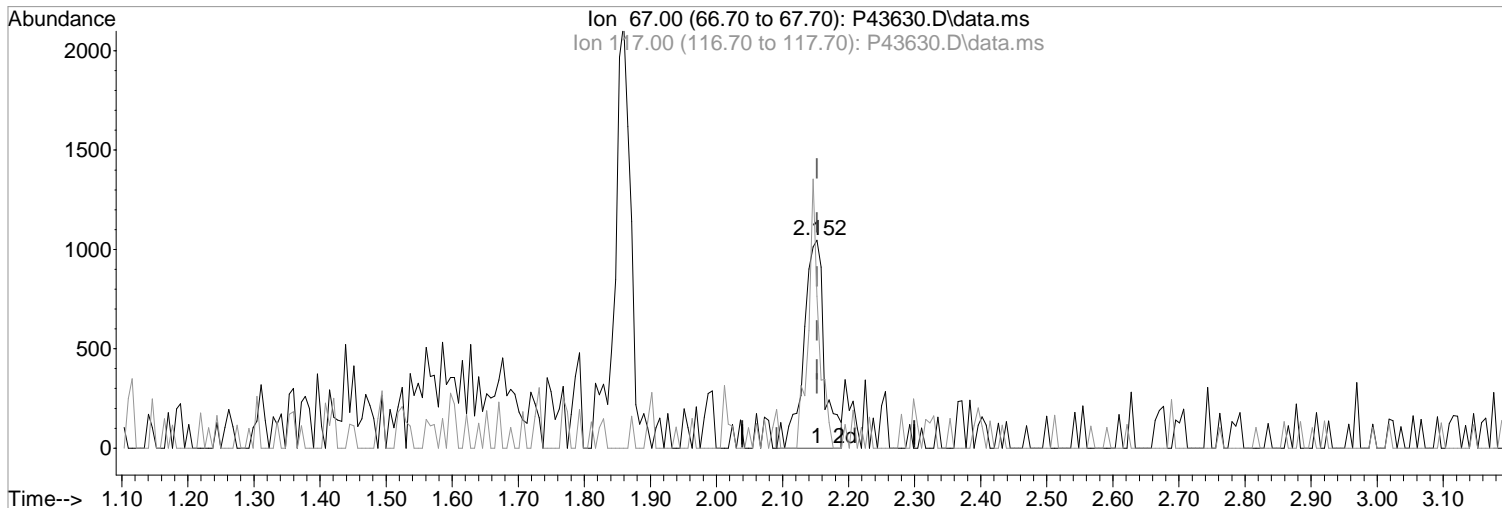
Ion	Exp%	Act%
67.00	100	100
117.00	78.50	72.97
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(10) Freon 123a
2.152min (+0.000) 0.63 ppb
response 2283

Manual Integration:

Before

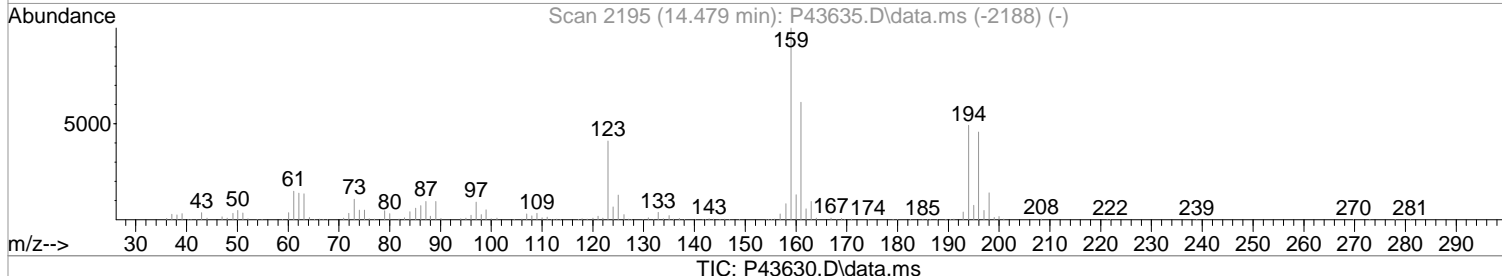
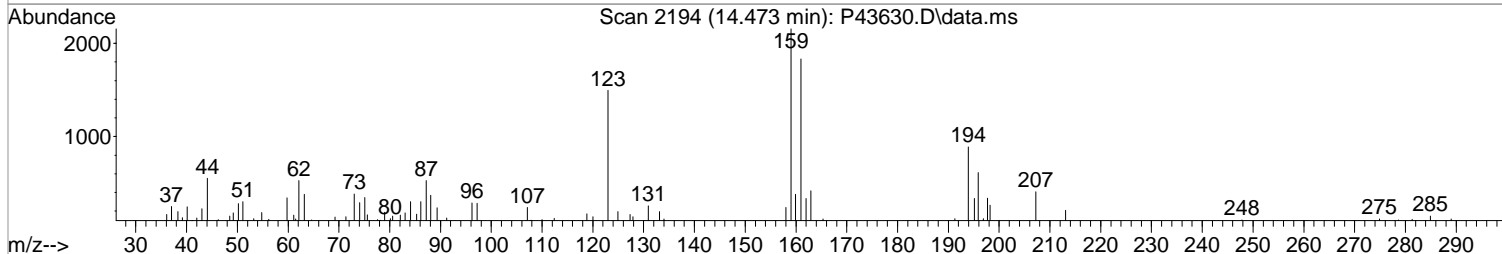
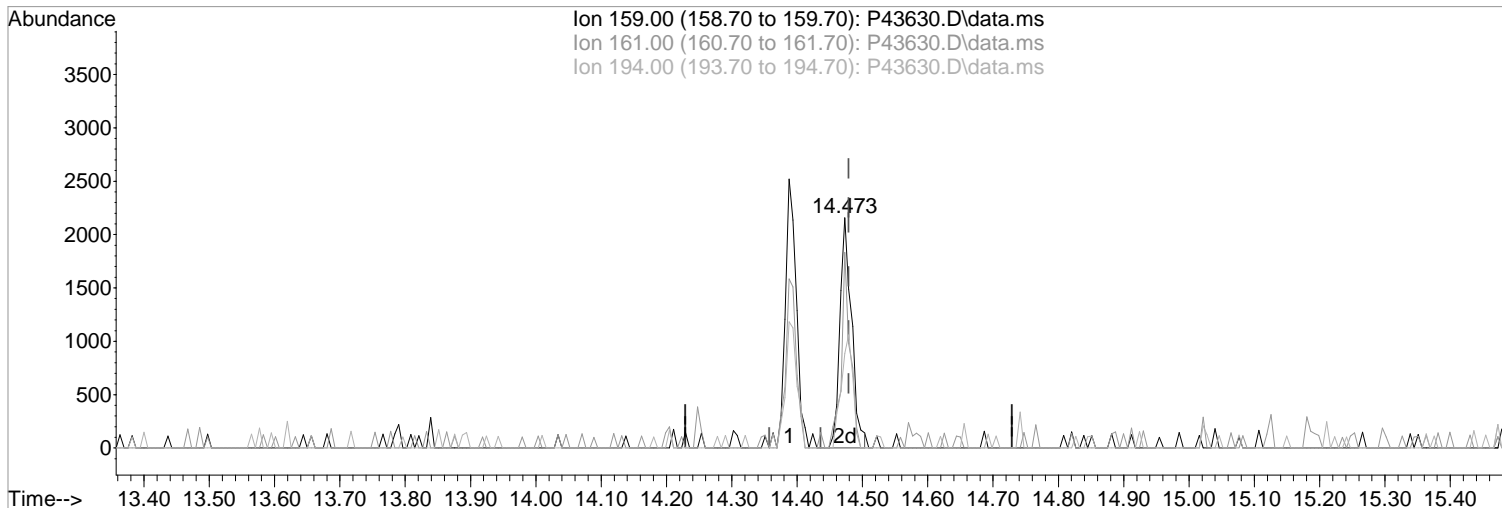
Ion	Exp%	Act%
67.00	100	100
117.00	78.50	72.97
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(120) 2,3,6-Trichlorotoluene
14.473min (-0.006) 0.57 ppb m
response 2713

Manual Integration:
After
Wrong peak selected.

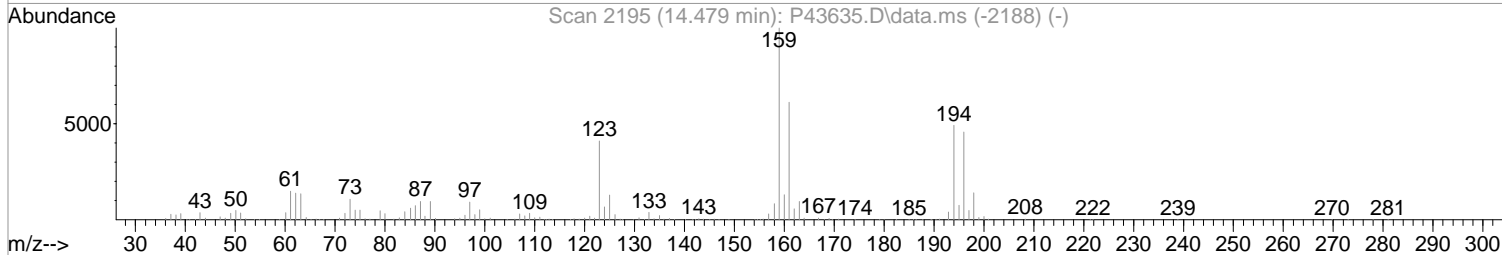
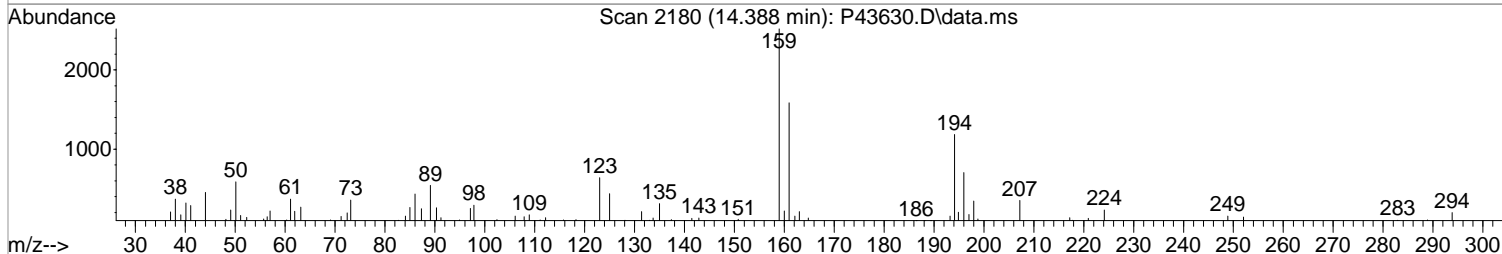
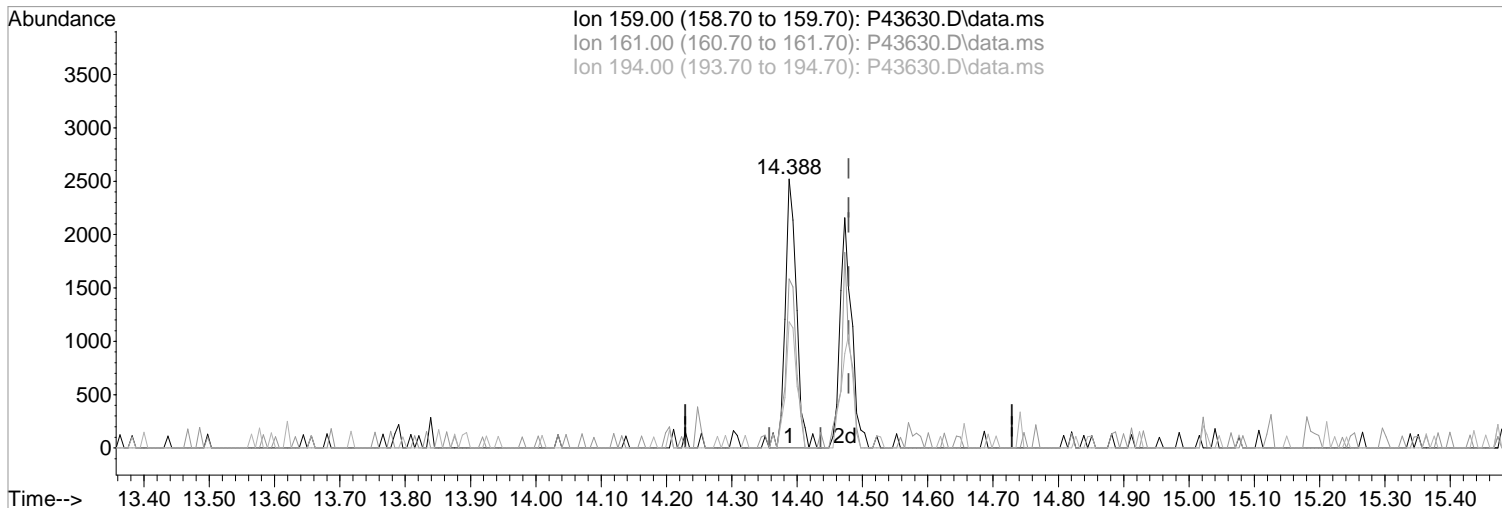
Ion	Exp%	Act%
159.00	100	100
161.00	61.20	84.93#
194.00	49.20	41.12
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43630.D\data.ms

(120) 2,3,6-Trichlorotoluene

Manual Integration:

14.388min (-0.091) 0.63 ppb

Before

response 3026

Ion Exp% Act%

02/09/21

159.00 100 100

161.00 61.20 62.90

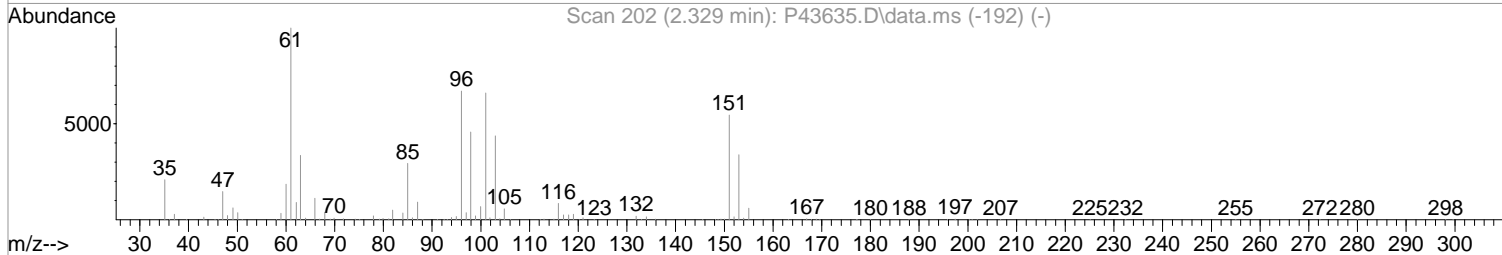
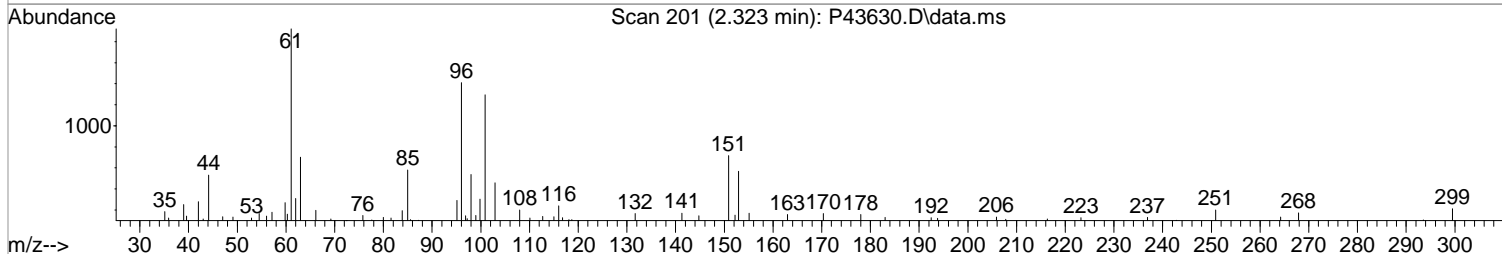
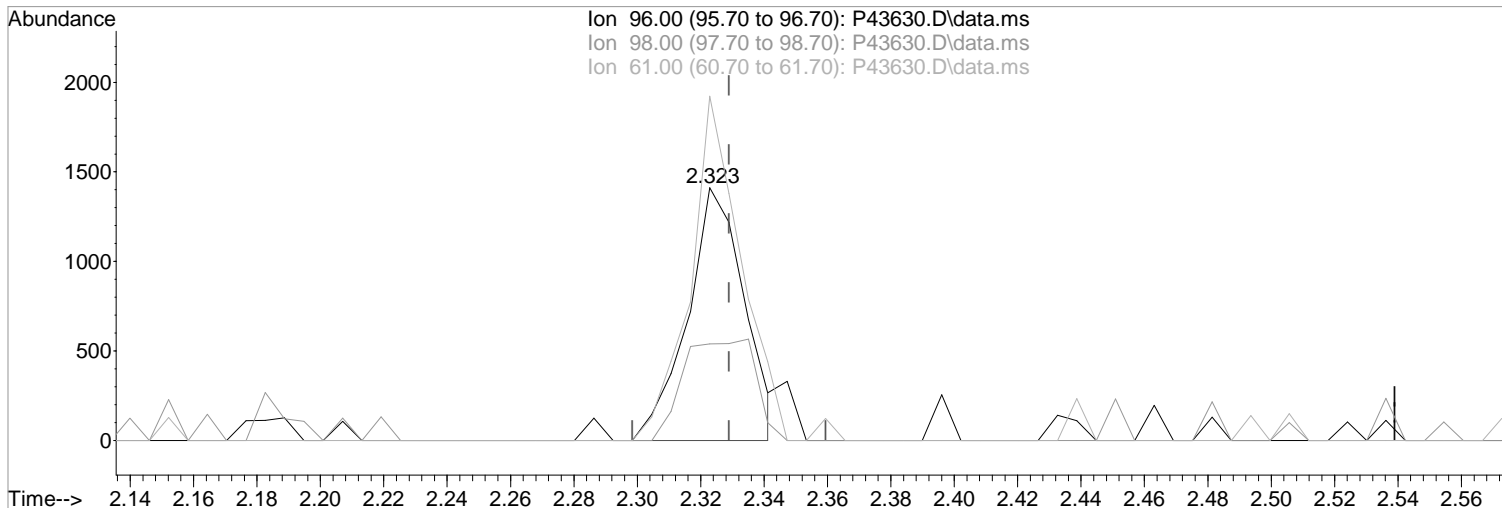
194.00 49.20 46.94

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43630.D\data.ms

(13) 1,1-Dicethylene (P)
2.323min (-0.006) 0.65 ppb m
response 1761

Manual Integration:
After
Poor integration.

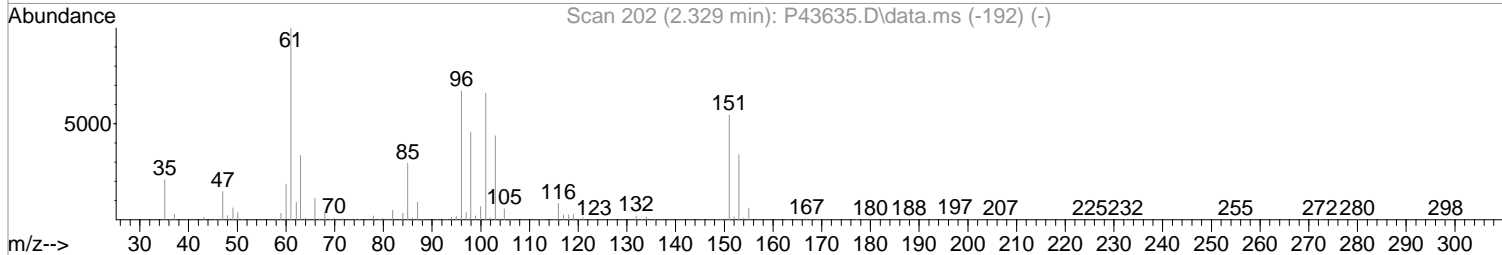
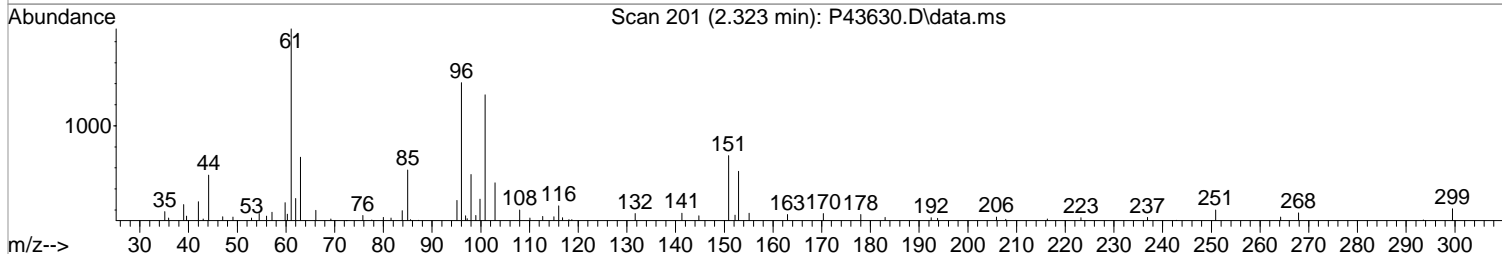
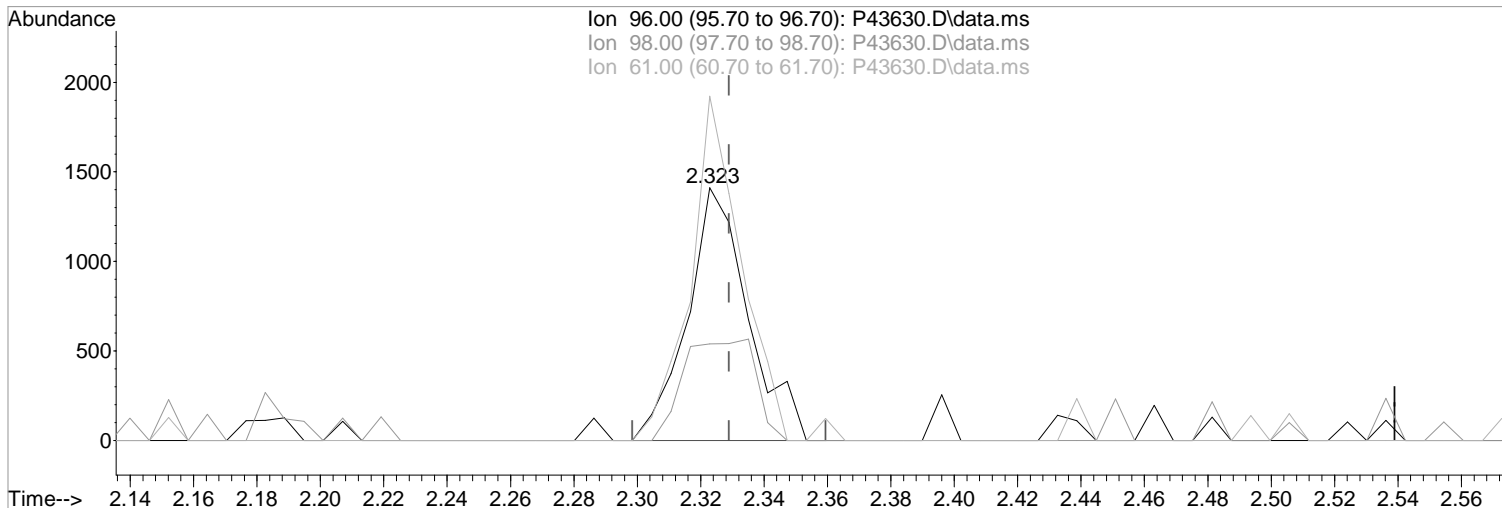
Ion	Exp%	Act%
96.00	100	100
98.00	68.30	38.17#
61.00	149.10	136.19
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43630.D\data.ms

(13) 1,1-Dicethene (P)
2.323min (-0.006) 0.70 ppb
response 1882

Manual Integration:
Before

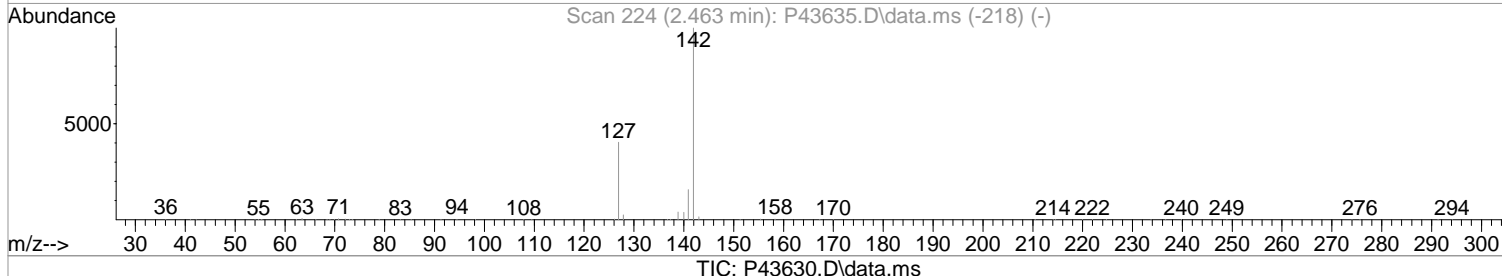
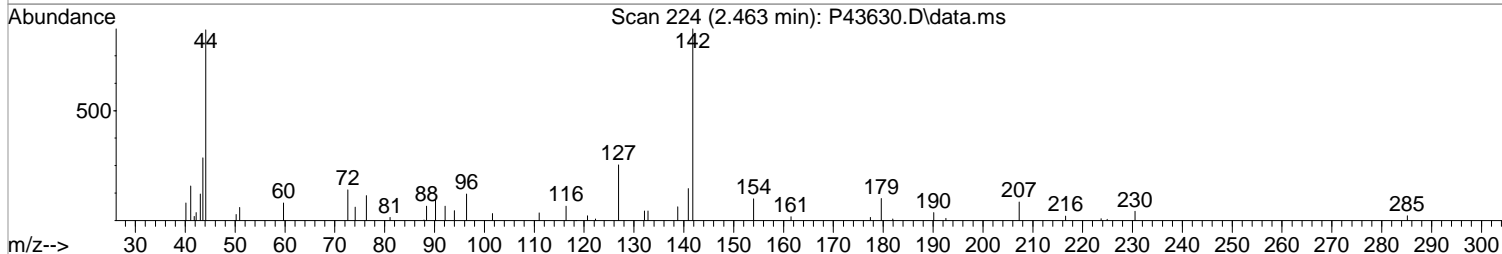
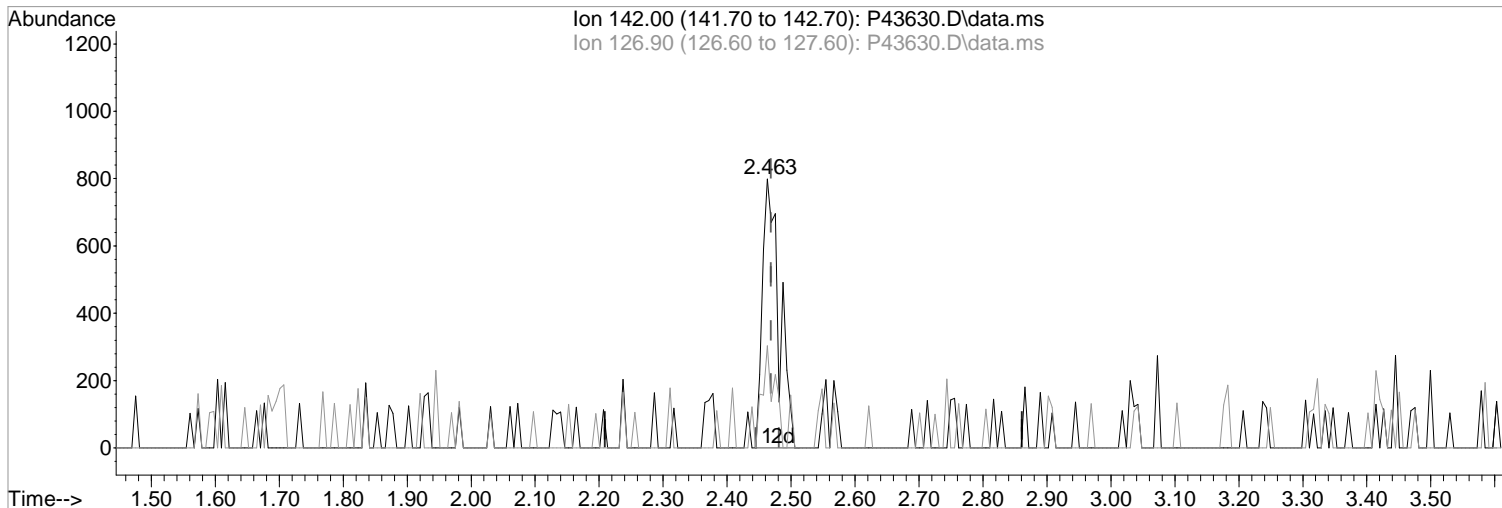
Ion	Exp%	Act%
96.00	100	100
98.00	68.30	38.17#
61.00	149.10	136.19
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(17) Iodomethane

2.463min (-0.006) 0.43 ppb m

response 1446

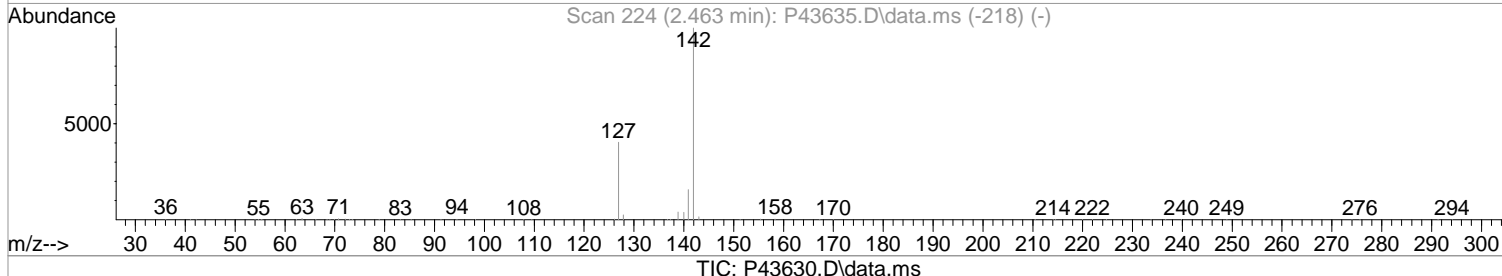
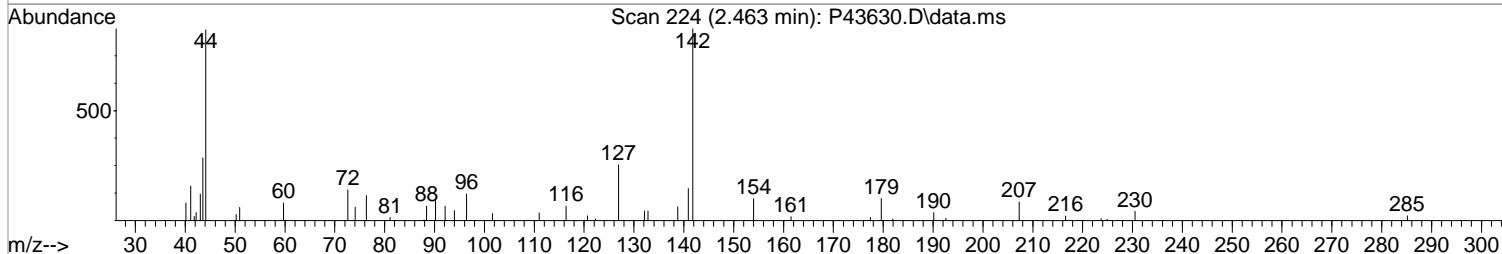
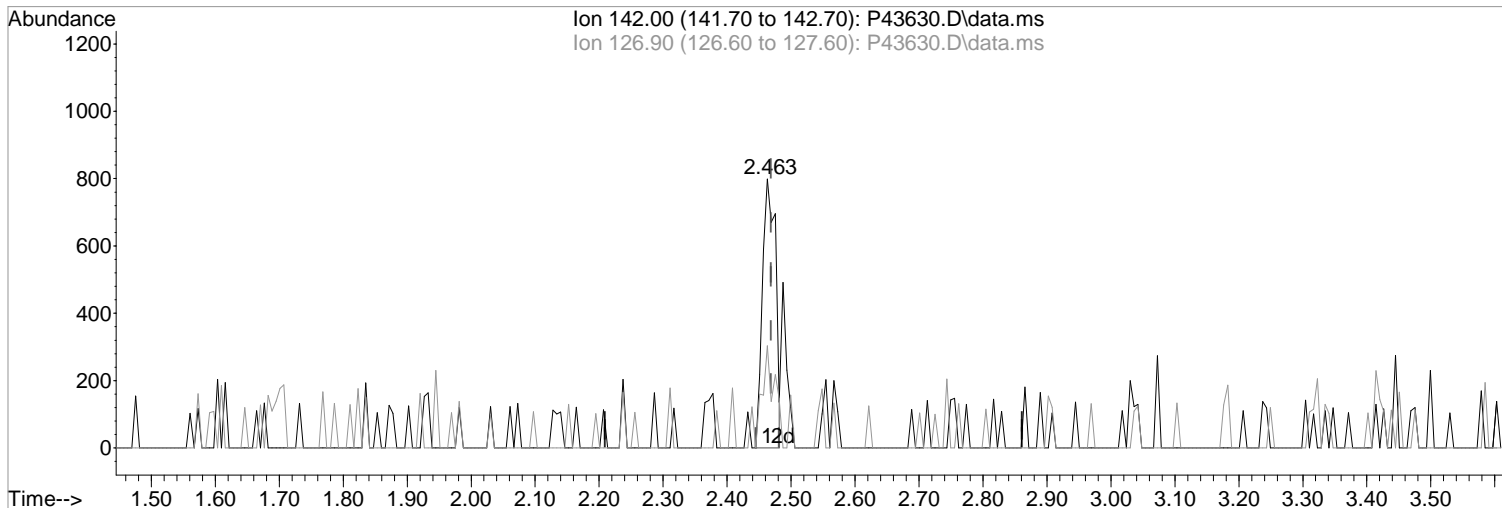
Ion	Exp%	Act%
142.00	100	100
126.90	40.40	37.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:
After
Split Peak
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(17) Iodomethane
2.463min (-0.006) 0.34 ppb
response 1137

Manual Integration:

Before

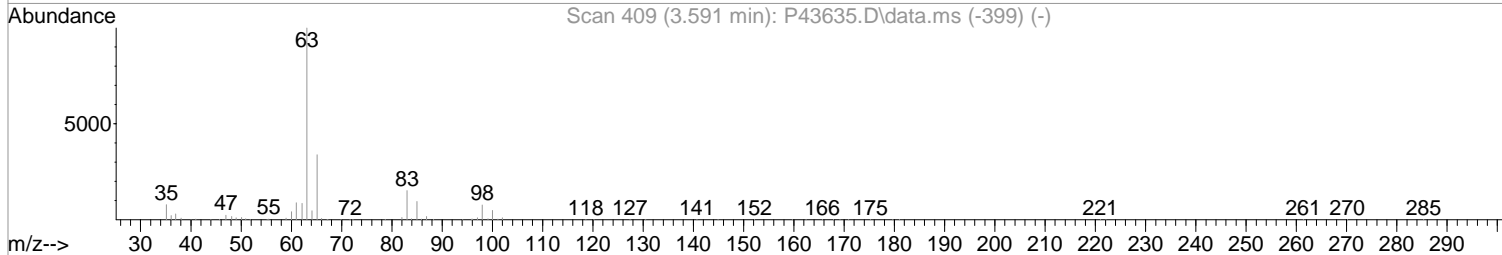
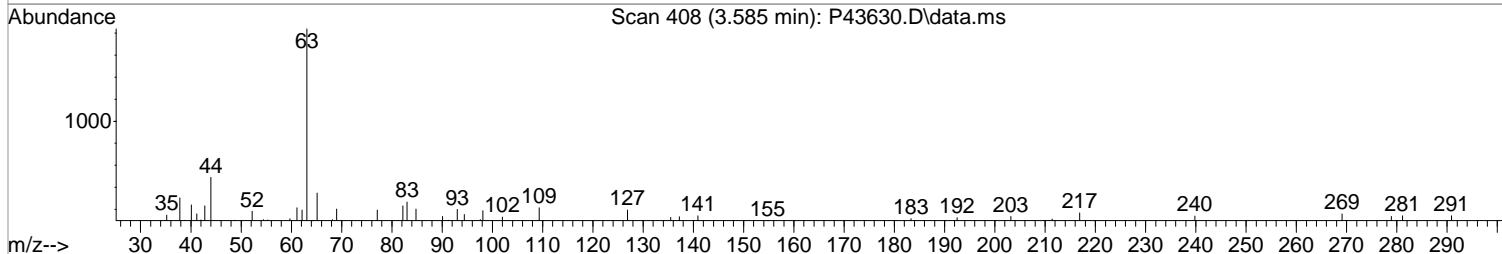
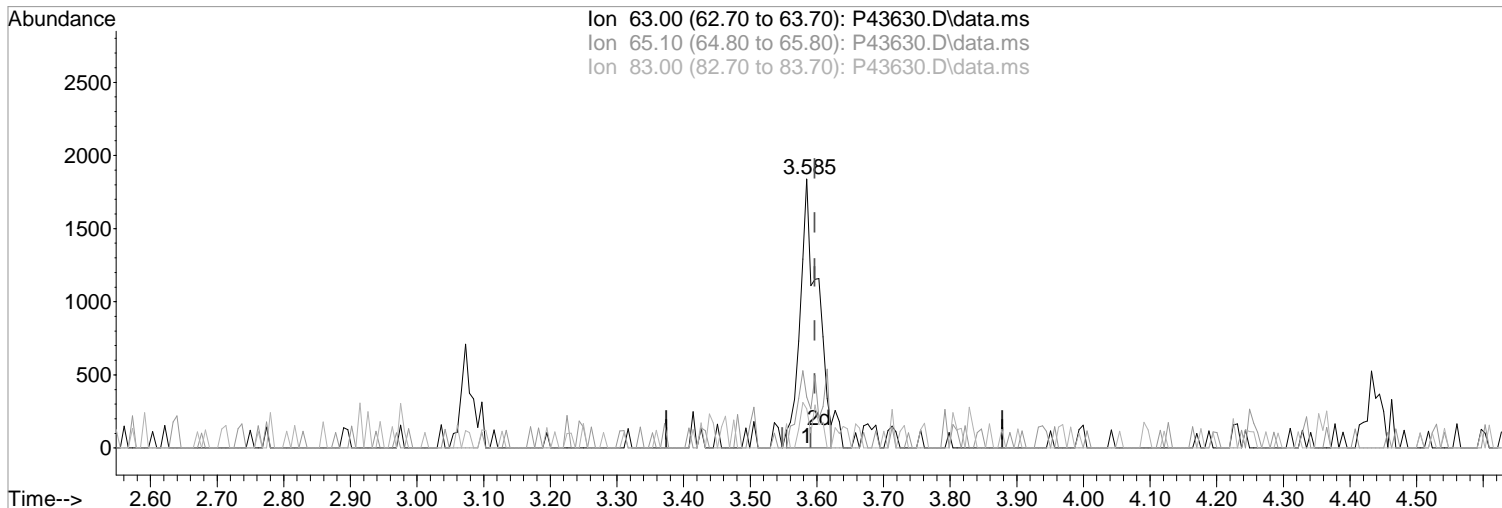
Ion	Exp%	Act%
142.00	100	100
126.90	40.40	37.92
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(28) 1,1-Dicethane (P)

3.585min (-0.012) 0.58 ppb m

response 3309

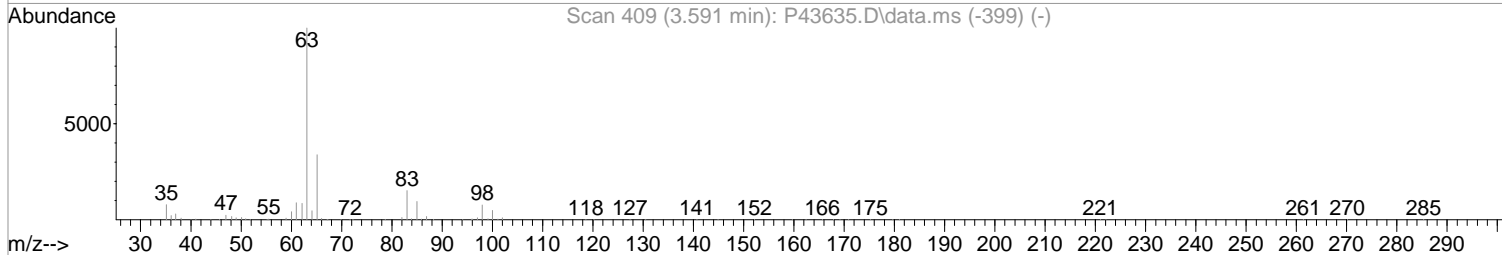
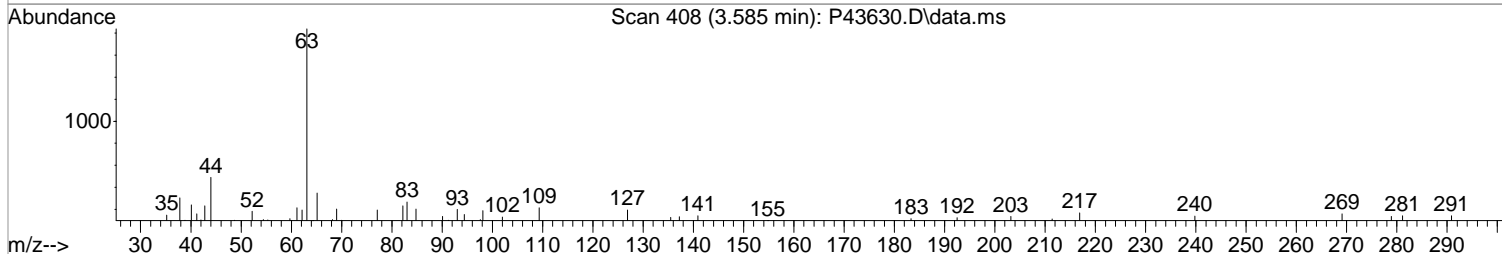
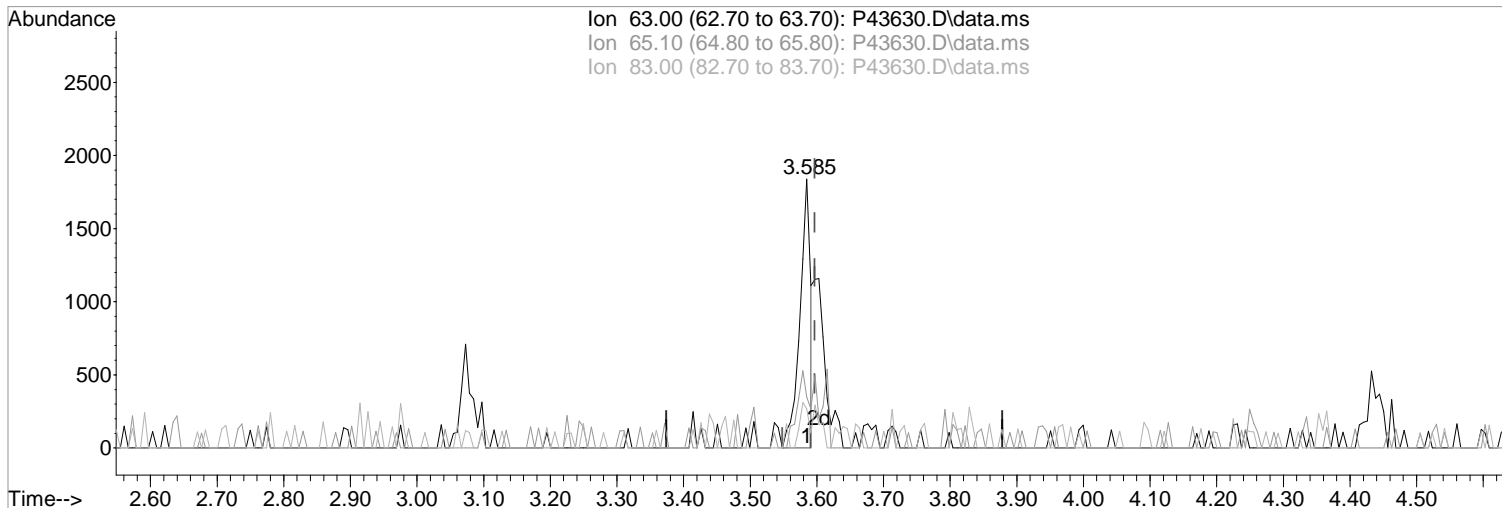
Ion	Exp%	Act%
63.00	100	100
65.10	33.90	18.98
83.00	15.20	14.57
0.00	0.00	0.00

Manual Integration:
After
Split Peak
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(28) 1,1-Dicethane (P)
3.585min (-0.012) 0.36 ppb
response 2049

Manual Integration:
Before

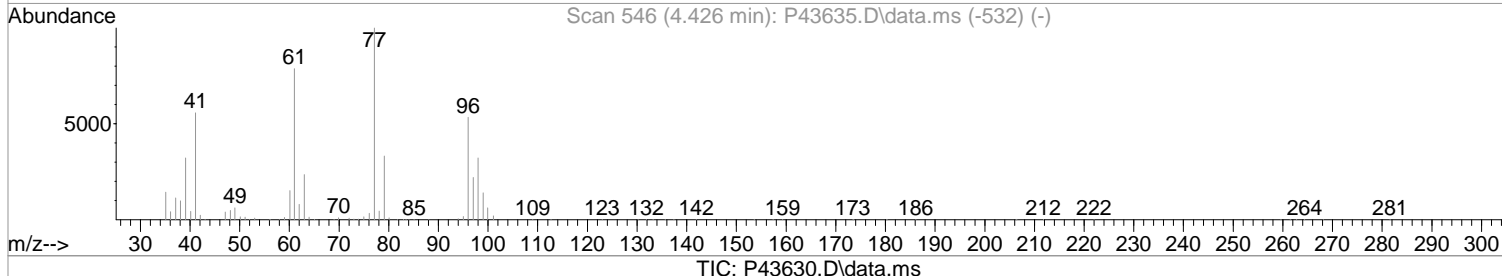
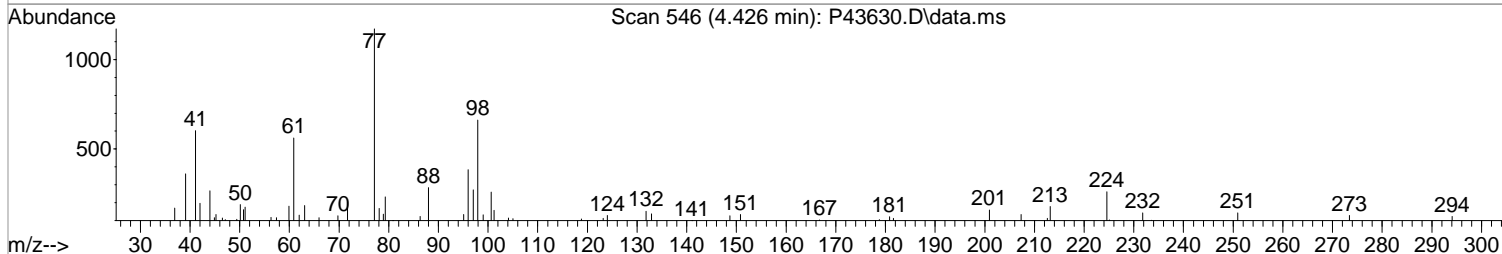
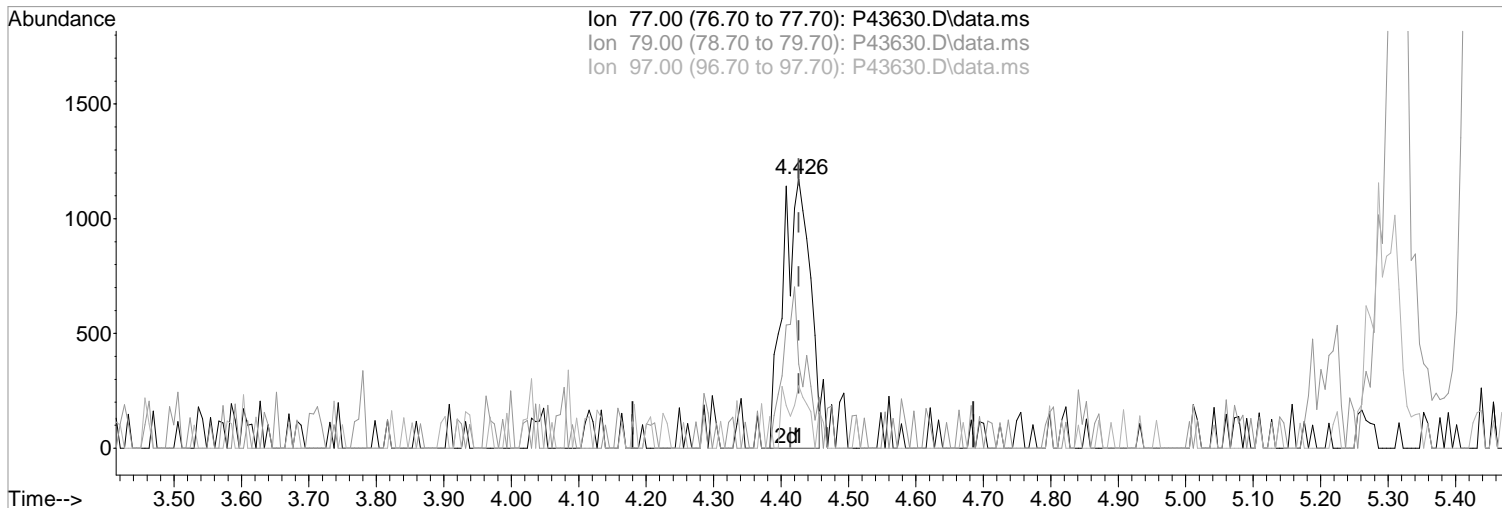
Ion	Exp%	Act%
63.00	100	100
65.10	33.90	18.98
83.00	15.20	14.57
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(33) 2,2-Dichloropropane
4.426min (+0.000) 0.58 ppb m
response 3228

Manual Integration:

After

Poor integration.

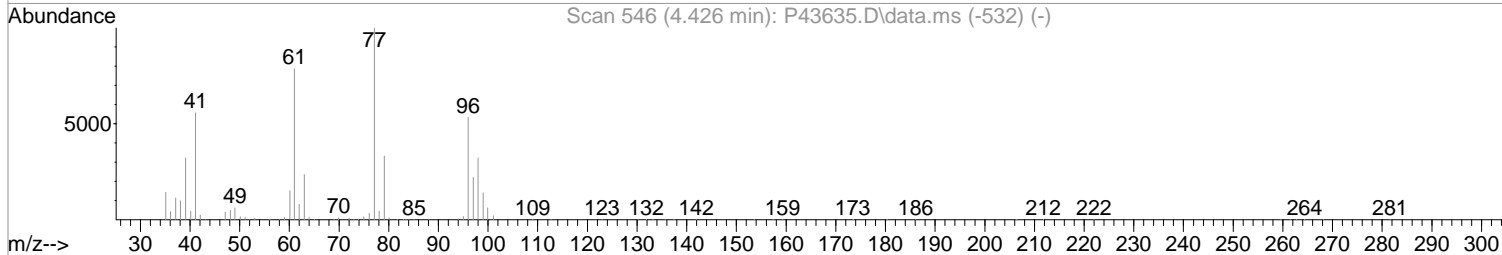
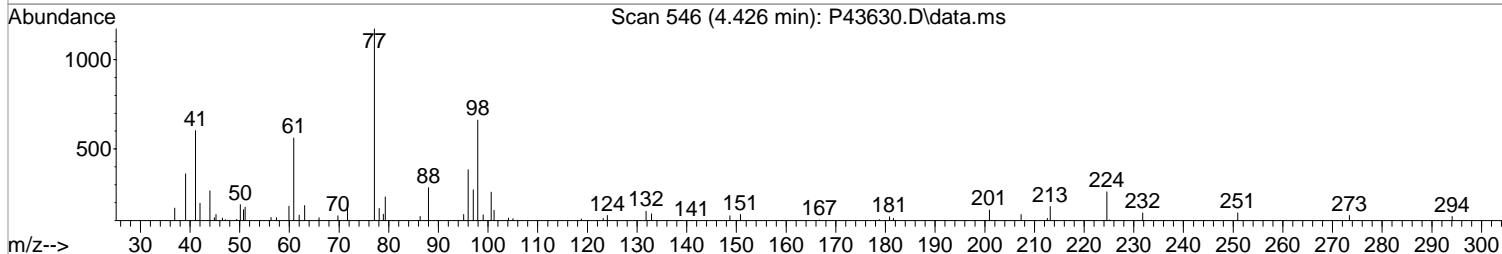
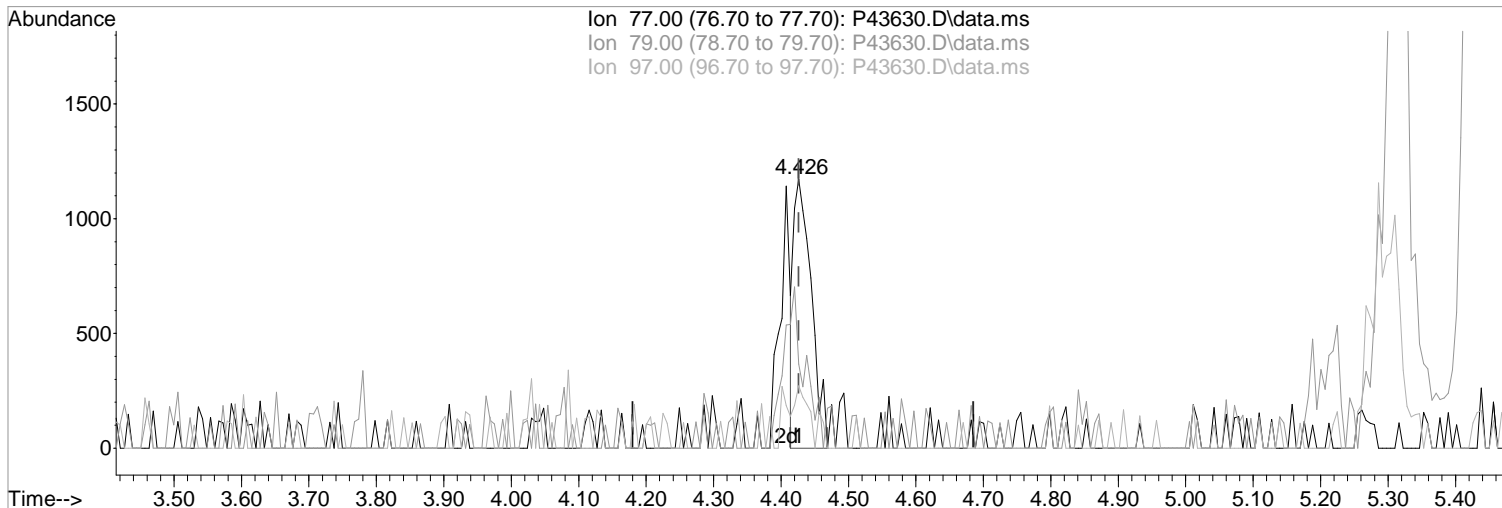
02/09/21

Ion	Exp%	Act%
77.00	100	100
79.00	33.20	19.78
97.00	22.00	23.19
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43630.D\data.ms

(33) 2,2-Dichloropropane
4.426min (+0.000) 0.38 ppb
response 2139

Manual Integration:

Before

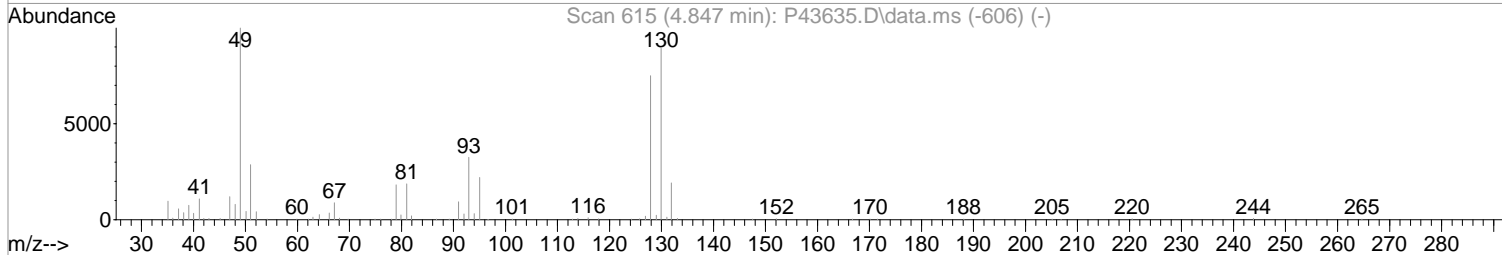
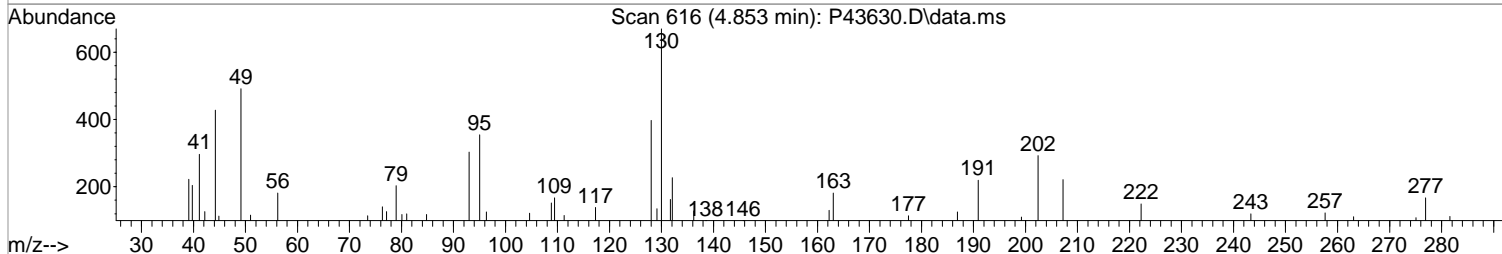
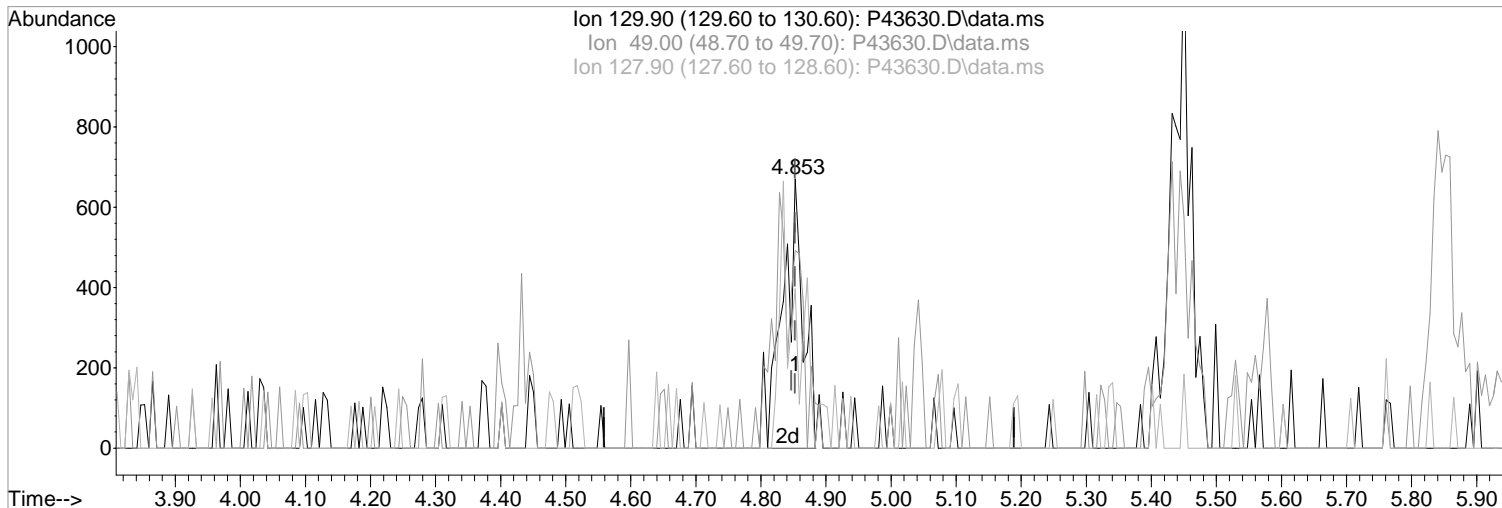
Ion	Exp%	Act%
77.00	100	100
79.00	33.20	31.29
97.00	22.00	23.19
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43630.D\data.ms

(37) Bromochloromethane

4.853min (+0.000) 0.59 ppb m
response 1409

Ion	Exp%	Act%
129.90	100	100
49.00	112.30	73.43#
127.90	83.90	59.25#
0.00	0.00	0.00

Manual Integration:

After

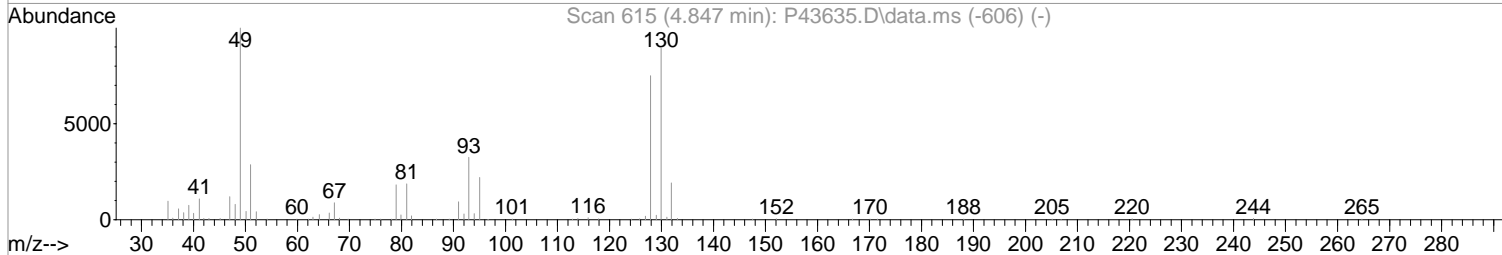
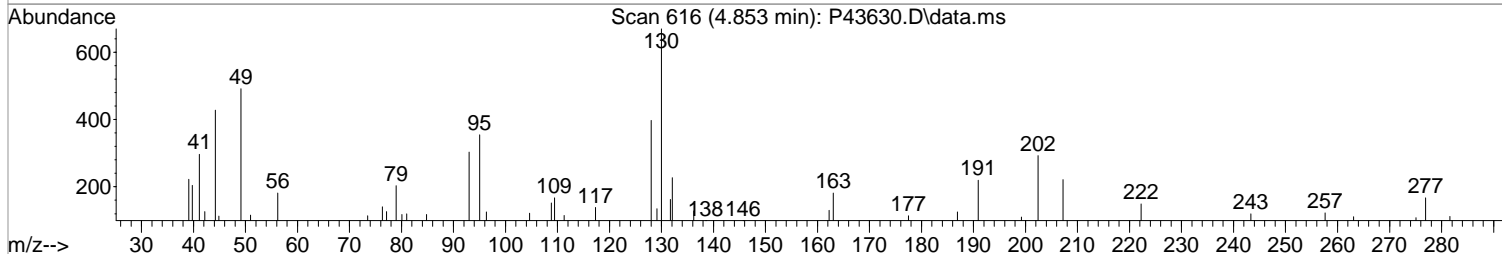
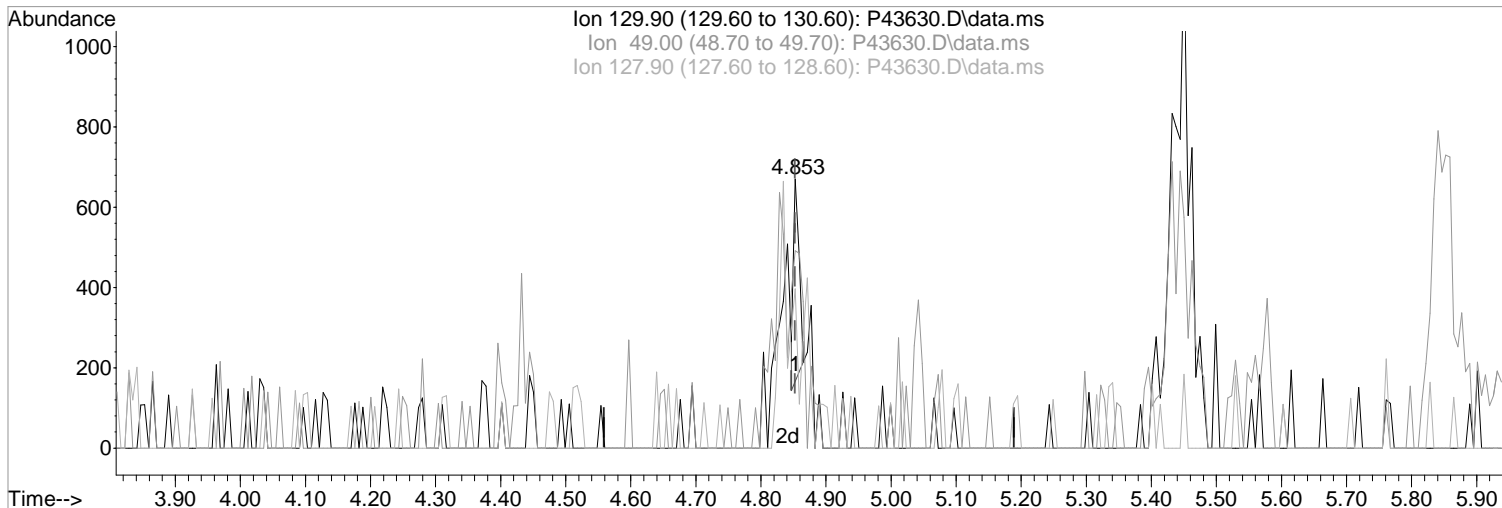
Poor integration.

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43630.D\data.ms

(37) Bromochloromethane

Manual Integration:

4.853min (+0.000) 0.13 ppb

Before

response 300

Ion Exp% Act%

02/09/21

129.90 100 100

49.00 112.30 73.43#

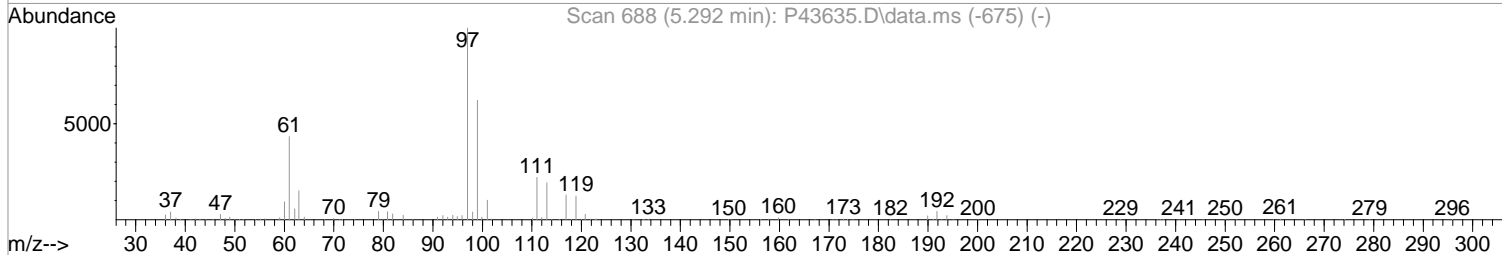
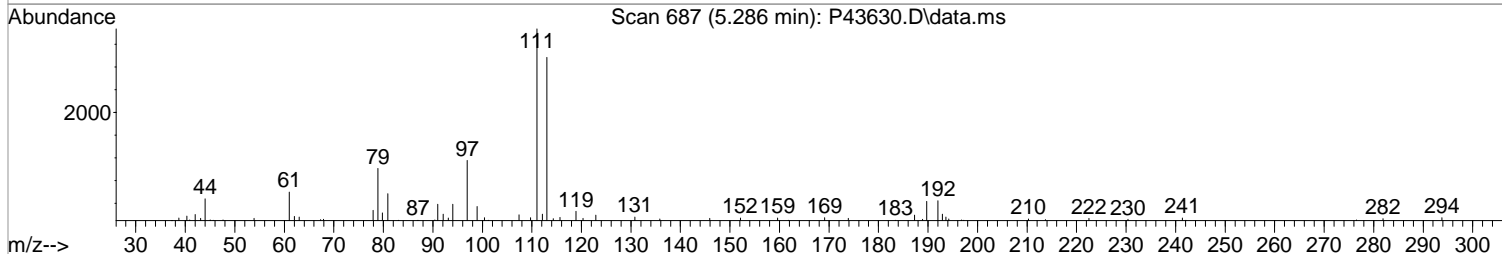
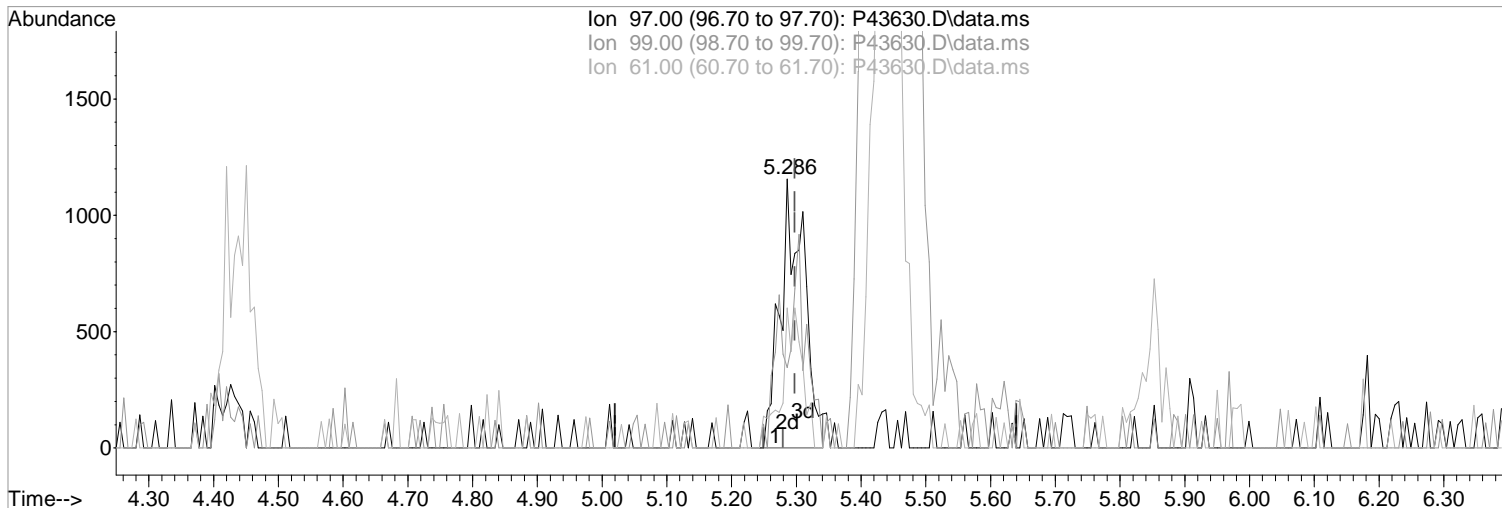
127.90 83.90 59.25#

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.286min (-0.012) 0.54 ppb m
response 2980

Ion	Exp%	Act%
97.00	100	100
99.00	62.10	29.93#
61.00	43.30	52.08
0.00	0.00	0.00

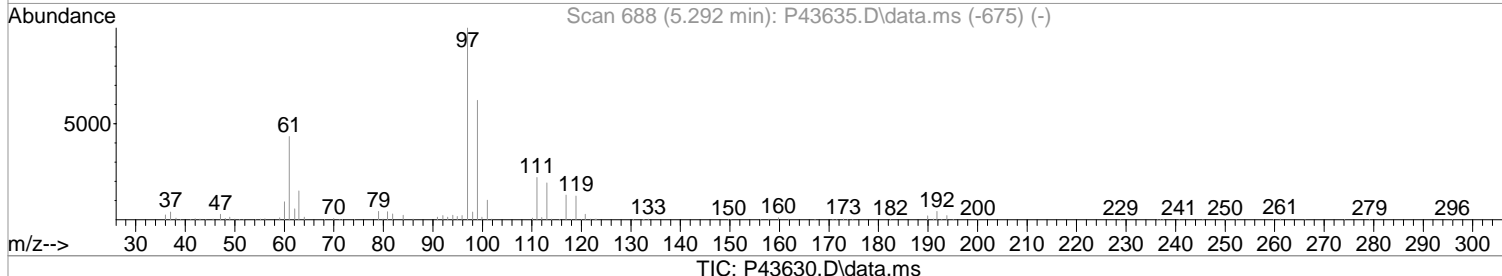
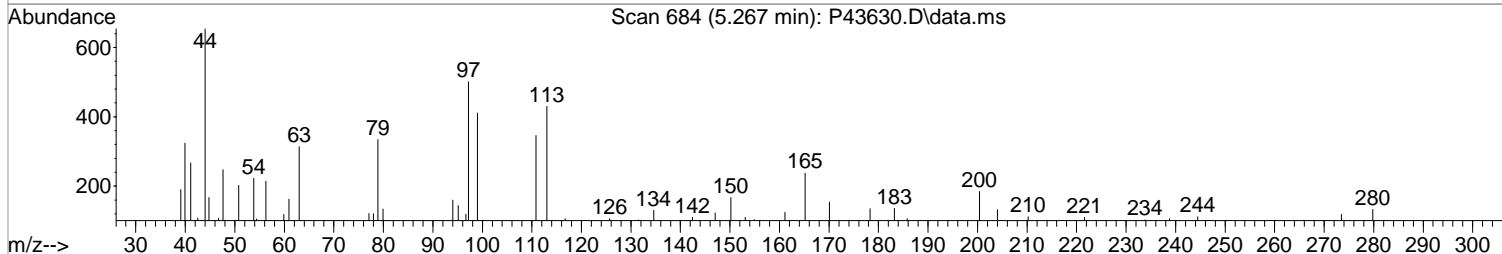
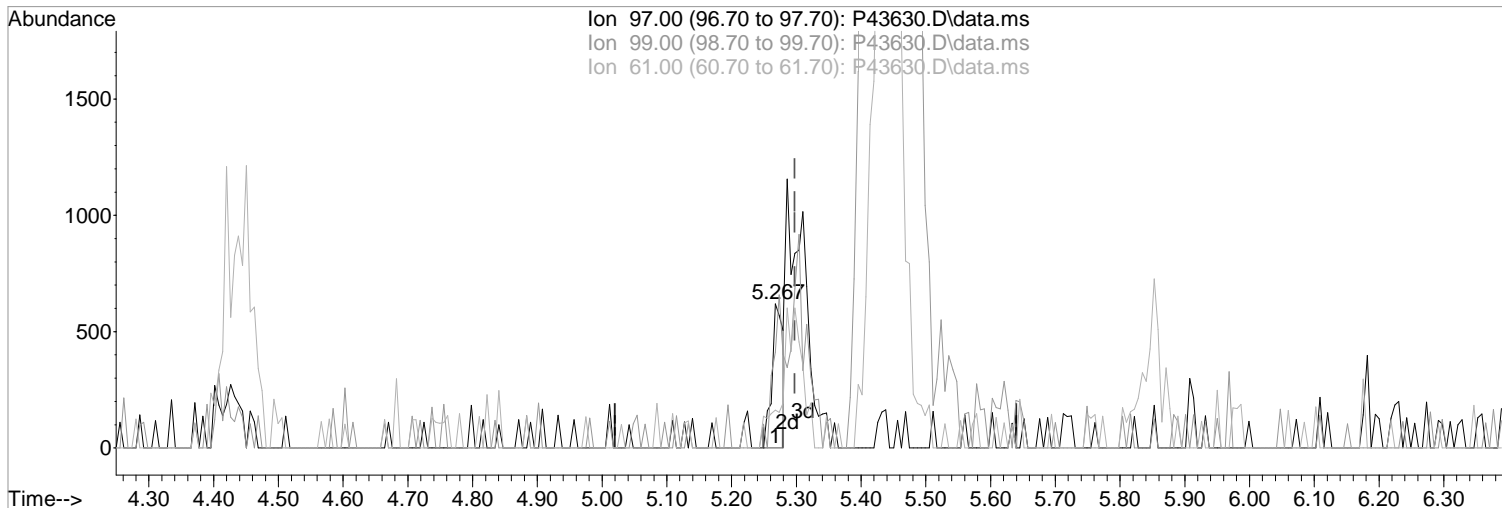
Manual Integration:

After
Split Peak
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43630.D
 Acq On : 9 Feb 2021 12:11 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

Manual Integration:

5.267min (-0.030) 0.13 ppb

Before

response 748

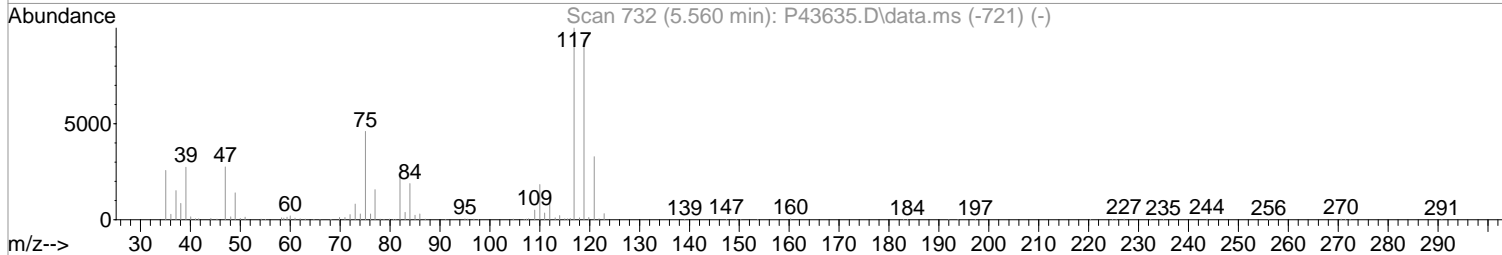
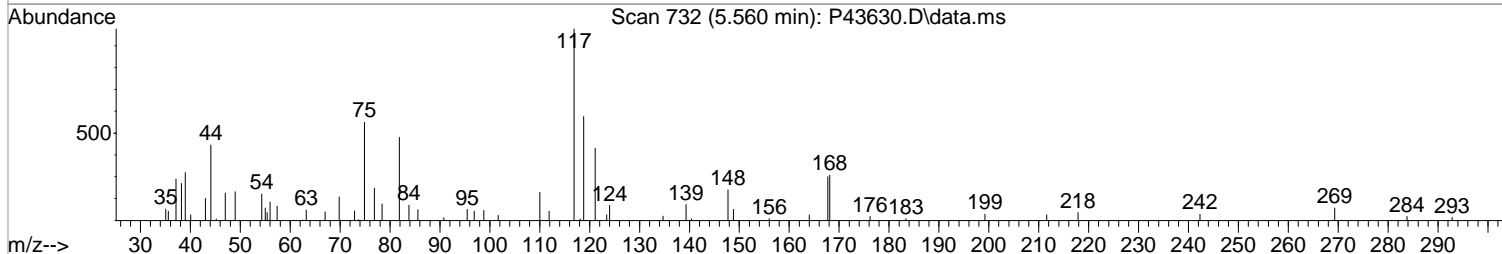
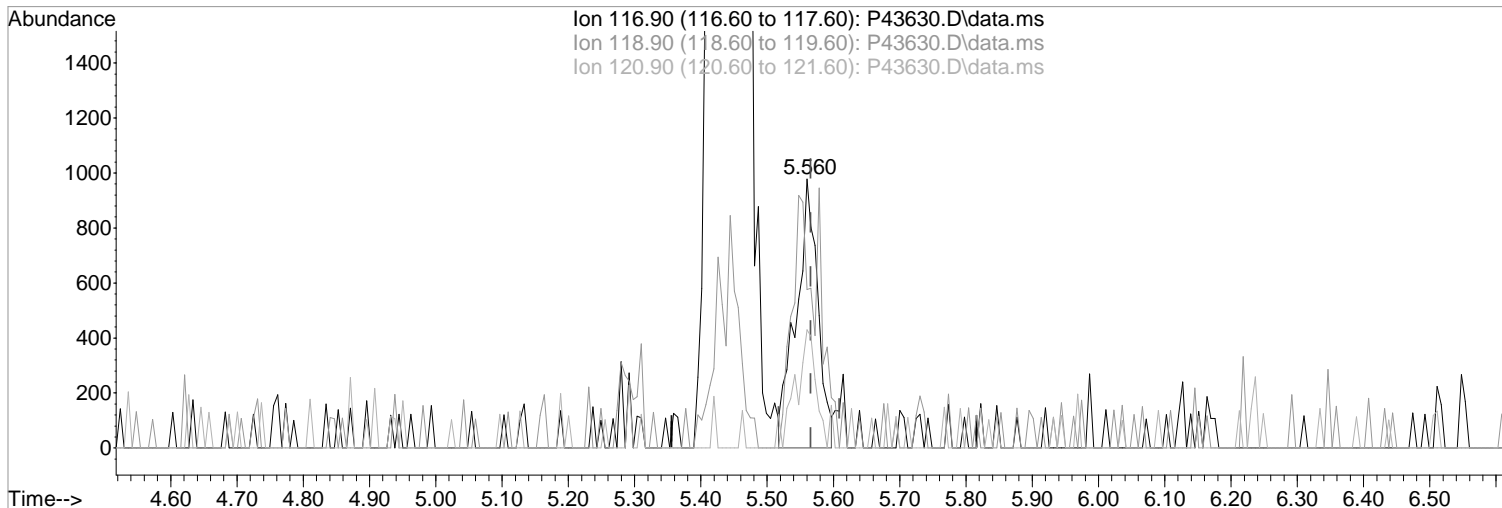
Ion	Exp%	Act%
97.00	100	100
99.00	62.10	66.29
61.00	43.30	26.13
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(46) Carbontetrachloride (P)

5.560min (-0.006) 0.49 ppb m

response 2220

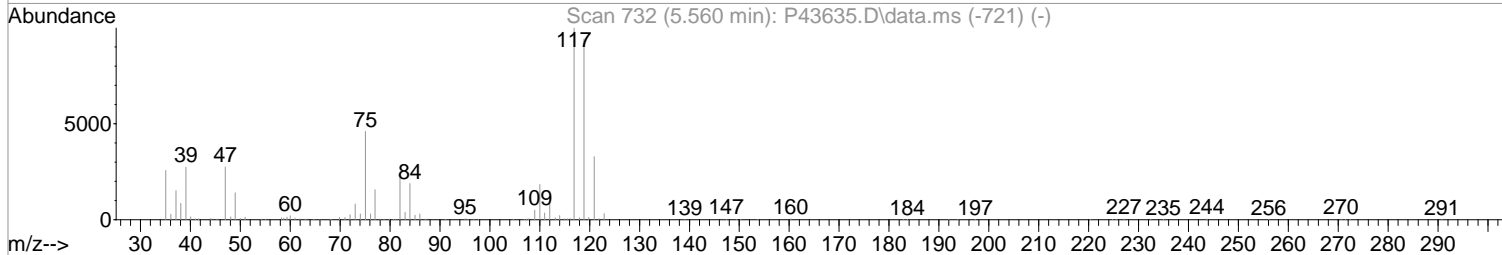
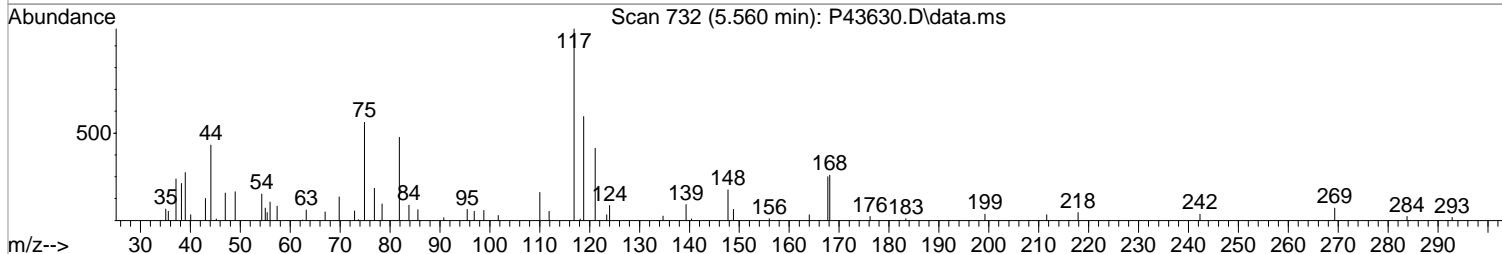
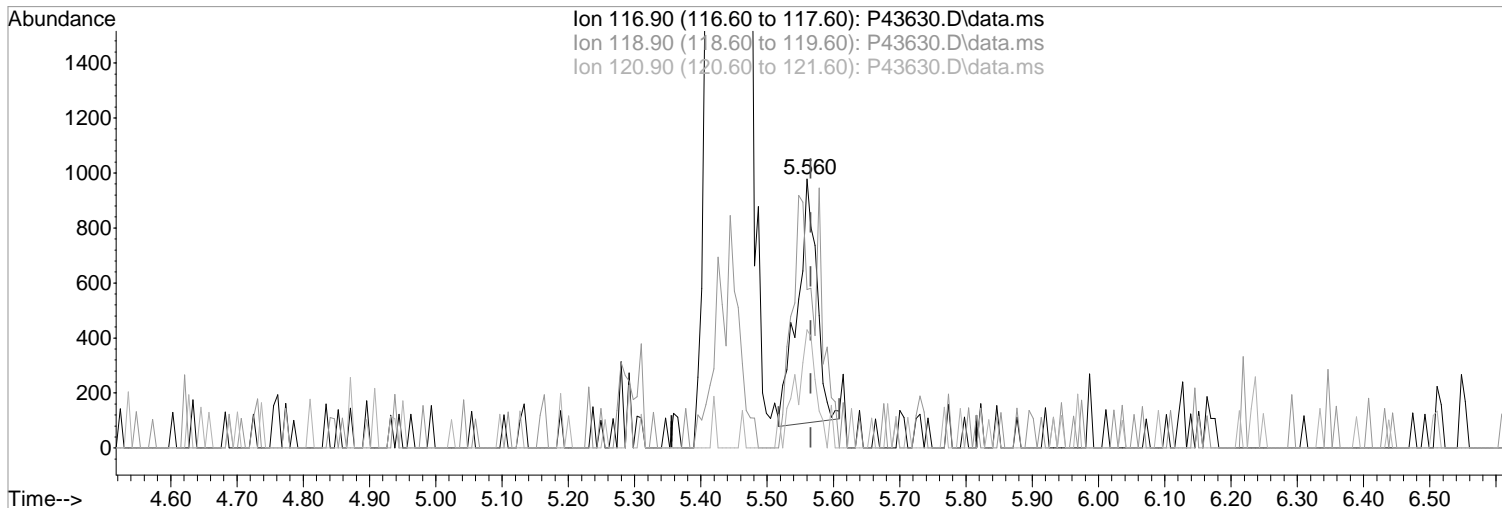
Ion	Exp%	Act%
116.90	100	100
118.90	93.80	58.90#
120.90	32.70	43.97
0.00	0.00	0.00

Manual Integration:
After
Poor integration.
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(46) Carbontetrachloride (P)

Manual Integration:

5.560min (-0.006) 0.40 ppb

Before

response 1814

Ion Exp% Act%

02/09/21

116.90 100 100

118.90 93.80 58.90#

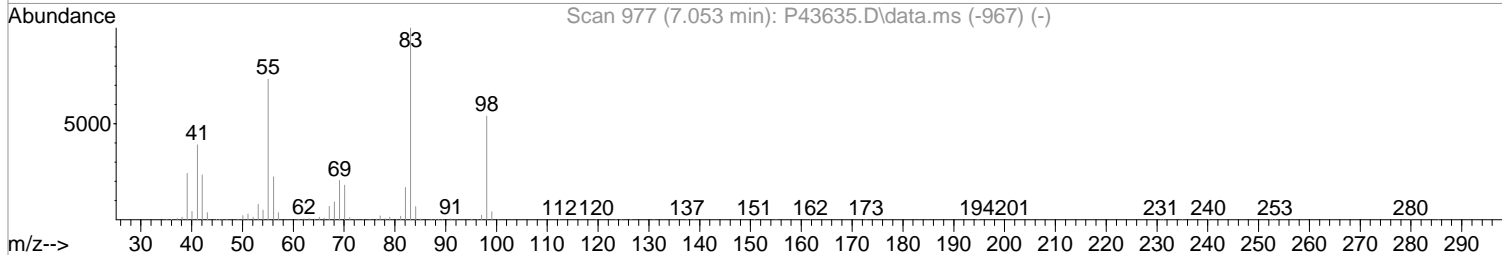
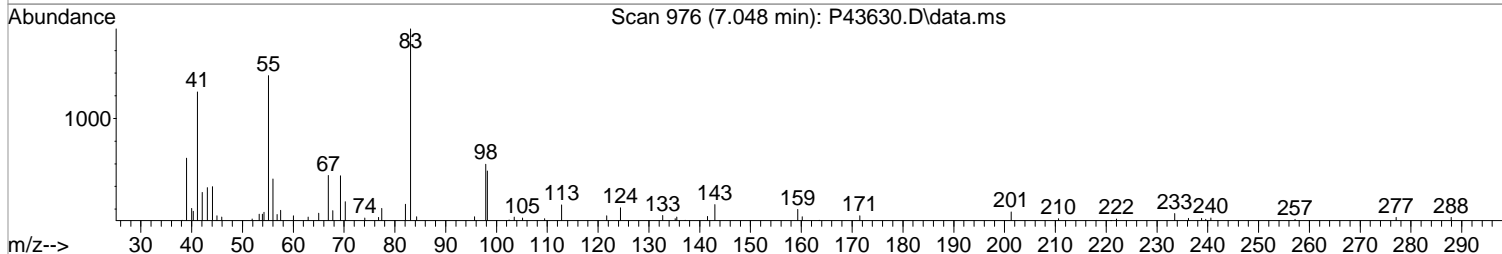
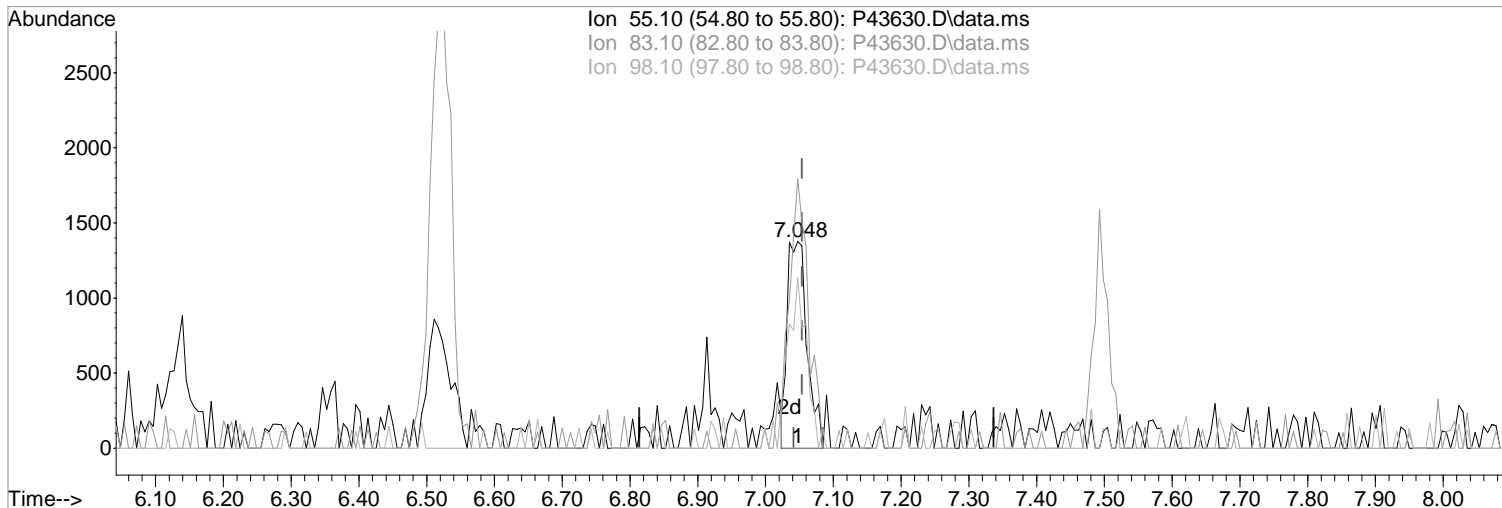
120.90 32.70 43.97

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(55) Methylcyclohexane (P)

7.048min (-0.006) 0.61 ppb m
response 2772

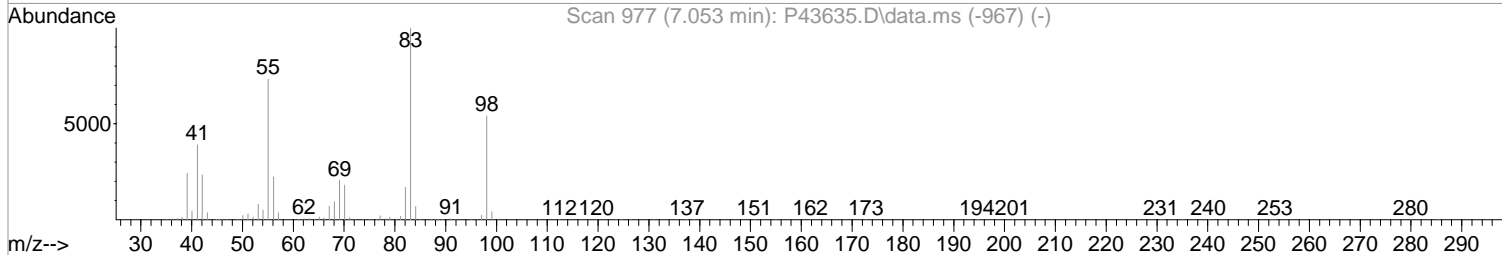
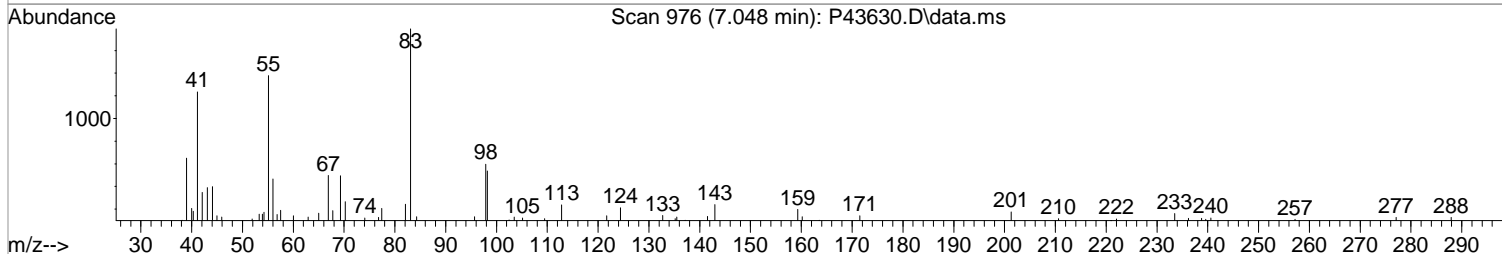
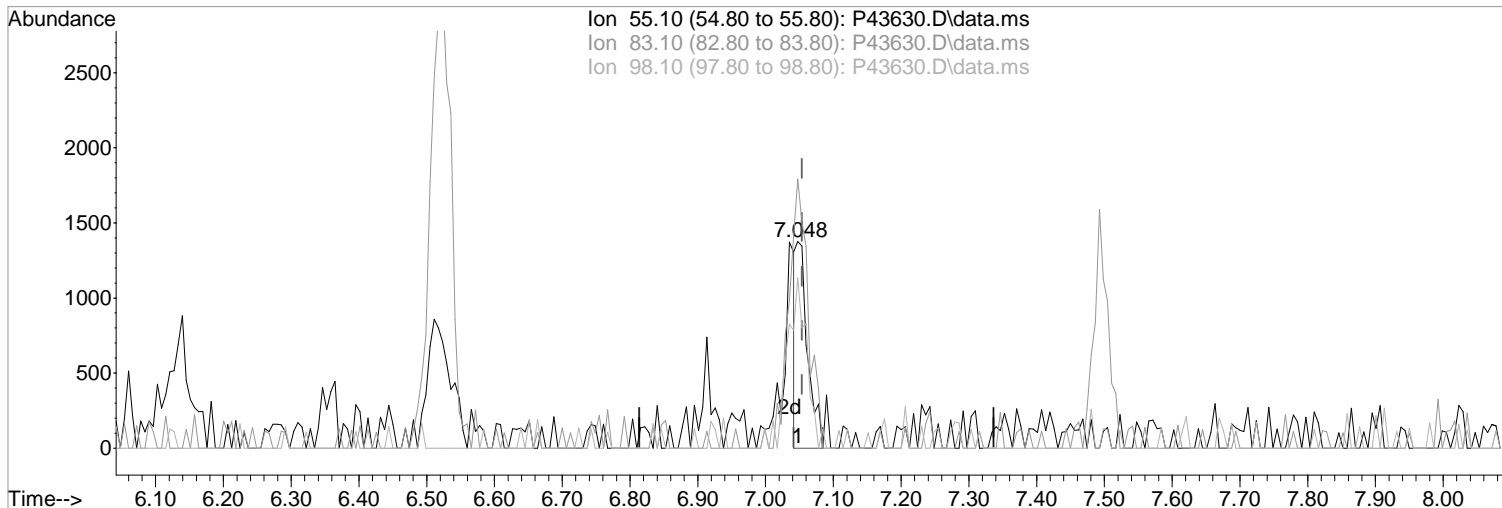
Ion	Exp%	Act%
55.10	100	100
83.10	136.50	130.14
98.10	73.80	43.36#
0.00	0.00	0.00

Manual Integration:
After
Split Peak
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(55) Methylcyclohexane (P)

Manual Integration:

7.048min (-0.006) 0.36 ppb

Before

response 1612

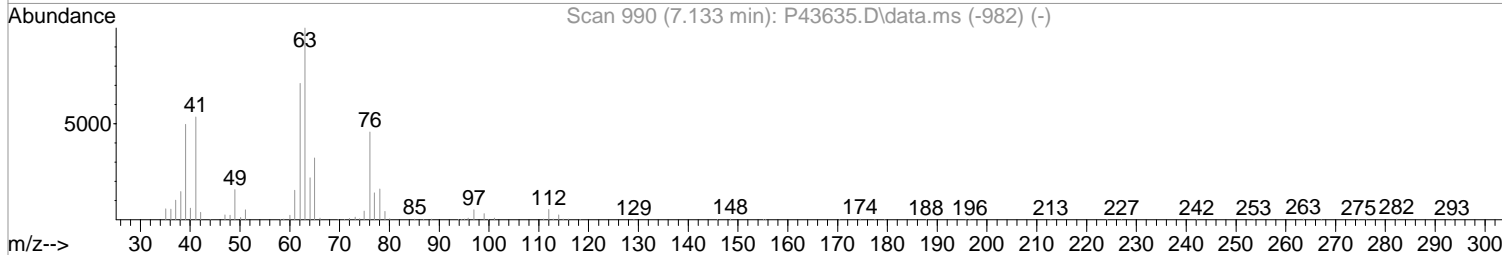
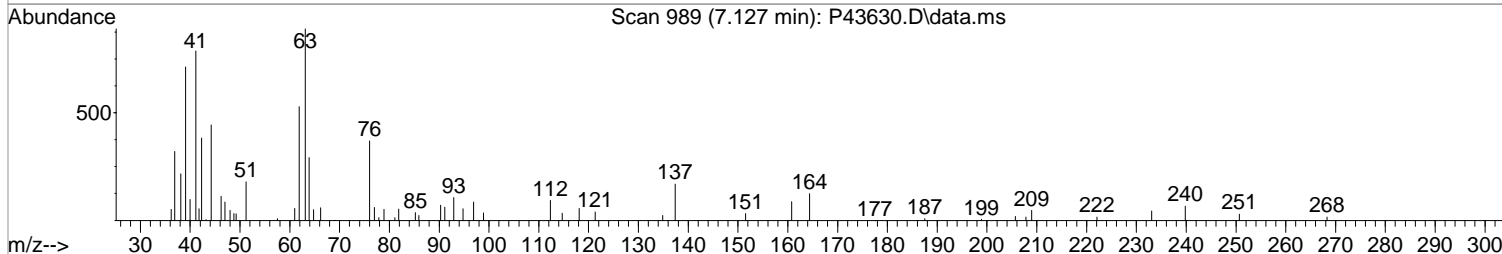
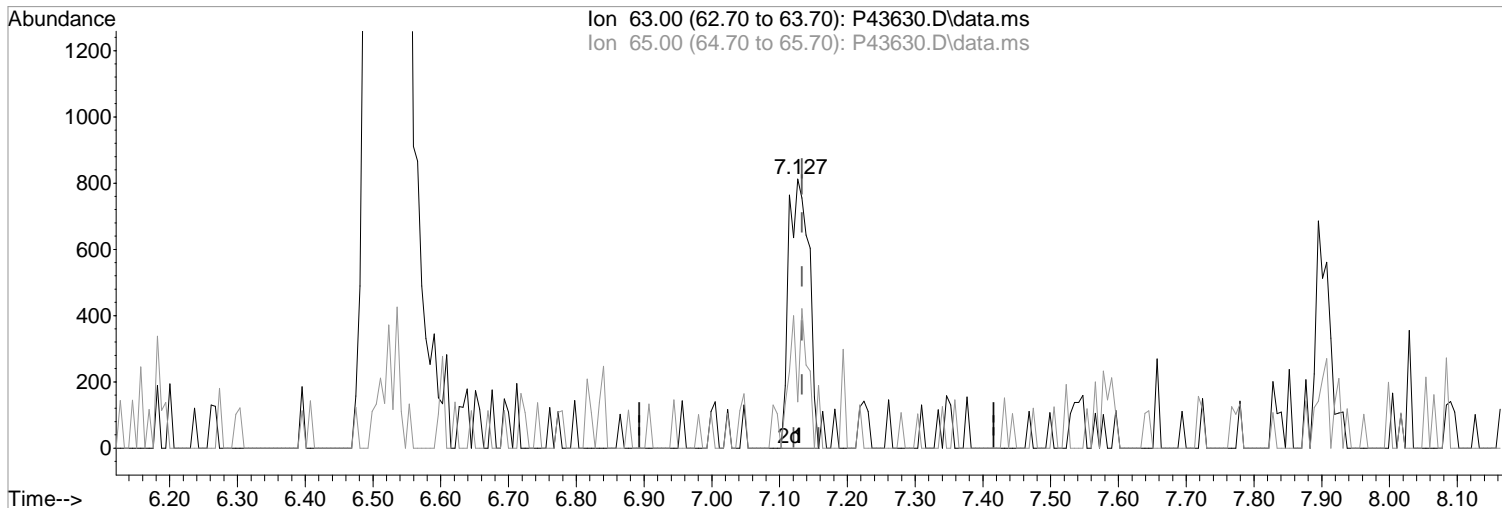
Ion	Exp%	Act%
55.10	100	100
83.10	136.50	130.14
98.10	73.80	82.35
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43630.D\data.ms

(56) 1,2-Dicloropropane (P)
7.127min (-0.006) 0.49 ppb m
response 1666

Manual Integration:

After

Split Peak

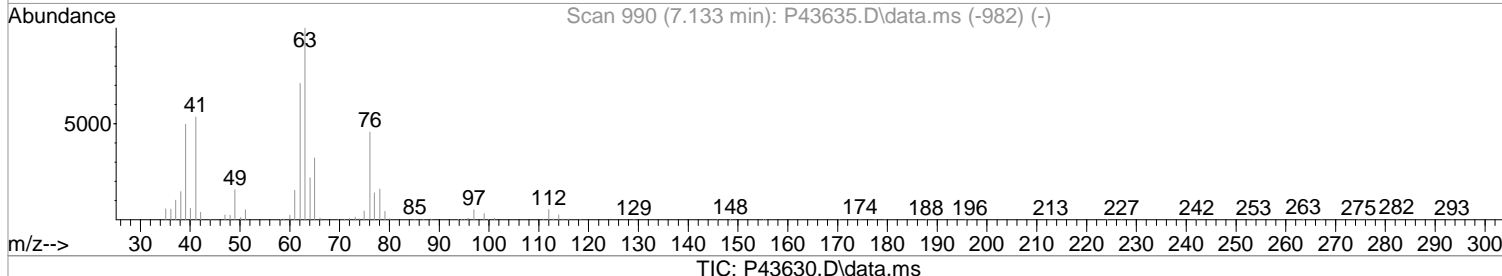
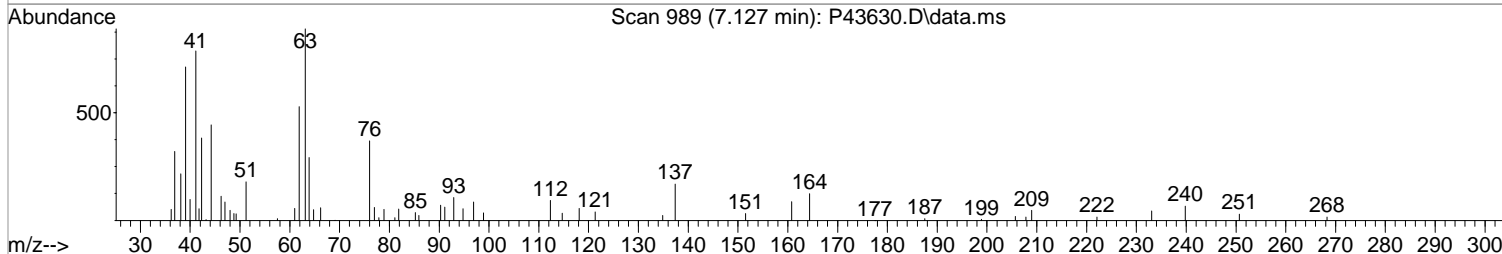
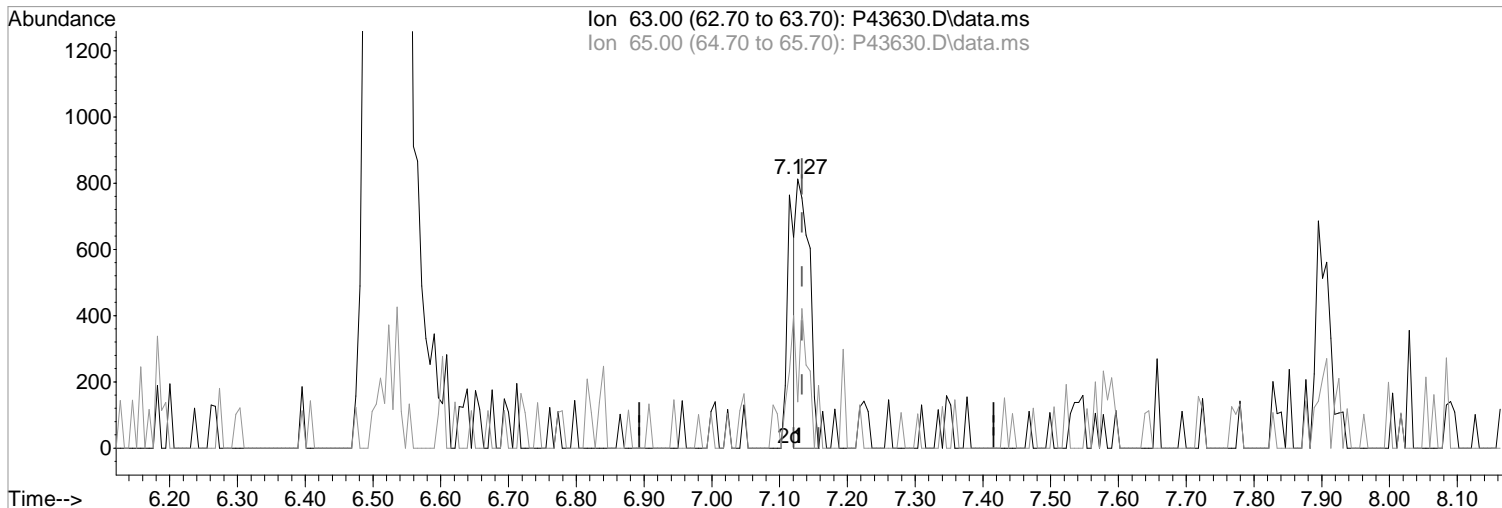
02/09/21

Ion	Exp%	Act%
63.00	100	100
65.00	32.20	17.24
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(56) 1,2-Dicloropropane (P)
7.127min (-0.006) 0.32 ppb
response 1086

Manual Integration:
Before

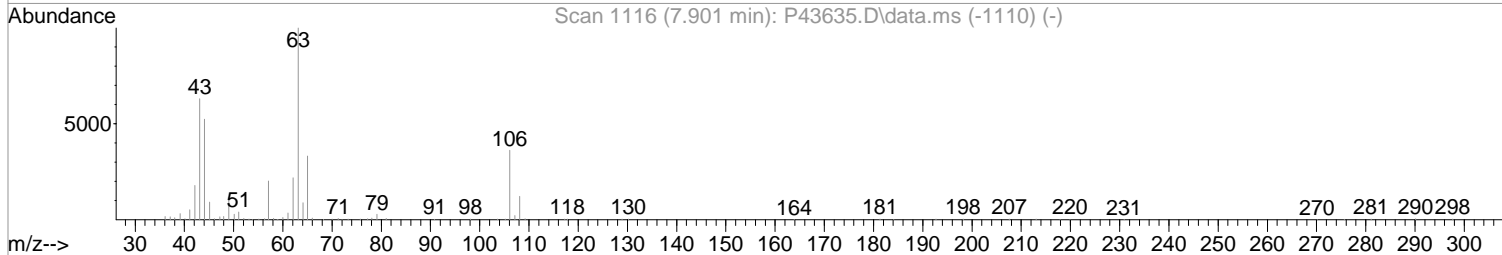
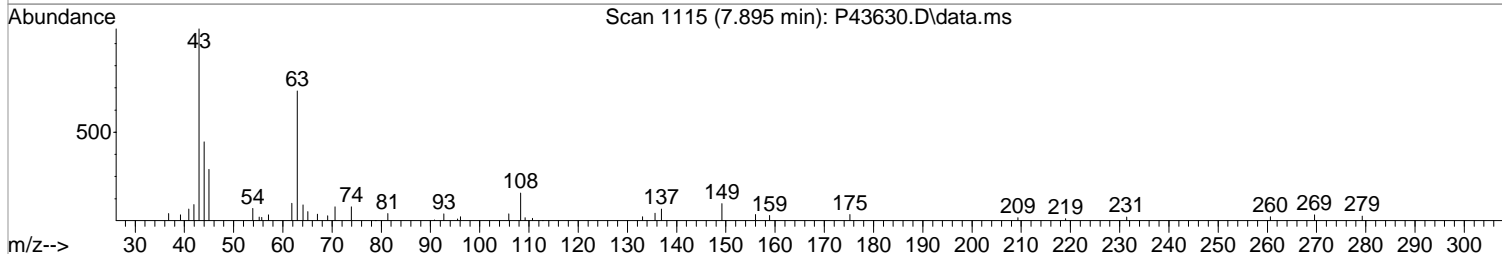
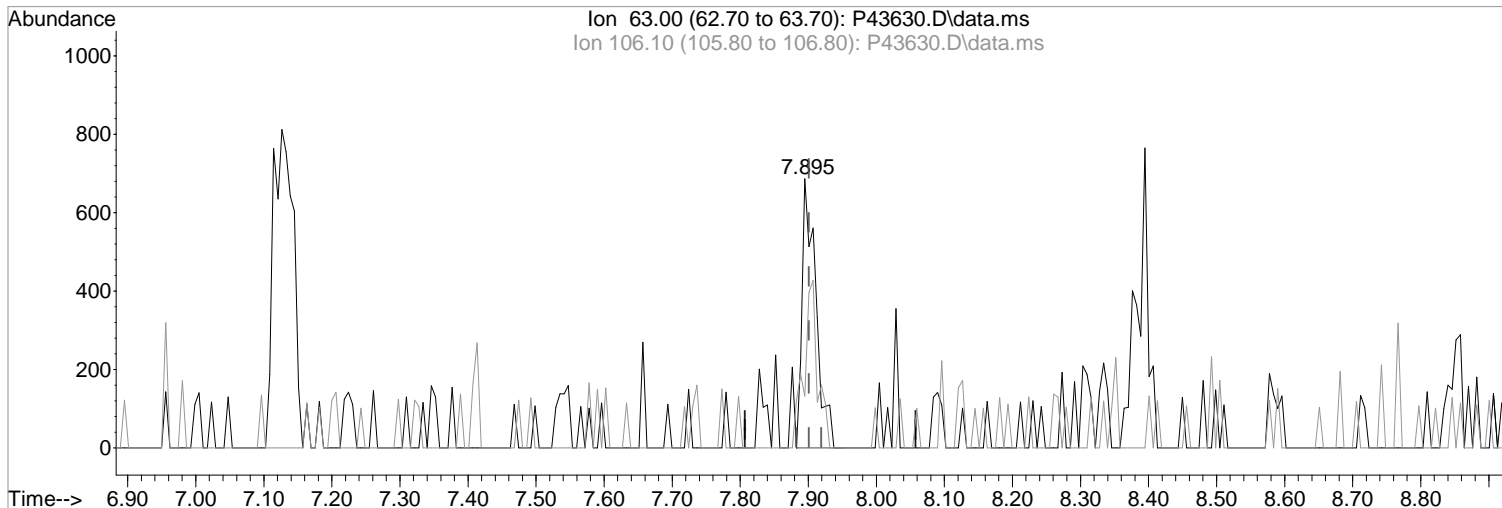
Ion	Exp%	Act%
63.00	100	100
65.00	32.20	17.24
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(62) 2-Chloroethylvinyl Ether
7.895min (-0.006) 0.45 ppb m
response 963

Manual Integration:
After
Poor integration.

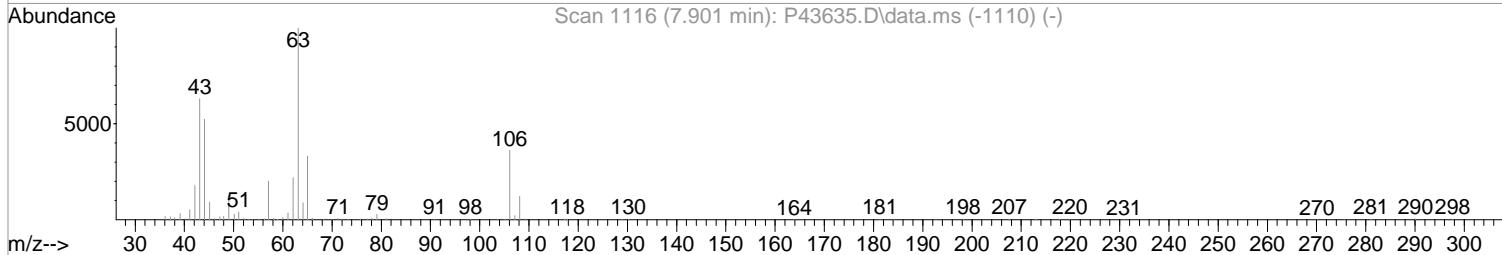
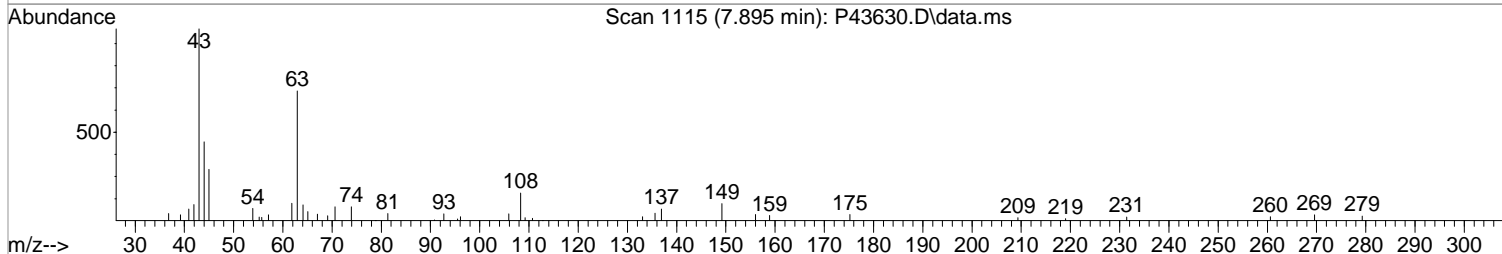
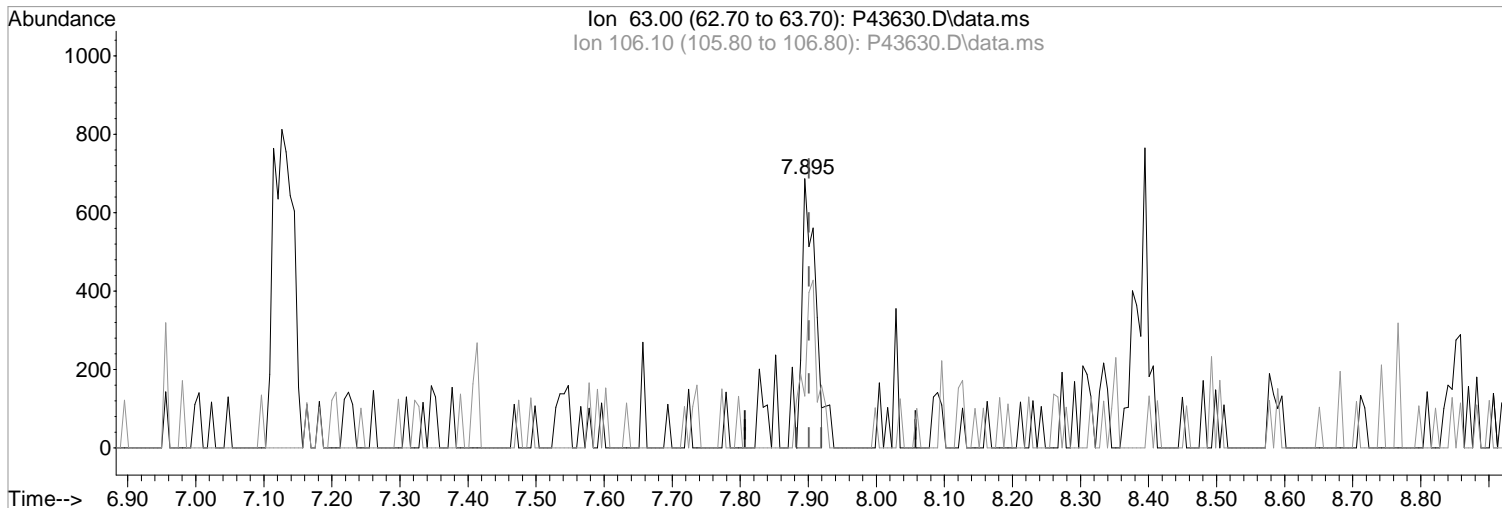
Ion	Exp%	Act%
63.00	100	100
106.10	36.00	19.24
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(62) 2-Chloroethylvinyl Ether

Manual Integration:

7.895min (-0.006) 0.41 ppb

Before

response 885

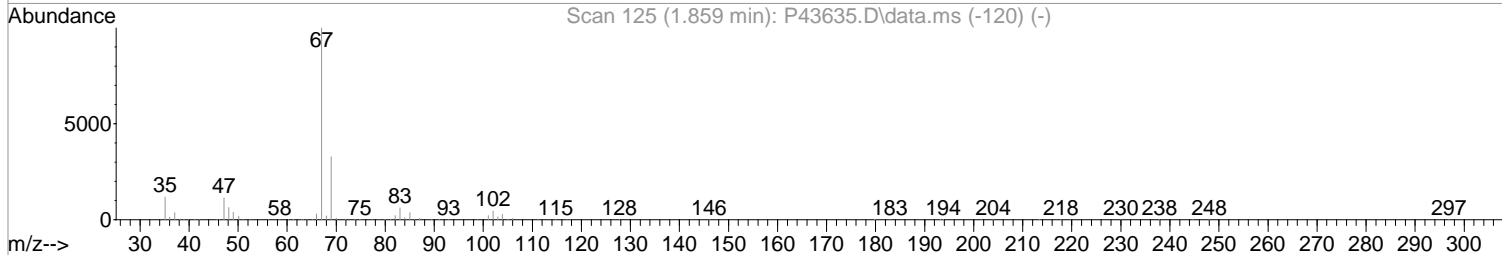
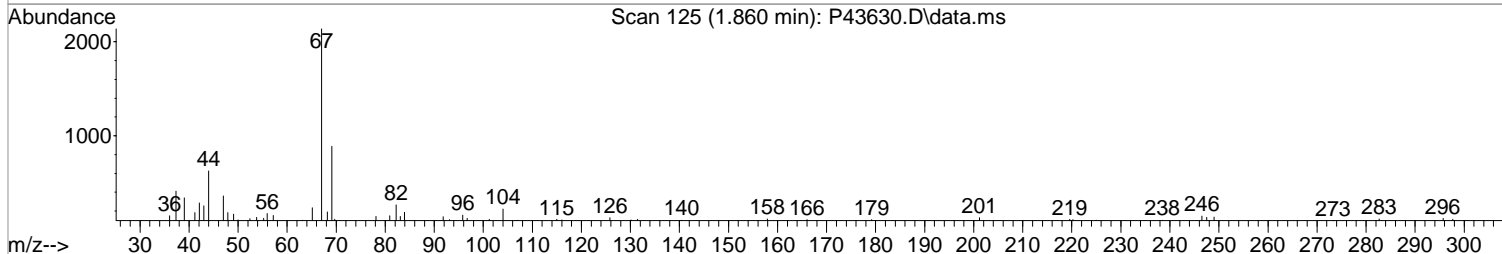
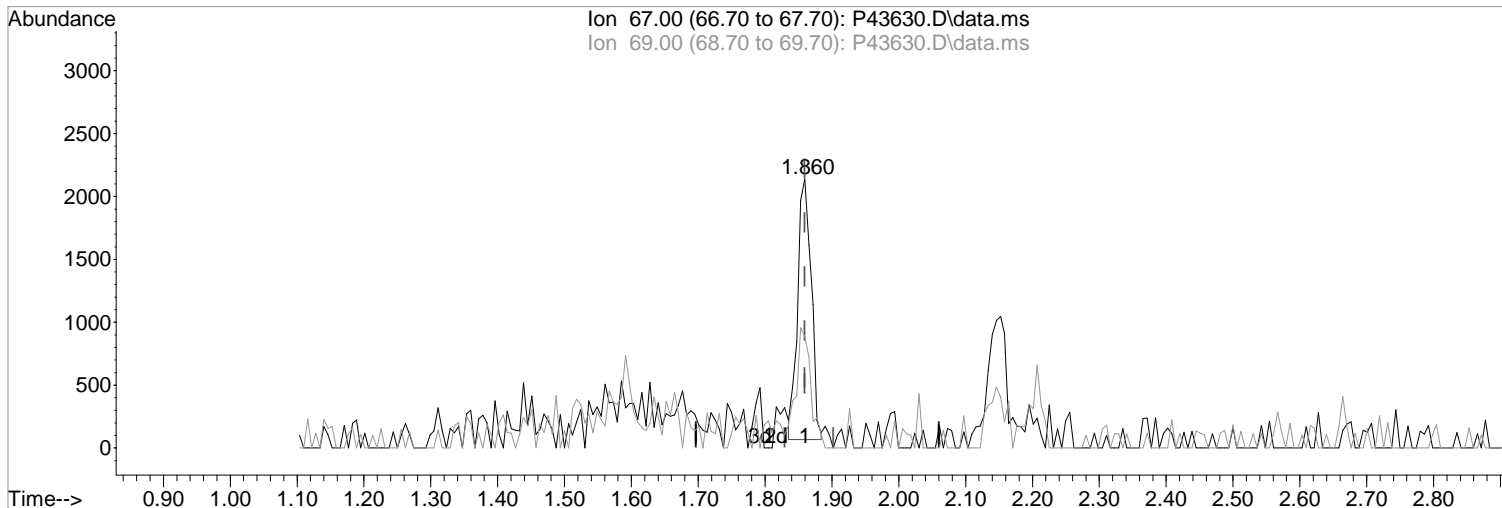
Ion	Exp%	Act%
63.00	100	100
106.10	36.00	19.24
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43630.D
 Acq On : 9 Feb 2021 12:11 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration



TIC: P43630.D\data.ms

(7) Freon 21
 1.860min (+0.000) 0.51 ppb m
 response 2930

Manual Integration:
 After
 Poor integration.

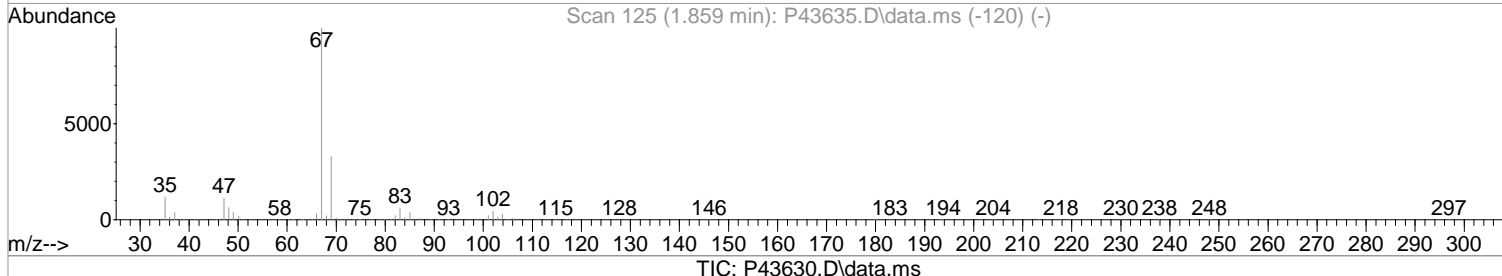
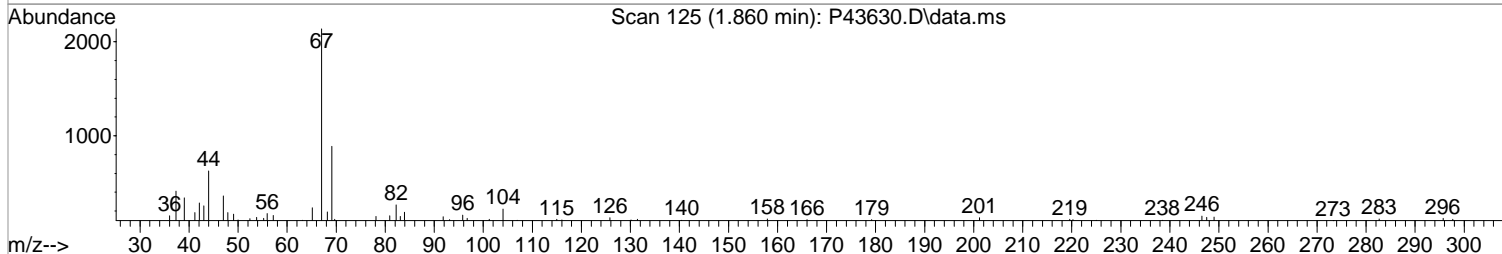
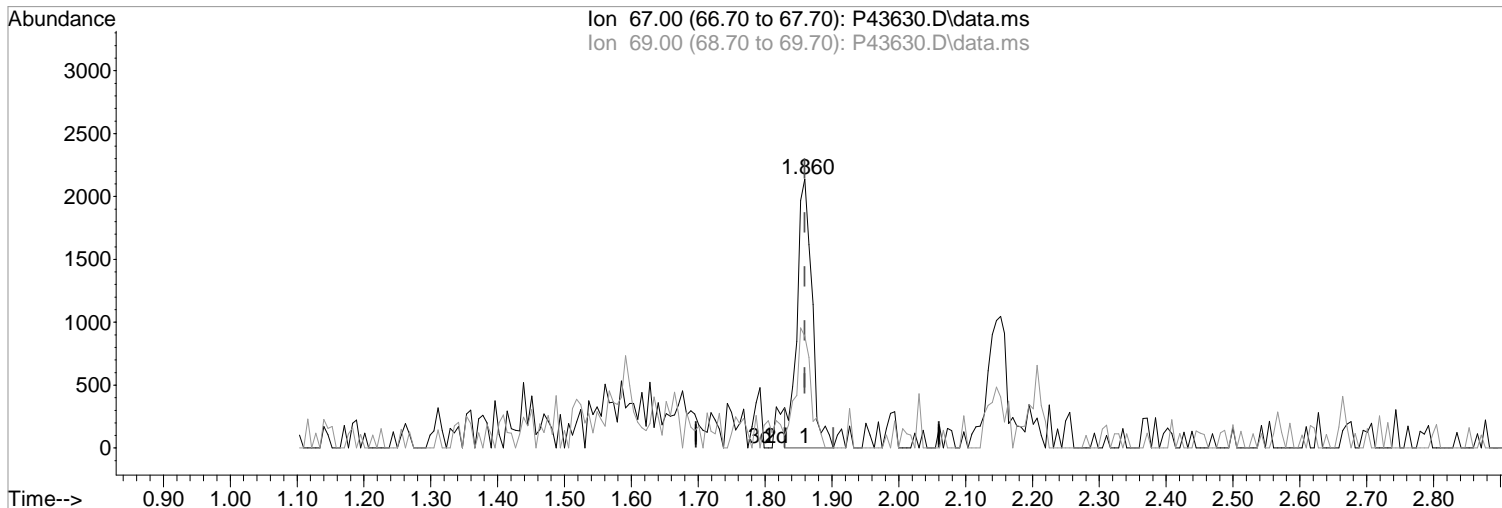
Ion	Exp%	Act%
67.00	100	100
69.00	32.90	41.51
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(7) Freon 21
1.860min (+0.000) 0.57 ppb
response 3305

Manual Integration:
Before

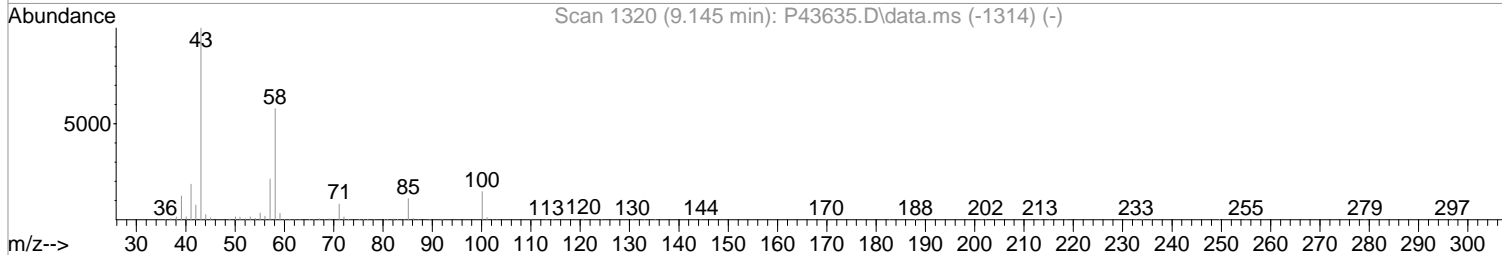
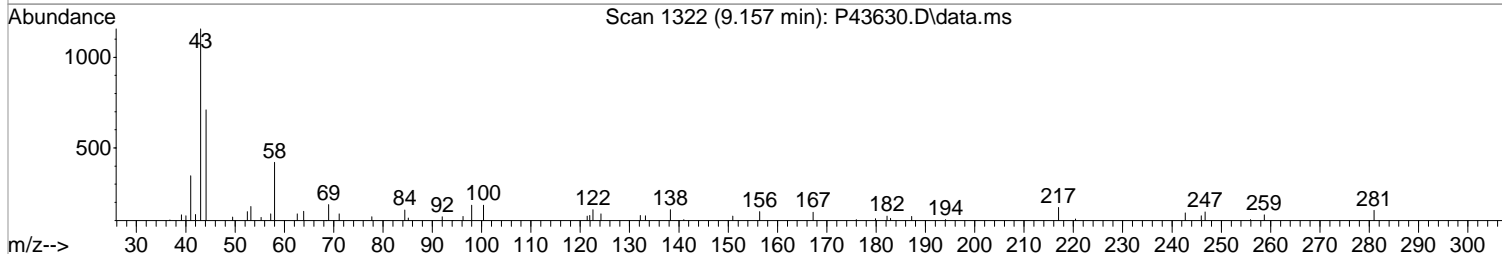
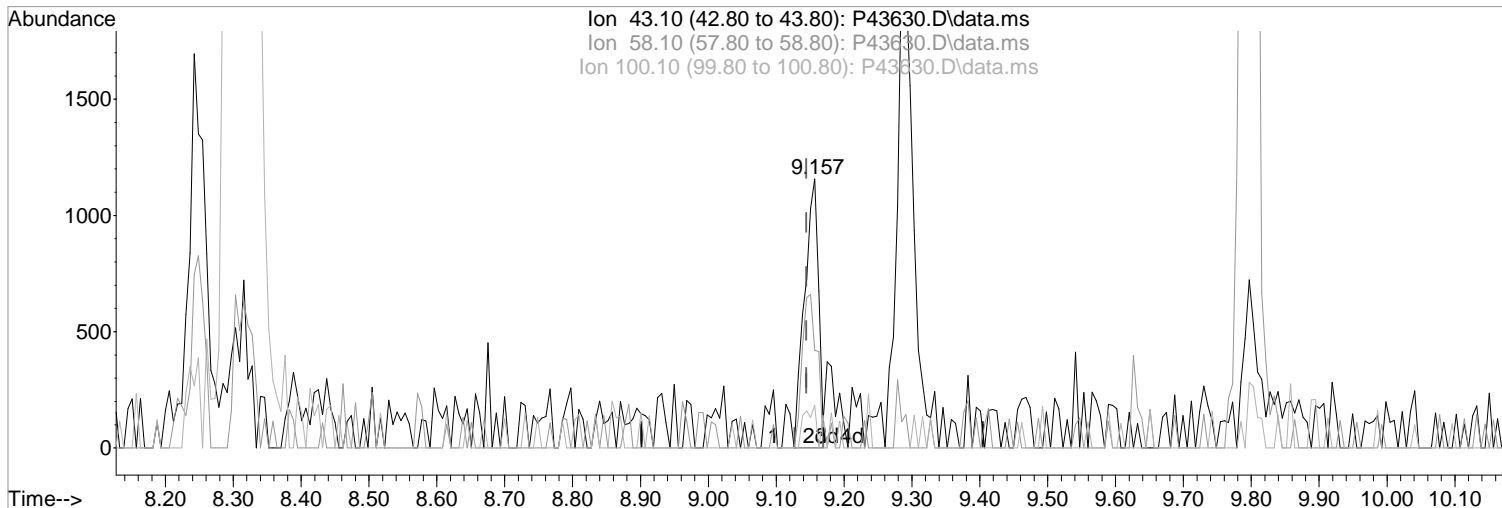
Ion	Exp%	Act%
67.00	100	100
69.00	32.90	46.80
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43630.D\data.ms

(73) 2-Hexanone (P)

9.157min (+0.012) 0.50 ppb m

response 1680

Ion	Exp%	Act%
43.10	100	100
58.10	57.80	36.30#
100.10	14.60	15.90
0.00	0.00	0.00

Manual Integration:

After

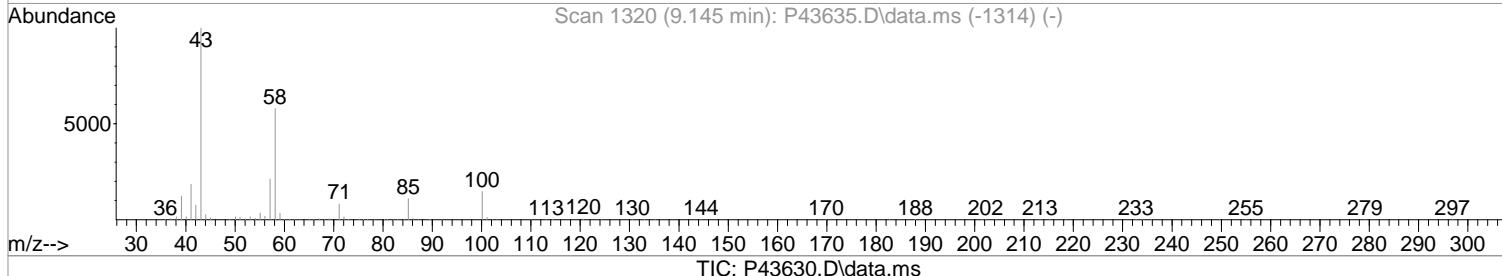
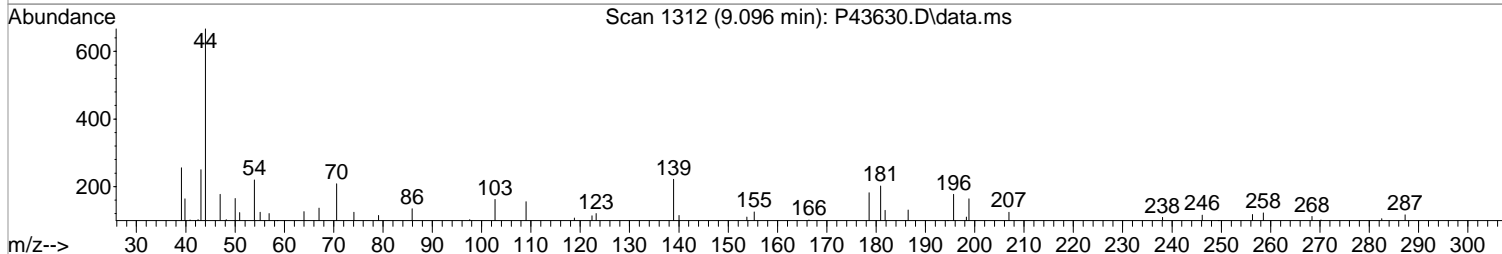
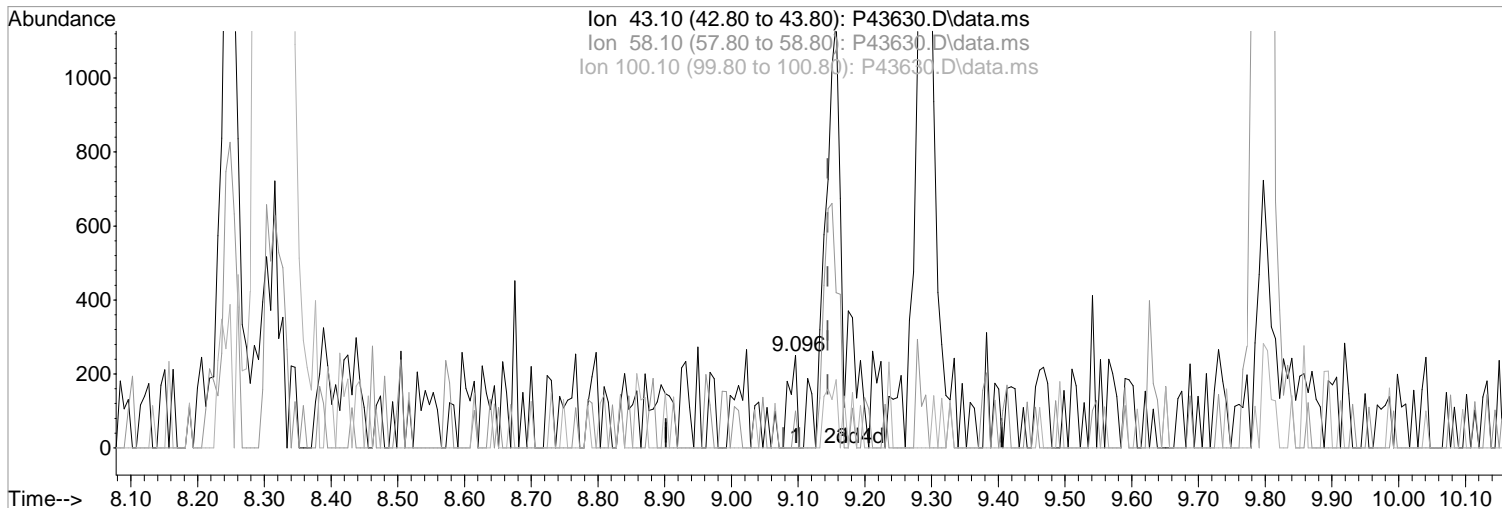
Peak not found.

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(73) 2-Hexanone (P)

9.096min (-0.049) 0.06 ppb

response 210

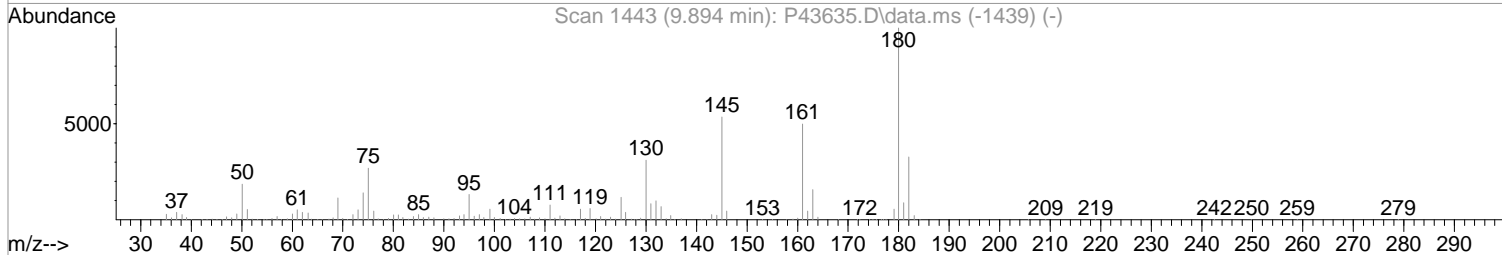
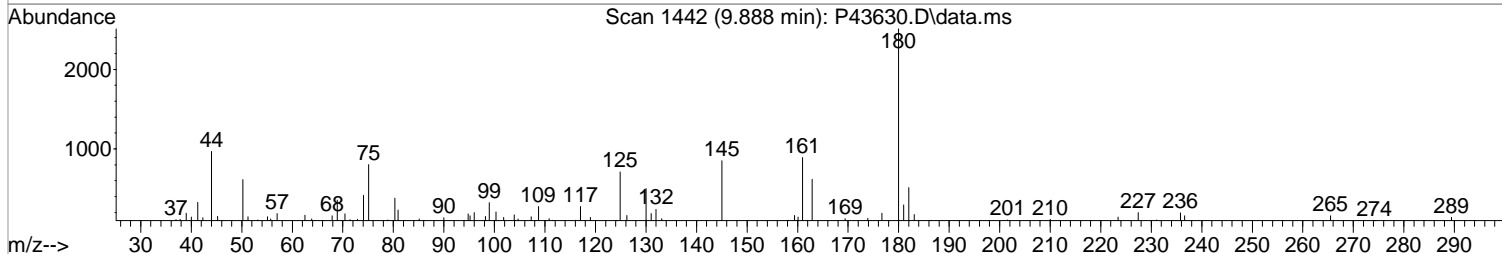
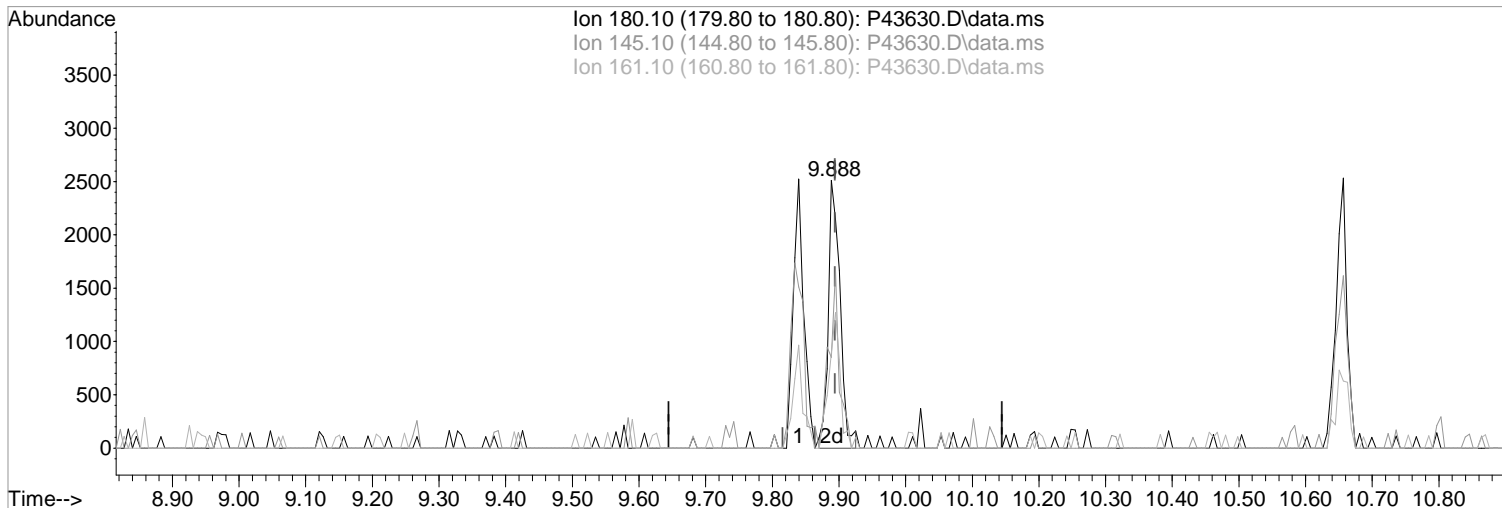
Ion	Exp%	Act%
43.10	100	100
58.10	57.80	40.00
100.10	14.60	0.00
0.00	0.00	0.00

Manual Integration:
Before
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(80) 4-CBTF

9.888min (-0.006) 0.59 ppb m
response 3056

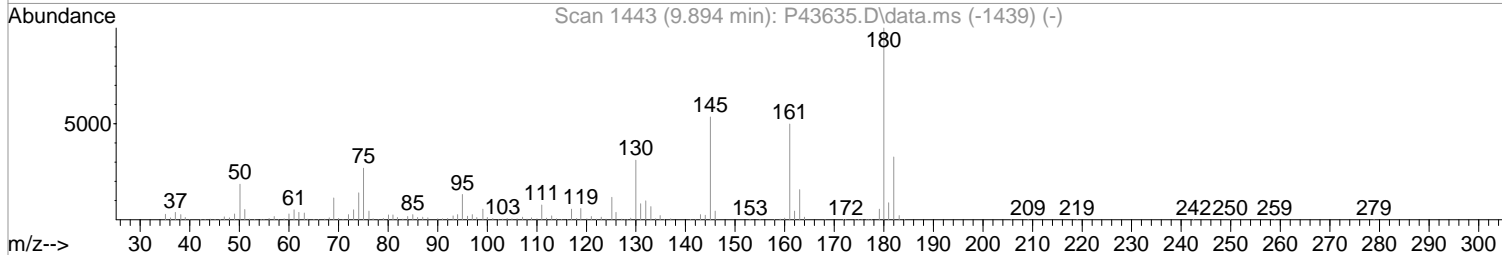
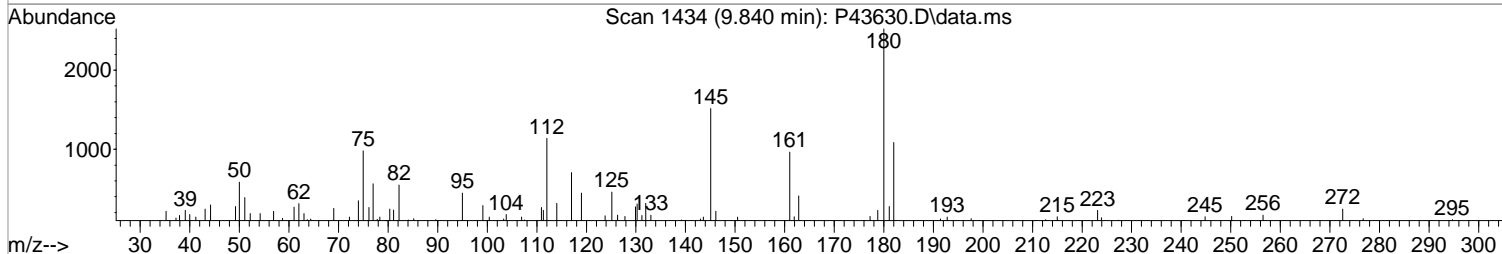
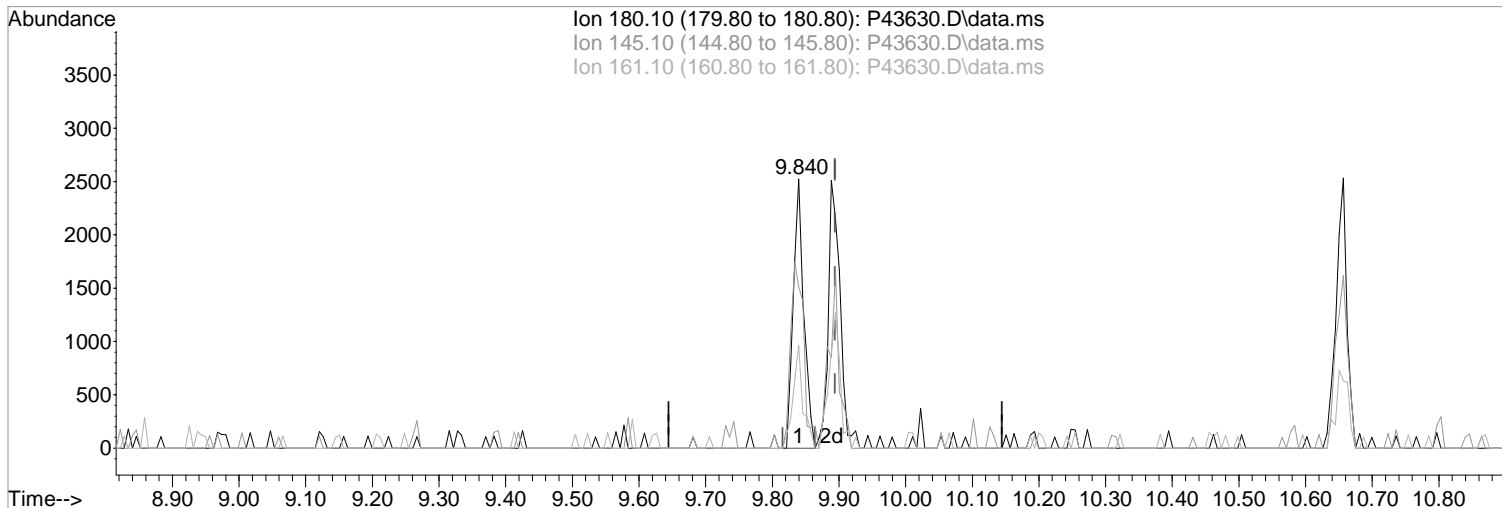
Ion	Exp%	Act%
180.10	100	100
145.10	53.90	33.88#
161.10	49.80	35.55
0.00	0.00	0.00

Manual Integration:
After
Wrong peak selected.
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43630.D\data.ms

(80) 4-CBTF
9.840min (-0.055) 0.54 ppb
response 2769

Manual Integration:

Before

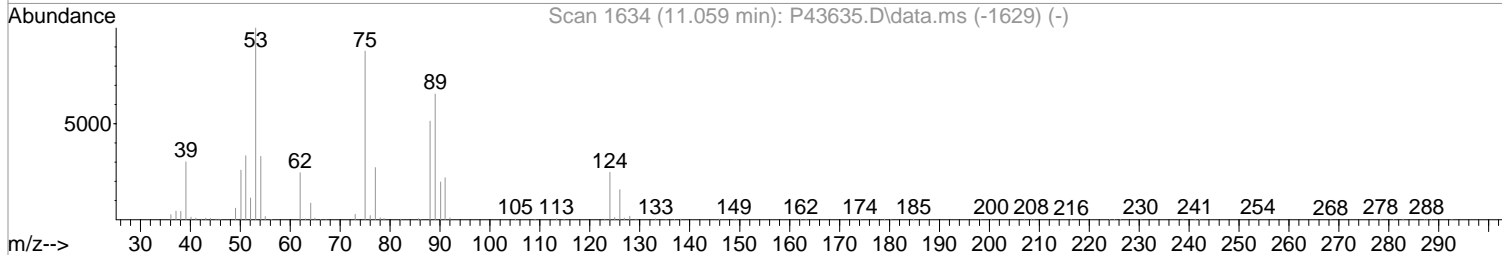
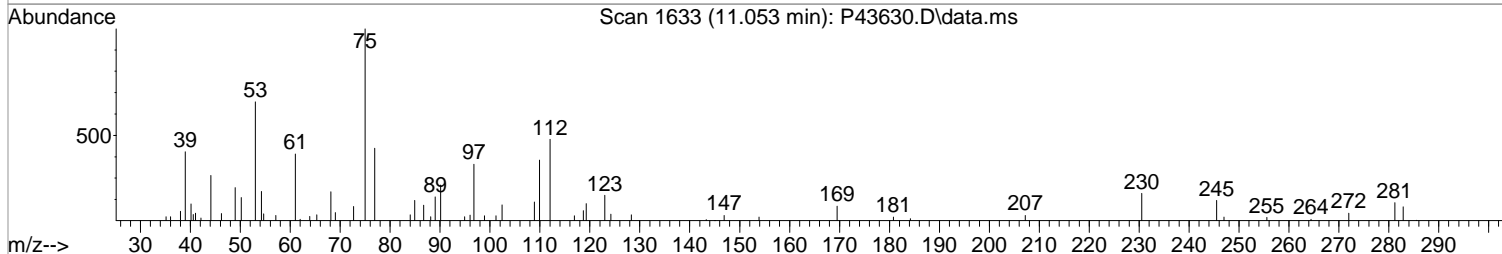
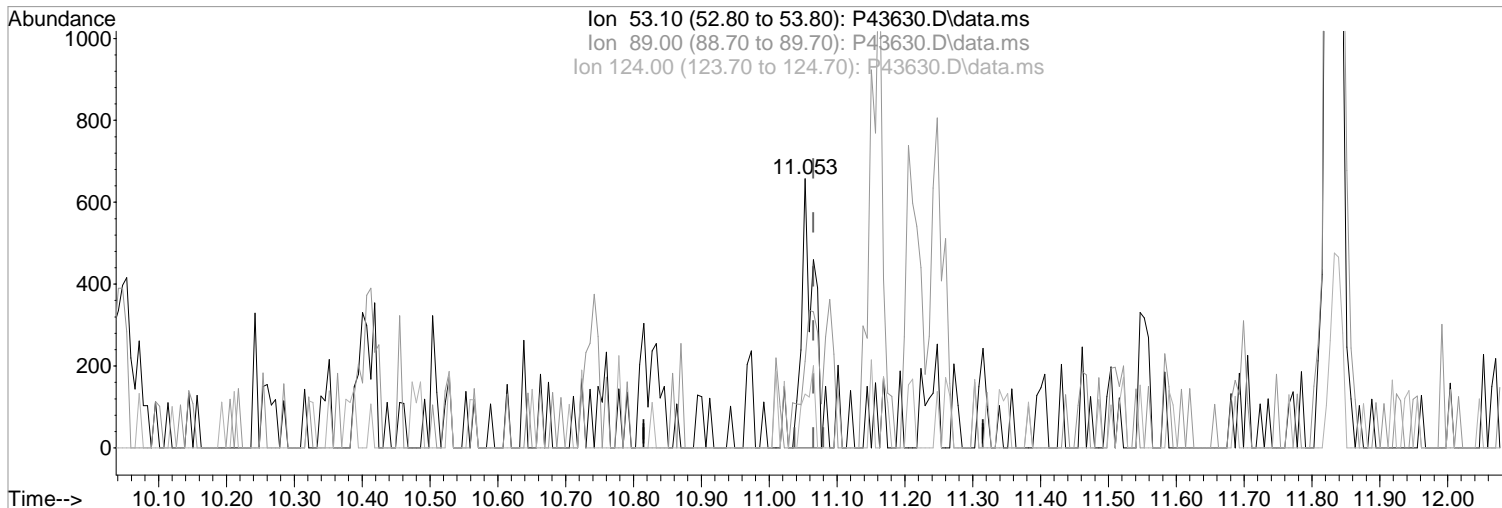
Ion	Exp%	Act%
180.10	100	100
145.10	53.90	59.94
161.10	49.80	38.23
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(91) trans-1,4-Dichloro-2-Butene

11.053min (-0.012) 0.53 ppb m
response 785

Ion	Exp%	Act%
53.10	100	100
89.00	65.40	32.27#
124.00	24.60	19.94
0.00	0.00	0.00

Manual Integration:

After

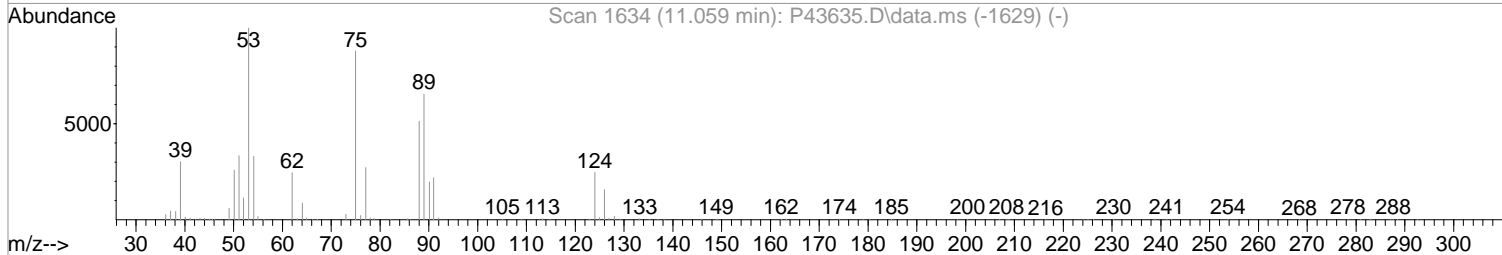
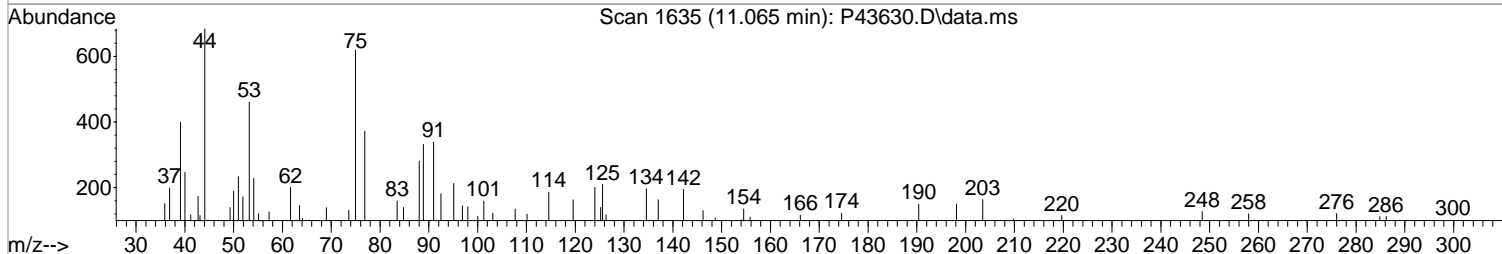
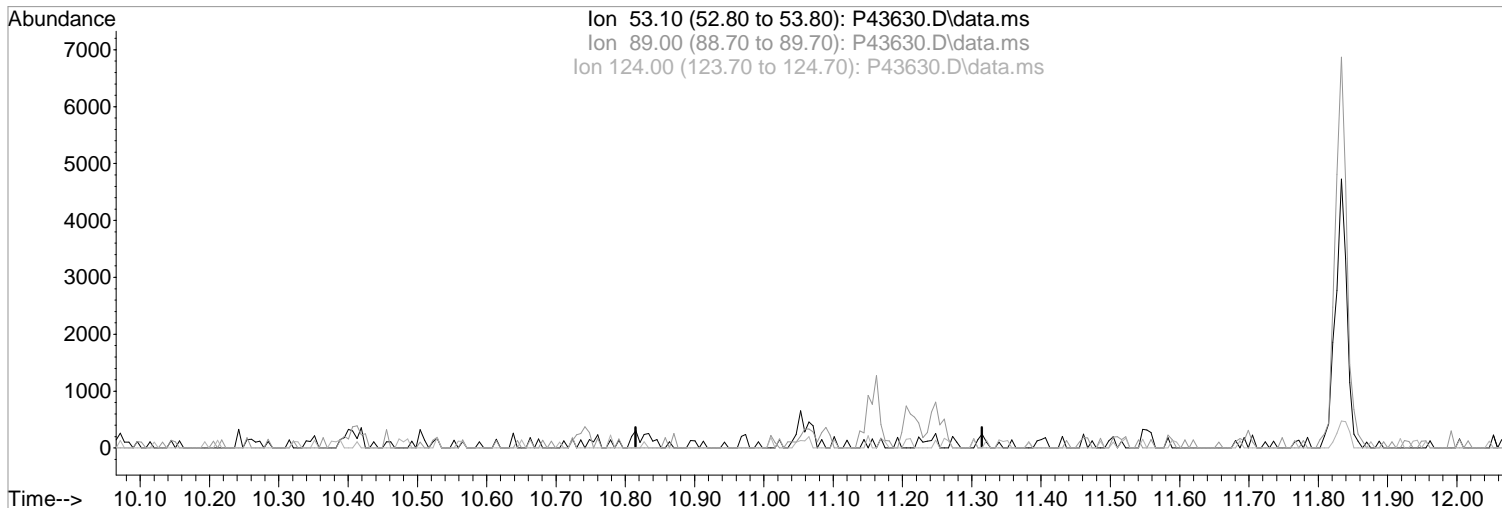
Peak not found.

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(91) trans-1,4-Dichloro-2-Butene

Manual Integration:

11.065min (-11.065) 0.00 ppb

Before

response 0

Ion	Exp%	Act%
53.10	100	0.00
89.00	65.40	0.00#
124.00	24.60	0.00#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43630.D
 Acq On : 9 Feb 2021 12:11 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:12:23 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	333892	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	524348	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	481331	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	246448	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	31740	10.94	ppb	-0.01
Spiked Amount	50.000	Range 80 - 116	Recovery =	21.88%#		
48) surr1,1,2-dichloroetha...	5.847	65	41153	11.23	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	22.46%#		
65) SURR3,Toluene-d8	8.316	98	144035	11.30	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	22.60%#		
70) SURR2,BFB	10.864	95	56439	11.16	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	22.32%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.195	85	2130	0.51	ppb	91
3) Chloromethane	1.323	50	2250	0.60	ppb	88
4) Vinyl Chloride	1.396	62	2488	0.50	ppb	# 38
5) Bromomethane	1.628	94	3448	0.87	ppb	98
6) Chloroethane	1.707	64	2011	0.63	ppb	88
7) Freon 21	1.860	67	2930m	0.51	ppb	
8) Trichlorofluoromethane	1.902	101	2732	0.52	ppb	84
9) Diethyl Ether	2.140	59	1437	0.51	ppb	# 73
10) Freon 123a	2.152	67	2023m	0.56	ppb	
11) Freon 123	2.201	83	2323	0.55	ppb	# 68
12) Acrolein	2.250	56	2490	3.05	ppb	81
13) 1,1-Dicethene	2.323	96	1761m	0.65	ppb	
14) Freon 113	2.323	101	1974	0.60	ppb	80
15) Acetone	2.396	43	1964	1.29	ppb	91
16) 2-Propanol	2.524	45	3928	10.61	ppb	83
17) Iodomethane	2.463	142	1446m	0.43	ppb	
18) Carbon Disulfide	2.524	76	4694	0.58	ppb	91
20) Allyl Chloride	2.670	76	965	0.55	ppb	# 76
21) Methyl Acetate	2.701	43	2570	0.67	ppb	94
22) Methylene Chloride	2.792	84	2058	0.59	ppb	# 78
23) TBA	2.939	59	6900	9.93	ppb	90
24) Acrylonitrile	3.073	53	4580	2.70	ppb	86
25) Methyl-t-Butyl Ether	3.091	73	5961	0.50	ppb	75
26) trans-1,2-Dichloroethene	3.073	96	1867	0.61	ppb	# 89
28) 1,1-Dicethane	3.585	63	3309m	0.58	ppb	
30) DIPE	3.701	45	5319	0.60	ppb	# 61
31) 2-Chloro-1,3-Butadiene	3.695	53	2494	0.51	ppb	94
32) ETBE	4.225	59	5670	0.56	ppb	81
33) 2,2-Dichloropropane	4.426	77	3228m	0.58	ppb	
34) cis-1,2-Dichloroethene	4.444	96	2022	0.55	ppb	# 57
36) Propionitrile	4.633	54	2224	2.96	ppb	86
37) Bromochloromethane	4.853	130	1409m	0.59	ppb	
38) Methacrylonitrile	4.896	67	1492	0.76	ppb	# 65
40) Chloroform	5.030	83	3275	0.56	ppb	88
41) 1,1,1-Trichloroethane	5.286	97	2980m	0.54	ppb	
42) TAME	6.139	73	5339	0.51	ppb	80
46) Carbontetrachloride	5.560	117	2220m	0.49	ppb	
47) 1,1-Dichloropropene	5.578	75	2456	0.52	ppb	77
49) Benzene	5.901	78	6860	0.49	ppb	85

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43630.D
 Acq On : 9 Feb 2021 12:11 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:12:23 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dichloroethane	5.962	62	2161	0.44	ppb	86
51) Iso-Butyl Alcohol	5.975	43	3213	12.01	ppb	82
52) n-Heptane	6.353	43	2575	0.65	ppb #	54
53) 1-Butanol	6.907	56	4531	24.65	ppb	96
54) Trichloroethene	6.828	130	2089	0.54	ppb #	84
55) Methylcyclohexane	7.048	55	2772m	0.61	ppb	
56) 1,2-Dicloropropane	7.127	63	1666m	0.49	ppb	
57) Dibromomethane	7.273	93	1457	0.60	ppb #	79
58) 1,4-Dioxane	7.371	88	1223	13.92	ppb	95
59) Methyl Methacrylate	7.346	69	1950	0.61	ppb #	74
60) Bromodichloromethane	7.493	83	2381	0.52	ppb	80
62) 2-Chloroethylvinyl Ether	7.895	63	963m	0.45	ppb	
63) cis-1,3-Dichloropropene	8.035	75	2892	0.51	ppb	79
64) 4-Methyl-2-pentanone	8.242	43	2392	0.52	ppb	91
66) Toluene	8.389	91	9690	0.58	ppb	98
67) trans-1,3-Dichloropropene	8.669	75	2931	0.53	ppb	85
68) Ethyl Methacrylate	8.797	69	2825	0.49	ppb	82
69) 1,1,2-Trichloroethane	8.858	97	1885	0.52	ppb	95
72) Tetrachloroethene	8.962	164	1951	0.64	ppb #	47
73) 2-Hexanone	9.157	43	1680m	0.50	ppb	
74) 1,3-Dichloropropane	9.029	76	3082	0.52	ppb	81
75) Dibromochloromethane	9.248	129	1900	0.56	ppb	99
76) N-Butyl Acetate	9.285	43	3448	0.55	ppb	80
77) 1,2-Dibromoethane	9.340	107	2048	0.54	ppb #	69
78) Chlorobenzene	9.821	112	6596	0.61	ppb	79
79) 3-CBTF	9.840	180	2769	0.47	ppb	90
80) 4-CBTF	9.888	180	3056m	0.59	ppb	
81) 1,1,1,2-Tetrachloroethane	9.913	131	1905	0.52	ppb	86
82) Ethylbenzene	9.937	106	3721	0.63	ppb #	57
83) (m+p)Xylene	10.053	106	6649	0.96	ppb #	77
84) o-Xylene	10.407	106	3885	0.55	ppb	95
85) Styrene	10.425	104	5930	0.50	ppb	98
87) Bromoform	10.577	173	1249	0.55	ppb #	59
88) 2-CBTF	10.657	180	2933	0.54	ppb #	88
89) Isopropylbenzene	10.736	105	9070	0.53	ppb	96
90) Cyclohexanone	10.827	55	8795	10.22	ppb	83
91) trans-1,4-Dichloro-2-B...	11.053	53	785m	0.53	ppb	
92) 1,1,2,2-Tetrachloroethane	11.016	83	3174	0.59	ppb #	72
93) Bromobenzene	10.992	156	2129	0.49	ppb #	76
94) 1,2,3-Trichloropropane	11.041	110	1216	0.65	ppb #	87
95) n-Propylbenzene	11.089	91	10246	0.52	ppb	95
96) 2-Chlorotoluene	11.156	91	6133	0.50	ppb	92
97) 3-Chlorotoluene	11.211	91	7510	0.59	ppb	97
98) 4-Chlorotoluene	11.248	91	7430	0.52	ppb	92
99) 1,3,5-Trimethylbenzene	11.242	105	8036	0.53	ppb	82
100) tert-Butylbenzene	11.510	119	7291	0.56	ppb	91
101) 1,2,4-Trimethylbenzene	11.553	105	8225	0.55	ppb	94
102) 3,4-DCBTF	11.614	214	2510	0.58	ppb #	87
103) sec-Butylbenzene	11.693	105	10253	0.55	ppb	97
104) p-Isopropyltoluene	11.815	119	8786	0.54	ppb	95
105) 1,3-Dclbenz	11.778	146	4935	0.55	ppb	98
106) 1,4-Dclbenz	11.851	146	5896	0.62	ppb	92
107) 2,4-DCBTF	11.912	214	2072	0.51	ppb #	79
108) 2,5-DCBTF	11.949	214	2697	0.59	ppb #	85
109) n-Butylbenzene	12.144	91	7578	0.51	ppb	98
110) 1,2-Dclbenz	12.156	146	4898	0.54	ppb	83

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43630.D
 Acq On : 9 Feb 2021 12:11 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

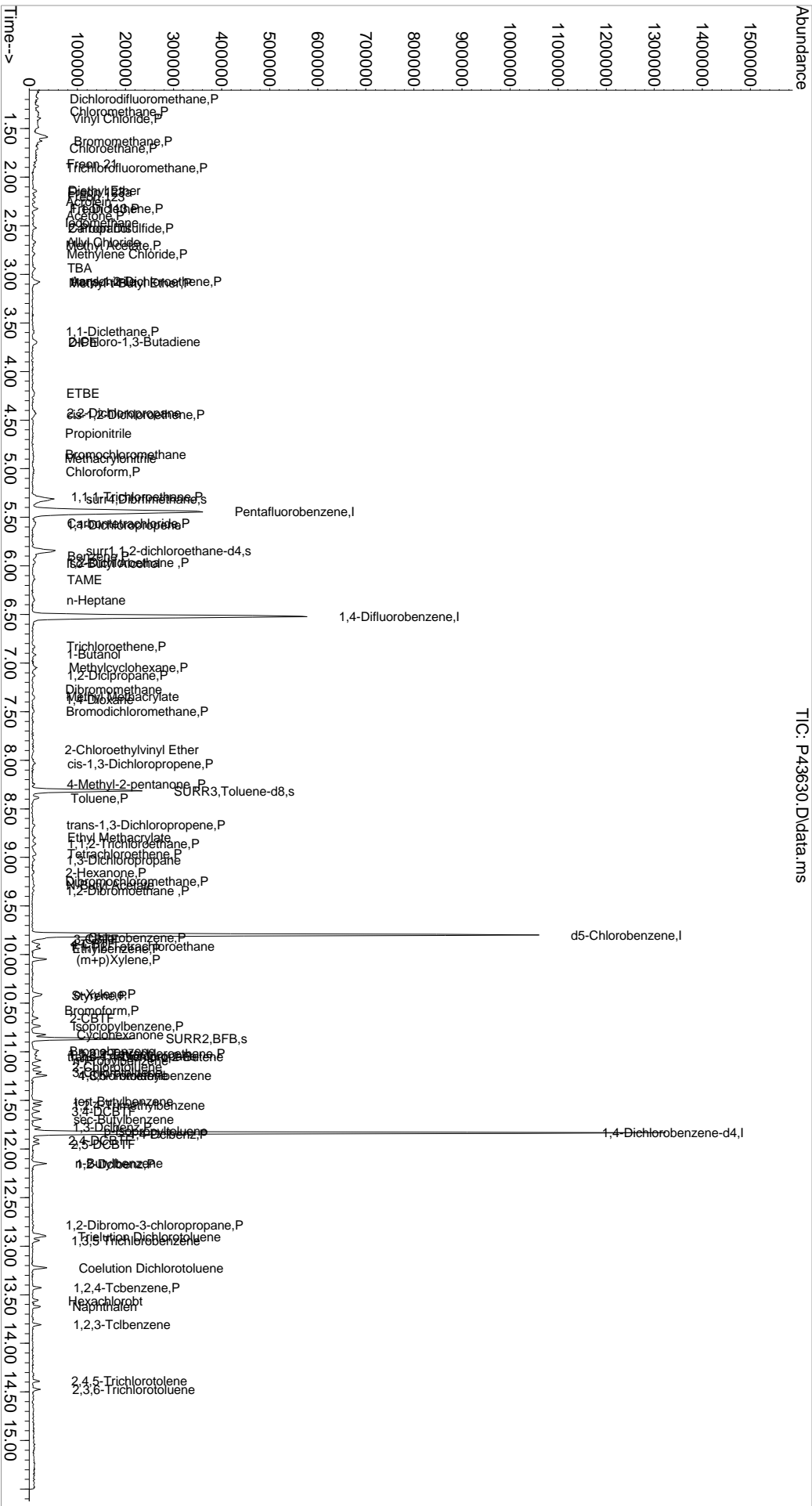
Quant Time: Feb 09 16:12:23 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
111) 1,2-Dibromo-3-chloropr...	12.784	157	679	0.47	ppb #	66
112) Trielution Dichlorotol...	12.900	125	12186	1.51	ppb #	88
113) 1,3,5 Trichlorobenzene	12.943	180	3913	0.60	ppb #	87
114) Coelution Dichlorotoluene	13.223	125	9891	1.11	ppb	94
115) 1,2,4-Tcbenzene	13.430	180	3670	0.53	ppb	93
116) Hexachlorobt	13.565	225	1925	0.64	ppb	93
117) Naphthalen	13.619	128	9476	0.47	ppb	89
118) 1,2,3-Tclbenzene	13.808	180	3838	0.56	ppb	95
119) 2,4,5-Trichlorotolene	14.388	159	3026	0.61	ppb	97
120) 2,3,6-Trichlorotoluene	14.473	159	2713m	0.57	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st *R* 02/09/21
2nd *FU*
Data Path : I:\ACQDATA\msvoa12\Data\020921\
Data File : P43630.D
Acq On : 9 Feb 2021 12:11 pm
Operator : K.Ruest
Sample : 0.5ppb
Disc : WATER ICAL
PALS Vial : 2 Sample Multiplier: 1
Inst : MSVOA-12

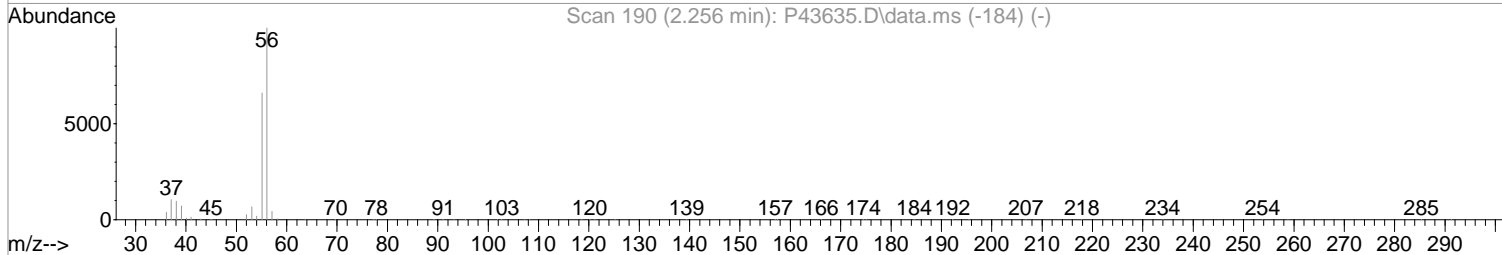
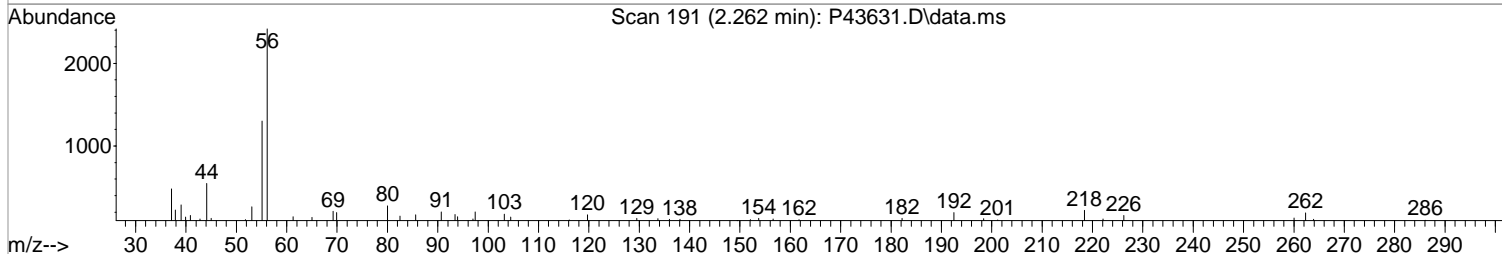
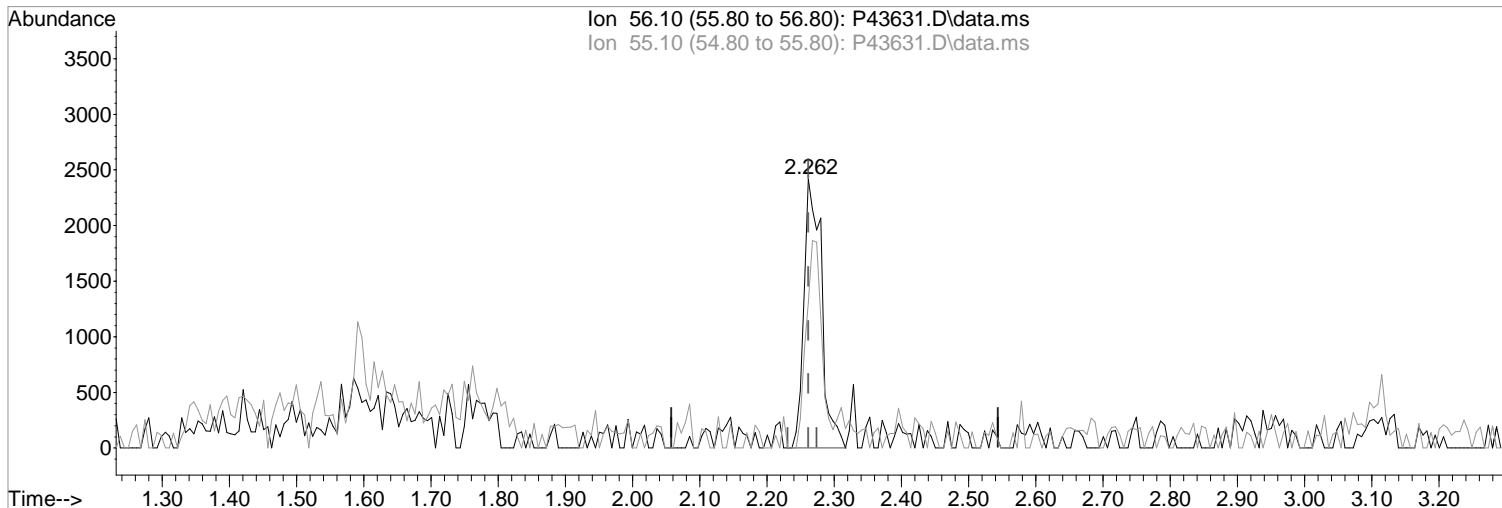
Quant Time: Feb 09 16:12:23 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43631.D\data.ms

(12) Acrolein
2.262min (-0.000) 5.54 ppb m
response 4400

Manual Integration:

After
Split Peak

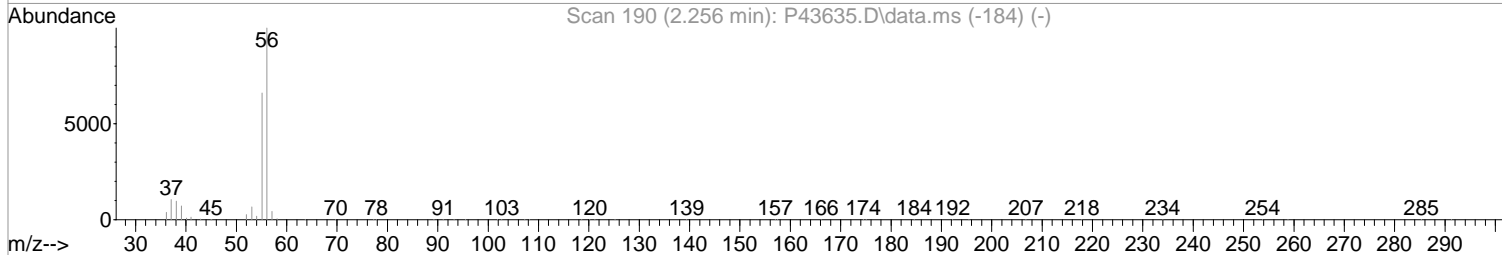
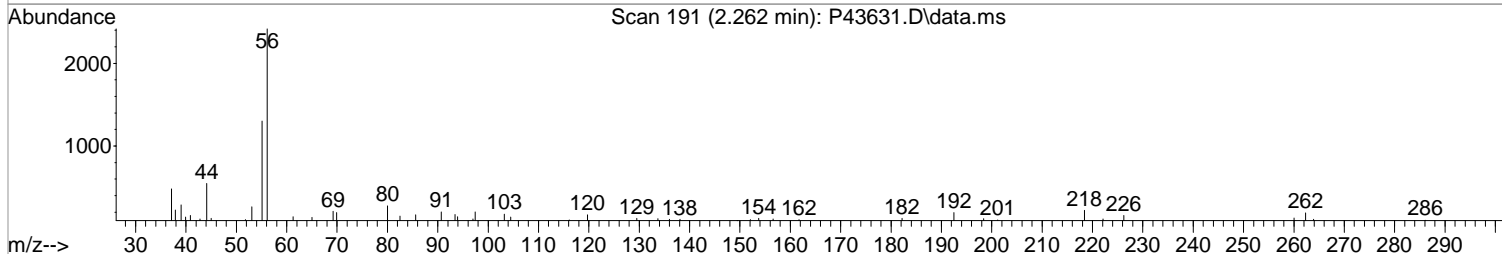
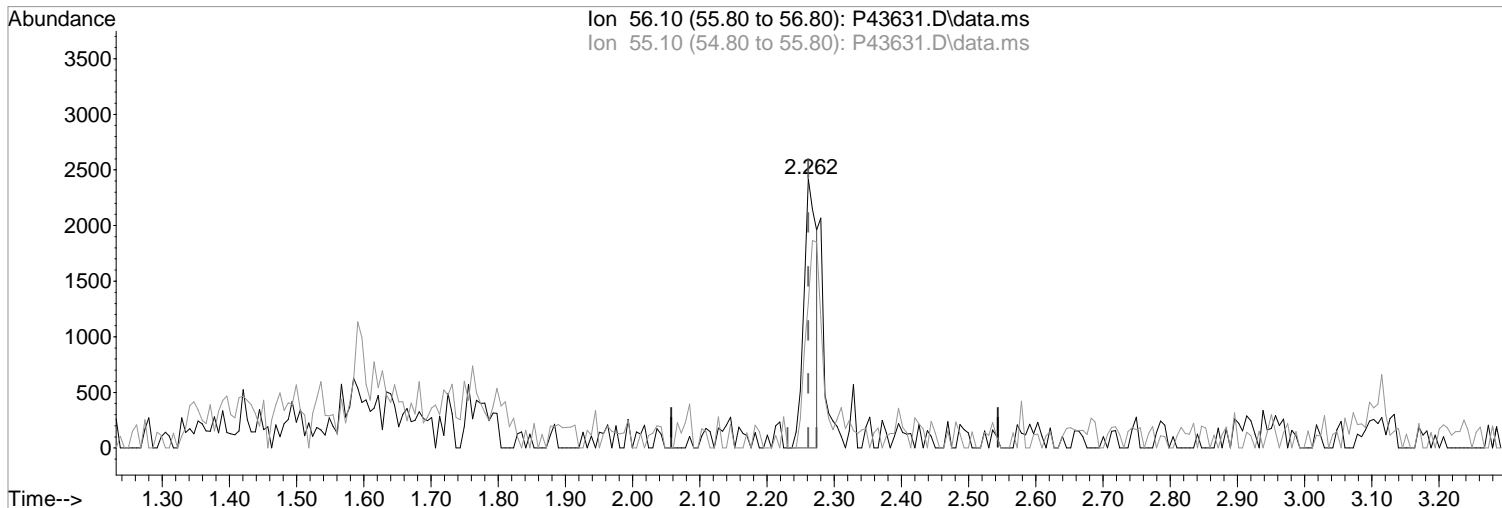
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	53.89
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43631.D\data.ms

(12) Acrolein
2.262min (-0.000) 3.97 ppb
response 3158

Manual Integration:
Before

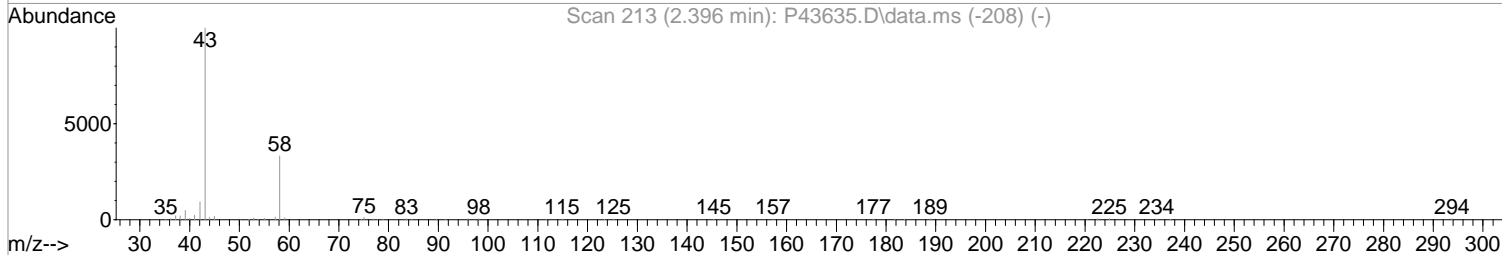
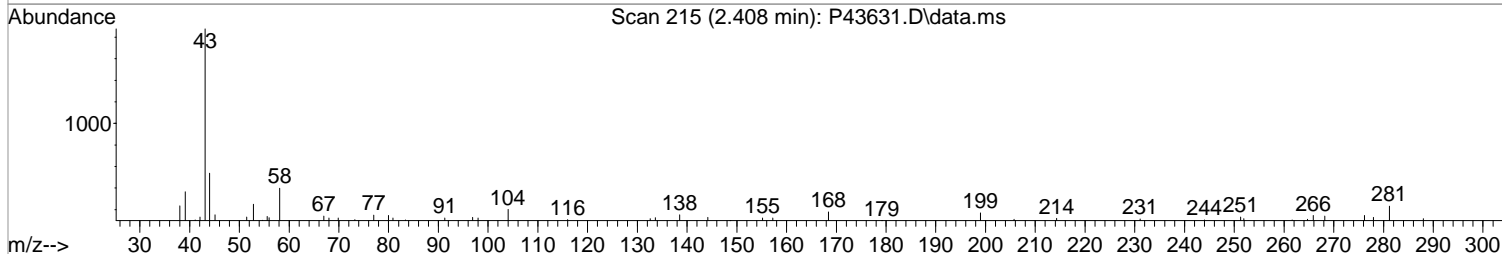
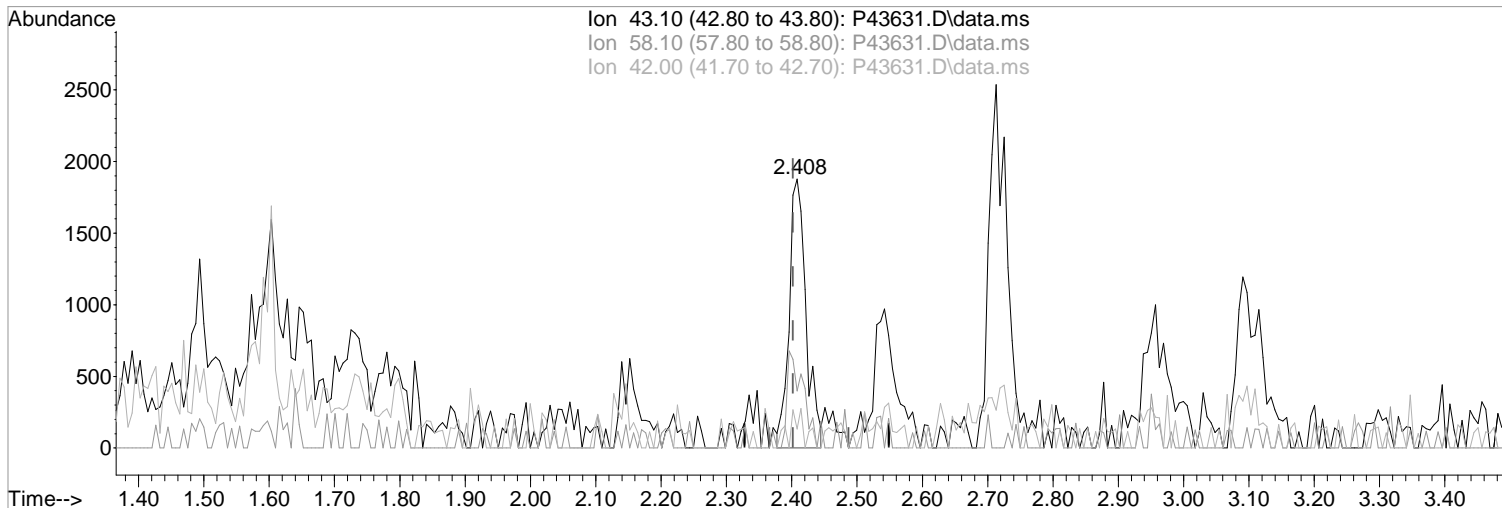
Ion	Exp%	Act%
56.10	100	100
55.10	66.60	53.89
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(15) Acetone (P)
2.408min (+0.006) 2.27 ppb m
response 3368

Manual Integration:

After

Poor integration.

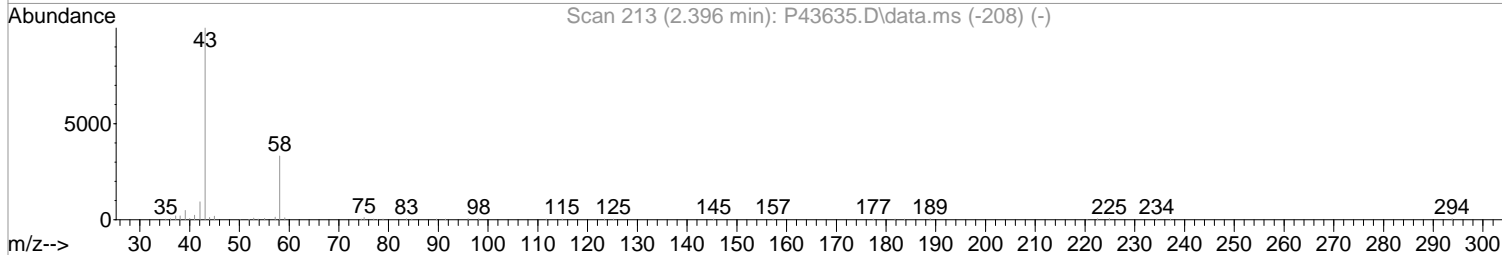
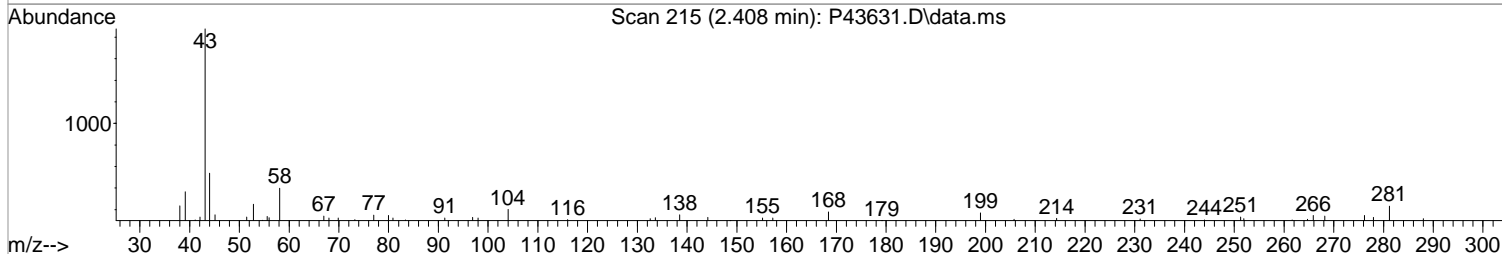
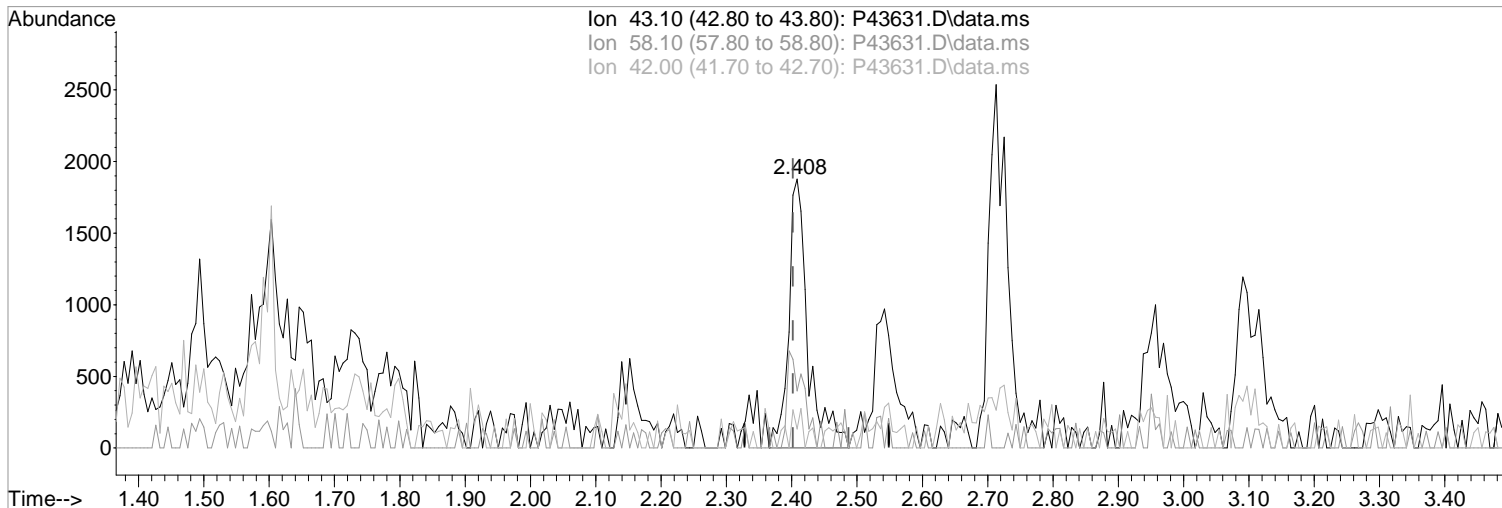
02/09/21

Ion	Exp%	Act%
43.10	100	100
58.10	32.90	21.25
42.00	9.50	7.03
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(15) Acetone (P)
2.408min (+0.006) 2.59 ppb
response 3839

Manual Integration:

Before

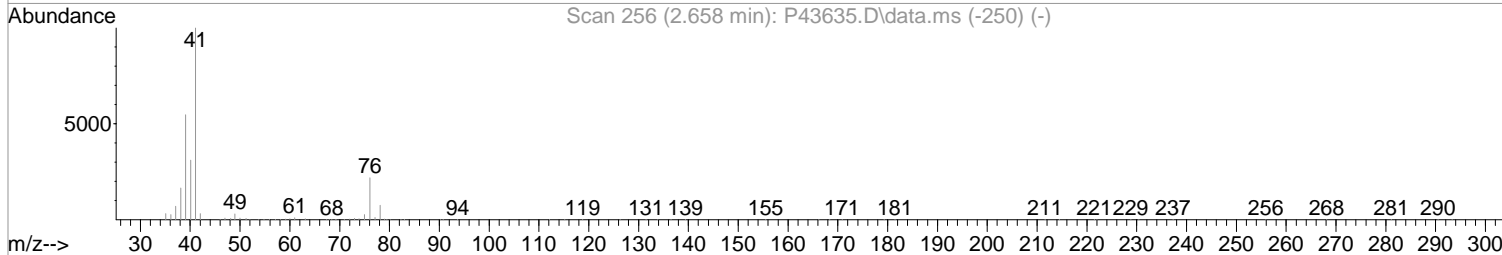
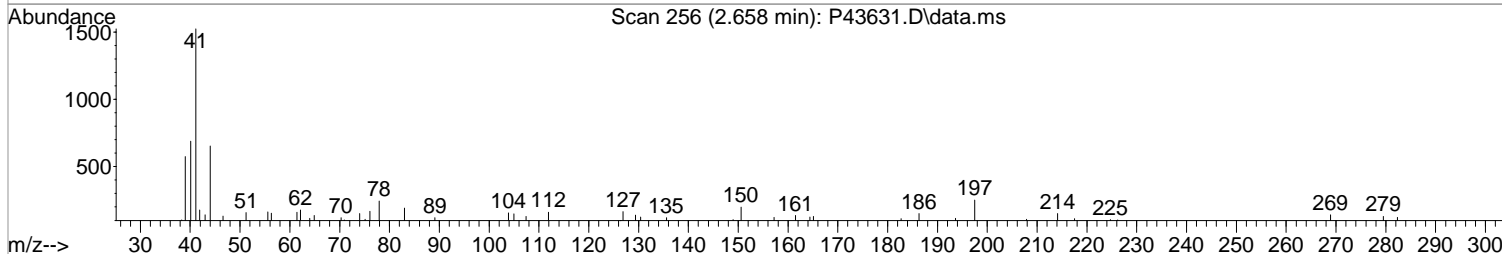
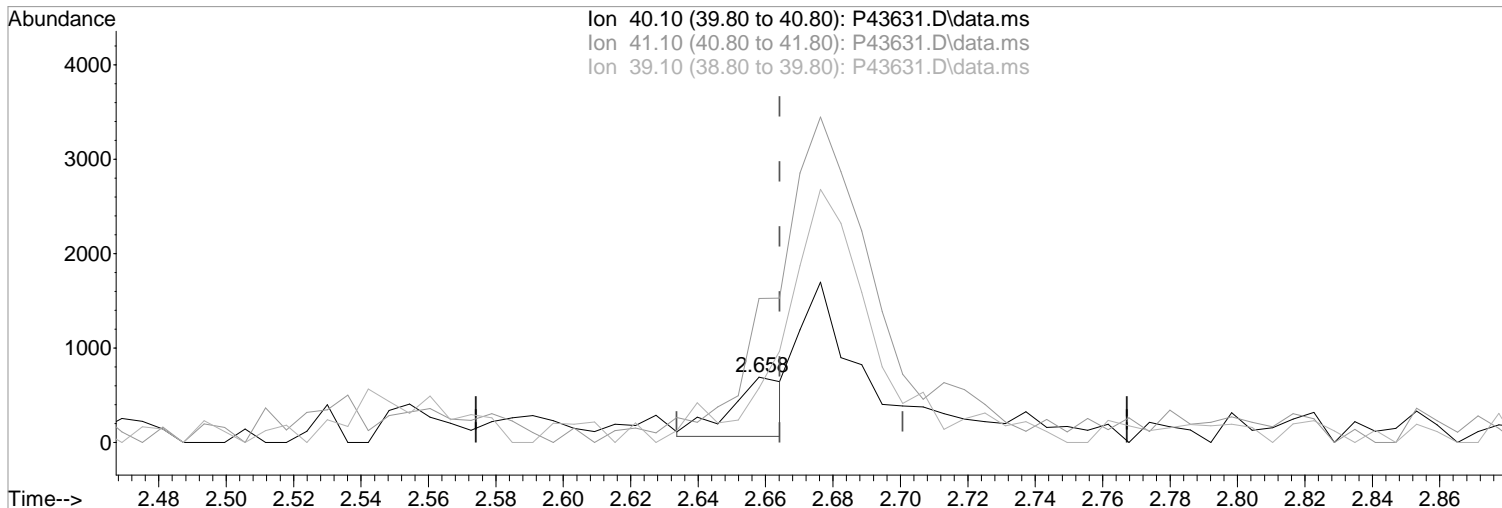
Ion	Exp%	Act%
43.10	100	100
58.10	32.90	21.25
42.00	9.50	7.03
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43631.D\data.ms

(19) Acetonitrile
2.658min (-0.006) 3.74 ppb m
response 705

Manual Integration:
After
Poor integration.

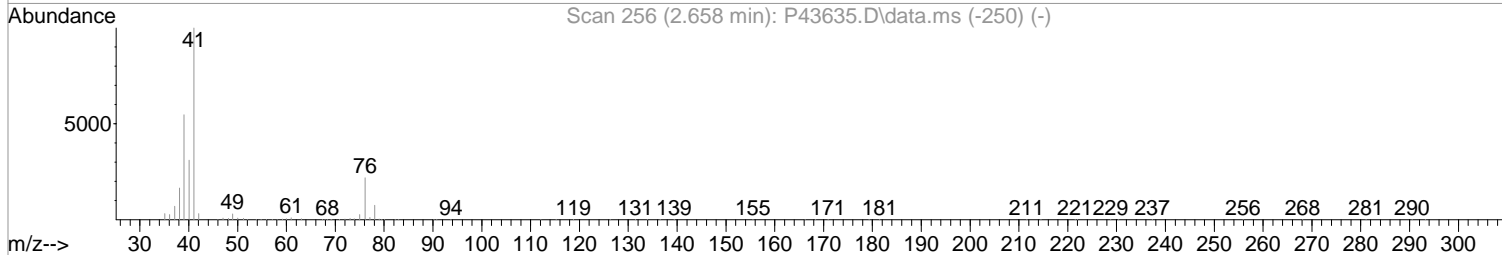
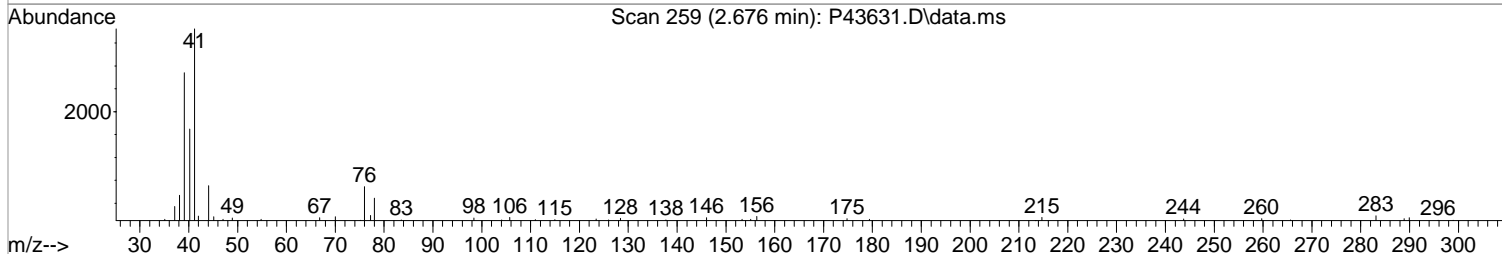
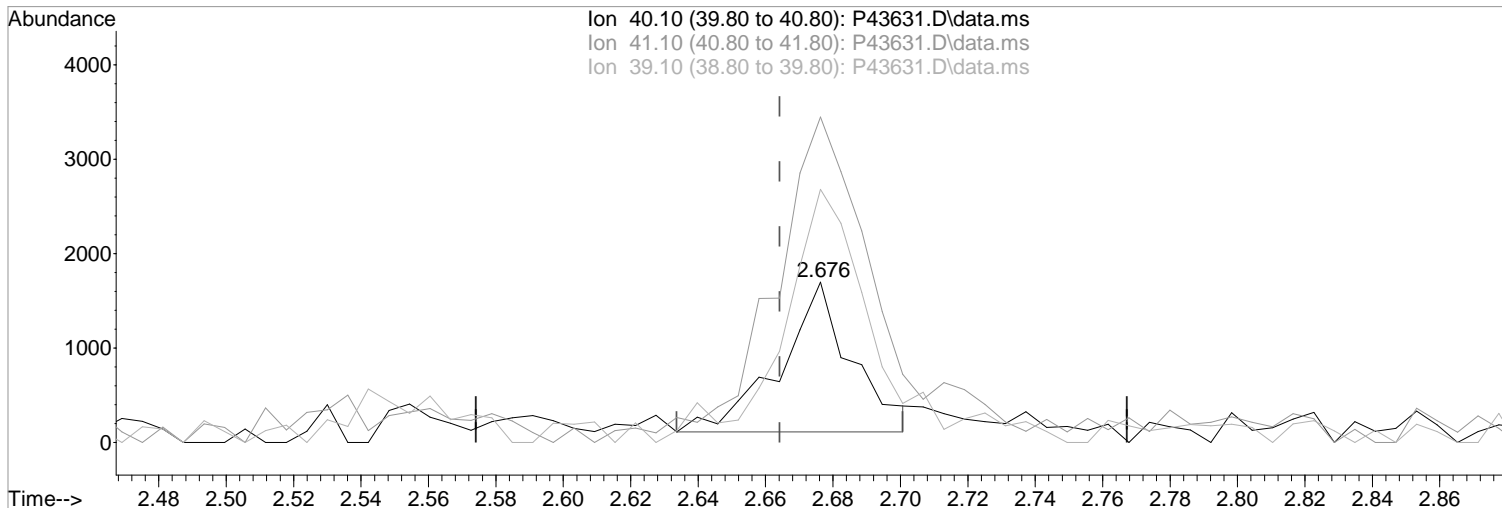
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	221.01#
39.10	175.80	83.19#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43631.D\data.ms

(19) Acetonitrile
2.676min (+0.012) 12.49 ppb
response 2351

Manual Integration:
Before

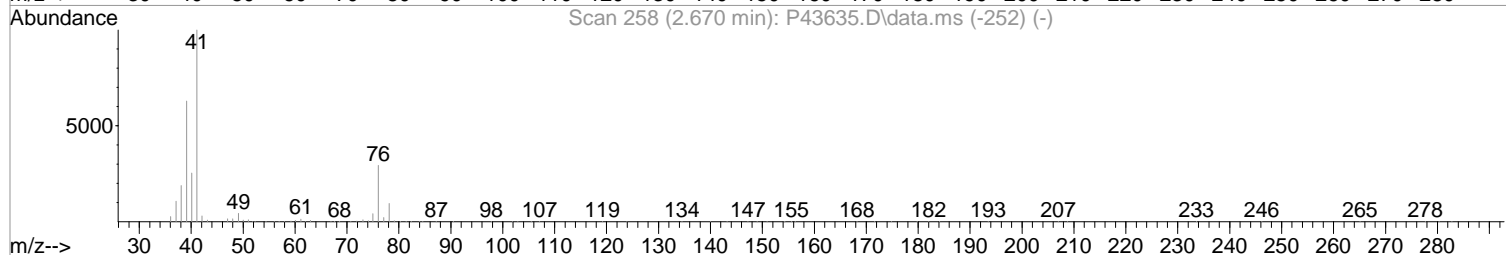
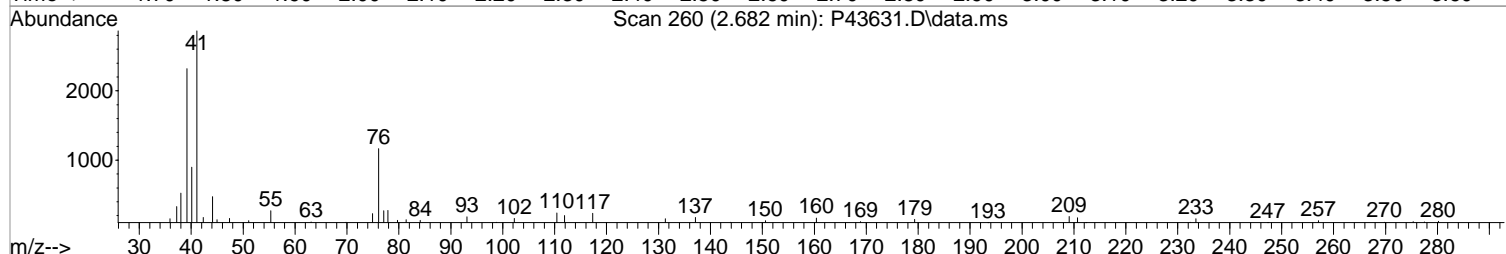
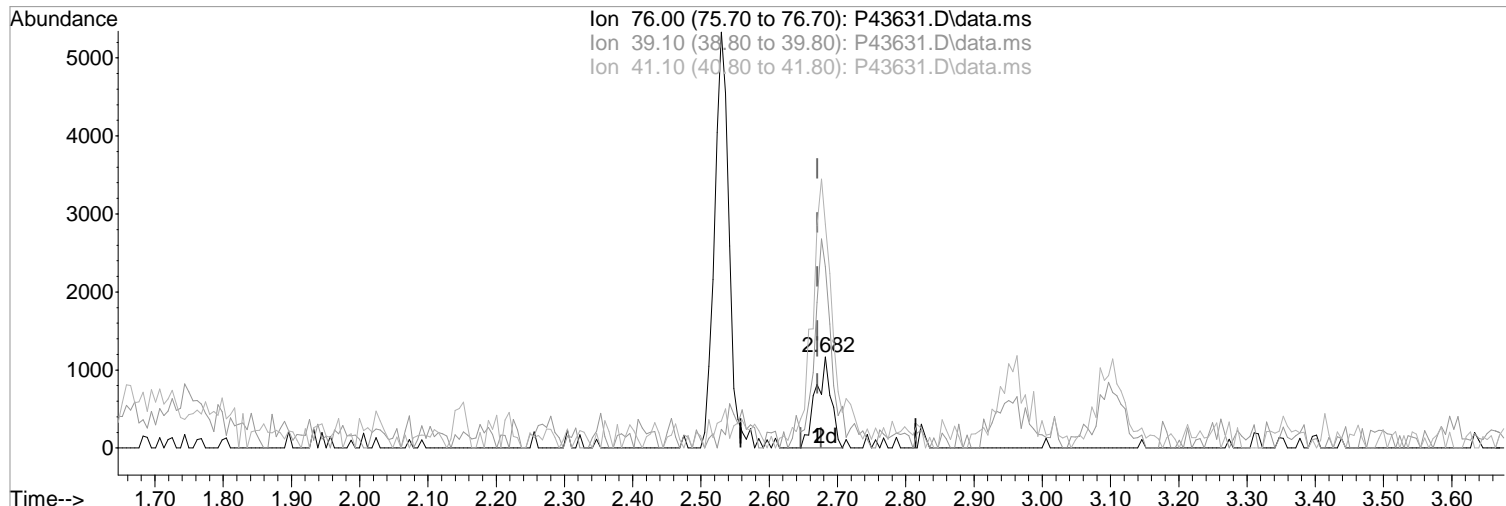
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	203.18#
39.10	175.80	158.04
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(20) Allyl Chloride

2.682min (+0.012) 1.07 ppb m

response 1823

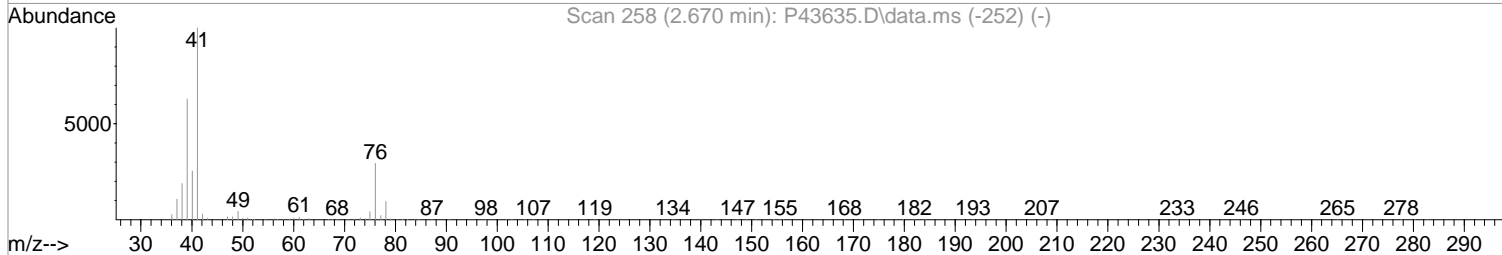
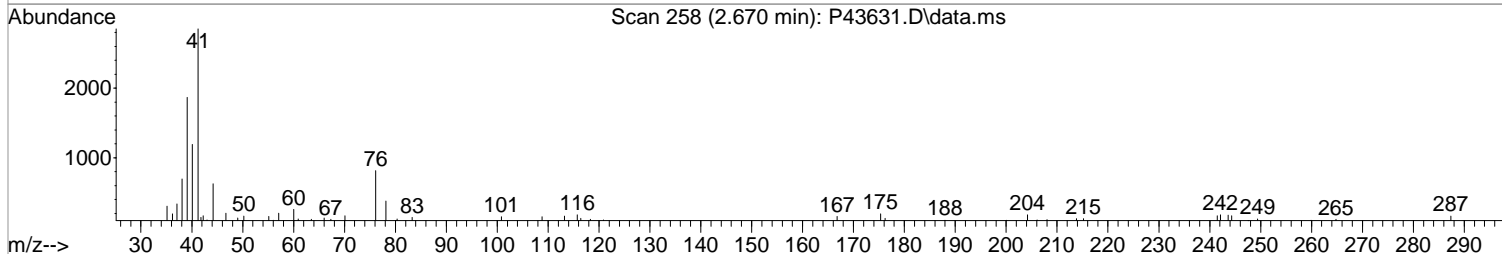
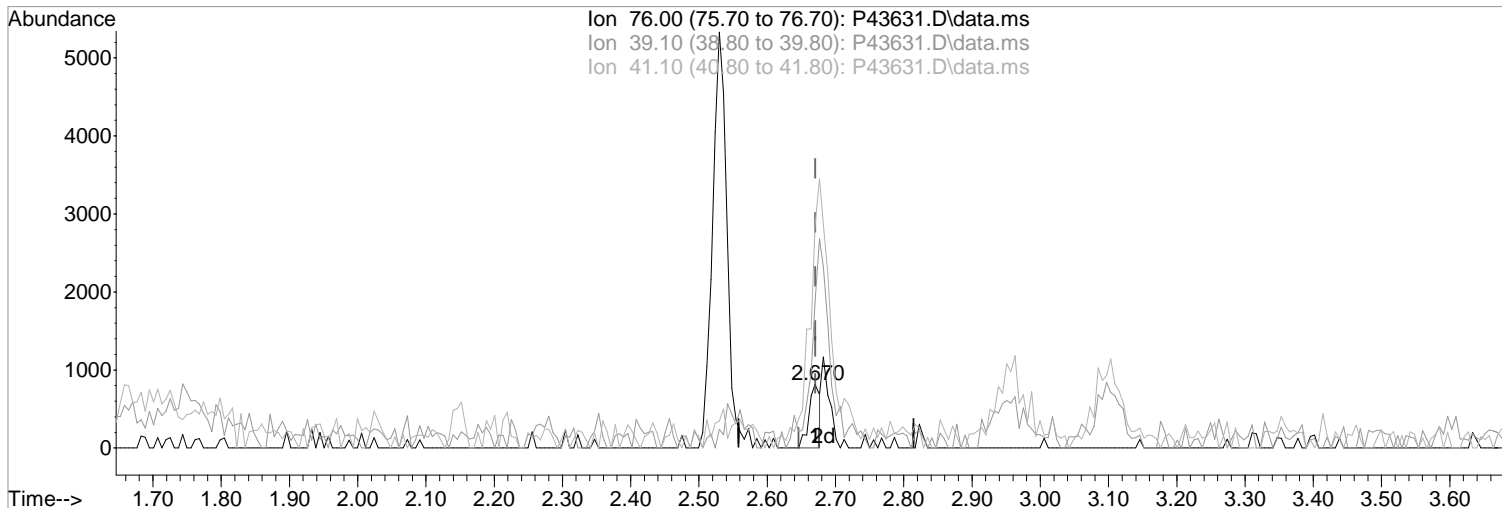
Ion	Exp%	Act%
76.00	100	100
39.10	215.10	198.80
41.10	346.30	245.46#
0.00	0.00	0.00

Manual Integration:
After
Split Peak
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43631.D\data.ms

(20) Allyl Chloride

2.670min (-0.000) 0.54 ppb

response 918

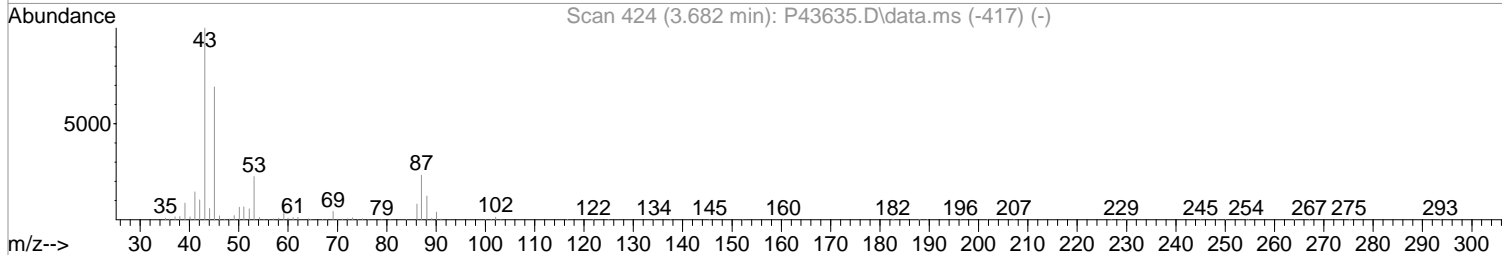
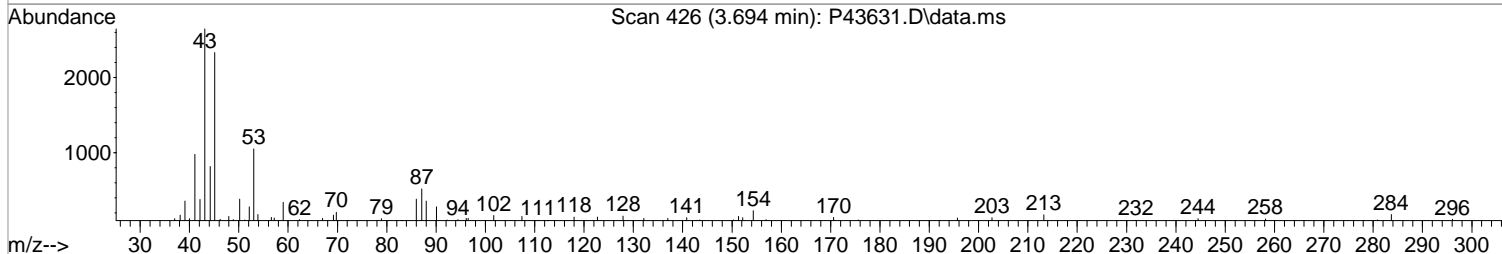
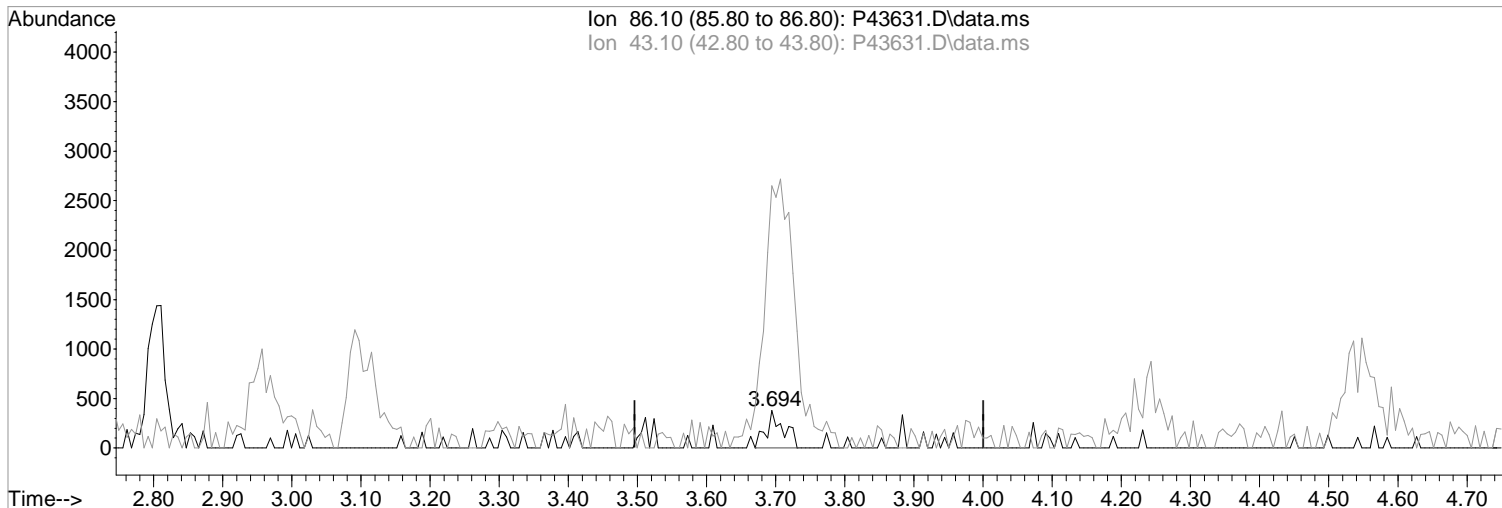
Ion	Exp%	Act%
76.00	100	100
39.10	215.10	229.73
41.10	346.30	368.30#
0.00	0.00	0.00

Manual Integration:
Before
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



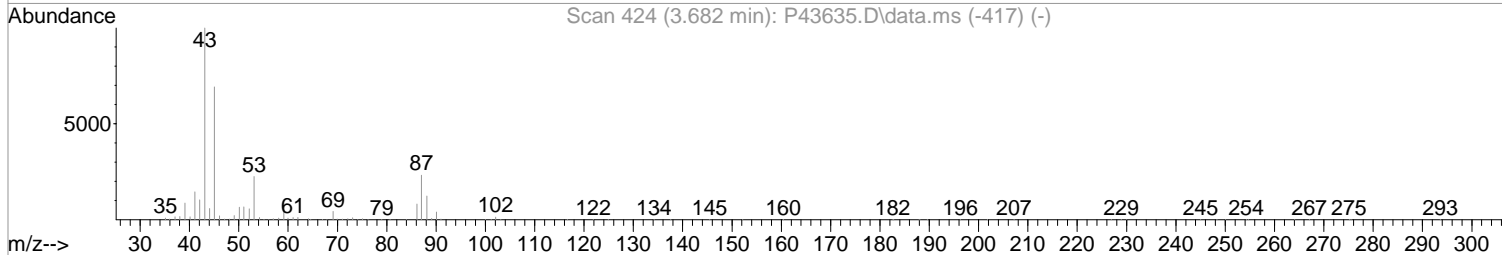
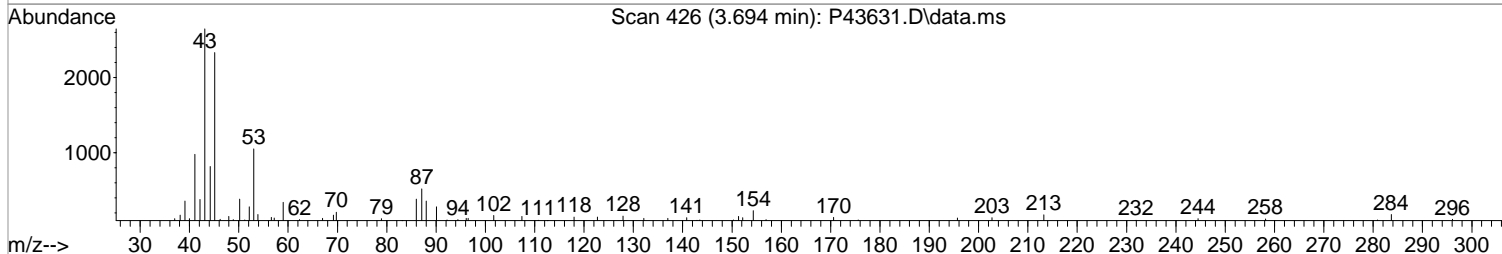
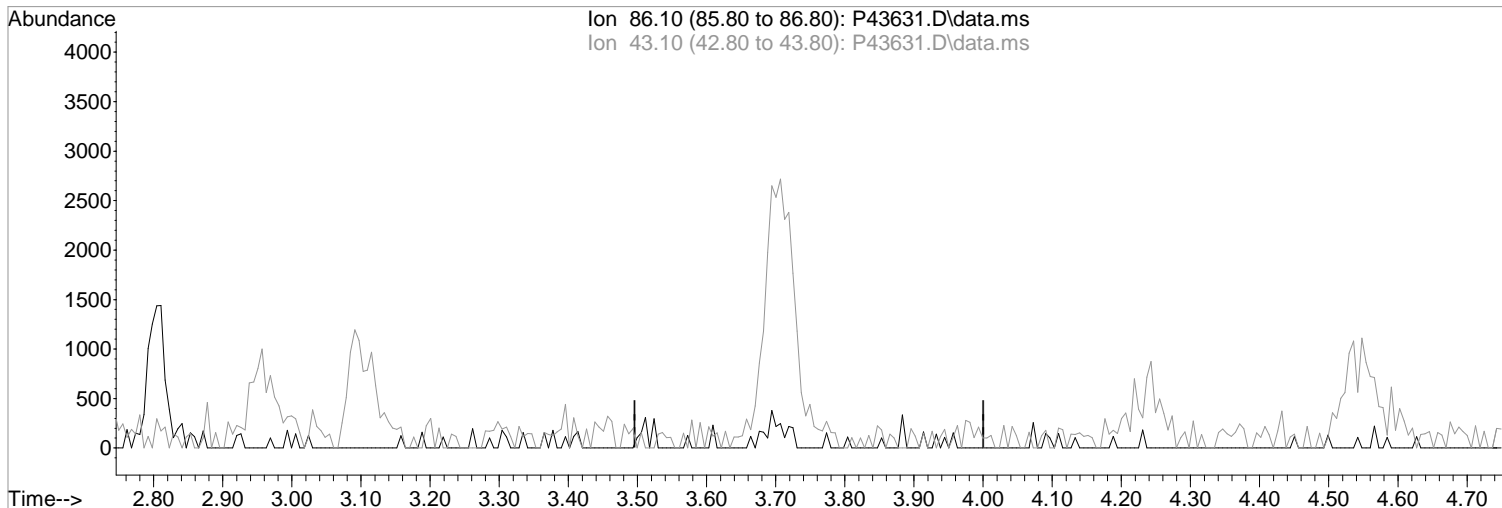
(29) Vinyl Acetate
3.694min (-0.000) 1.01 ppb m
response 659
Ion Exp% Act%
86.10 100 100
43.10 1236.80 695.28#
0.00 0.00 0.00
0.00 0.00 0.00

Manual Integration:
After
Peak not found.
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43631.D\data.ms

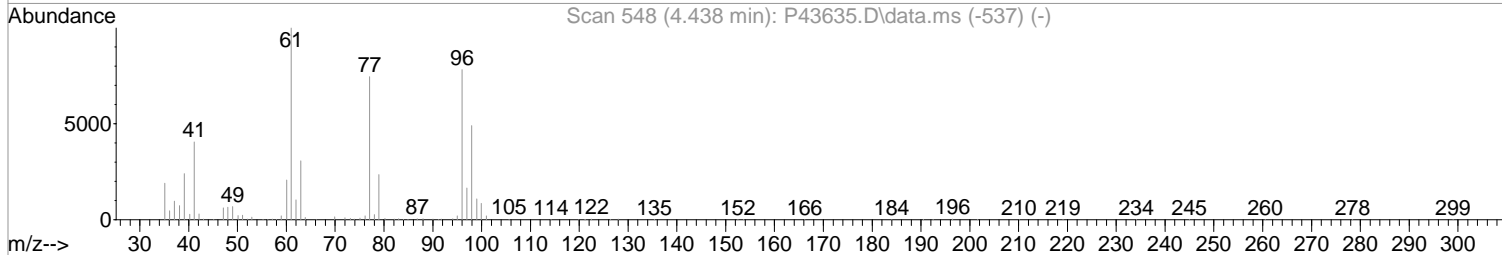
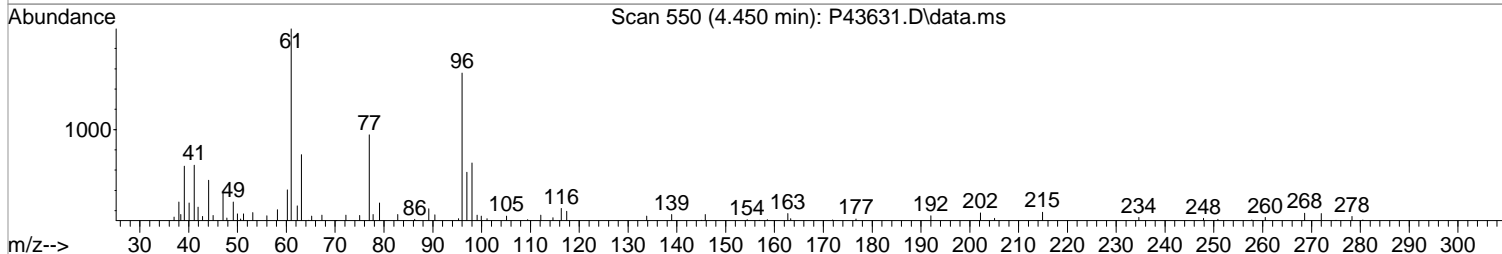
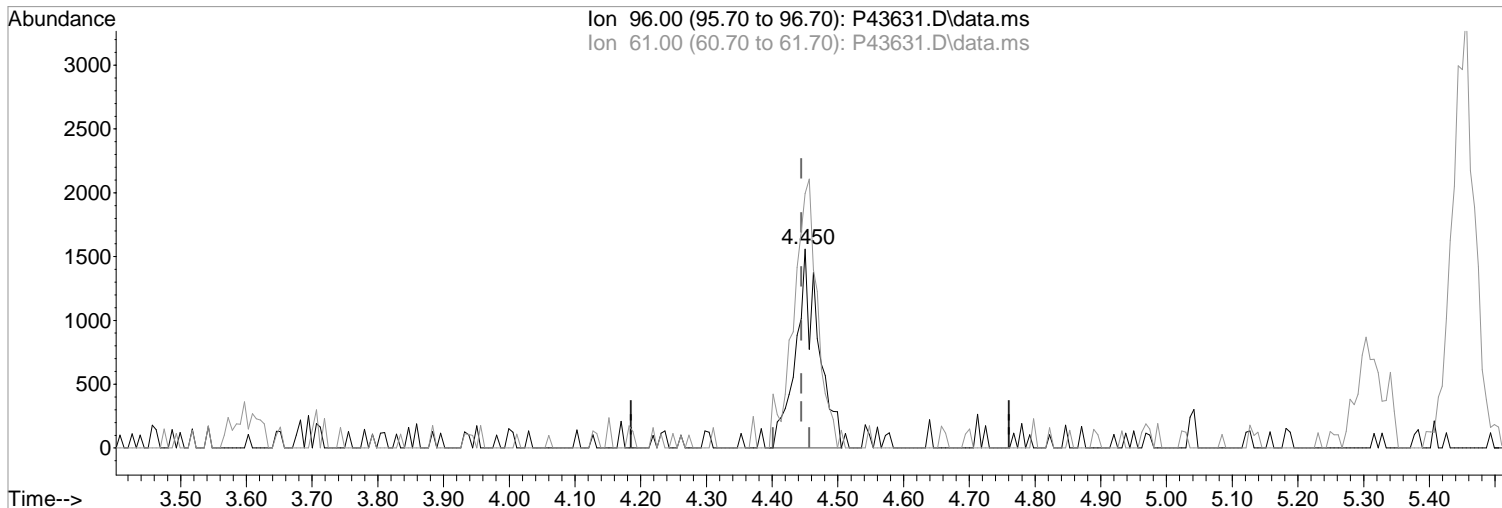
(29) Vinyl Acetate
3.694min (-3.694) 0.00 ppb
response 0
Ion Exp% Act%
86.10 100 0.00
43.10 1236.80 0.00#
0.00 0.00 0.00
0.00 0.00 0.00

Manual Integration:
Before
02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43631.D
 Acq On : 9 Feb 2021 12:33 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration



TIC: P43631.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.450min (+0.006) 1.05 ppb m
 response 3763

Ion	Exp%	Act%
96.00	100	100
61.00	128.10	127.97
0.00	0.00	0.00
0.00	0.00	0.00

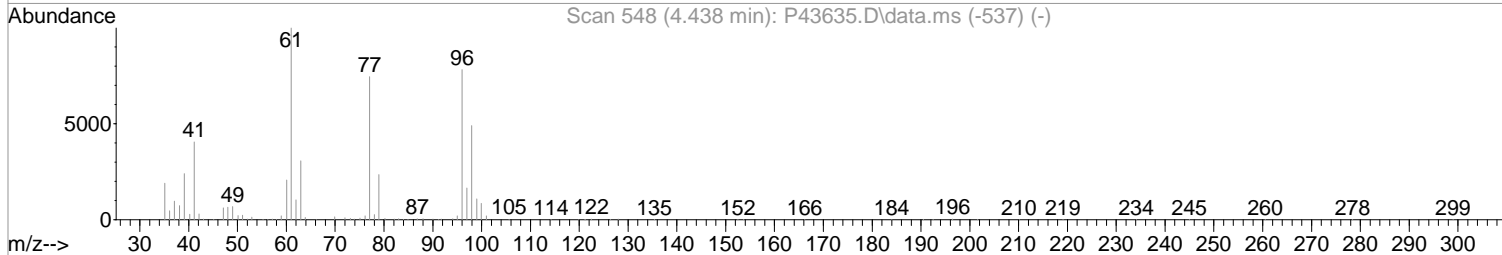
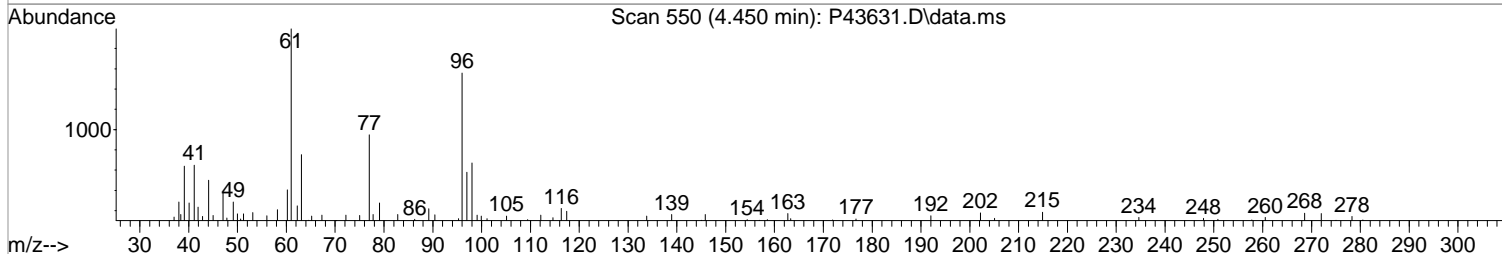
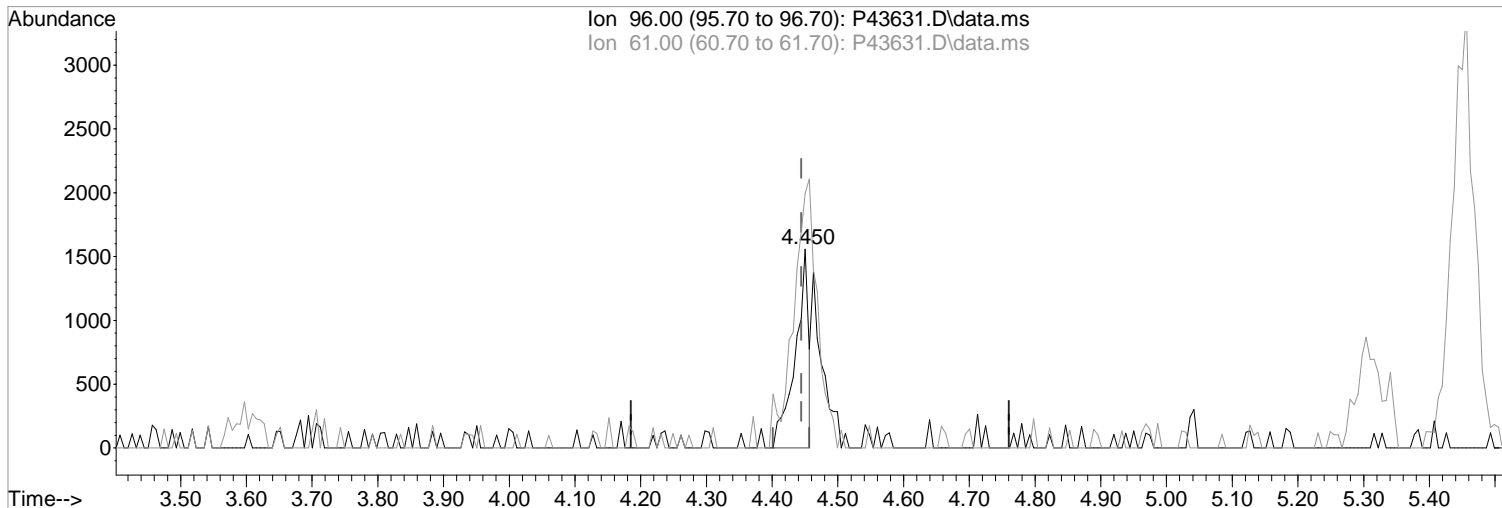
Manual Integration:

After
 Split Peak
 02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.450min (+0.006) 0.61 ppb

response 2179

Ion	Exp%	Act%
96.00	100	100
61.00	128.10	127.97
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

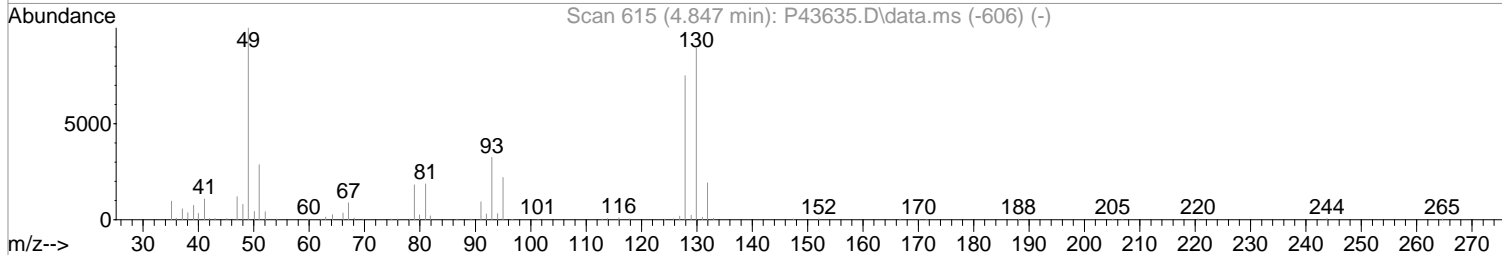
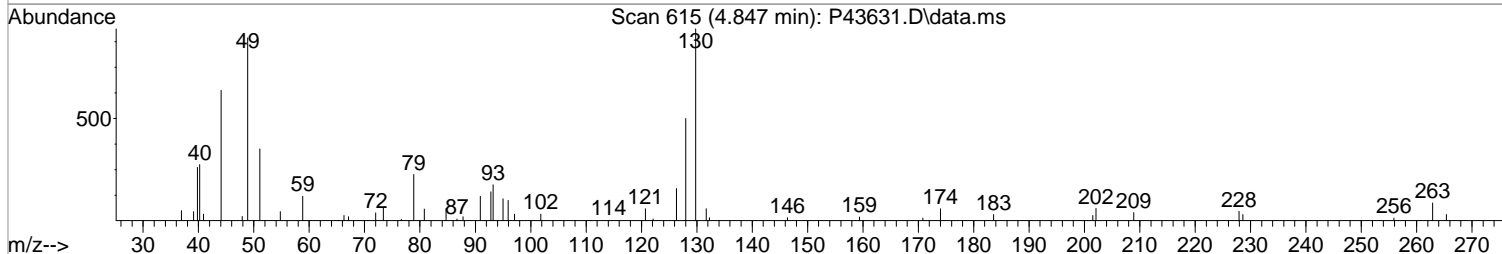
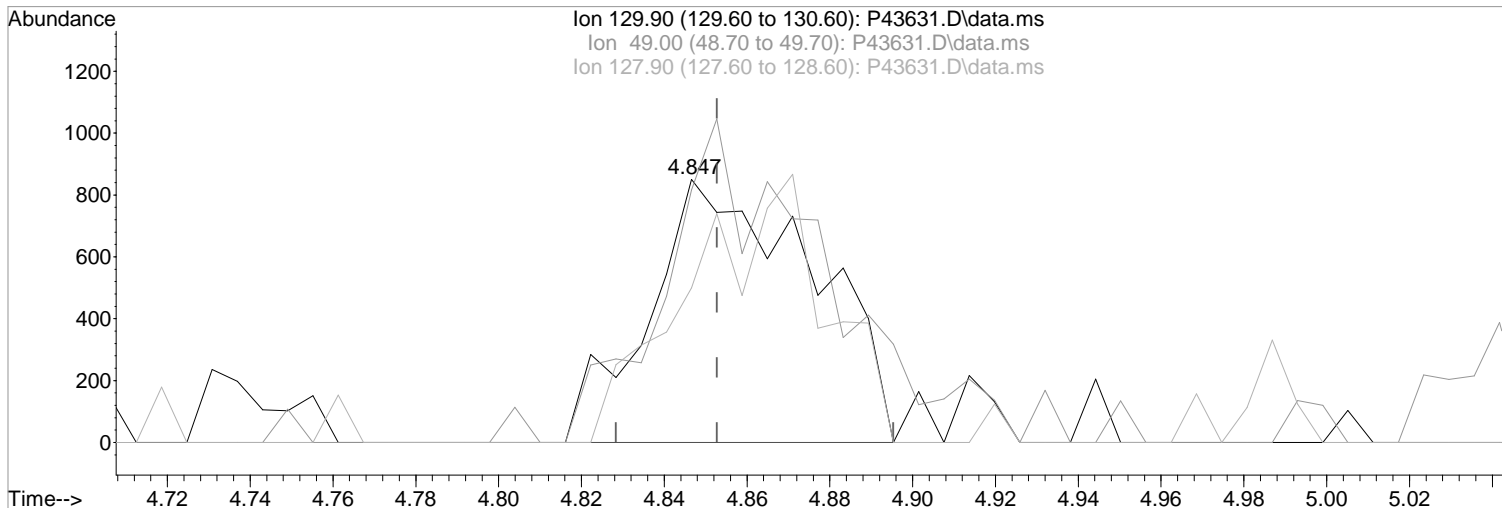
Before

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(37) Bromochloromethane

4.847min (-0.006) 1.01 ppb m

response 2364

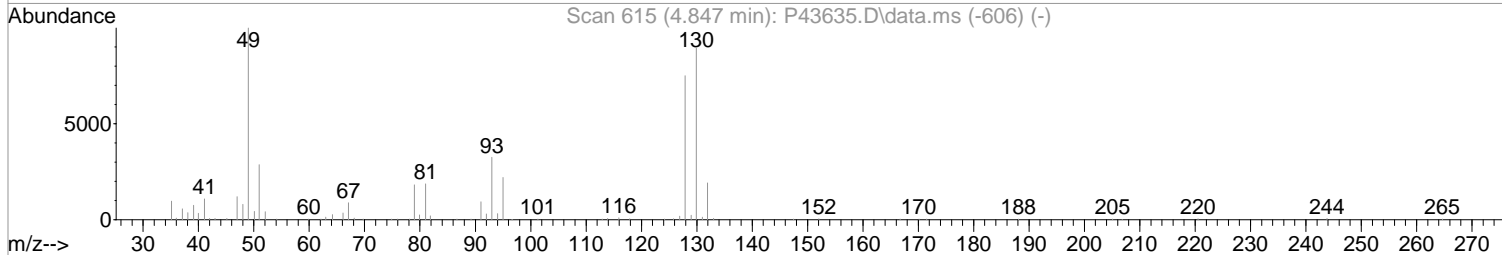
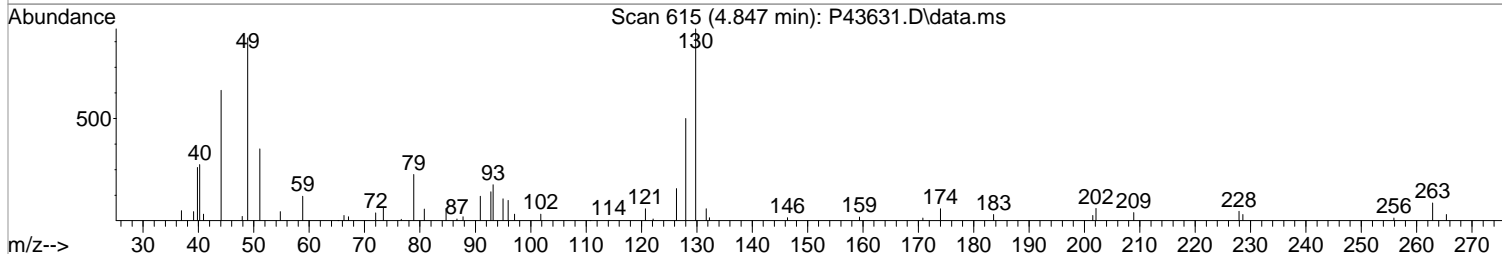
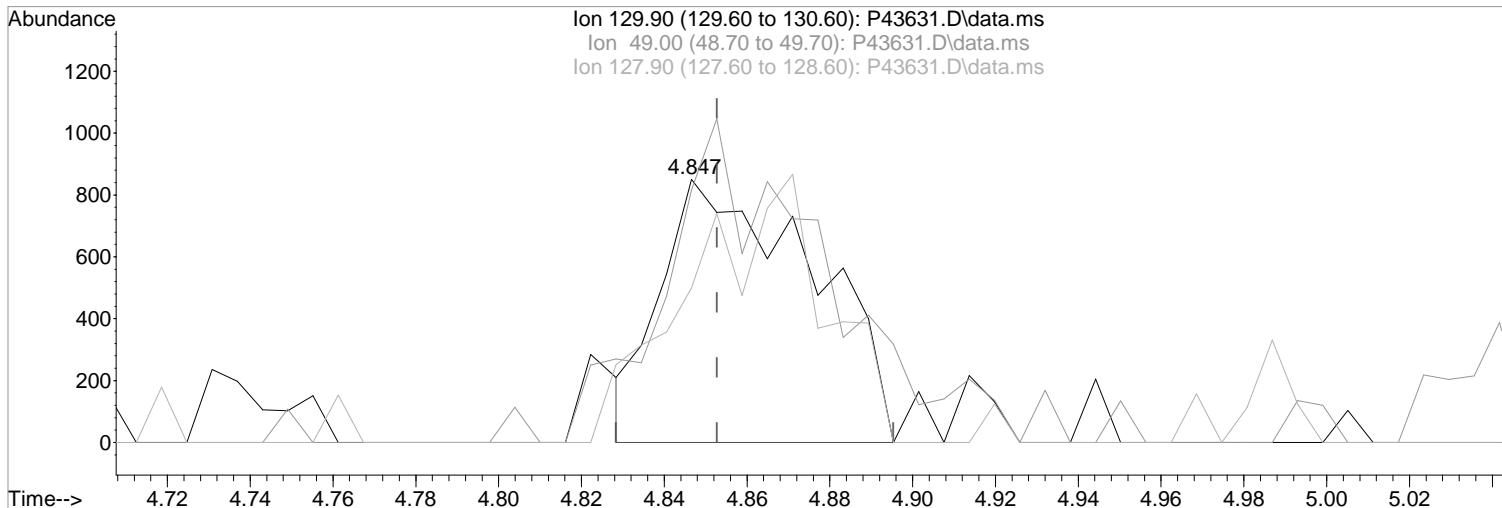
Ion	Exp%	Act%
129.90	100	100
49.00	112.30	95.89
127.90	83.90	58.75#
0.00	0.00	0.00

Manual Integration:
After
Poor integration.
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43631.D\data.ms

(37) Bromochloromethane
4.847min (-0.006) 0.94 ppb
response 2182

Manual Integration:
Before

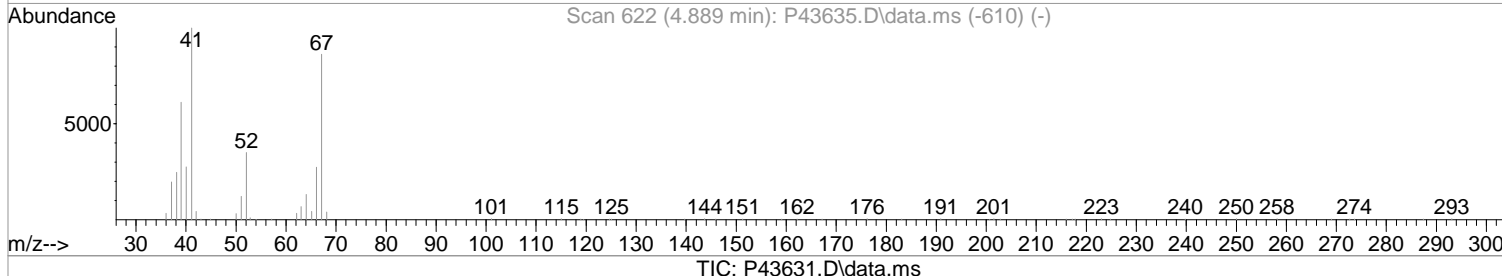
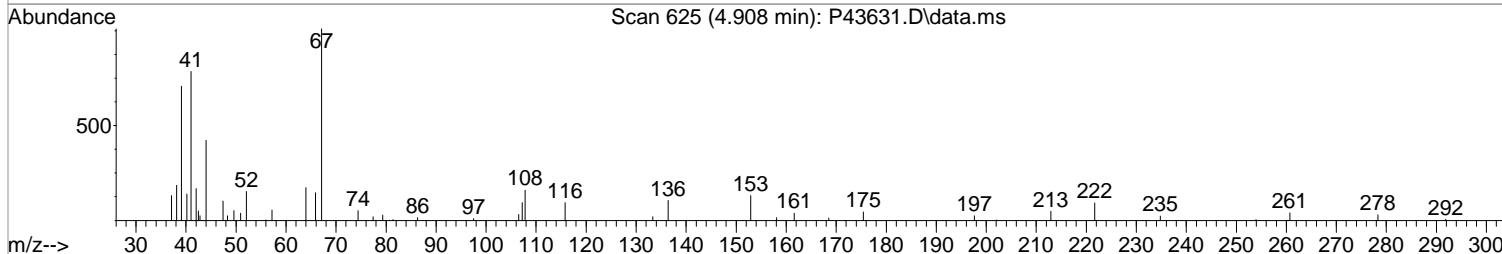
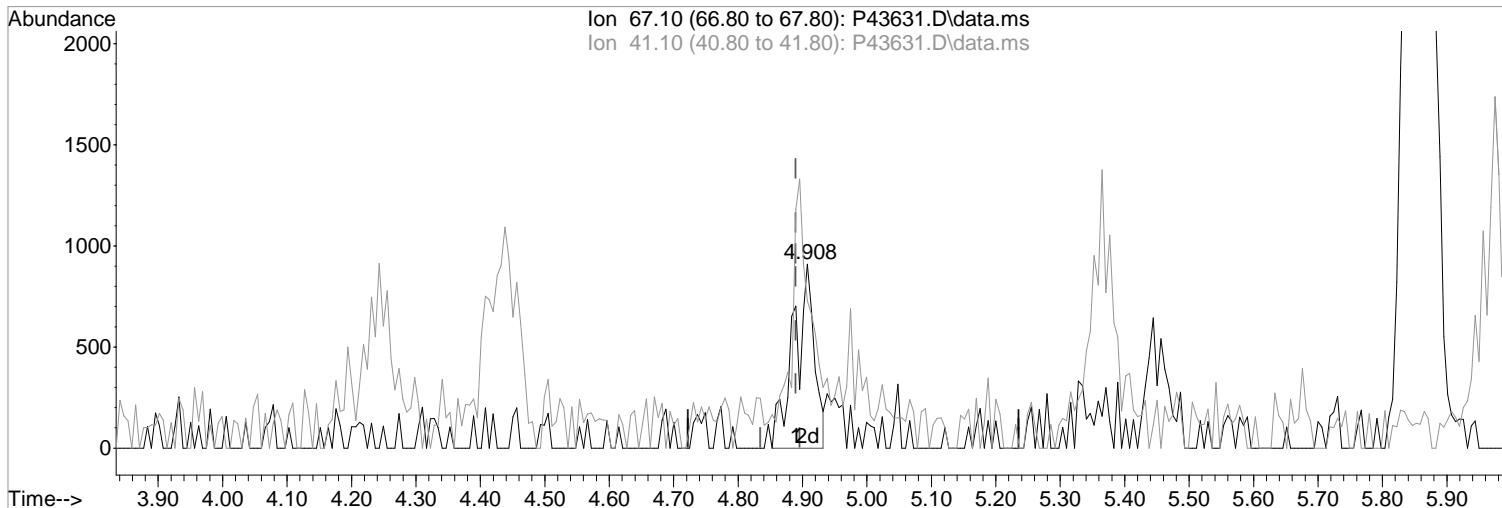
Ion	Exp%	Act%
129.90	100	100
49.00	112.30	95.89
127.90	83.90	58.75#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(38) Methacrylonitrile

4.908min (+0.018) 1.07 ppb m

response 2030

Ion	Exp%	Act%
67.10	100	100
41.10	116.90	80.20#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

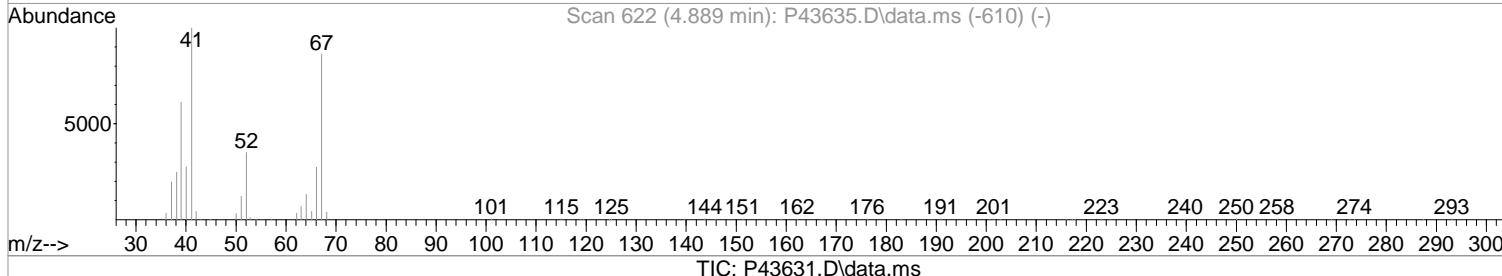
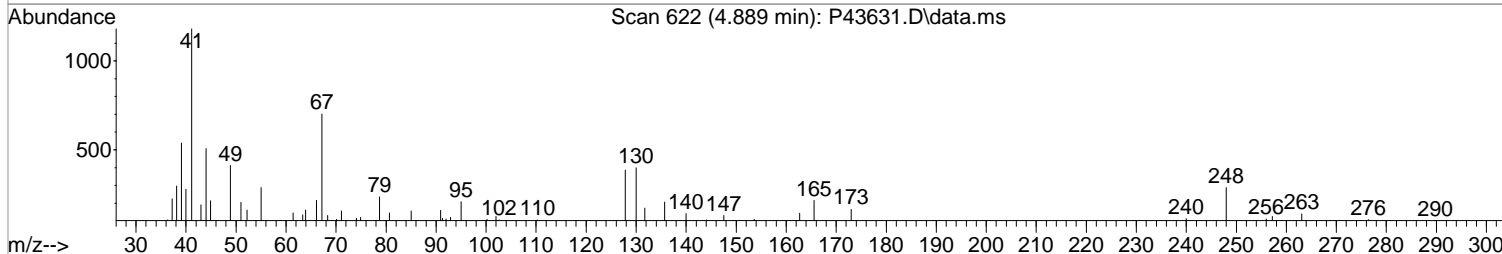
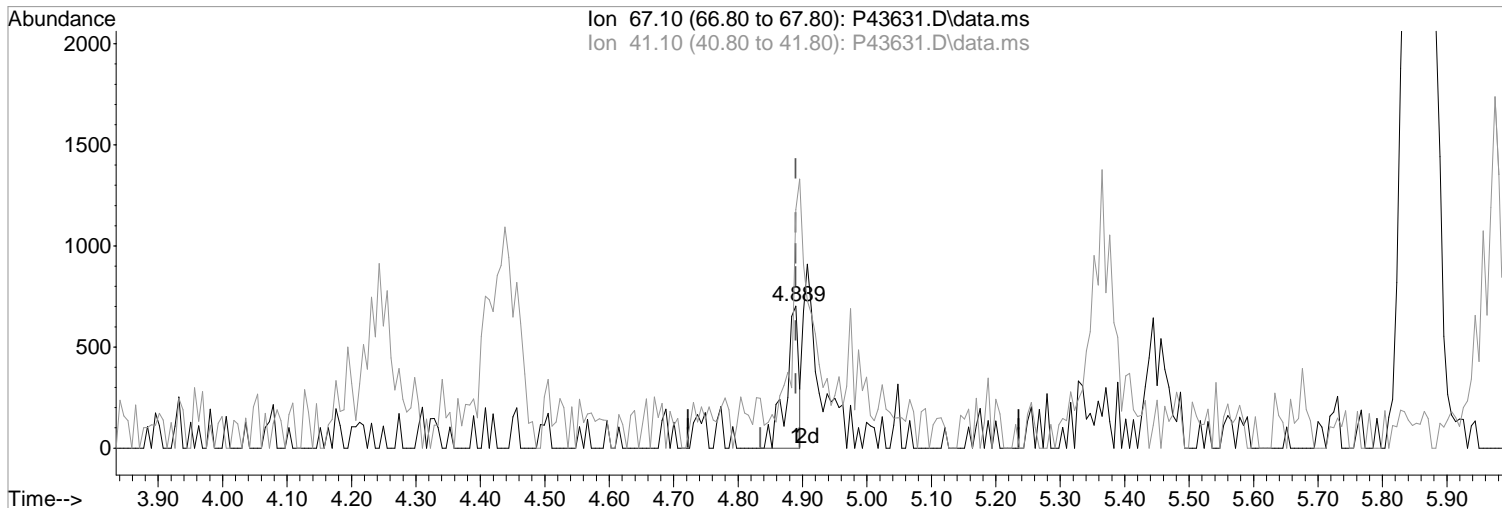
Poor integration.

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(38) Methacrylonitrile

4.889min (-0.000) 0.49 ppb

response 942

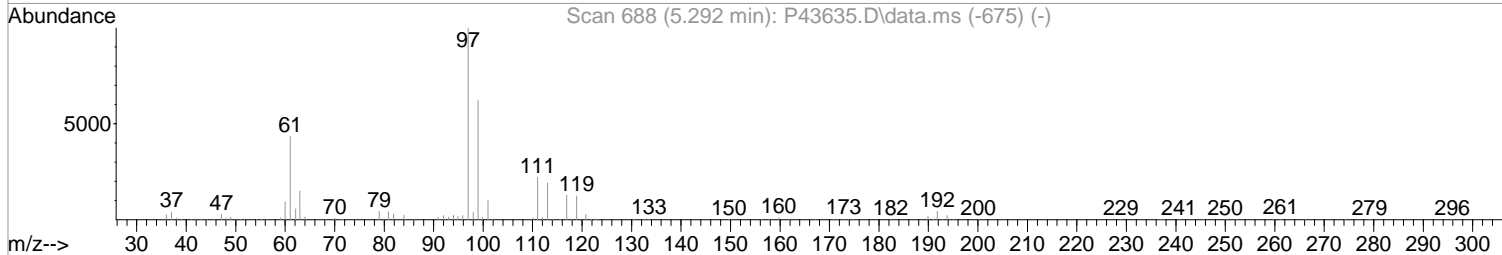
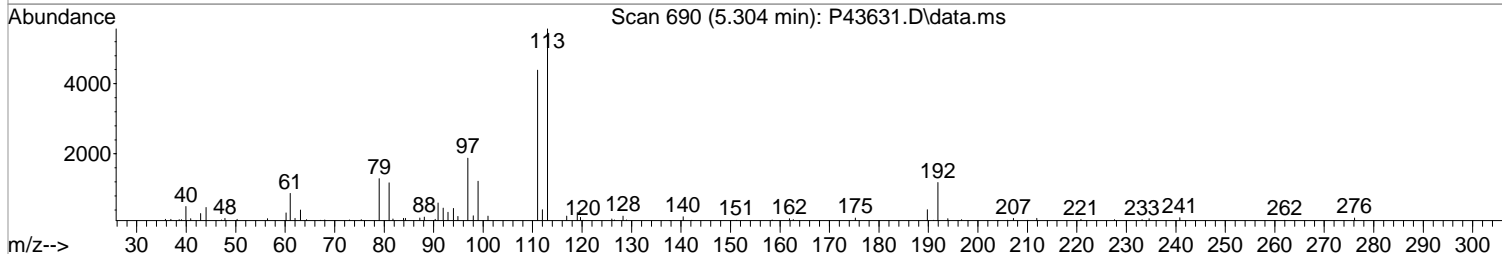
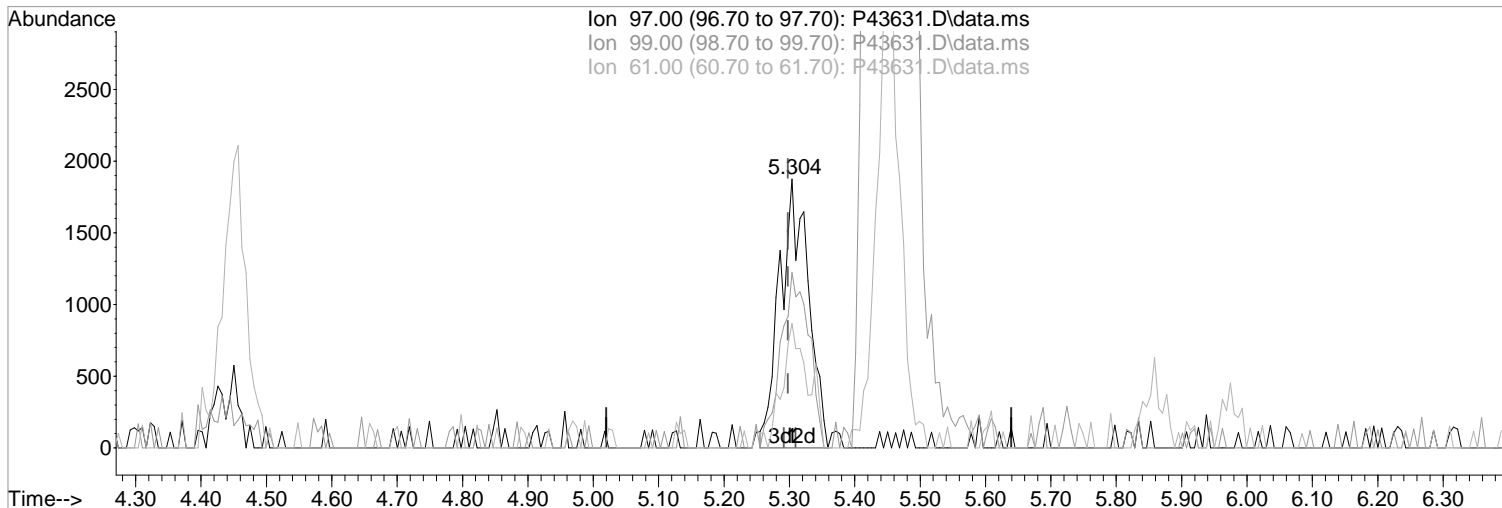
Ion	Exp%	Act%
67.10	100	100
41.10	116.90	168.23#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:
Before
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43631.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.304min (+0.006) 1.05 ppb m

response 5680

Ion	Exp%	Act%
97.00	100	100
99.00	62.10	65.17
61.00	43.30	46.29
0.00	0.00	0.00

Manual Integration:

After

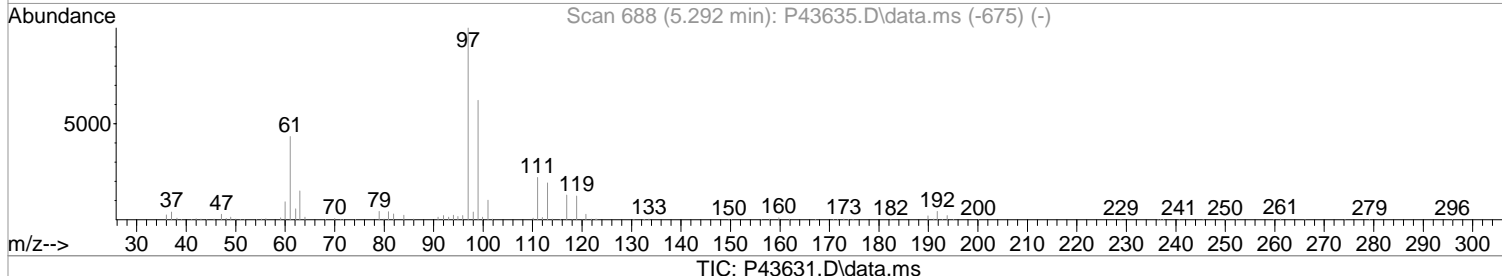
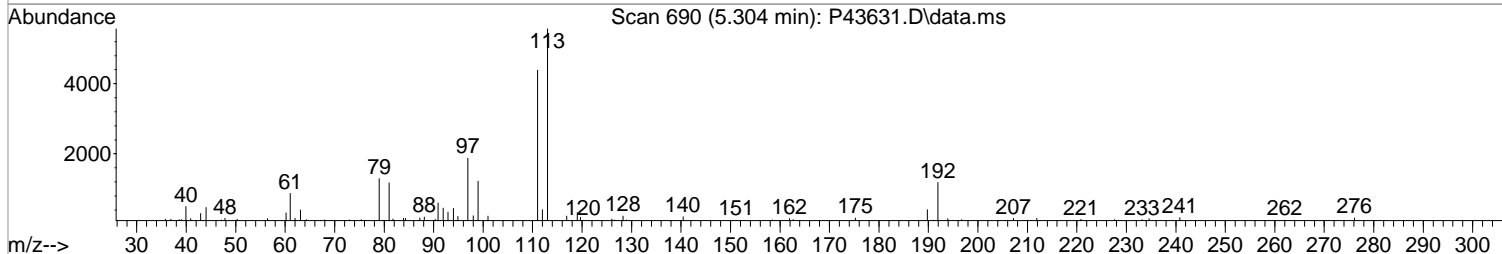
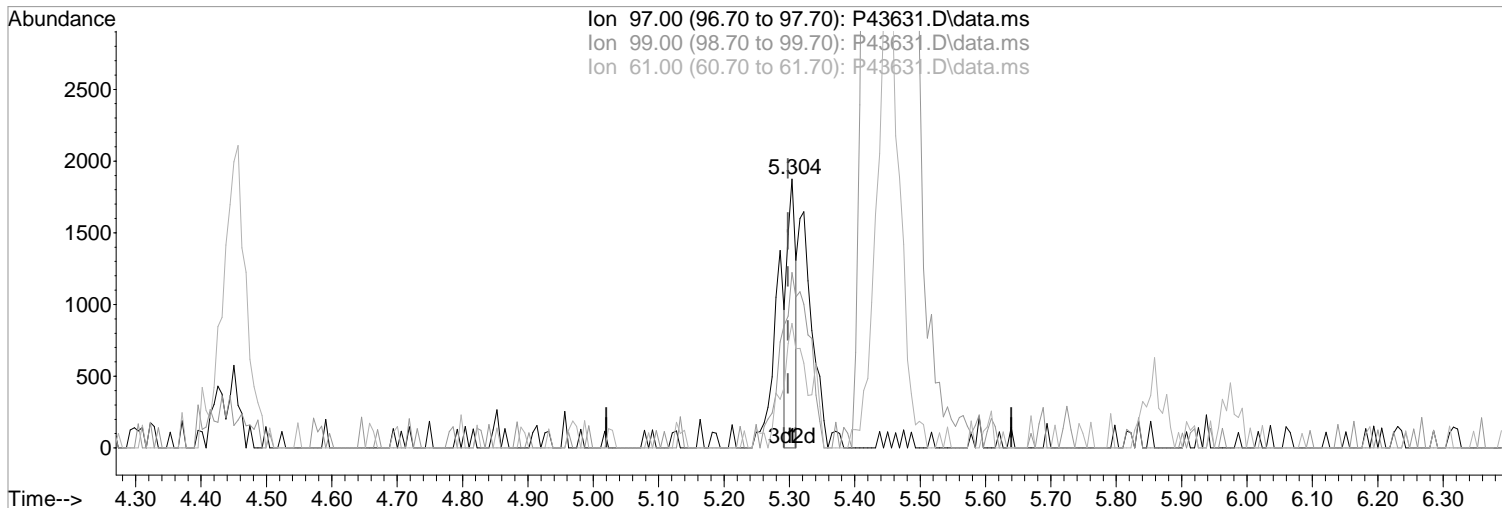
Split Peak

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

Manual Integration:

5.304min (+0.006) 0.31 ppb

Before

response 1709

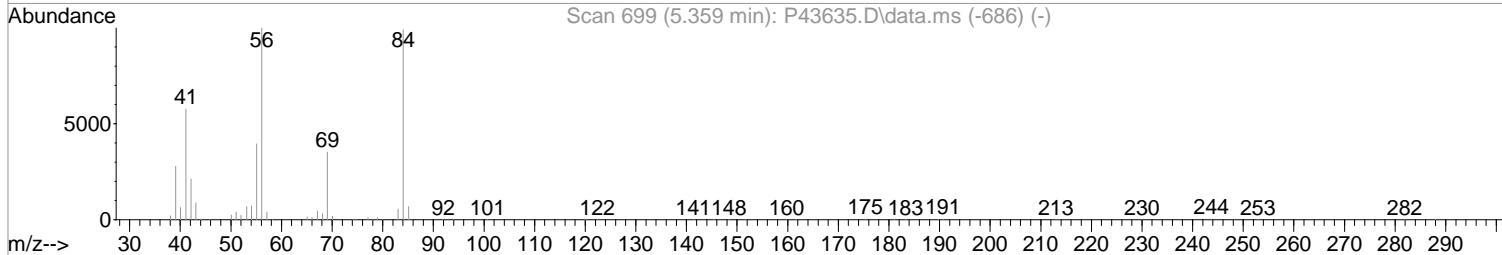
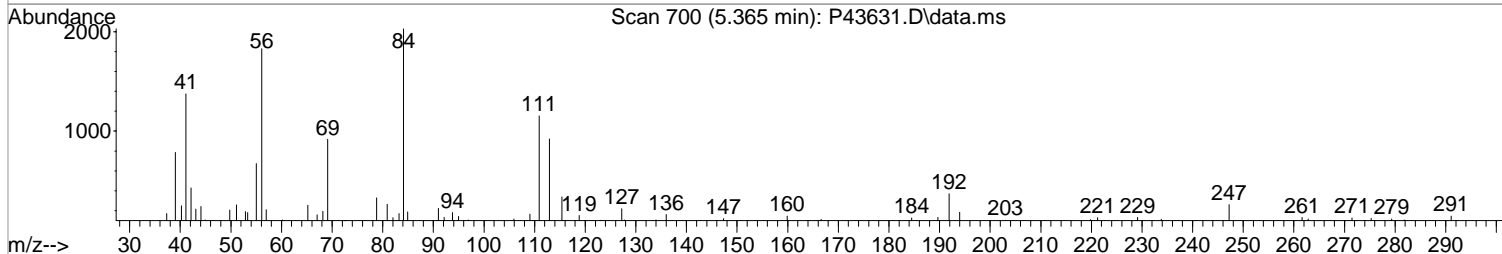
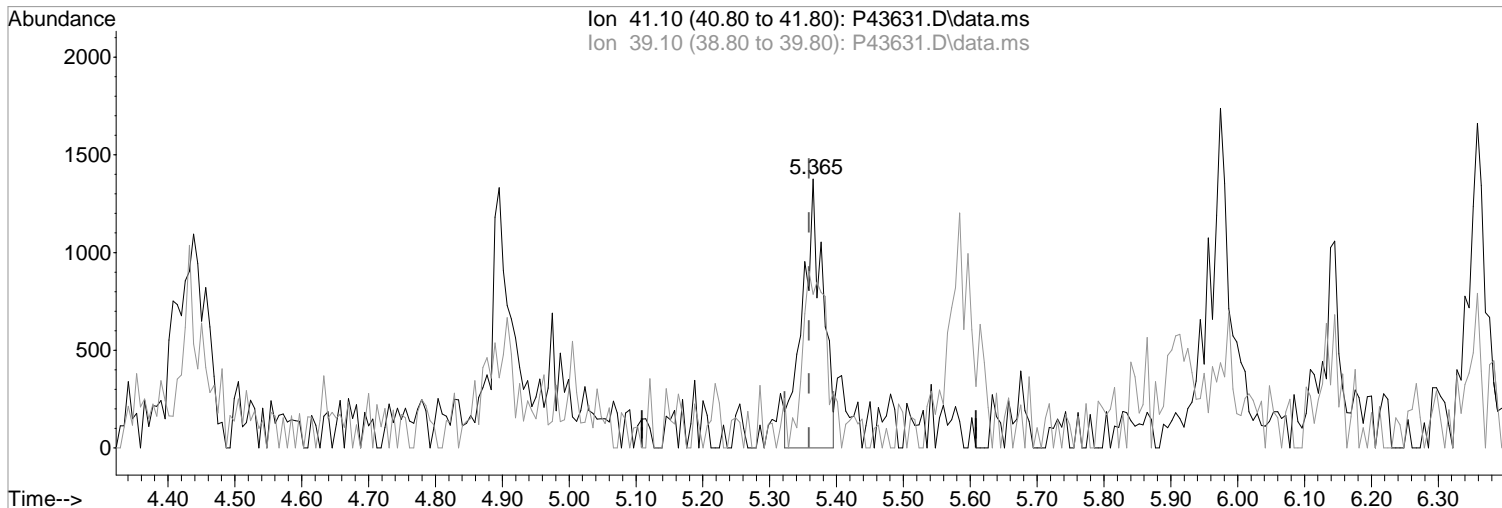
Ion	Exp%	Act%
97.00	100	100
99.00	62.10	65.17
61.00	43.30	46.29
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(44) Cyclohexane (P)

5.365min (+0.006) 1.03 ppb m

response 2888

Ion	Exp%	Act%
41.10	100	100
39.10	48.70	57.19
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

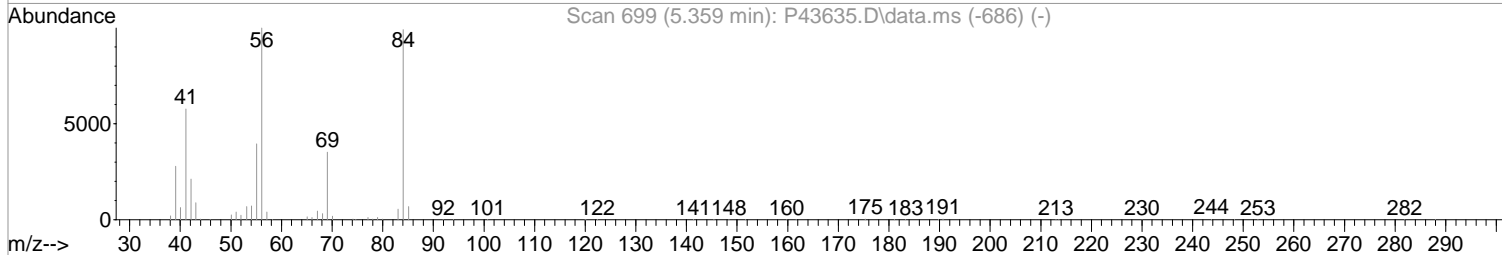
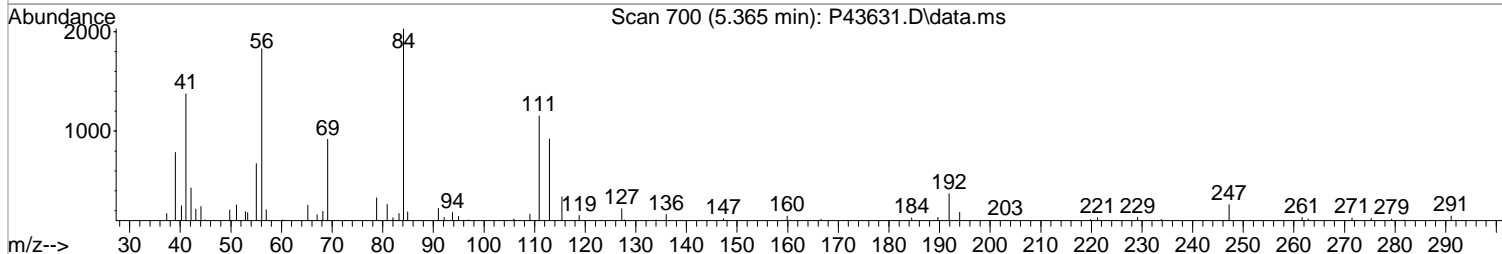
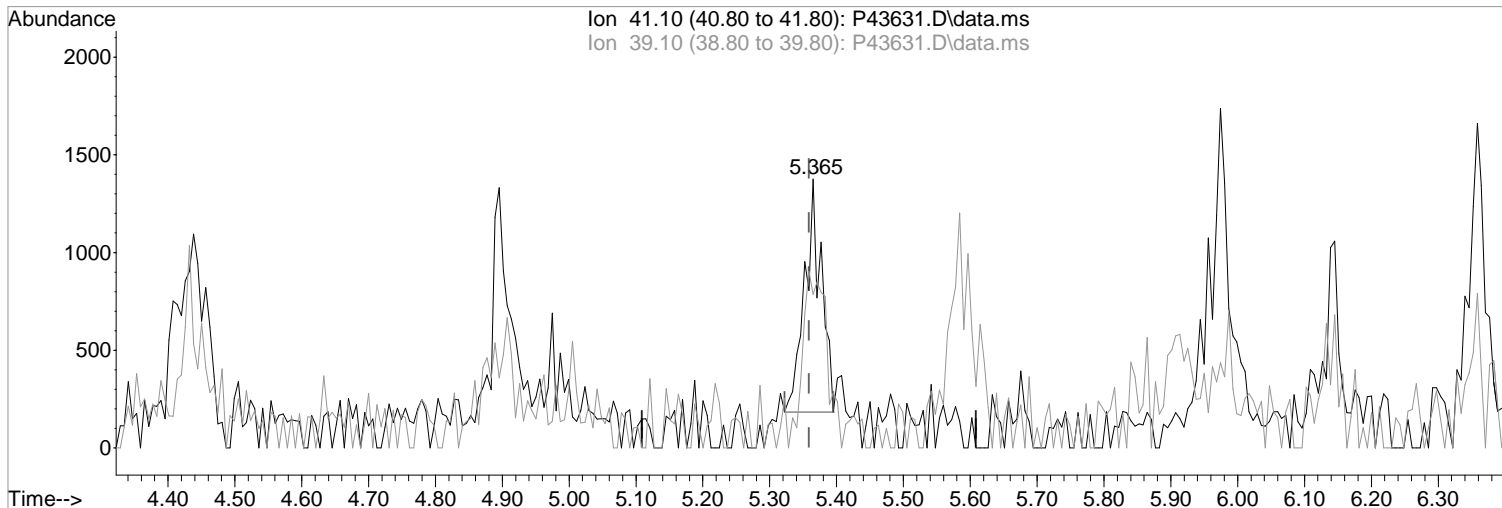
Poor integration.

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(44) Cyclohexane (P)
5.365min (+0.006) 0.74 ppb
response 2084

Manual Integration:
Before

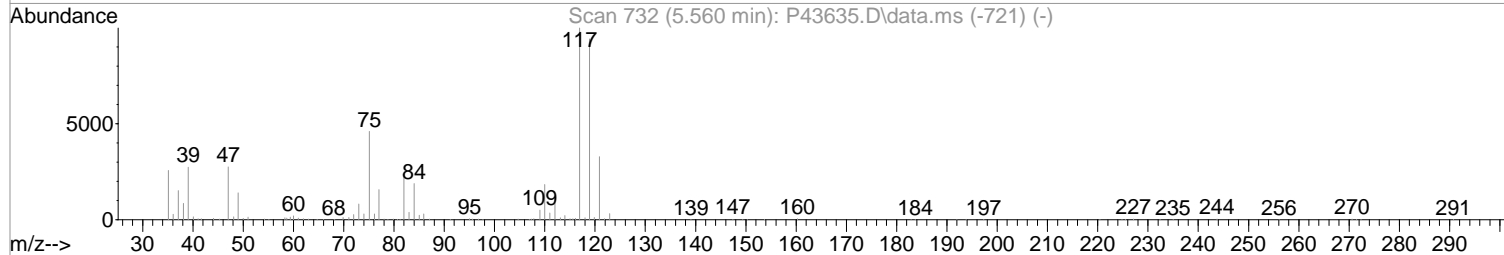
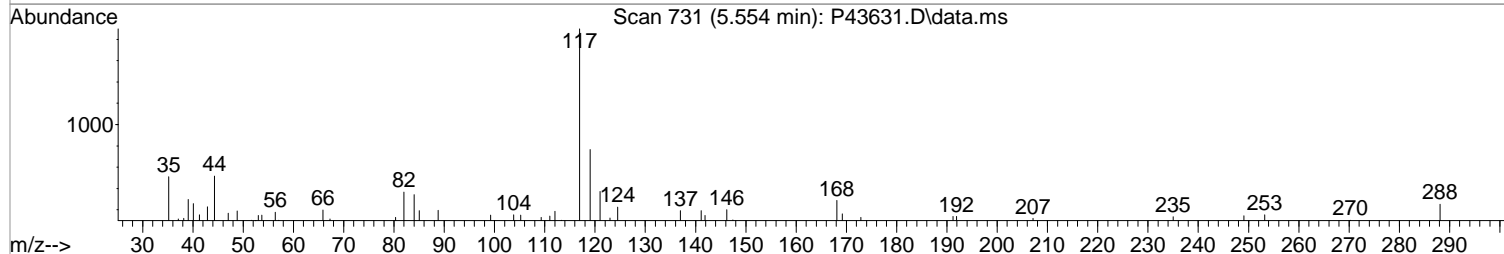
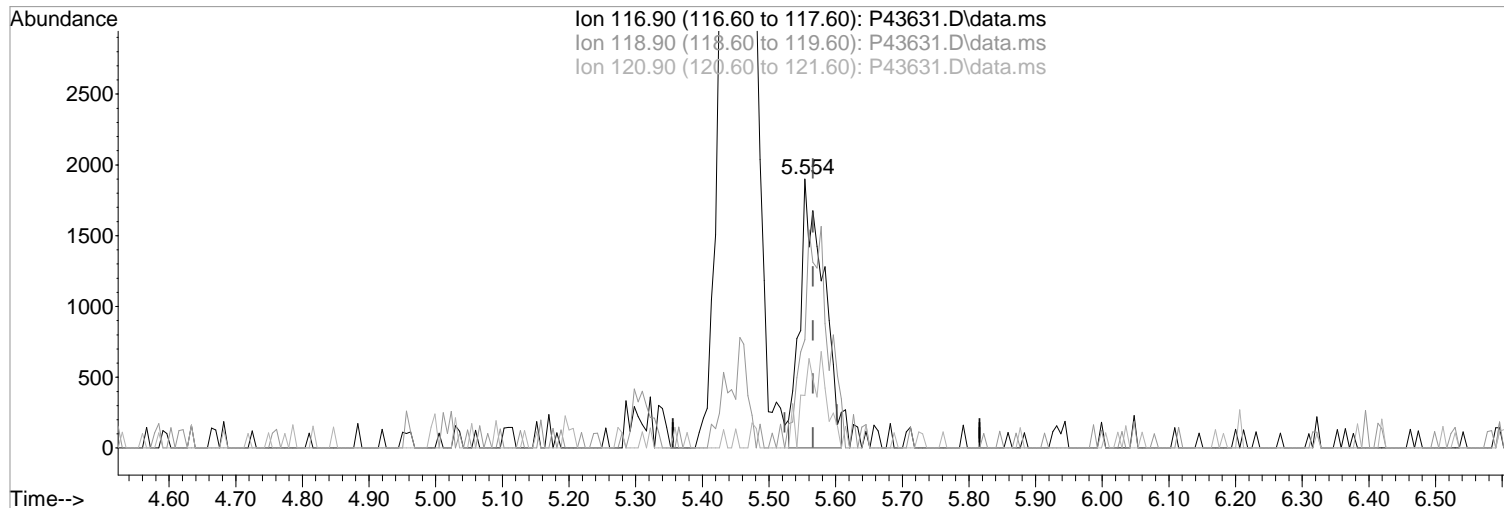
Ion	Exp%	Act%
41.10	100	100
39.10	48.70	57.19
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(46) Carbontetrachloride (P)

5.554min (-0.012) 1.09 ppb m
response 4683

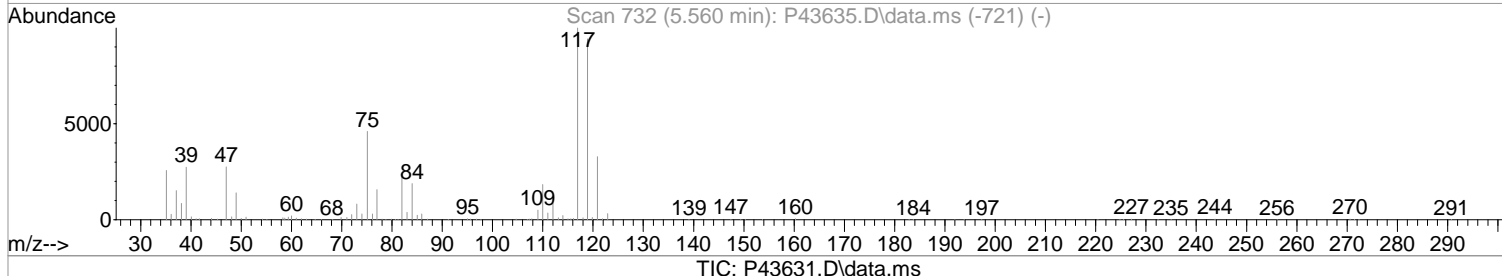
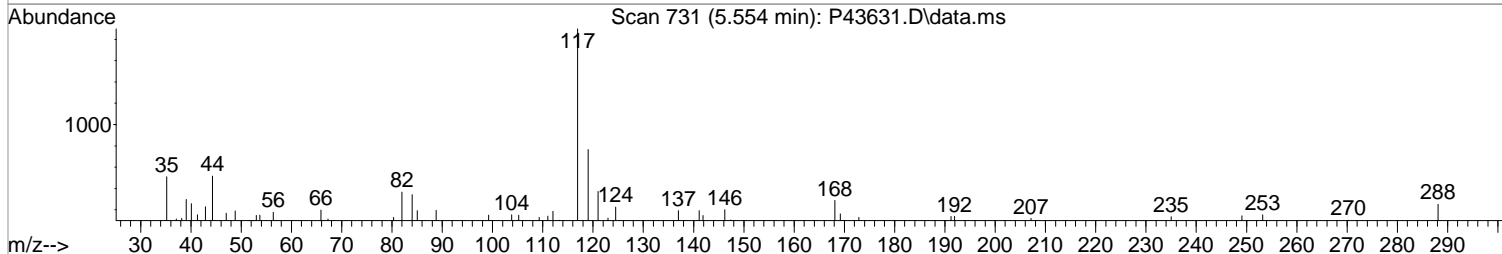
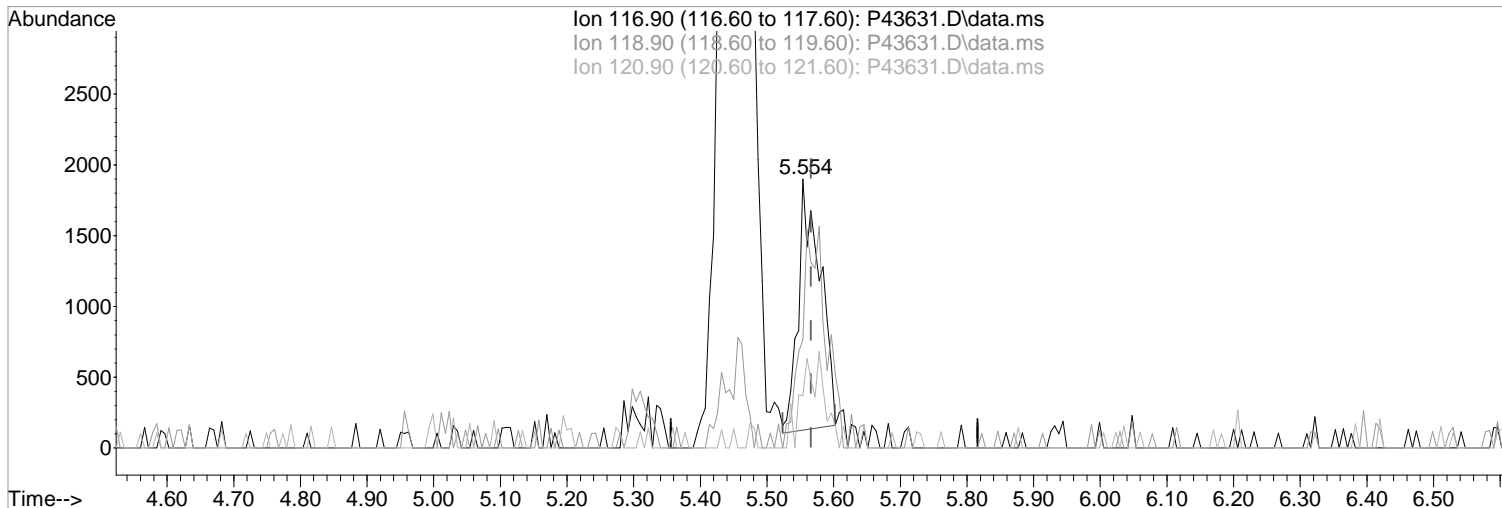
Ion	Exp%	Act%
116.90	100	100
118.90	93.80	40.26#
120.90	32.70	19.53
0.00	0.00	0.00

Manual Integration:
After
Poor integration.
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(46) Carbontetrachloride (P)

Manual Integration:

5.554min (-0.012) 0.94 ppb

Before

response 4030

Ion Exp% Act%

02/09/21

116.90 100 100

118.90 93.80 40.26#

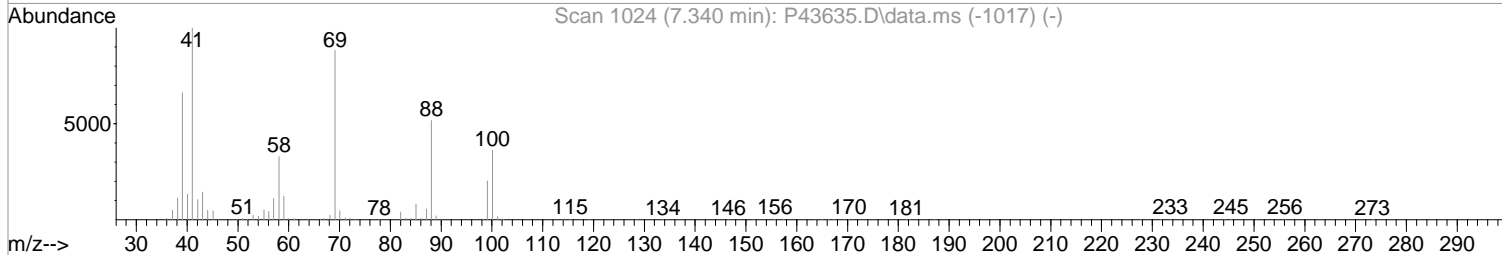
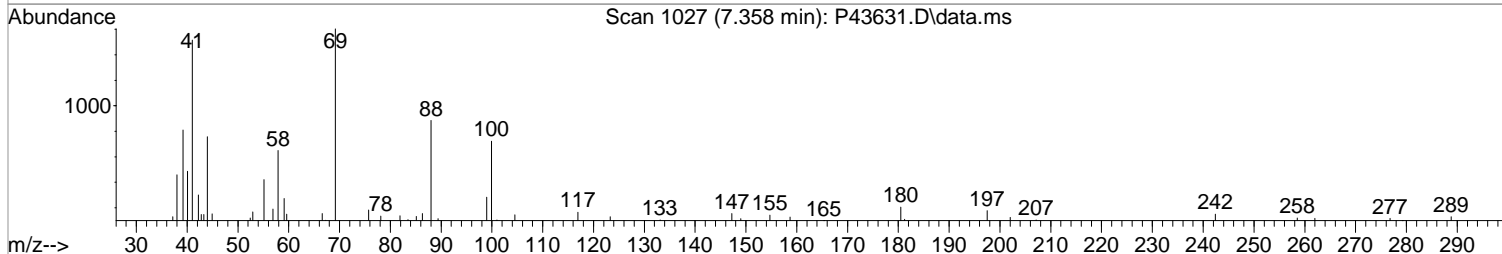
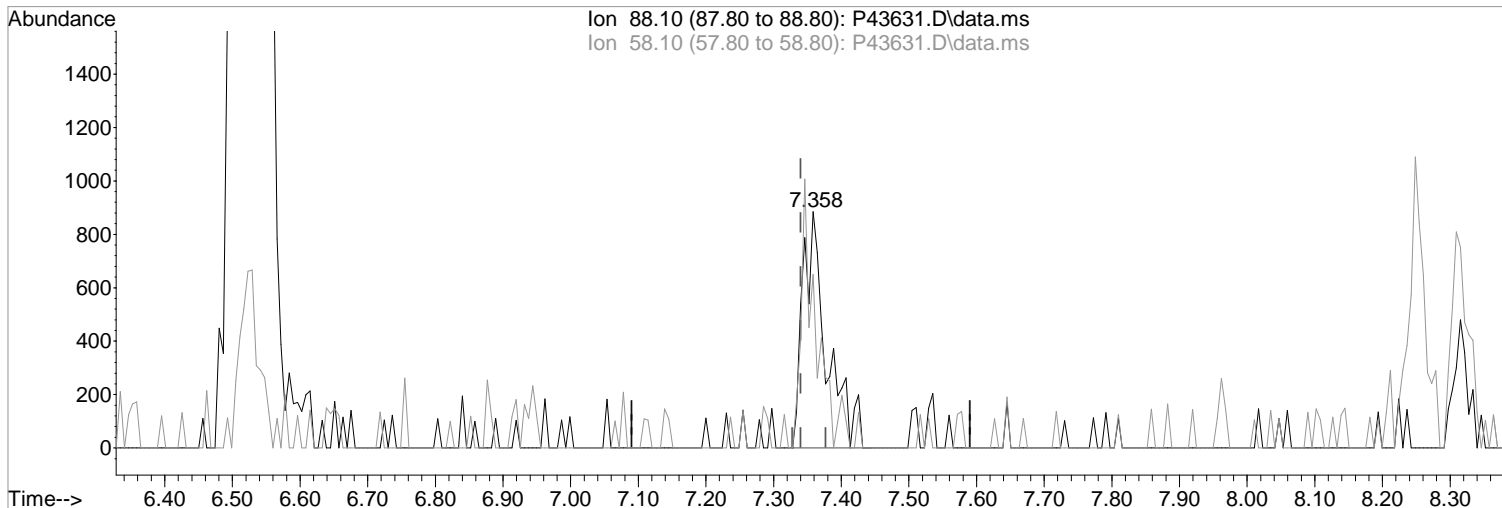
120.90 32.70 19.53

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43631.D
 Acq On : 9 Feb 2021 12:33 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration



TIC: P43631.D\data.ms

(58) 1,4-Dioxane
 7.358min (+0.018) 26.43 ppb m
 response 2191

Manual Integration:
 After
 Poor integration.

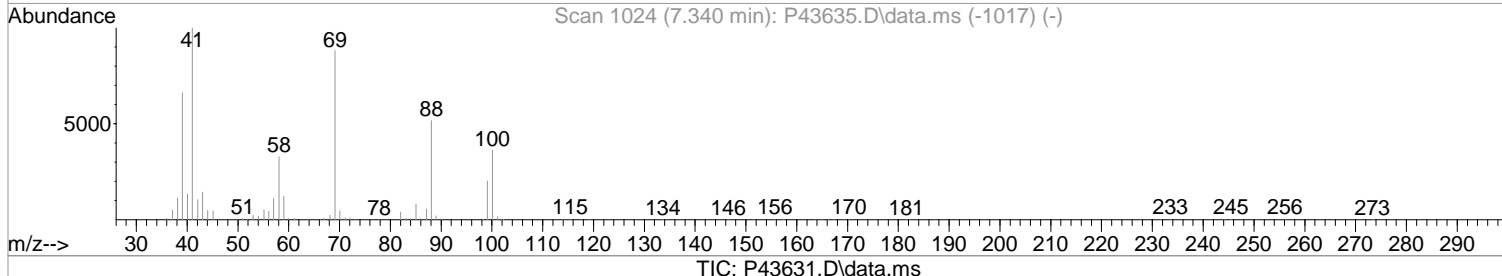
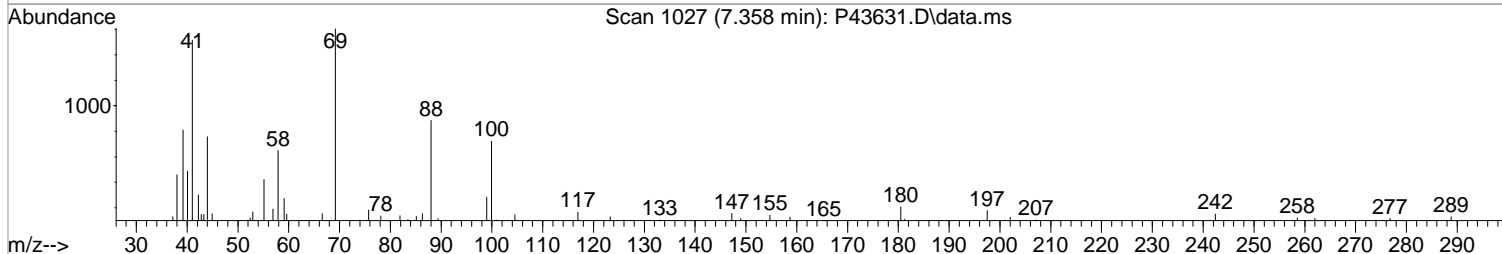
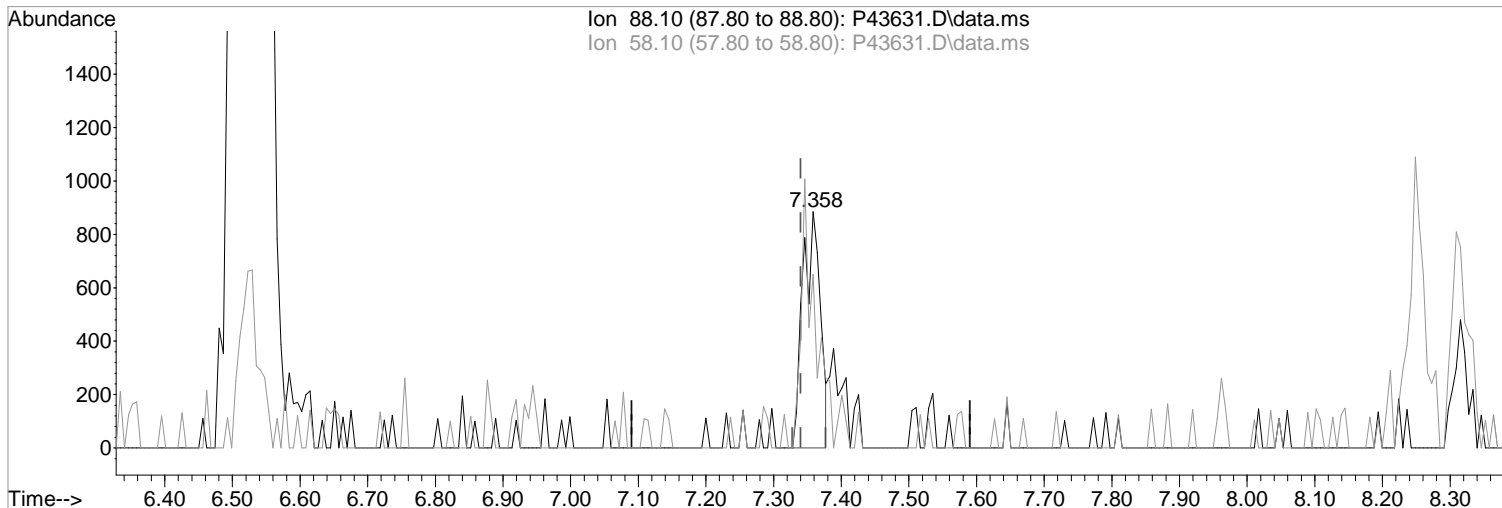
Ion	Exp%	Act%
88.10	100	100
58.10	63.50	73.45
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(58) 1,4-Dioxane
7.358min (+0.018) 19.06 ppb
response 1580

Manual Integration:
Before

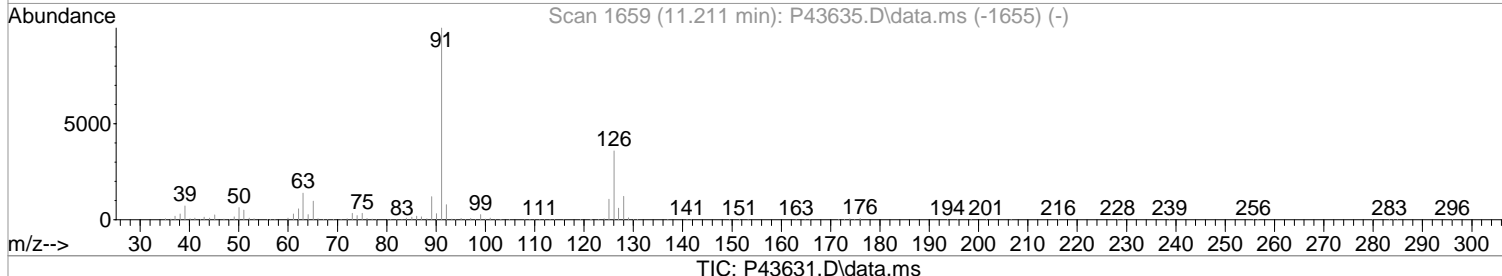
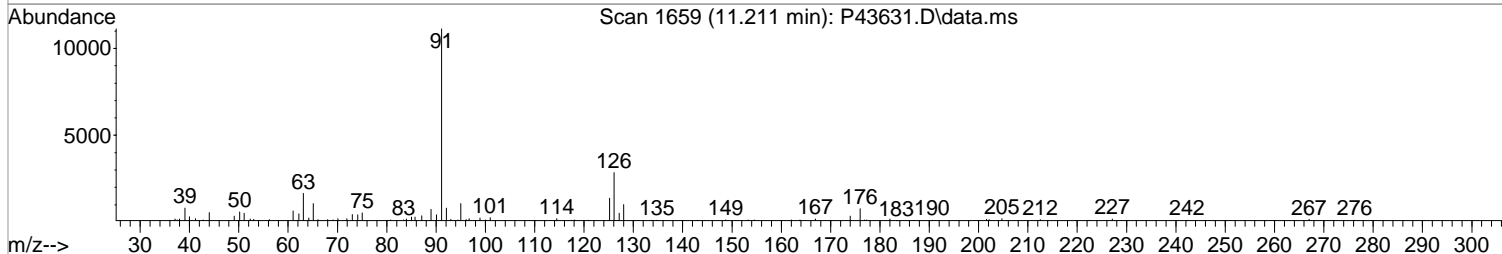
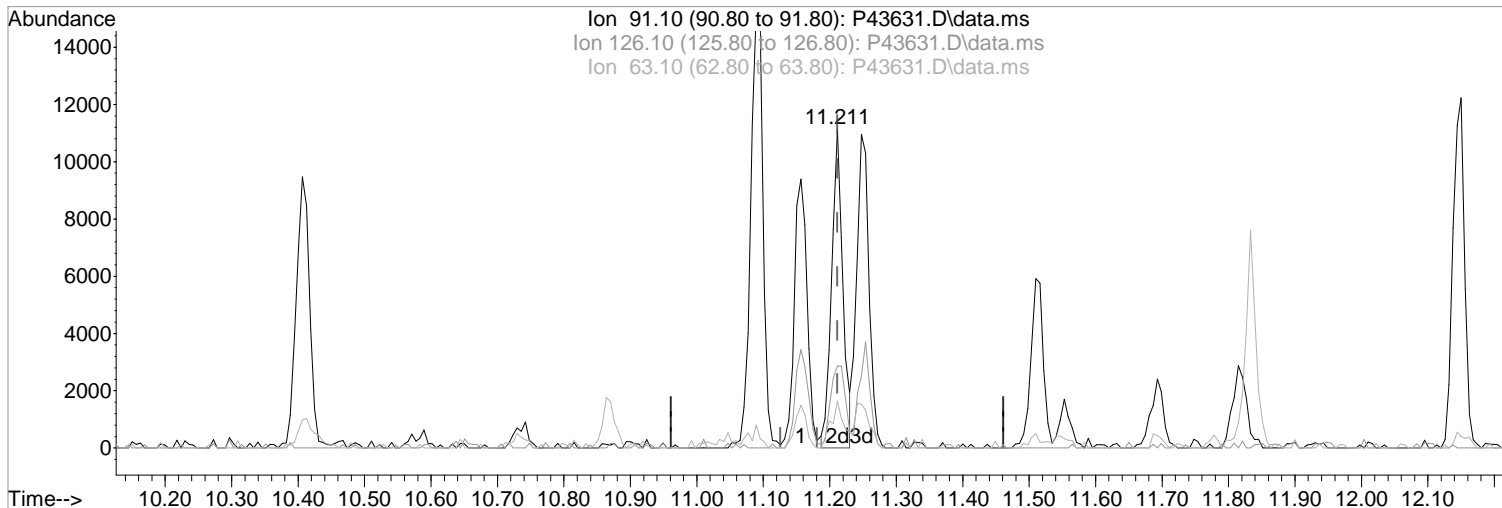
Ion	Exp%	Act%
88.10	100	100
58.10	63.50	73.45
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(97) 3-Chlorotoluene
11.211min (-0.000) 1.08 ppb m
response 13052

Manual Integration:
After
Wrong peak selected.

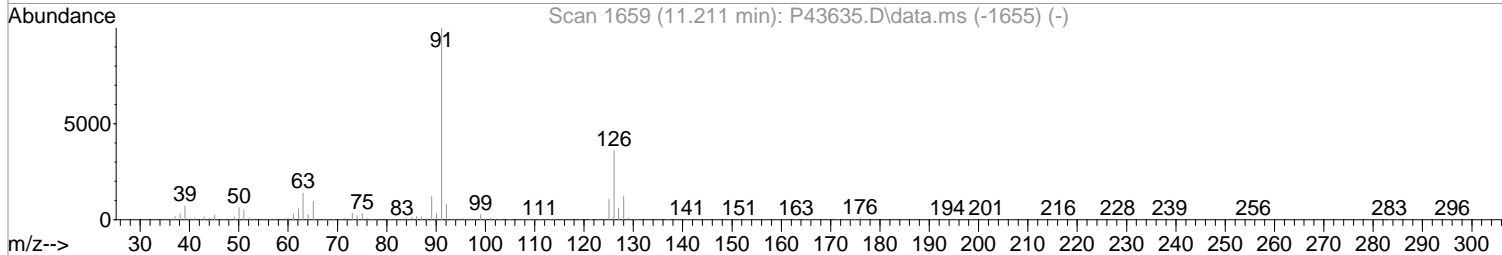
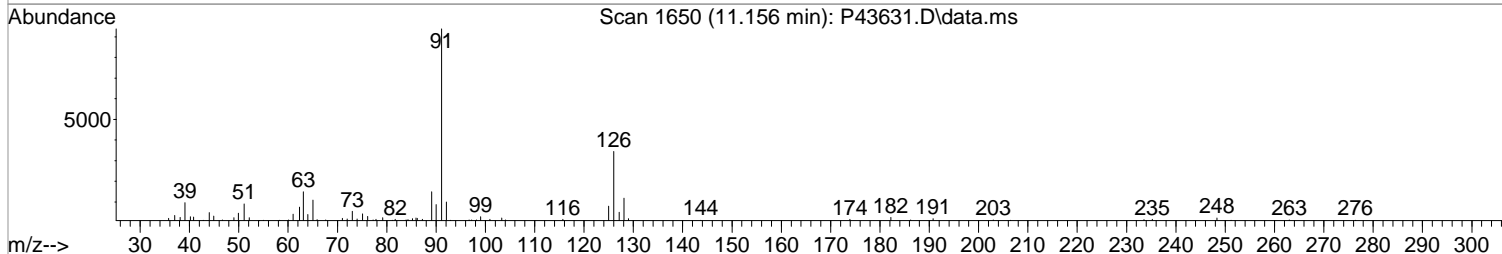
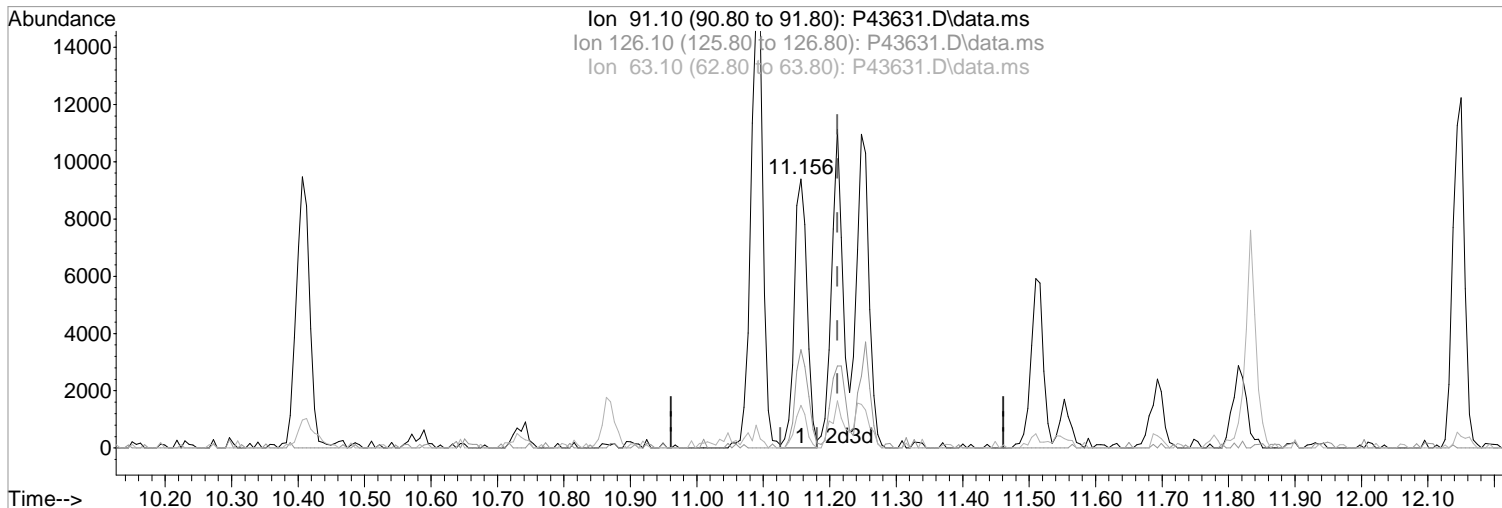
Ion	Exp%	Act%
91.10	100	100
126.10	35.80	25.71#
63.10	13.80	14.81
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:08 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(97) 3-Chlorotoluene
11.156min (-0.055) 1.04 ppb
response 12610

Manual Integration:
Before

Ion	Exp%	Act%
91.10	100	100
126.10	35.80	36.62
63.10	13.80	15.90
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43631.D
 Acq On : 9 Feb 2021 12:33 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:18:36 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	325616	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	494752	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	464888	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	232701	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.328	113	29061	10.61	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	21.22%#	
48) surr1,1,2-dichloroetha...	5.859	65	38984	11.27	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	22.54%#	
65) SURR3,Toluene-d8	8.315	98	133878	11.13	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	22.26%#	
70) SURR2,BFB	10.864	95	52850	11.08	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	22.16%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.201	85	4044	0.99	ppb	89
3) Chloromethane	1.329	50	3683	1.01	ppb	87
4) Vinyl Chloride	1.408	62	5063	1.04	ppb	96
5) Bromomethane	1.640	94	5954	1.53	ppb	96
6) Chloroethane	1.713	64	3655	1.17	ppb	100
7) Freon 21	1.872	67	5773	1.02	ppb	90
8) Trichlorofluoromethane	1.914	101	5114	0.99	ppb	97
9) Diethyl Ether	2.146	59	2957	1.07	ppb	85
10) Freon 123a	2.158	67	3732	1.05	ppb	87
11) Freon 123	2.219	83	4115	1.00	ppb	92
12) Acrolein	2.262	56	4400m	5.54	ppb	
13) 1,1-Dicethene	2.335	96	2960	1.13	ppb	# 76
14) Freon 113	2.341	101	3797	1.19	ppb	# 64
15) Acetone	2.408	43	3368m	2.27	ppb	
16) 2-Propanol	2.542	45	7155	19.81	ppb	85
17) Iodomethane	2.481	142	1585	0.48	ppb	77
18) Carbon Disulfide	2.530	76	7950	1.01	ppb	96
19) Acetonitrile	2.658	40	705m	3.74	ppb	
20) Allyl Chloride	2.682	76	1823m	1.07	ppb	
21) Methyl Acetate	2.713	43	4880	1.30	ppb	93
22) Methylene Chloride	2.804	84	4232	1.24	ppb	94
23) TBA	2.951	59	11796	17.41	ppb	96
24) Acrylonitrile	3.091	53	7907	4.77	ppb	# 75
25) Methyl-t-Butyl Ether	3.097	73	11627	1.01	ppb	88
26) trans-1,2-Dichloroethene	3.091	96	3195	1.07	ppb	98
28) 1,1-Dicethane	3.603	63	5264	0.95	ppb	96
29) Vinyl Acetate	3.694	86	659m	1.01	ppb	
30) DIPE	3.707	45	8414	0.97	ppb	# 71
31) 2-Chloro-1,3-Butadiene	3.713	53	4589	0.96	ppb	89
32) ETBE	4.237	59	10143	1.04	ppb	81
33) 2,2-Dichloropropane	4.432	77	5973	1.10	ppb	95
34) cis-1,2-Dichloroethene	4.450	96	3763m	1.05	ppb	
36) Propionitrile	4.652	54	3319	4.54	ppb	74
37) Bromochloromethane	4.847	130	2364m	1.01	ppb	
38) Methacrylonitrile	4.908	67	2030m	1.07	ppb	
40) Chloroform	5.042	83	5552	0.97	ppb	87
41) 1,1,1-Trichloroethane	5.304	97	5680m	1.05	ppb	
42) TAME	6.139	73	10582	1.04	ppb	95
44) Cyclohexane	5.365	41	2888m	1.03	ppb	

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43631.D
 Acq On : 9 Feb 2021 12:33 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:18:36 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Carbontetrachloride	5.554	117	4683m	1.09	ppb	
47) 1,1-Dichloropropene	5.584	75	4531	1.02	ppb	72
49) Benzene	5.913	78	14267	1.08	ppb	88
50) 1,2-Dichloroethane	5.974	62	4746	1.03	ppb	88
51) Iso-Butyl Alcohol	5.962	43	5795	22.96	ppb	# 47
52) n-Heptane	6.365	43	4036	1.08	ppb	# 84
53) 1-Butanol	6.919	56	7553	43.56	ppb	88
54) Trichloroethene	6.834	130	4254	1.18	ppb	# 71
55) Methylcyclohexane	7.053	55	4933	1.15	ppb	# 77
56) 1,2-Diclpropane	7.133	63	3408	1.07	ppb	99
57) Dibromomethane	7.285	93	2485	1.08	ppb	96
58) 1,4-Dioxane	7.358	88	2191m	26.43	ppb	
59) Methyl Methacrylate	7.358	69	2709	0.89	ppb	89
60) Bromodichloromethane	7.499	83	4321	1.00	ppb	89
62) 2-Chloroethylvinyl Ether	7.901	63	1817	0.90	ppb	76
63) cis-1,3-Dichloropropene	8.035	75	5305	1.00	ppb	82
64) 4-Methyl-2-pentanone	8.254	43	4656	1.08	ppb	90
66) Toluene	8.389	91	16030	1.02	ppb	95
67) trans-1,3-Dichloropropene	8.675	75	4744	0.92	ppb	81
68) Ethyl Methacrylate	8.797	69	4815	0.89	ppb	92
69) 1,1,2-Trichloroethane	8.858	97	3416	0.99	ppb	# 79
72) Tetrachloroethene	8.968	164	2714	0.92	ppb	# 90
73) 2-Hexanone	9.151	43	2931	0.91	ppb	95
74) 1,3-Dichloropropane	9.023	76	5957	1.05	ppb	94
75) Dibromochloromethane	9.248	129	2690	0.81	ppb	# 67
76) N-Butyl Acetate	9.291	43	5866	0.97	ppb	87
77) 1,2-Dibromoethane	9.346	107	3931	1.08	ppb	91
78) Chlorobenzene	9.827	112	10855	1.04	ppb	96
79) 3-CBTF	9.840	180	5722	1.01	ppb	# 76
80) 4-CBTF	9.894	180	5597	1.12	ppb	# 85
81) 1,1,1,2-Tetrachloroethane	9.913	131	2884	0.82	ppb	89
82) Ethylbenzene	9.943	106	5490	0.96	ppb	# 80
83) (m+p)Xylene	10.047	106	12944	1.93	ppb	92
84) o-Xylene	10.406	106	6492	0.94	ppb	94
85) Styrene	10.425	104	10017	0.88	ppb	94
87) Bromoform	10.583	173	2402	1.13	ppb	99
88) 2-CBTF	10.656	180	5641	1.11	ppb	# 79
89) Isopropylbenzene	10.736	105	17007	1.05	ppb	96
90) Cyclohexanone	10.821	55	17242	21.22	ppb	83
91) trans-1,4-Dichloro-2-B...	11.065	53	1420	1.02	ppb	# 62
92) 1,1,2,2-Tetrachloroethane	11.010	83	4888	0.97	ppb	92
93) Bromobenzene	10.986	156	4438	1.07	ppb	93
94) 1,2,3-Trichloropropane	11.041	110	1991	1.12	ppb	97
95) n-Propylbenzene	11.089	91	19547	1.04	ppb	99
96) 2-Chlorotoluene	11.156	91	12248	1.05	ppb	94
97) 3-Chlorotoluene	11.211	91	13052m	1.08	ppb	
98) 4-Chlorotoluene	11.248	91	14130	1.05	ppb	91
99) 1,3,5-Trimethylbenzene	11.242	105	14062	0.99	ppb	85
100) tert-Butylbenzene	11.510	119	13043	1.06	ppb	92
101) 1,2,4-Trimethylbenzene	11.553	105	14808	1.04	ppb	98
102) 3,4-DCBTF	11.620	214	3928	0.96	ppb	91
103) sec-Butylbenzene	11.693	105	18206	1.04	ppb	94
104) p-Isopropyltoluene	11.815	119	15527	1.01	ppb	99
105) 1,3-Dclbenz	11.784	146	8602	1.02	ppb	96
106) 1,4-Dclbenz	11.857	146	9987	1.12	ppb	94
107) 2,4-DCBTF	11.906	214	4141	1.08	ppb	# 85

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43631.D
 Acq On : 9 Feb 2021 12:33 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:18:36 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 2,5-DCBTF	11.949	214	4868	1.13	ppb	92
109) n-Butylbenzene	12.150	91	14950	1.07	ppb	86
110) 1,2-Dclbenz	12.156	146	9098	1.06	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.778	157	1293	0.94	ppb #	61
112) Trielution Dichlorotol...	12.888	125	23870	3.13	ppb	94
113) 1,3,5 Trichlorobenzene	12.943	180	5916	0.96	ppb	89
114) Coelution Dichlorotoluene	13.223	125	17046	2.03	ppb #	92
115) 1,2,4-Tcbenzene	13.430	180	7037	1.09	ppb	93
116) Hexachlorobt	13.558	225	2947	1.03	ppb	88
117) Naphthalen	13.619	128	19147	1.01	ppb	96
118) 1,2,3-Tclbenzene	13.808	180	6824	1.06	ppb	87
119) 2,4,5-Trichlorotolene	14.387	159	4915	1.05	ppb #	84
120) 2,3,6-Trichlorotoluene	14.479	159	5689	1.26	ppb #	80

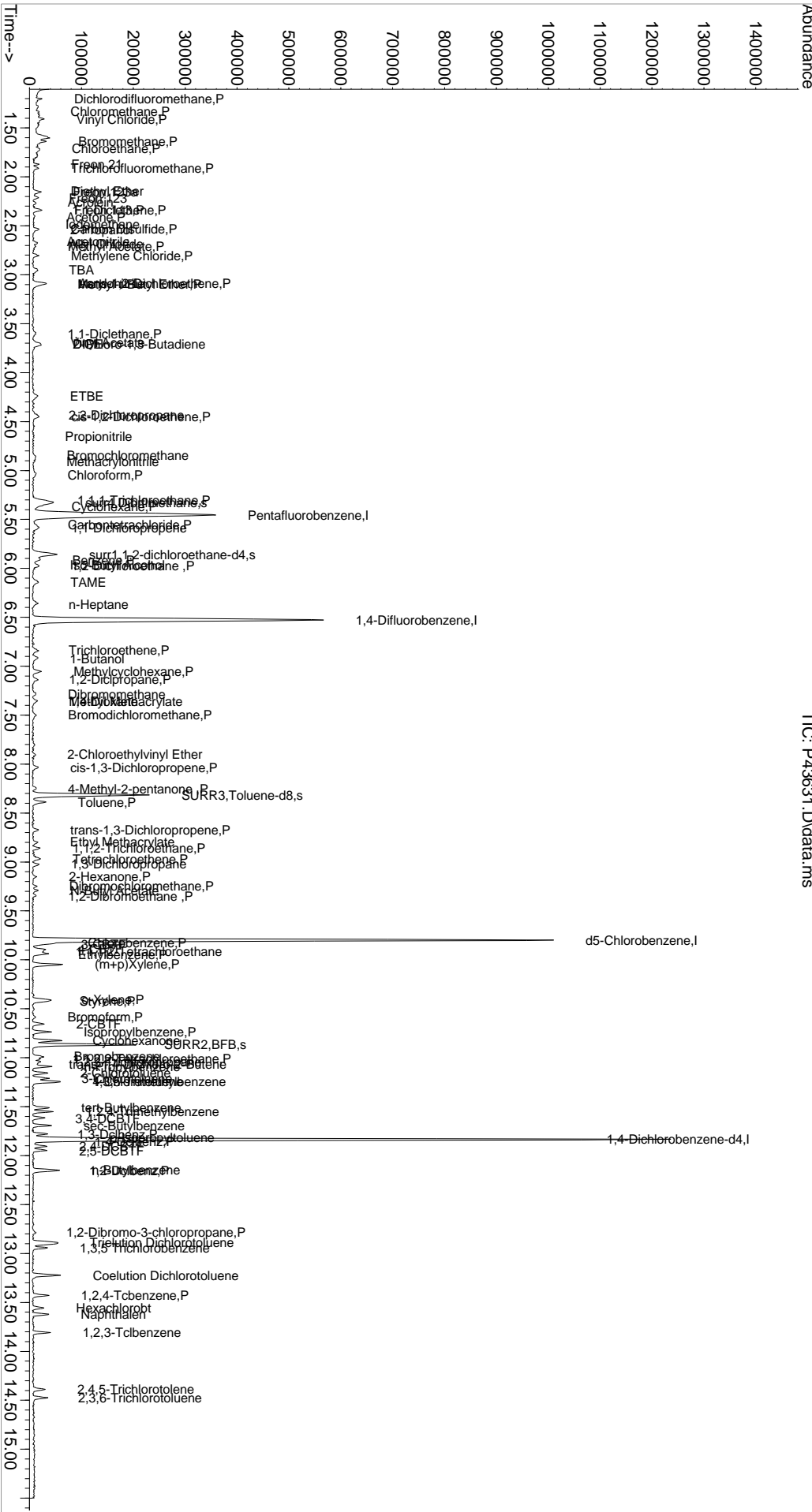
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQ\DATA\msvoa12\Data\020921\
Data File : P43631.D
Acq On : 9 Feb 2021 12:33 pm
Operator : K.Ruest
Sample : 1.0ppb
Disc : WATER ICAL
PALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:18:36 2021
Quant Method : I:\ACQ\DATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Qlast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration

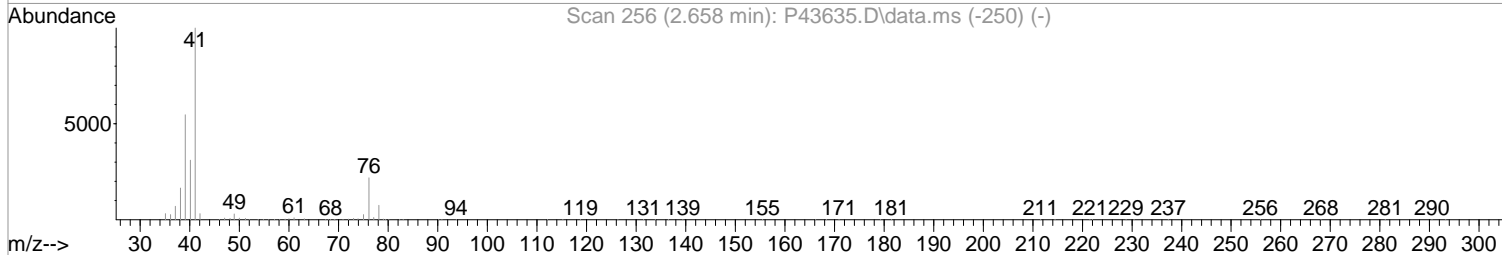
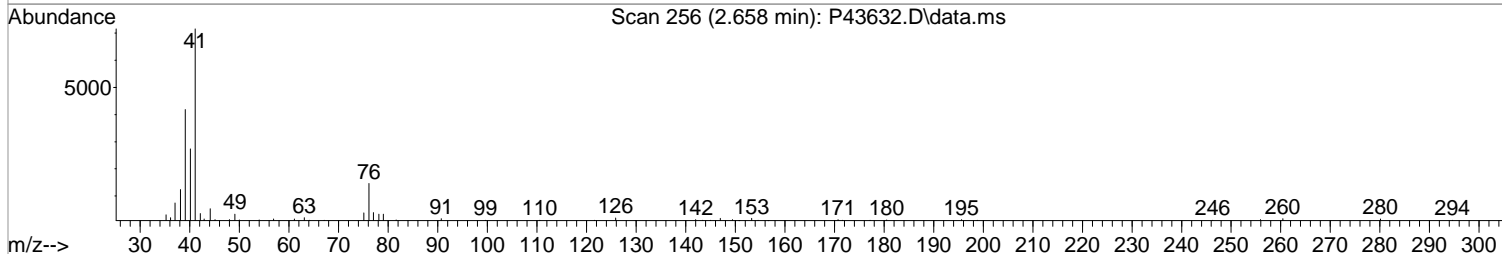
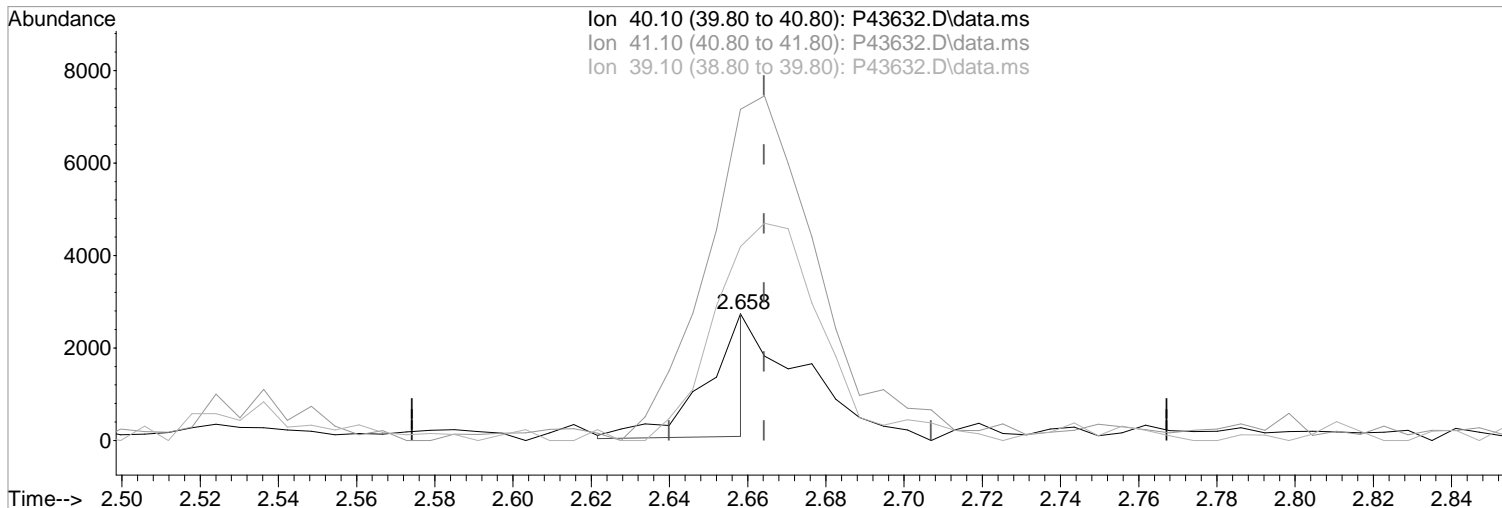
TIC: P43631.D\data.ms



Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(19) Acetonitrile

2.658min (-0.006) 10.86 ppb m

response 2093

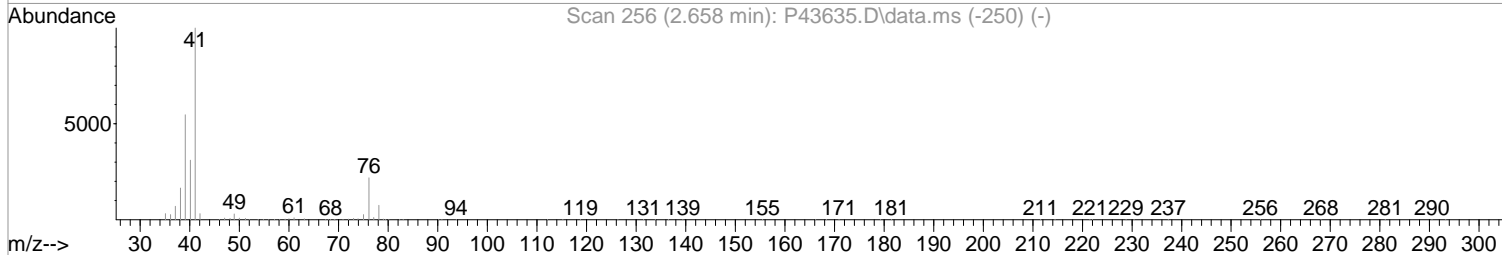
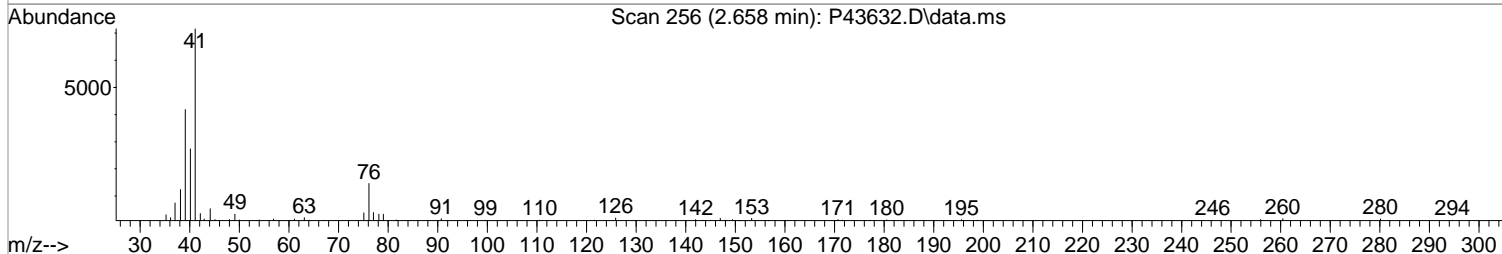
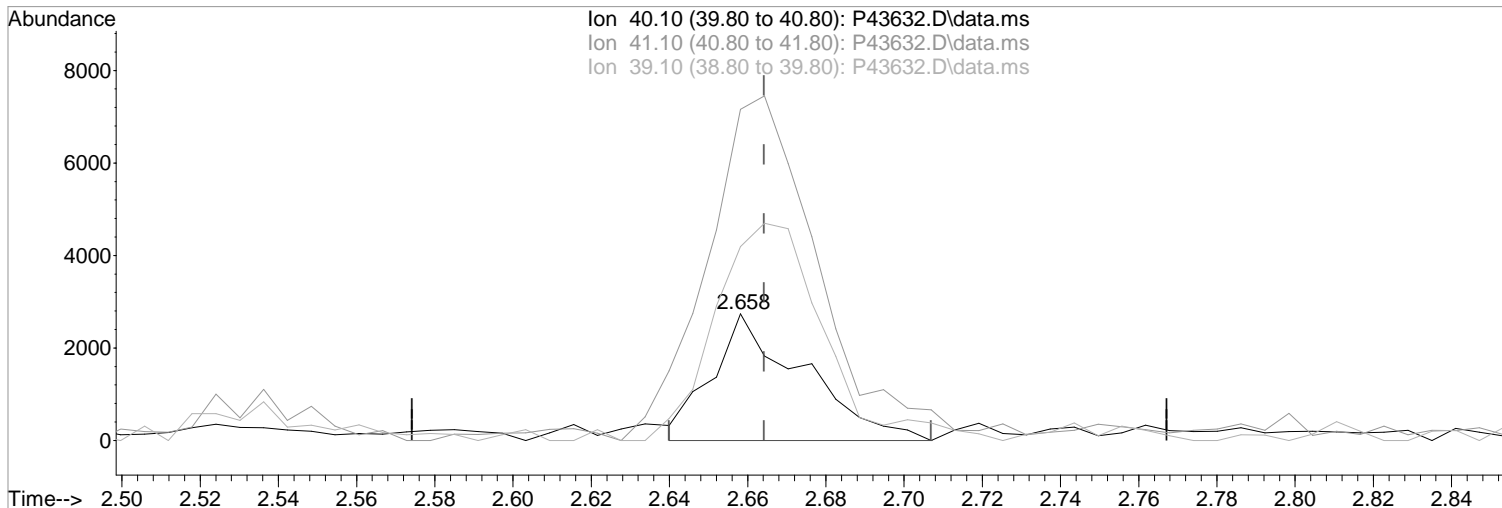
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	261.52#
39.10	175.80	152.94#
0.00	0.00	0.00

Manual Integration:
After
Poor integration.
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43632.D\data.ms

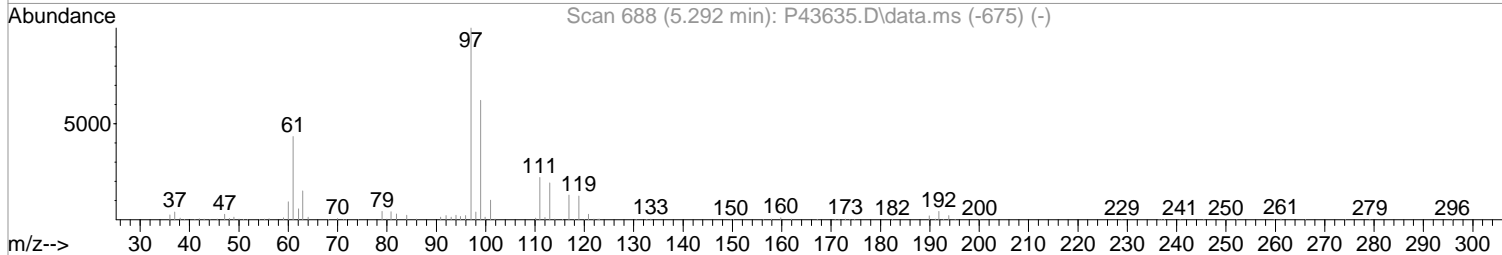
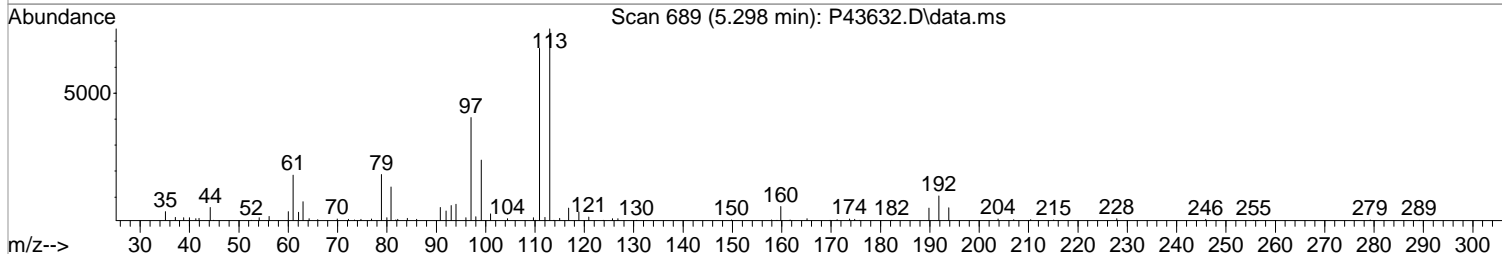
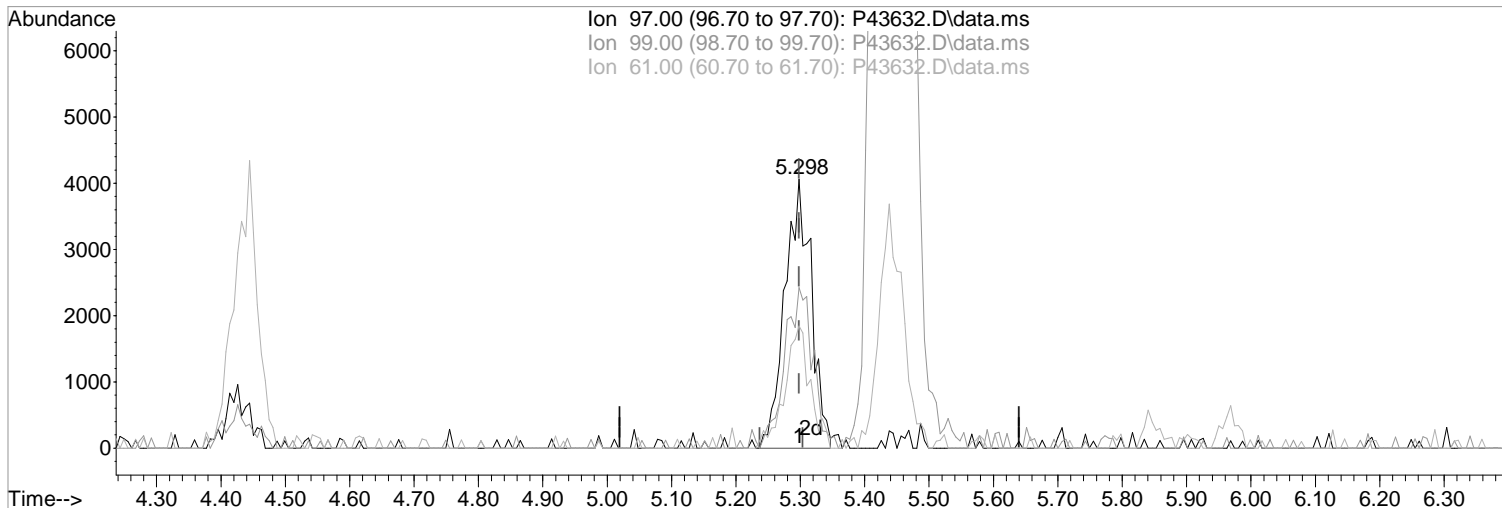
(19) Acetonitrile
2.658min (-0.006) 23.05 ppb
response 4440
Ion Exp% Act%
40.10 100 100
41.10 321.20 261.52#
39.10 175.80 152.94#
0.00 0.00 0.00

Manual Integration:
Before
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.298min (+0.000) 2.07 ppb m

response 11508

Ion	Exp%	Act%
97.00	100	100
99.00	62.10	59.62
61.00	43.30	45.40
0.00	0.00	0.00

Manual Integration:

After

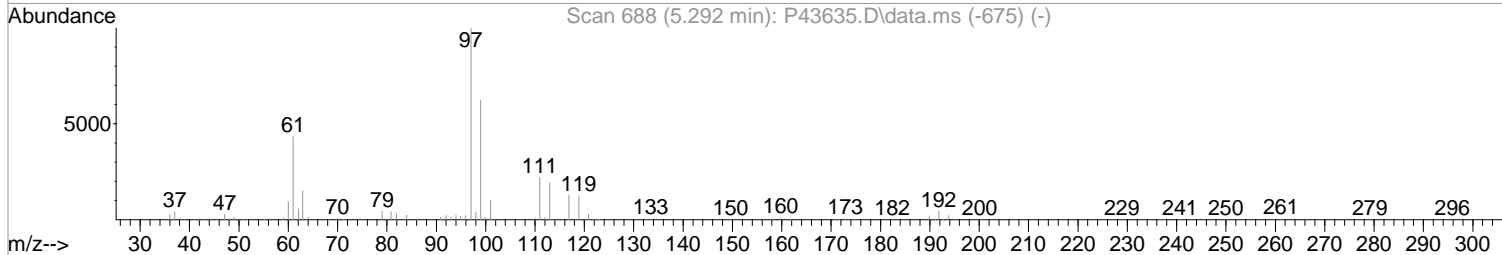
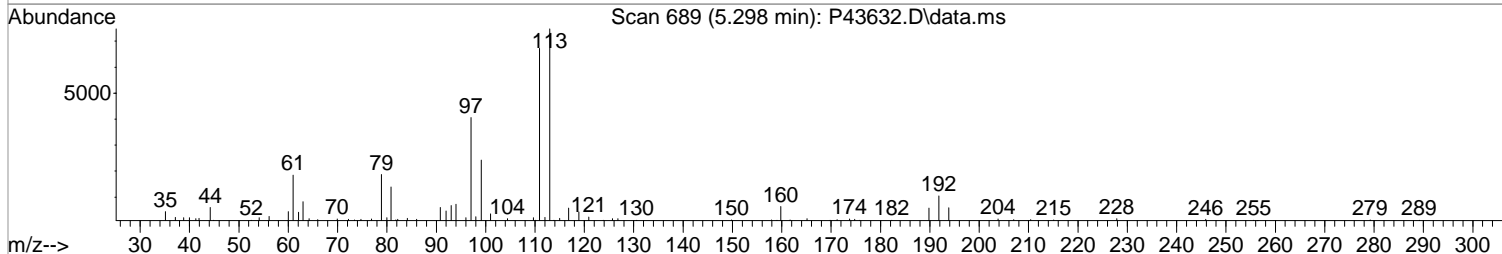
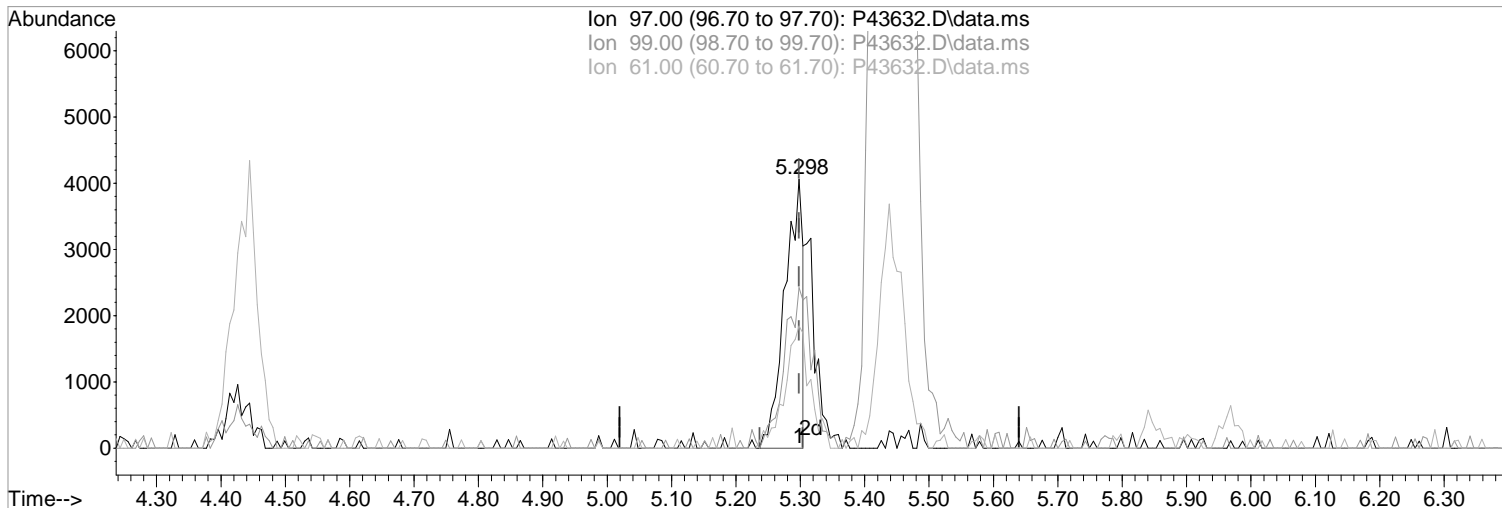
Split Peak

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.298min (+0.000) 1.43 ppb

response 7919

Ion	Exp%	Act%
97.00	100	100
99.00	62.10	59.62
61.00	43.30	45.40
0.00	0.00	0.00

Manual Integration:

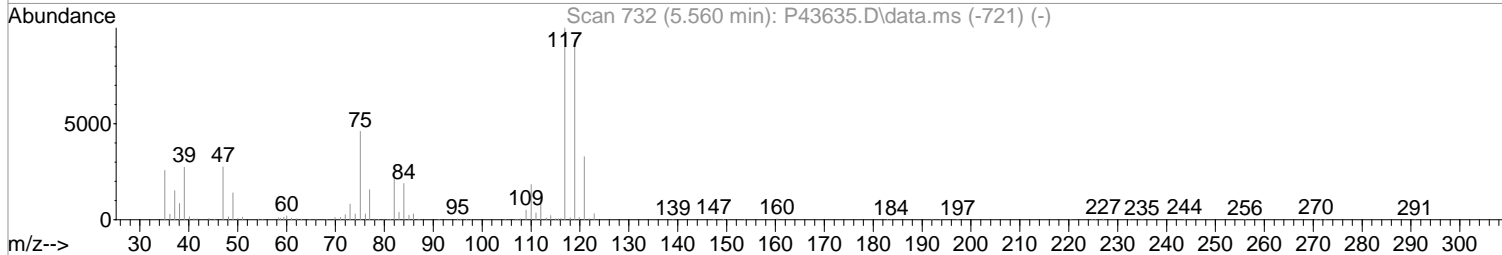
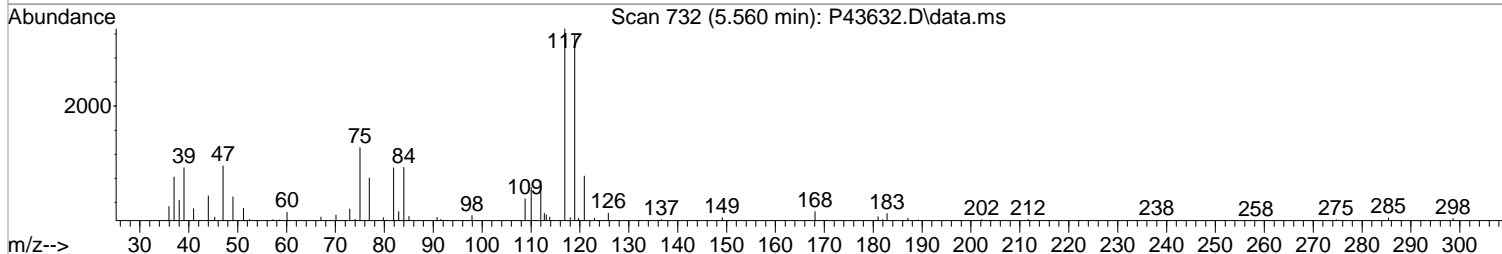
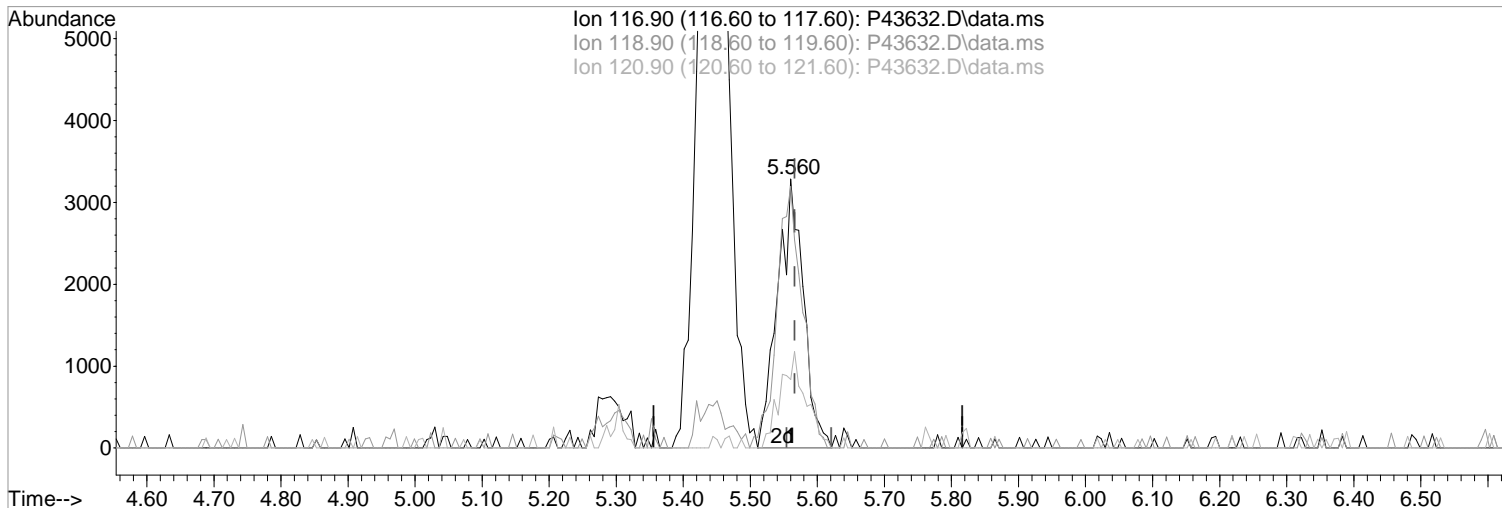
Before

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43632.D\data.ms

(46) Carbontetrachloride (P)

5.560min (-0.006) 1.95 ppb m
response 8777

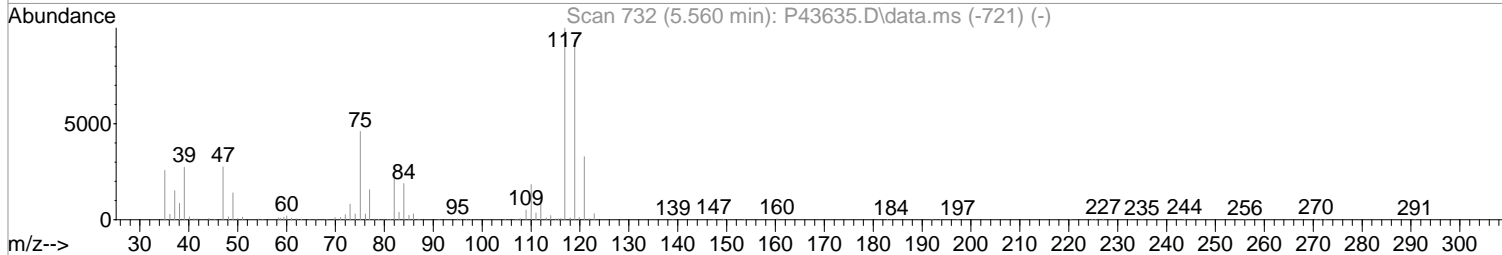
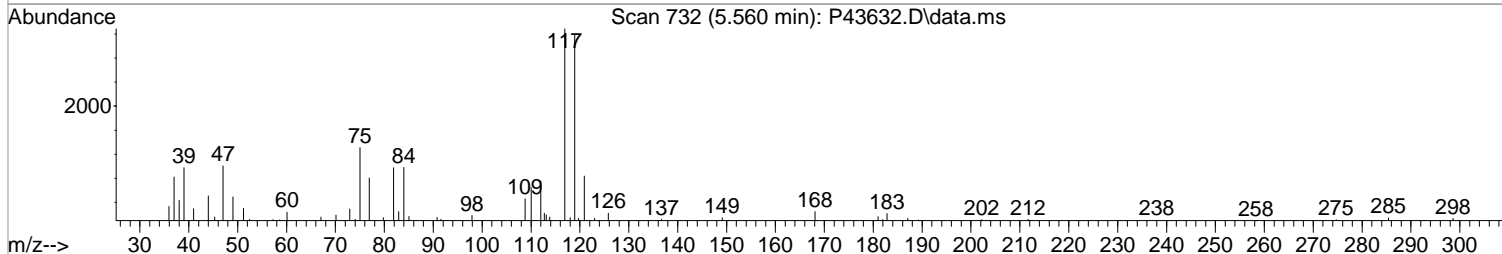
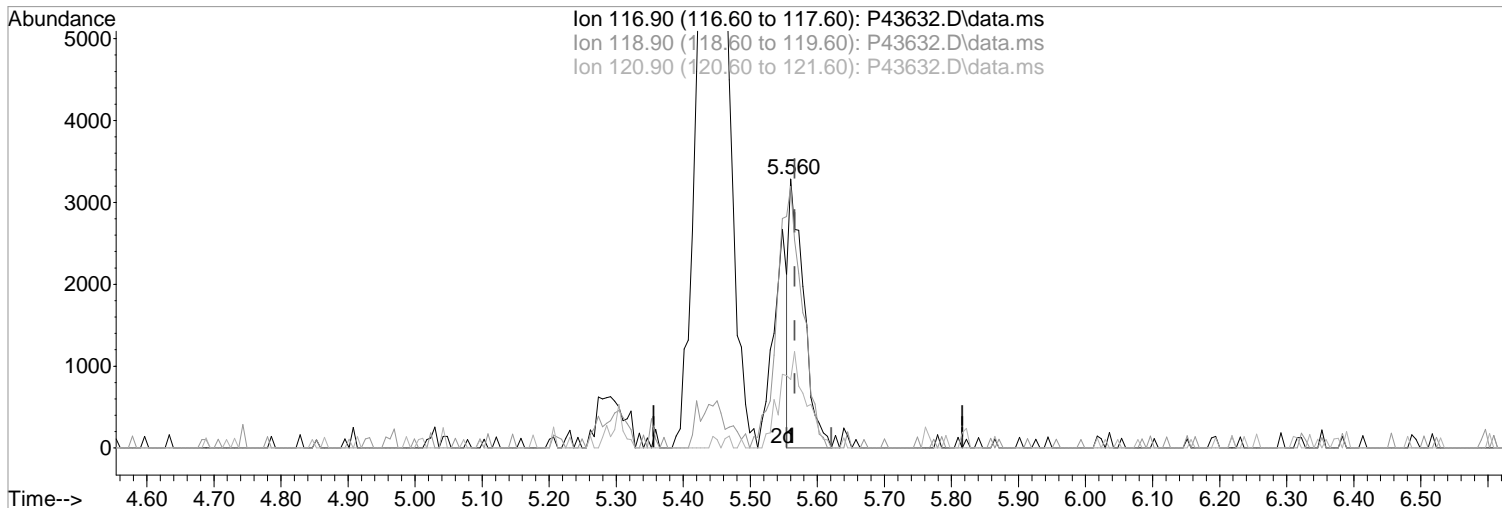
Ion	Exp%	Act%
116.90	100	100
118.90	93.80	97.26
120.90	32.70	25.47
0.00	0.00	0.00

Manual Integration:
After
Split Peak
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43632.D\data.ms

(46) Carbontetrachloride (P)

Manual Integration:

5.560min (-0.006) 1.11 ppb

Before

response 5016

Ion Exp% Act%

02/09/21

116.90 100 100

118.90 93.80 97.26

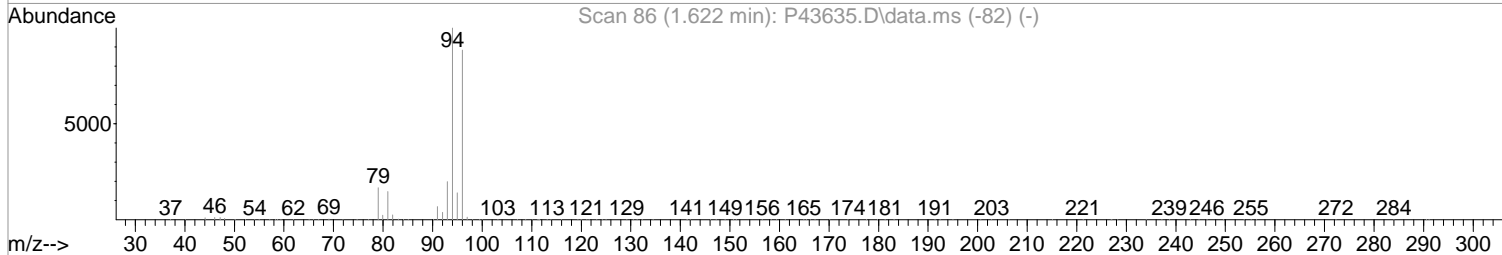
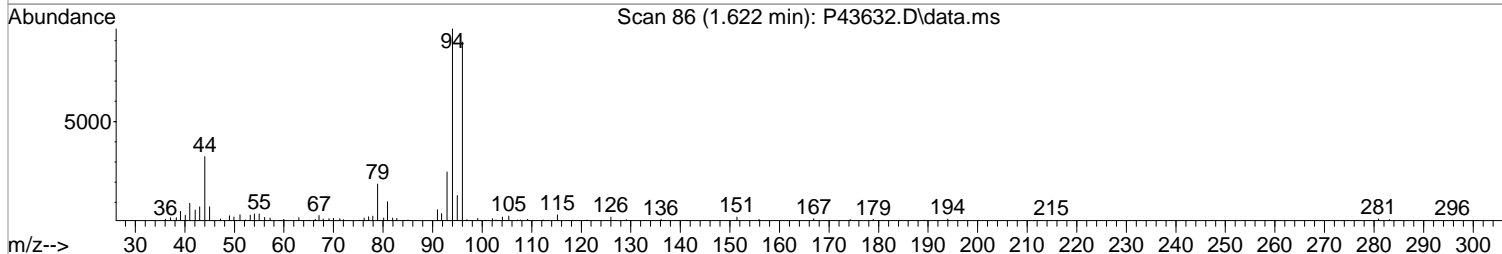
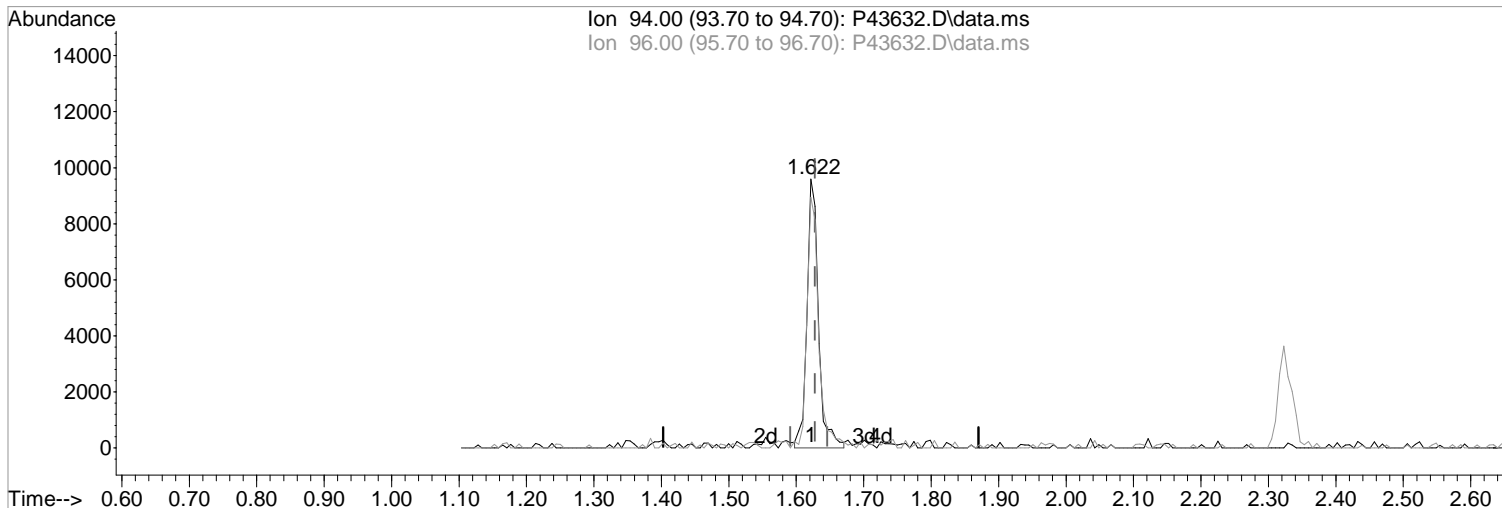
120.90 32.70 25.47

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.622min (-0.006) 2.86 ppb m
response 11340

Manual Integration:

After

Poor integration.

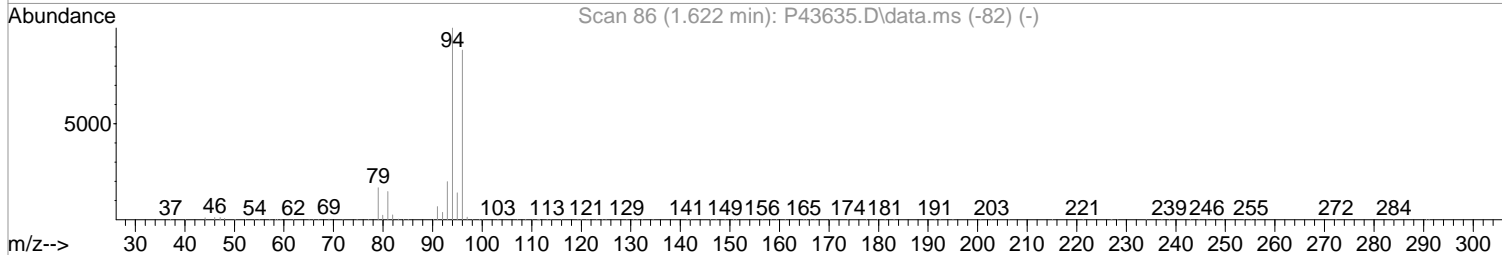
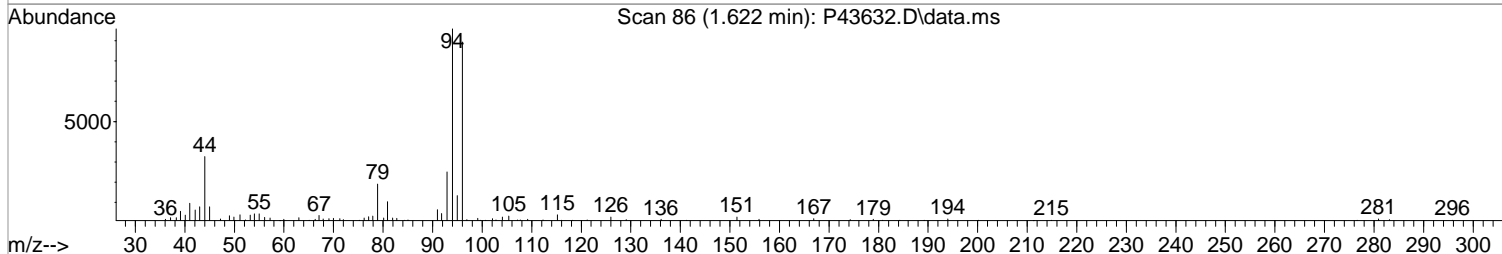
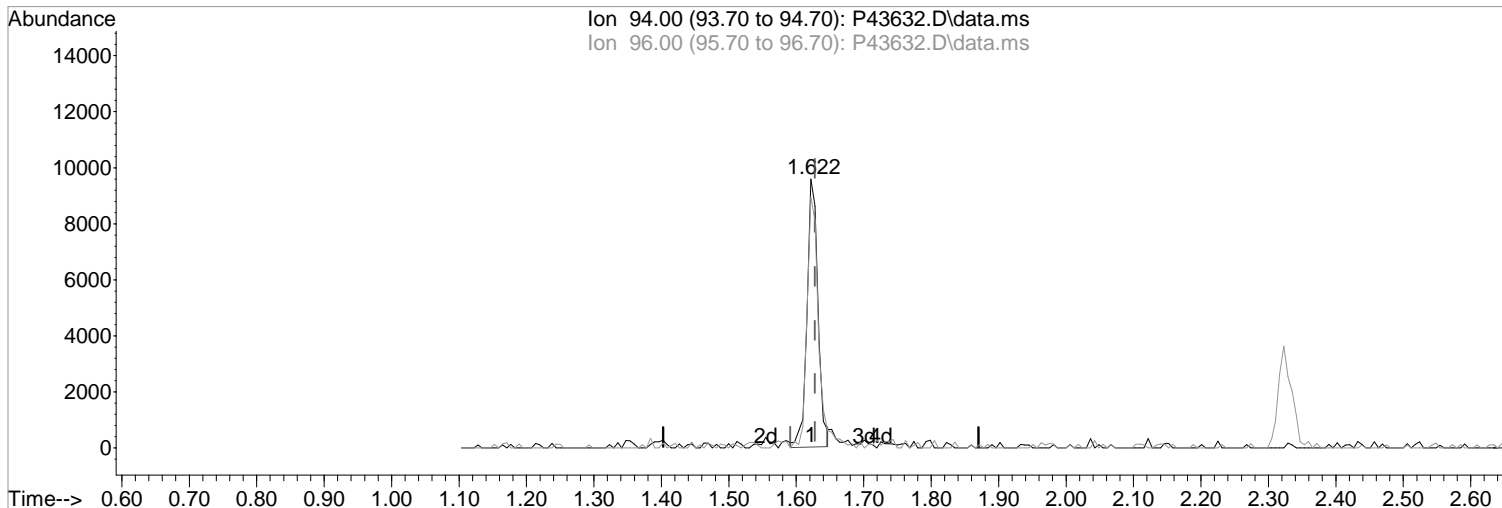
02/09/21

Ion	Exp%	Act%
94.00	100	100
96.00	88.30	93.15
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43632.D\data.ms

(5) Bromomethane (P)
1.622min (-0.006) 2.71 ppb
response 10780

Manual Integration:
Before

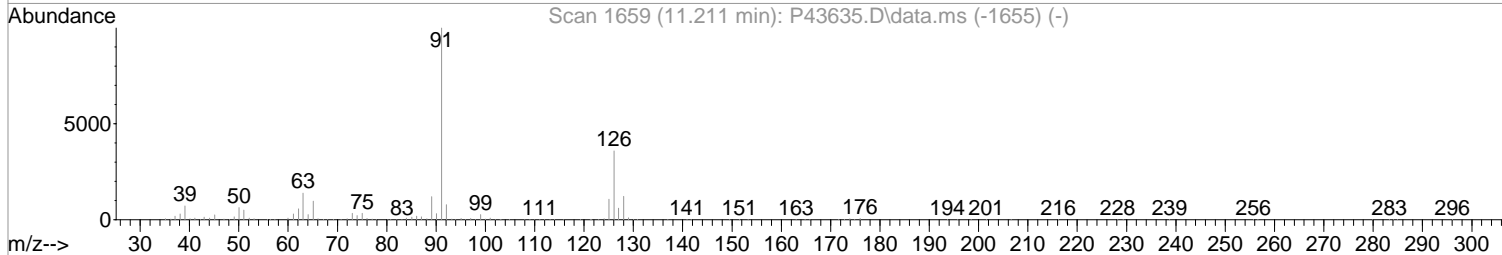
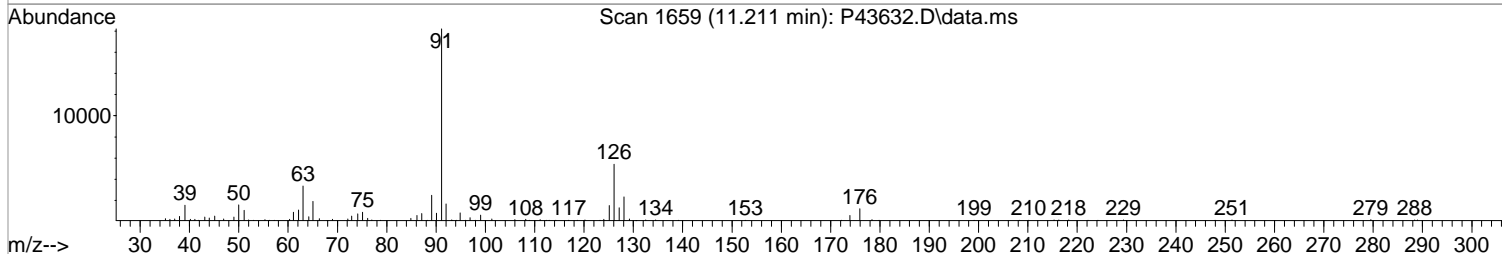
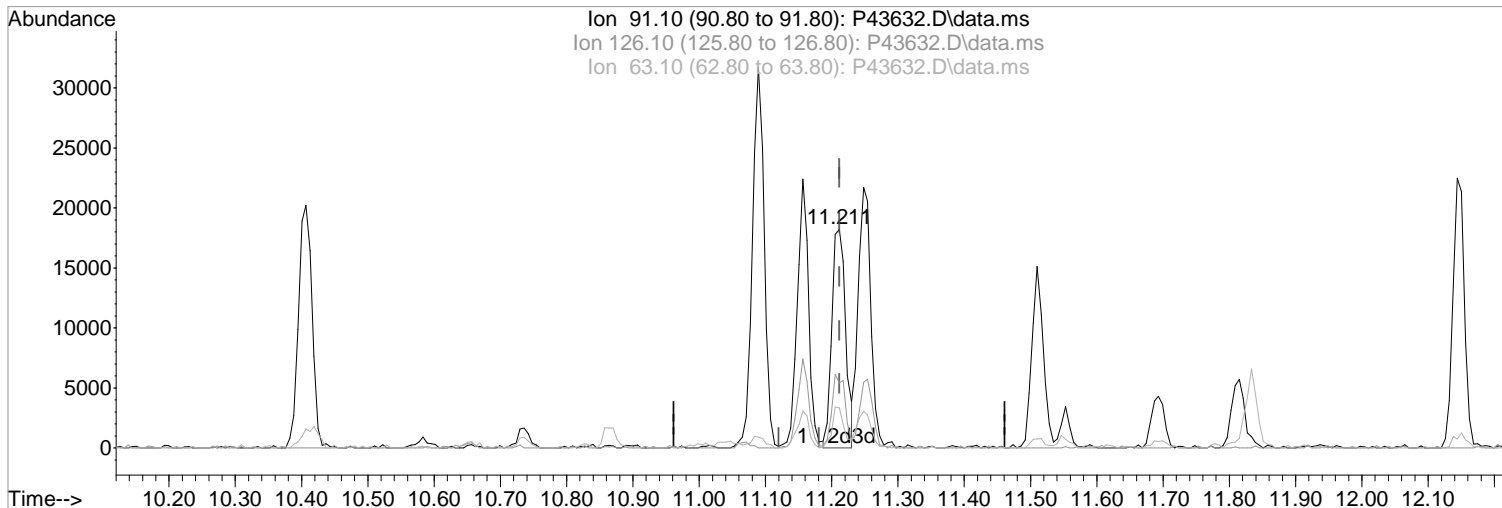
Ion	Exp%	Act%
94.00	100	100
96.00	88.30	93.15
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(97) 3-Chlorotoluene
11.211min (+0.000) 2.03 ppb m
response 26338

Manual Integration:
After
Wrong peak selected.

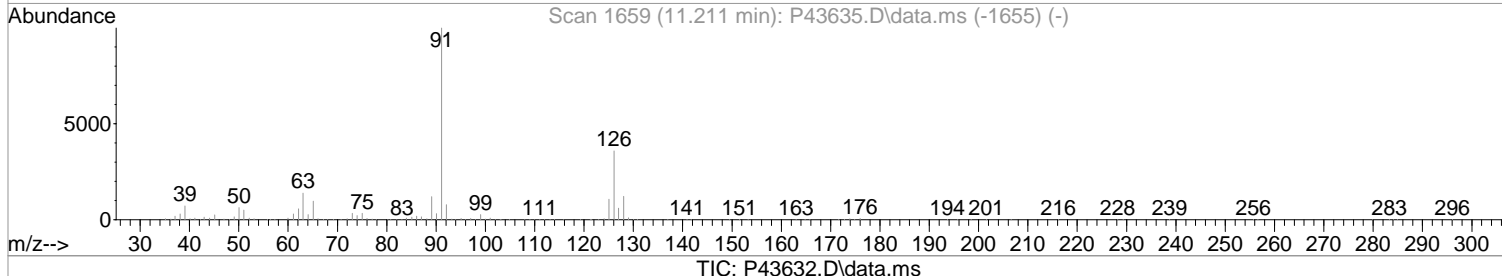
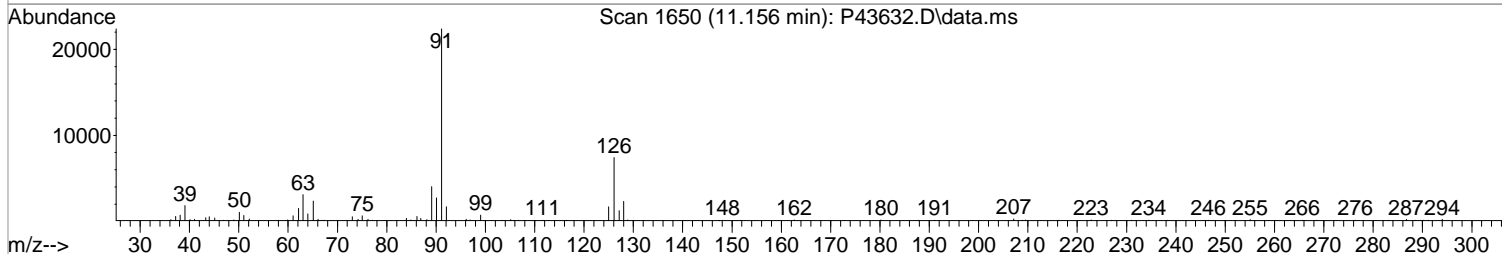
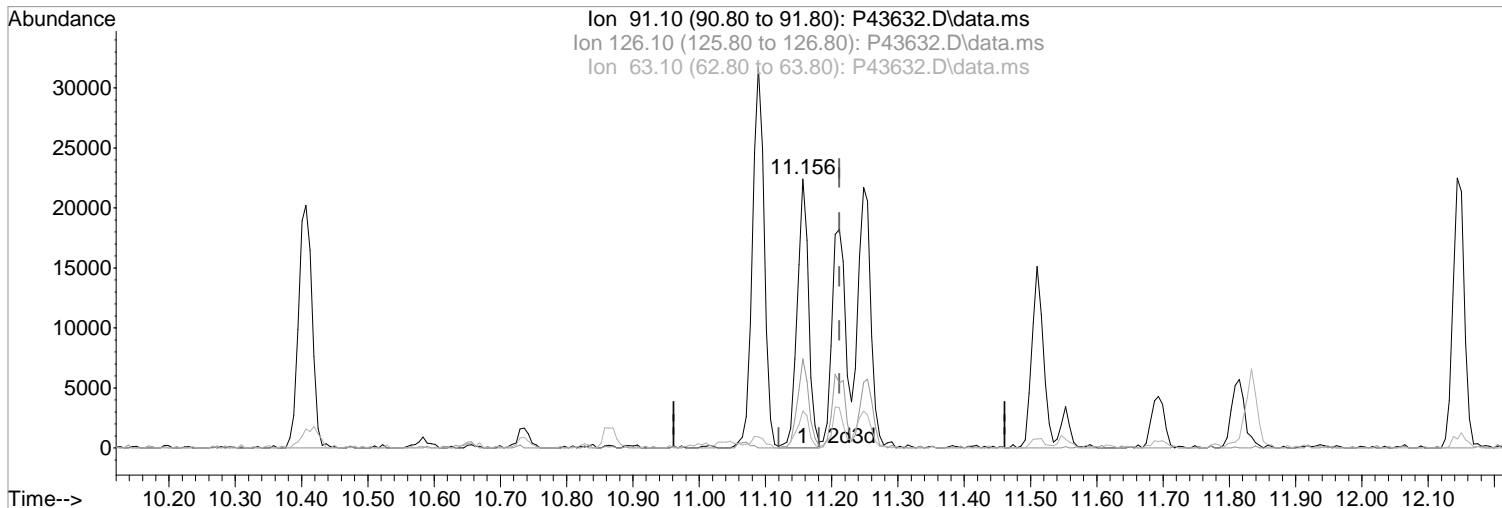
Ion	Exp%	Act%
91.10	100	100
126.10	35.80	29.74
63.10	13.80	18.41#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:11 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(97) 3-Chlorotoluene
11.156min (-0.055) 2.06 ppb
response 26747

Manual Integration:
Before

Ion	Exp%	Act%
91.10	100	100
126.10	35.80	33.11
63.10	13.80	13.76
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43632.D
 Acq On : 9 Feb 2021 12:54 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : WATER ICAL
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:27:57 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	333179	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	519586	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	480190	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	249340	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	31564	10.97	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	21.94%#	
48) surr1,1,2-dichloroetha...	5.847	65	40034	11.02	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	22.04%#	
65) SURR3,Toluene-d8	8.316	98	144164	11.41	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	22.82%#	
70) SURR2,BFB	10.864	95	53656	10.71	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	21.42%#	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.189	85	6991	1.68	ppb	99
3) Chloromethane	1.317	50	7462	2.01	ppb	82
4) Vinyl Chloride	1.396	62	10105	2.03	ppb	98
5) Bromomethane	1.622	94	11340m	2.86	ppb	
6) Chloroethane	1.701	64	6026	1.88	ppb	98
7) Freon 21	1.860	67	11255	1.95	ppb	92
8) Trichlorofluoromethane	1.896	101	9723	1.84	ppb	92
9) Diethyl Ether	2.134	59	5530	1.96	ppb	94
10) Freon 123a	2.146	67	7175	1.97	ppb	89
11) Freon 123	2.201	83	8320	1.98	ppb	94
12) Acrolein	2.256	56	8059	9.91	ppb	79
13) 1,1-Dicethene	2.323	96	5147	1.91	ppb	97
14) Freon 113	2.323	101	6036	1.85	ppb	86
15) Acetone	2.402	43	4809	3.17	ppb	84
16) 2-Propanol	2.530	45	14403	38.98	ppb	94
17) Iodomethane	2.469	142	2719	0.81	ppb	78
18) Carbon Disulfide	2.518	76	15201	1.89	ppb	100
19) Acetonitrile	2.658	40	2093m	10.86	ppb	
20) Allyl Chloride	2.664	76	3592	2.06	ppb	93
21) Methyl Acetate	2.701	43	7462	1.95	ppb	92
22) Methylene Chloride	2.792	84	6798	1.95	ppb	95
23) TBA	2.939	59	26921	38.84	ppb	96
24) Acrylonitrile	3.073	53	16330	9.63	ppb	91
25) Methyl-t-Butyl Ether	3.091	73	24057	2.04	ppb	99
26) trans-1,2-Dichloroethene	3.079	96	5814	1.91	ppb	95
28) 1,1-Dicethane	3.585	63	11252	1.99	ppb	81
29) Vinyl Acetate	3.688	86	1427	2.15	ppb	# 18
30) DIPE	3.695	45	18073	2.03	ppb	86
31) 2-Chloro-1,3-Butadiene	3.701	53	10046	2.05	ppb	98
32) ETBE	4.231	59	18891	1.88	ppb	95
33) 2,2-Dichloropropane	4.426	77	11377	2.04	ppb	89
34) cis-1,2-Dichloroethene	4.432	96	7317	2.00	ppb	96
35) 2-Butanone	4.530	43	4983	2.24	ppb	# 83
36) Propionitrile	4.633	54	7727	10.32	ppb	94
37) Bromochloromethane	4.841	130	4639	1.95	ppb	# 78
38) Methacrylonitrile	4.889	67	3591	1.84	ppb	# 70
39) Tetrahydrofuran	4.956	42	3627	2.38	ppb	# 65
40) Chloroform	5.017	83	11315	1.94	ppb	88
41) 1,1,1-Trichloroethane	5.298	97	11508m	2.07	ppb	

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43632.D
 Acq On : 9 Feb 2021 12:54 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : WATER ICAL
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:27:57 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	20186	1.93	ppb	90
44) Cyclohexane	5.347	41	6497	2.20	ppb	# 54
46) Carbontetrachloride	5.560	117	8777m	1.95	ppb	
47) 1,1-Dichloropropene	5.572	75	8885	1.91	ppb	82
49) Benzene	5.908	78	27245	1.97	ppb	95
50) 1,2-Dichloroethane	5.968	62	9824	2.04	ppb	97
51) Iso-Butyl Alcohol	5.956	43	9798	36.96	ppb	93
52) n-Heptane	6.346	43	7394	1.88	ppb	# 81
53) 1-Butanol	6.907	56	14677	80.59	ppb	91
54) Trichloroethene	6.834	130	6934	1.82	ppb	92
55) Methylcyclohexane	7.041	55	9383	2.09	ppb	84
56) 1,2-Diclpropane	7.133	63	6828	2.04	ppb	100
57) Dibromomethane	7.279	93	4764	1.97	ppb	79
58) 1,4-Dioxane	7.346	88	3479	39.96	ppb	76
59) Methyl Methacrylate	7.352	69	6297	1.98	ppb	92
60) Bromodichloromethane	7.499	83	8042	1.77	ppb	92
62) 2-Chloroethylvinyl Ether	7.907	63	4139	1.95	ppb	81
63) cis-1,3-Dichloropropene	8.035	75	10148	1.82	ppb	91
64) 4-Methyl-2-pentanone	8.249	43	9491	2.09	ppb	98
66) Toluene	8.383	91	30774	1.87	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	10578	1.95	ppb	90
68) Ethyl Methacrylate	8.797	69	10921	1.92	ppb	96
69) 1,1,2-Trichloroethane	8.858	97	7379	2.04	ppb	90
72) Tetrachloroethene	8.962	164	5695	1.88	ppb	92
73) 2-Hexanone	9.145	43	6080	1.82	ppb	87
74) 1,3-Dichloropropene	9.029	76	11758	2.01	ppb	86
75) Dibromochloromethane	9.248	129	6404	1.88	ppb	80
76) N-Butyl Acetate	9.291	43	10908	1.75	ppb	87
77) 1,2-Dibromoethane	9.346	107	7004	1.86	ppb	# 67
78) Chlorobenzene	9.827	112	20897	1.94	ppb	94
79) 3-CBTF	9.834	180	11596	1.99	ppb	90
80) 4-CBTF	9.895	180	9178	1.79	ppb	94
81) 1,1,1,2-Tetrachloroethane	9.913	131	7322	2.01	ppb	91
82) Ethylbenzene	9.937	106	10849	1.83	ppb	95
83) (m+p)Xylene	10.047	106	25984	3.75	ppb	90
84) o-Xylene	10.407	106	13691	1.93	ppb	93
85) Styrene	10.425	104	22614	1.92	ppb	91
87) Bromoform	10.590	173	3632	1.59	ppb	98
88) 2-CBTF	10.657	180	11100	2.03	ppb	87
89) Isopropylbenzene	10.736	105	34746	2.00	ppb	97
90) Cyclohexanone	10.821	55	32270	37.06	ppb	96
91) trans-1,4-Dichloro-2-B...	11.059	53	2874	1.92	ppb	88
92) 1,1,2,2-Tetrachloroethane	11.010	83	11154	2.06	ppb	97
93) Bromobenzene	10.992	156	8394	1.90	ppb	94
94) 1,2,3-Trichloropropane	11.041	110	3533	1.86	ppb	98
95) n-Propylbenzene	11.089	91	39707	1.98	ppb	94
96) 2-Chlorotoluene	11.156	91	26169	2.09	ppb	98
97) 3-Chlorotoluene	11.211	91	26338m	2.03	ppb	
98) 4-Chlorotoluene	11.248	91	28783	2.00	ppb	94
99) 1,3,5-Trimethylbenzene	11.242	105	29267	1.92	ppb	95
100) tert-Butylbenzene	11.516	119	27271	2.06	ppb	92
101) 1,2,4-Trimethylbenzene	11.553	105	29364	1.93	ppb	98
102) 3,4-DCBTF	11.614	214	8595	1.96	ppb	91
103) sec-Butylbenzene	11.693	105	37590	2.00	ppb	100
104) p-Isopropyltoluene	11.815	119	32781	1.99	ppb	95
105) 1,3-Dclbenz	11.784	146	17750	1.96	ppb	94

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43632.D
 Acq On : 9 Feb 2021 12:54 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : WATER ICAL
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

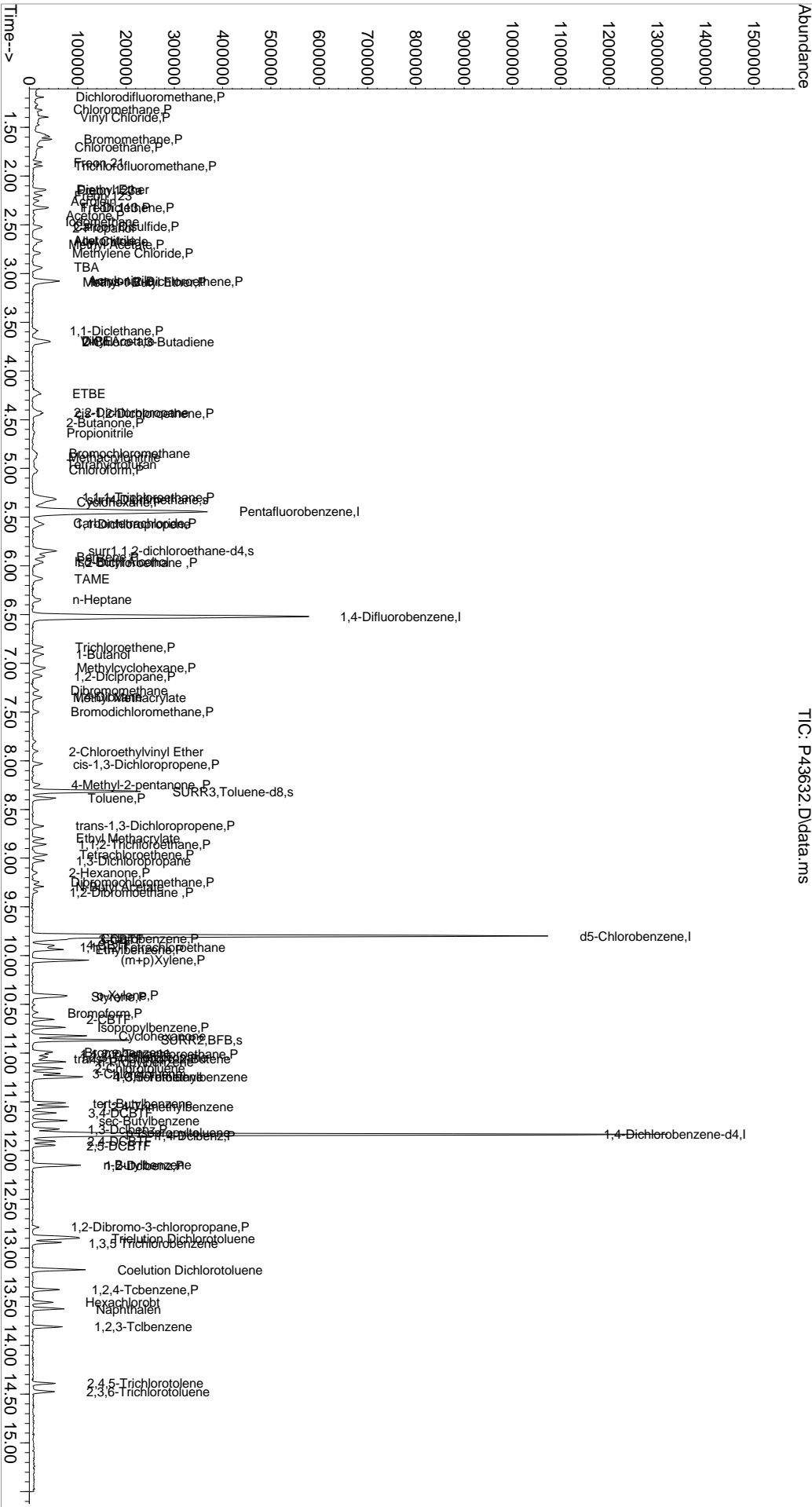
Quant Time: Feb 09 16:27:57 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.851	146	17815	1.86	ppb	88
107) 2,4-DCBTF	11.906	214	8434	2.05	ppb	94
108) 2,5-DCBTF	11.949	214	8451	1.84	ppb	96
109) n-Butylbenzene	12.144	91	27082	1.82	ppb	95
110) 1,2-Dclbenz	12.156	146	18030	1.96	ppb	95
111) 1,2-Dibromo-3-chloropr...	12.784	157	2685	1.83	ppb #	81
112) Trielution Dichlorotol...	12.900	125	47802	5.86	ppb	94
113) 1,3,5 Trichlorobenzene	12.949	180	13257	2.00	ppb #	90
114) Coelution Dichlorotoluene	13.223	125	34915	3.88	ppb	96
115) 1,2,4-Tcbenzene	13.430	180	11822	1.70	ppb	84
116) Hexachlorobt	13.558	225	5562	1.82	ppb	95
117) Naphthalen	13.626	128	36833	1.81	ppb	93
118) 1,2,3-Tclbenzene	13.808	180	13266	1.92	ppb	92
119) 2,4,5-Trichlorotolene	14.388	159	9074	1.80	ppb	86
120) 2,3,6-Trichlorotoluene	14.473	159	9190	1.90	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 02/09/21
Data Path : I:\ACQDATA\msvoa12\Data\020921\
Data File : P43632.D
Acq On : 9 Feb 2021 12:54 pm
Operator : K.Ruest
Sample : 2.0ppb
Disc : WATER ICAL
PALS Vial : 4 Sample Multiplier: 1
Inst : MSVOA-12

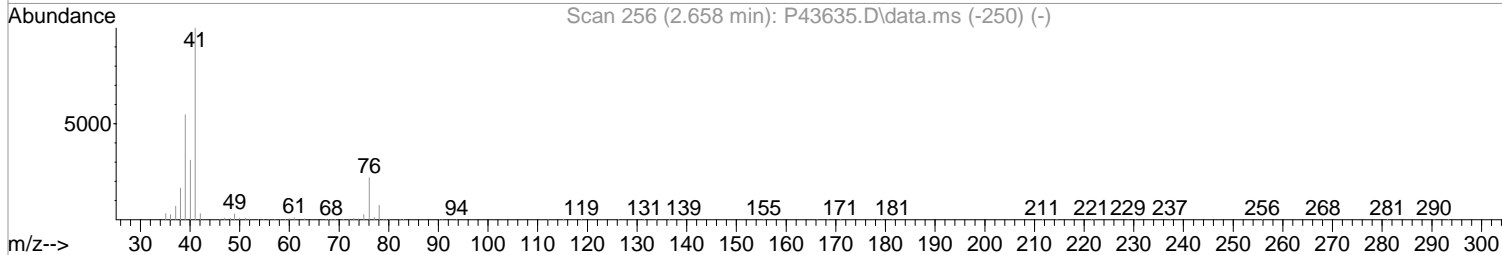
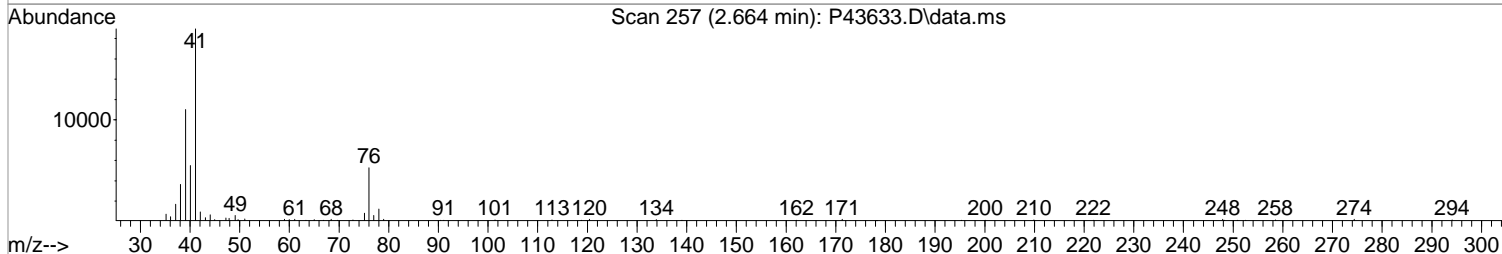
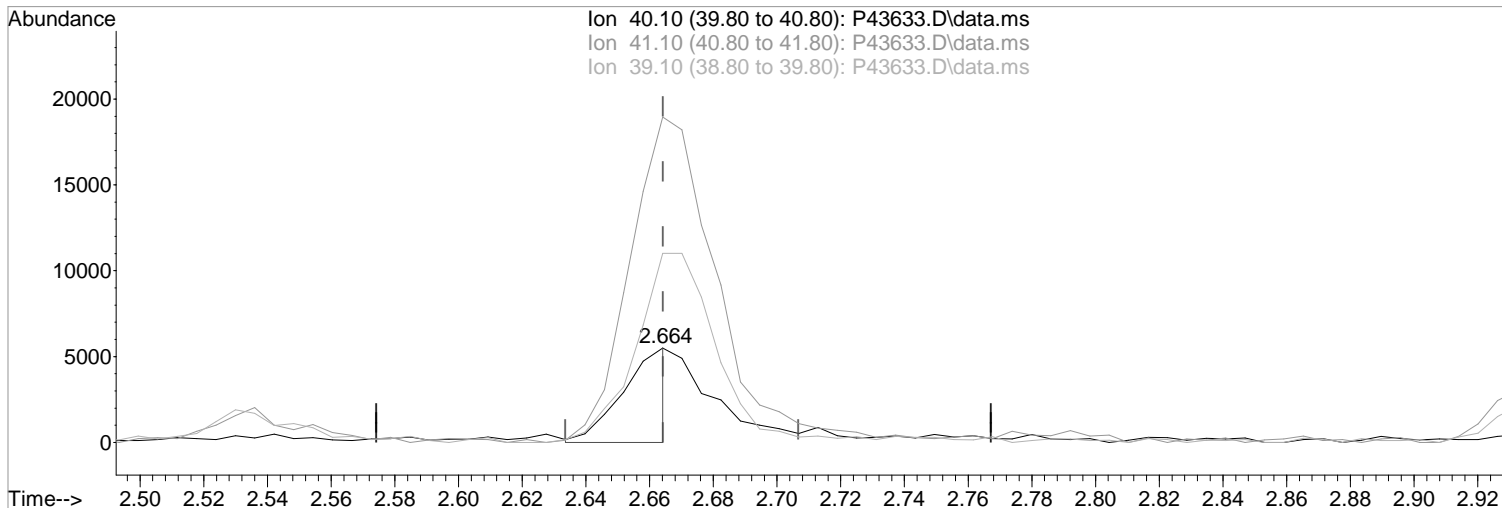
Quant Time: Feb 09 16:27:57 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QIast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43633.D
Acq On : 9 Feb 2021 1:16 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:14 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43633.D\data.ms

(19) Acetonitrile

2.664min (-0.000) 28.92 ppb m

response 5590

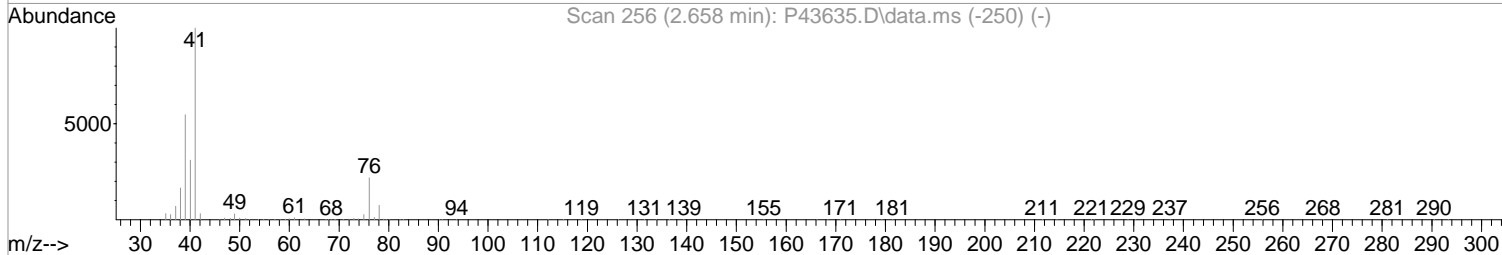
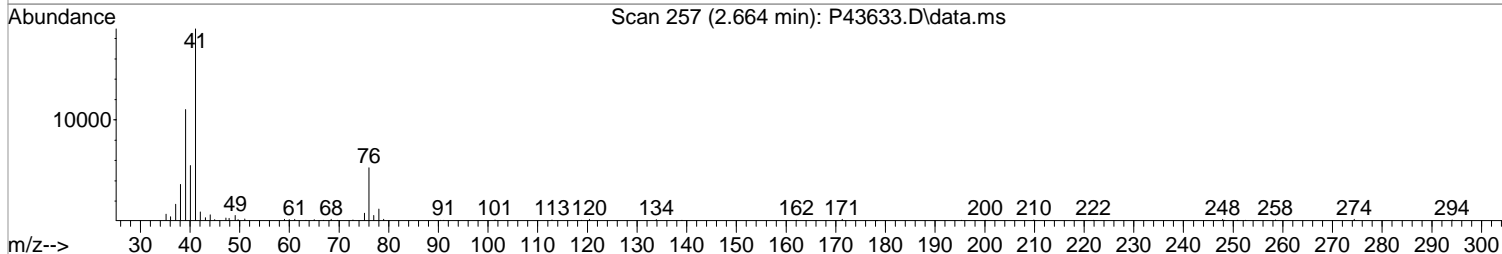
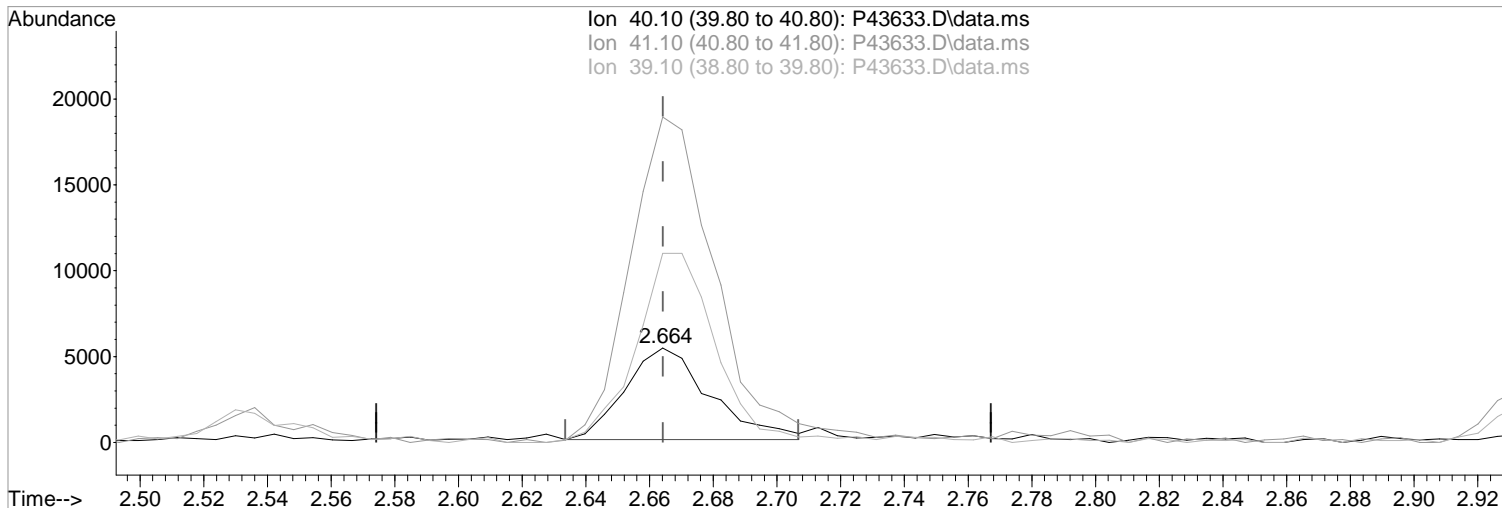
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	345.42#
39.10	175.80	200.75#
0.00	0.00	0.00

Manual Integration:
After
Poor integration.
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43633.D
Acq On : 9 Feb 2021 1:16 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:14 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43633.D\data.ms

(19) Acetonitrile
2.664min (-0.000) 51.20 ppb
response 9896

Manual Integration:
Before

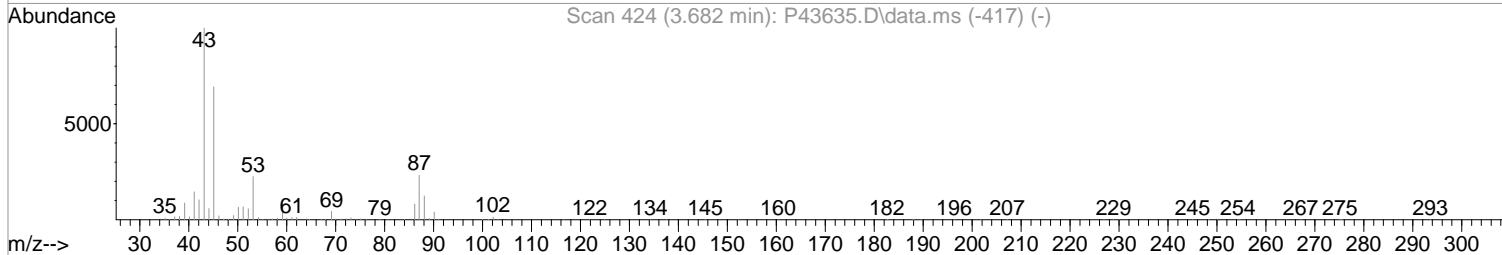
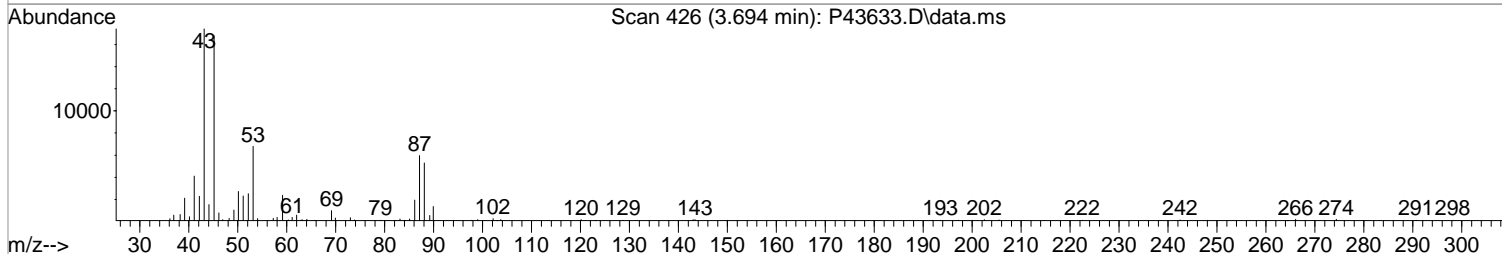
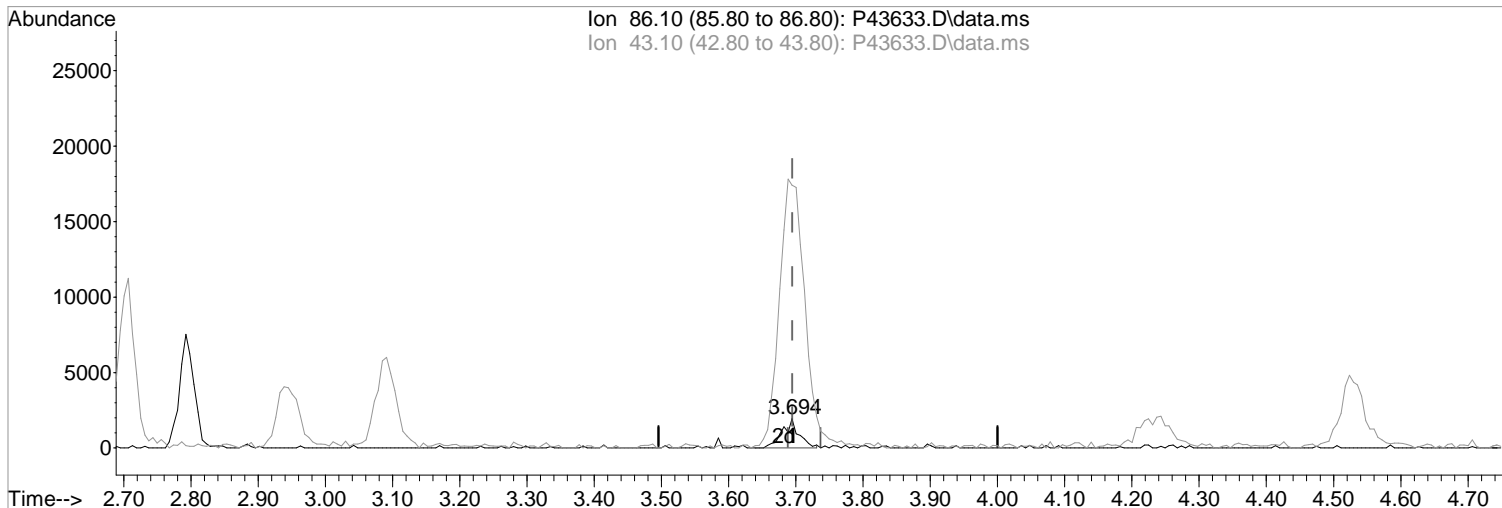
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	345.42#
39.10	175.80	200.75#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43633.D
Acq On : 9 Feb 2021 1:16 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:14 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43633.D\data.ms

(29) Vinyl Acetate
3.694min (-0.000) 5.02 ppb m
response 3345

Manual Integration:

After
Split Peak

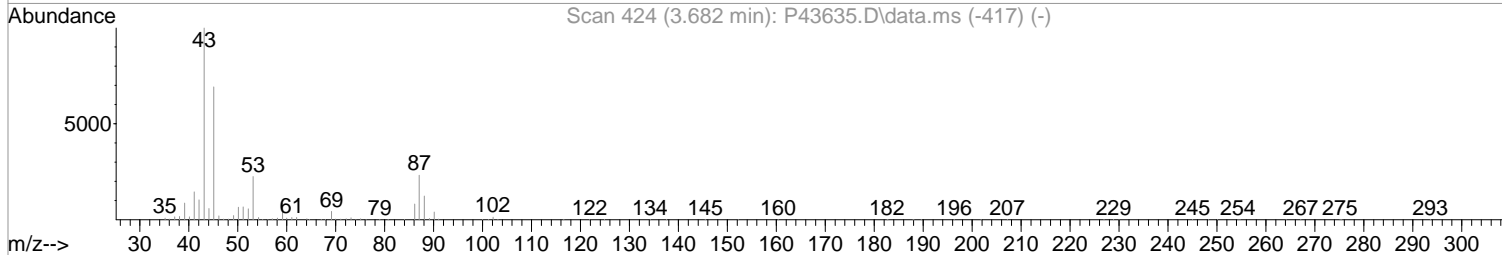
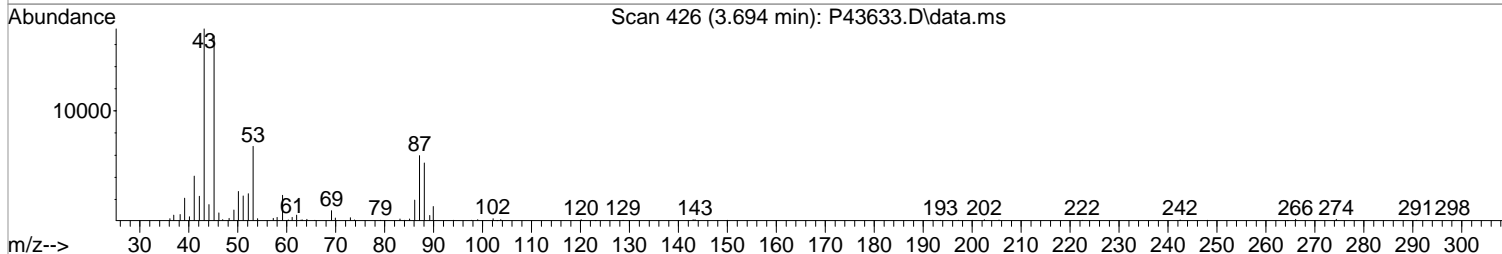
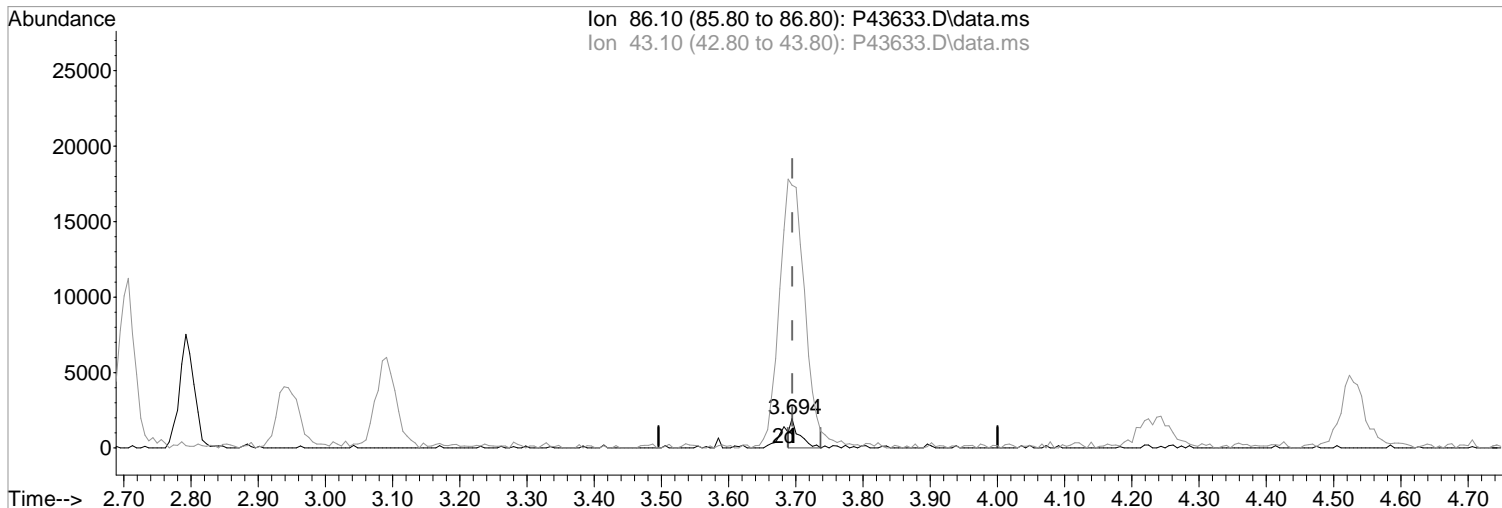
Ion	Exp%	Act%
86.10	100	100
43.10	1236.80	902.80#
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43633.D
Acq On : 9 Feb 2021 1:16 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:14 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(29) Vinyl Acetate
3.694min (-0.000) 2.70 ppb
response 1801

Manual Integration:
Before

Ion	Exp%	Act%
86.10	100	100
43.10	1236.80	902.80#
0.00	0.00	0.00
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43633.D
 Acq On : 9 Feb 2021 1:16 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : WATER ICAL
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:29:17 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	334243	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	518497	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	477576	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	246436	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	29720	10.36	ppb	0.00
Spiked Amount	50.000	Range	80 - 116	Recovery	=	20.72%#
48) surr1,1,2-dichloroetha...	5.852	65	37346	10.31	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	20.62%#
65) SURR3,Toluene-d8	8.315	98	132331	10.50	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	21.00%#
70) SURR2,BFB	10.864	95	50314	10.06	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	20.12%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.195	85	18240	4.37	ppb	98
3) Chloromethane	1.323	50	16033	4.30	ppb	92
4) Vinyl Chloride	1.396	62	23286	4.67	ppb	93
5) Bromomethane	1.622	94	23508	5.90	ppb	94
6) Chloroethane	1.707	64	15126	4.72	ppb	93
7) Freon 21	1.859	67	35245	6.08	ppb	96
8) Trichlorofluoromethane	1.902	101	31202	5.90	ppb	91
9) Diethyl Ether	2.140	59	14464	5.12	ppb	94
10) Freon 123a	2.146	67	17273	4.74	ppb	95
11) Freon 123	2.201	83	20673	4.91	ppb	97
12) Acrolein	2.256	56	19432	23.81	ppb	98
13) 1,1-Dicethene	2.329	96	12278	4.55	ppb	# 81
14) Freon 113	2.323	101	15502	4.73	ppb	95
15) Acetone	2.396	43	9434	6.19	ppb	92
16) 2-Propanol	2.536	45	35465	95.67	ppb	92
17) Iodomethane	2.469	142	8250	2.44	ppb	94
18) Carbon Disulfide	2.518	76	39667	4.93	ppb	99
19) Acetonitrile	2.664	40	5590m	28.92	ppb	
20) Allyl Chloride	2.664	76	8509	4.87	ppb	95
21) Methyl Acetate	2.707	43	18401	4.79	ppb	96
22) Methylene Chloride	2.792	84	16873	4.81	ppb	95
23) TBA	2.945	59	67316	96.81	ppb	99
24) Acrylonitrile	3.079	53	41237	24.25	ppb	96
25) Methyl-t-Butyl Ether	3.091	73	57786	4.87	ppb	99
26) trans-1,2-Dichloroethene	3.079	96	13600	4.46	ppb	94
28) 1,1-Dicethane	3.591	63	28112	4.96	ppb	98
29) Vinyl Acetate	3.694	86	3345m	5.02	ppb	
30) DIPE	3.694	45	43858	4.91	ppb	97
31) 2-Chloro-1,3-Butadiene	3.713	53	24293	4.94	ppb	89
32) ETBE	4.231	59	49932	4.97	ppb	96
33) 2,2-Dichloropropane	4.420	77	24643	4.41	ppb	91
34) cis-1,2-Dichloroethene	4.444	96	17448	4.76	ppb	86
35) 2-Butanone	4.523	43	12716	5.70	ppb	90
36) Propionitrile	4.639	54	18722	24.93	ppb	93
37) Bromochloromethane	4.847	130	11796	4.93	ppb	84
38) Methacrylonitrile	4.883	67	10002	5.11	ppb	87
39) Tetrahydrofuran	4.956	42	8437	5.51	ppb	73
40) Chloroform	5.036	83	28948	4.95	ppb	# 78
41) 1,1,1-Trichloroethane	5.298	97	27402	4.92	ppb	96

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43633.D
 Acq On : 9 Feb 2021 1:16 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : WATER ICAL
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:29:17 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	54146	5.16	ppb	95
44) Cyclohexane	5.353	41	15302	5.20	ppb	92
46) Carbontetrachloride	5.560	117	21775	4.84	ppb	99
47) 1,1-Dichloropropene	5.584	75	22538	4.85	ppb	91
49) Benzene	5.901	78	67956	4.93	ppb	95
50) 1,2-Dichloroethane	5.968	62	25510	5.30	ppb	94
51) Iso-Butyl Alcohol	5.962	43	23797	89.95	ppb	94
52) n-Heptane	6.352	43	18773	4.78	ppb	95
53) 1-Butanol	6.907	56	42049	231.38	ppb	94
54) Trichloroethene	6.834	130	18800	4.96	ppb	# 86
55) Methylcyclohexane	7.053	55	22054	4.91	ppb	84
56) 1,2-Diclpropane	7.133	63	17109	5.13	ppb	94
57) Dibromomethane	7.279	93	11654	4.82	ppb	89
58) 1,4-Dioxane	7.352	88	9290	106.92	ppb	96
59) Methyl Methacrylate	7.352	69	15541	4.89	ppb	100
60) Bromodichloromethane	7.498	83	21962	4.85	ppb	98
62) 2-Chloroethylvinyl Ether	7.901	63	10200	4.83	ppb	89
63) cis-1,3-Dichloropropene	8.029	75	26906	4.83	ppb	96
64) 4-Methyl-2-pentanone	8.242	43	22252	4.91	ppb	93
66) Toluene	8.389	91	77813	4.74	ppb	95
67) trans-1,3-Dichloropropene	8.675	75	25280	4.66	ppb	95
68) Ethyl Methacrylate	8.797	69	26791	4.73	ppb	99
69) 1,1,2-Trichloroethane	8.864	97	17464	4.85	ppb	89
72) Tetrachloroethene	8.968	164	14777	4.89	ppb	94
73) 2-Hexanone	9.145	43	17392	5.24	ppb	94
74) 1,3-Dichloropropene	9.029	76	28069	4.82	ppb	96
75) Dibromochloromethane	9.248	129	15730	4.63	ppb	98
76) N-Butyl Acetate	9.291	43	31102	5.01	ppb	96
77) 1,2-Dibromoethane	9.340	107	18205	4.86	ppb	98
78) Chlorobenzene	9.827	112	51847	4.83	ppb	98
79) 3-CBTF	9.839	180	29229	5.03	ppb	97
80) 4-CBTF	9.894	180	24436	4.78	ppb	98
81) 1,1,1,2-Tetrachloroethane	9.913	131	17038	4.71	ppb	94
82) Ethylbenzene	9.937	106	29918	5.08	ppb	# 82
83) (m+p)Xylene	10.047	106	69908	10.15	ppb	98
84) o-Xylene	10.406	106	36184	5.12	ppb	94
85) Styrene	10.425	104	57047	4.86	ppb	97
87) Bromoform	10.583	173	9732	4.32	ppb	87
88) 2-CBTF	10.656	180	28663	5.31	ppb	90
89) Isopropylbenzene	10.736	105	93629	5.45	ppb	93
90) Cyclohexanone	10.821	55	88651	103.00	ppb	100
91) trans-1,4-Dichloro-2-B...	11.065	53	6234	4.21	ppb	99
92) 1,1,2,2-Tetrachloroethane	11.016	83	26057	4.88	ppb	89
93) Bromobenzene	10.992	156	22559	5.15	ppb	94
94) 1,2,3-Trichloropropane	11.040	110	9374	4.99	ppb	98
95) n-Propylbenzene	11.089	91	105187	5.30	ppb	94
96) 2-Chlorotoluene	11.156	91	65248	5.27	ppb	98
97) 3-Chlorotoluene	11.211	91	66653	5.20	ppb	99
98) 4-Chlorotoluene	11.254	91	73717	5.18	ppb	92
99) 1,3,5-Trimethylbenzene	11.242	105	76783	5.11	ppb	96
100) tert-Butylbenzene	11.510	119	67500	5.17	ppb	98
101) 1,2,4-Trimethylbenzene	11.553	105	75649	5.04	ppb	99
102) 3,4-DCBTF	11.620	214	22133	5.12	ppb	91
103) sec-Butylbenzene	11.693	105	97434	5.24	ppb	96
104) p-Isopropyltoluene	11.815	119	83312	5.12	ppb	97
105) 1,3-Dclbenz	11.778	146	45563	5.09	ppb	94

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43633.D
 Acq On : 9 Feb 2021 1:16 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : WATER ICAL
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

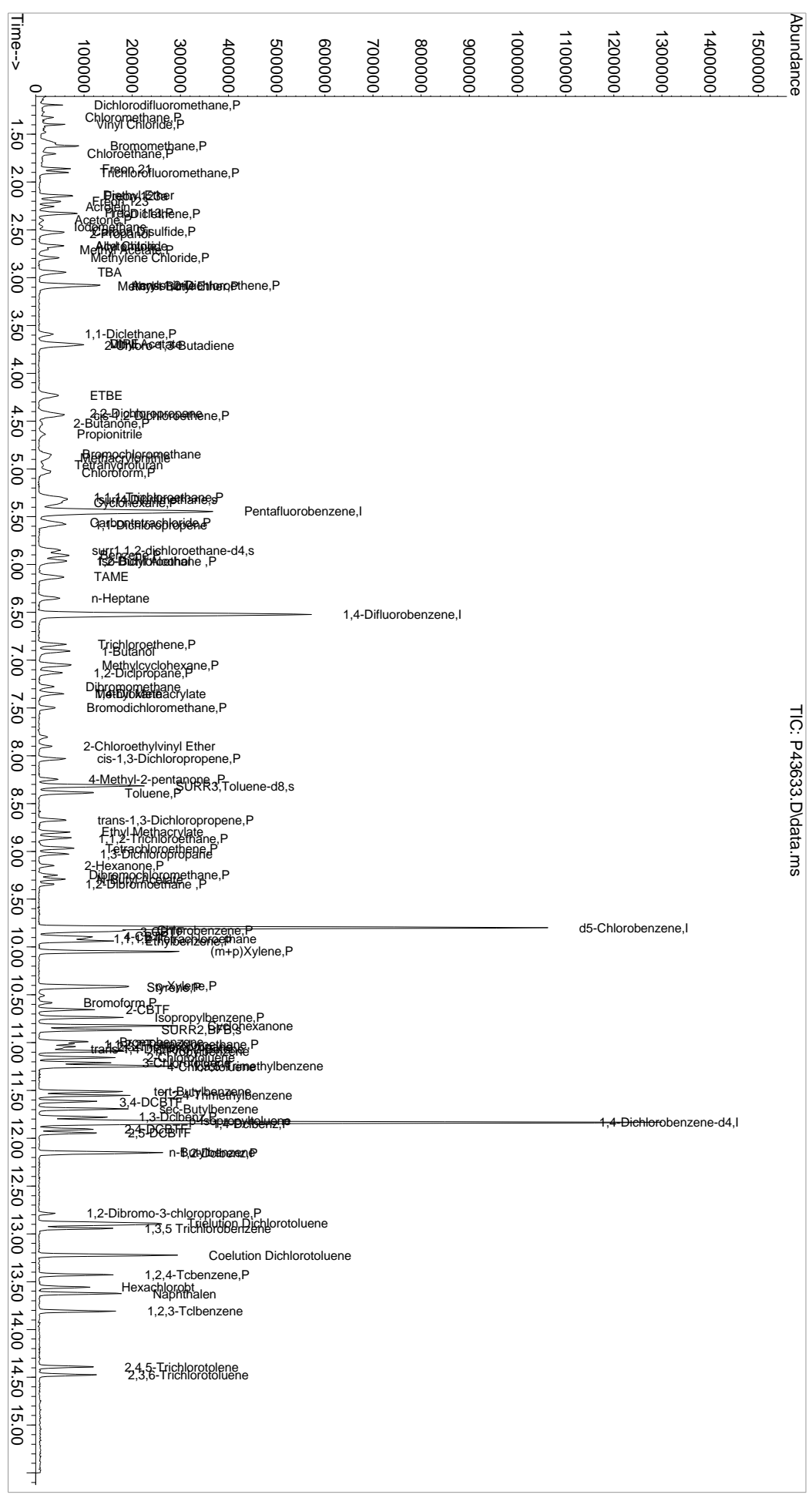
Quant Time: Feb 09 16:29:17 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.851	146	46295	4.90	ppb	96
107) 2,4-DCBTF	11.906	214	18835	4.64	ppb	95
108) 2,5-DCBTF	11.943	214	21887	4.81	ppb	96
109) n-Butylbenzene	12.144	91	71972	4.88	ppb	96
110) 1,2-Dclbenz	12.156	146	46092	5.06	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.784	157	7006	4.82	ppb	95
112) Trielution Dichlorotol...	12.888	125	125251	15.53	ppb	90
113) 1,3,5 Trichlorobenzene	12.943	180	32693	4.99	ppb	96
114) Coelution Dichlorotoluene	13.223	125	91728	10.30	ppb	99
115) 1,2,4-Tcbenzene	13.430	180	34029	4.96	ppb	96
116) Hexachlorobt	13.558	225	14872	4.91	ppb	97
117) Naphthalen	13.625	128	105121	5.23	ppb	97
118) 1,2,3-Tclbenzene	13.808	180	33964	4.96	ppb	91
119) 2,4,5-Trichlorotolene	14.394	159	23330	4.69	ppb	95
120) 2,3,6-Trichlorotoluene	14.473	159	22985	4.82	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

02/09/21
1st

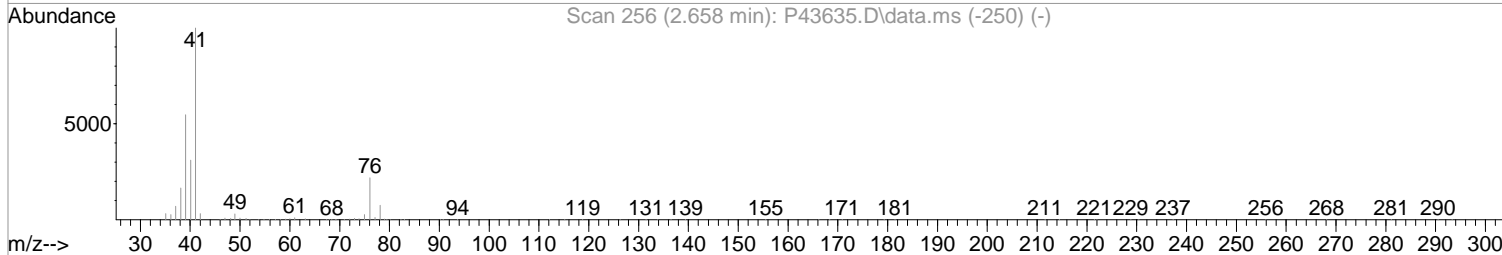
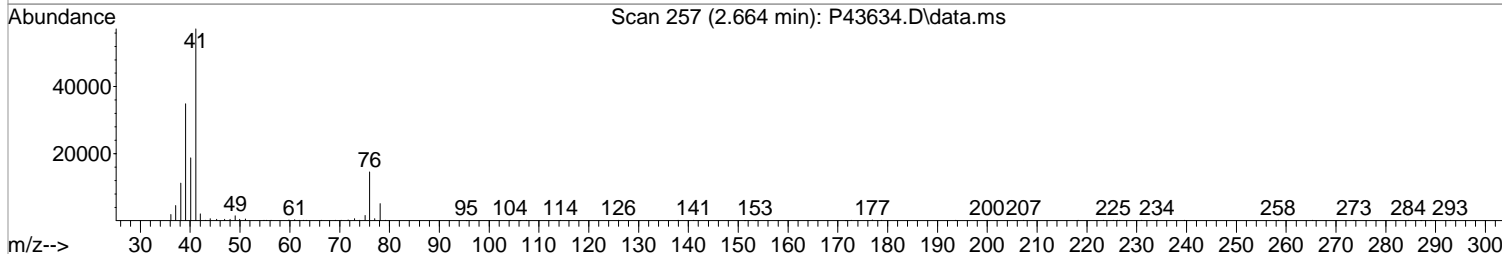
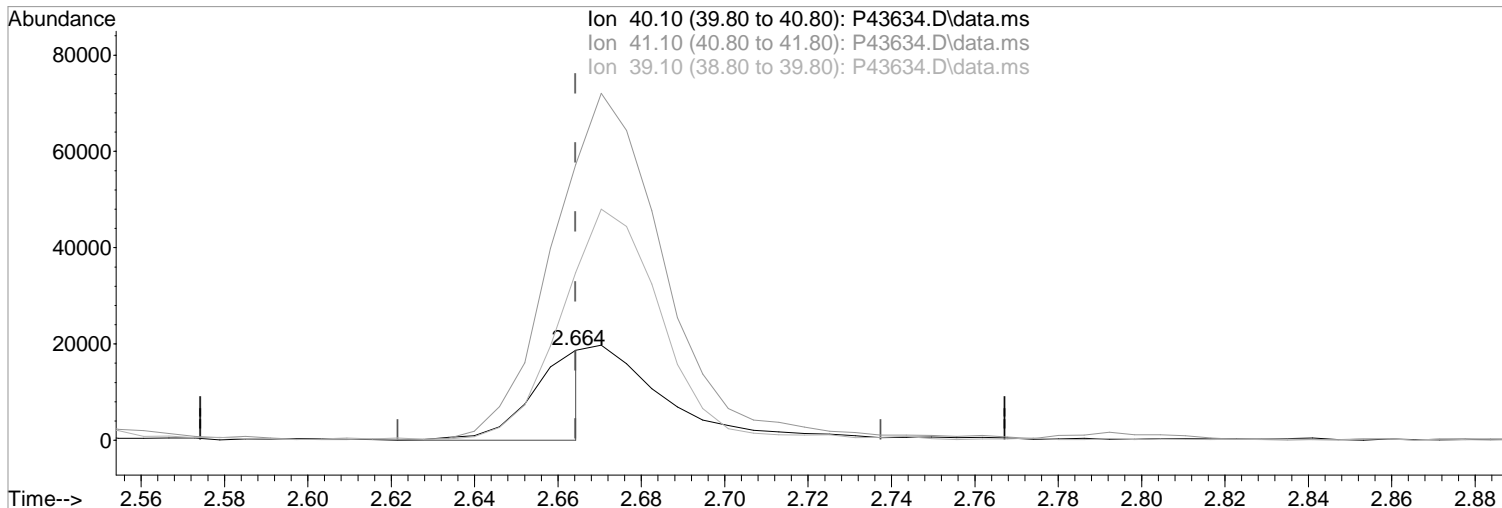
Data Path : I:\ACQDATA\msvoa12\Data\020921\
Data File : P43633.D
Acq On : 9 Feb 2021 1:16 pm
Operator : K.Ruest
Sample : 5.0ppb
Inst : MSVOA-12
Disc : WATER ICAL
PALS Vial : 5 Sample Multiplier: 1
Quant Time: Feb 09 16:29:17 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Qlast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43634.D
Acq On : 9 Feb 2021 1:38 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:17 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43634.D\data.ms

(19) Acetonitrile

2.664min (+0.000) 87.98 ppb m

response 16820

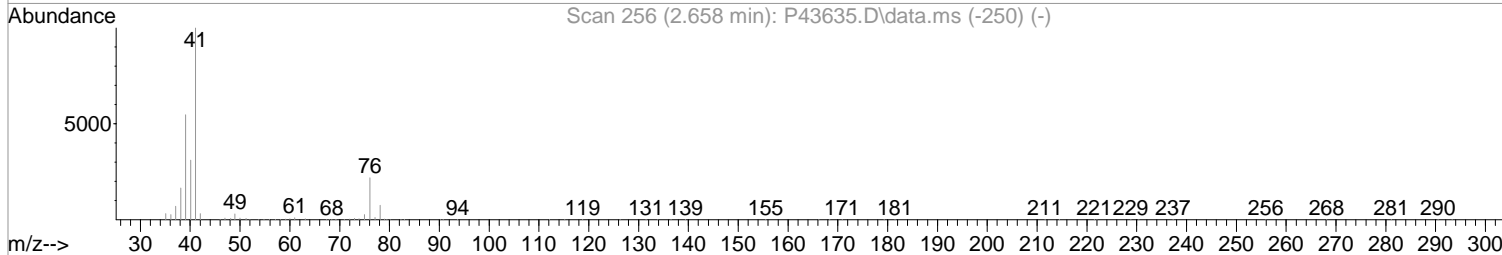
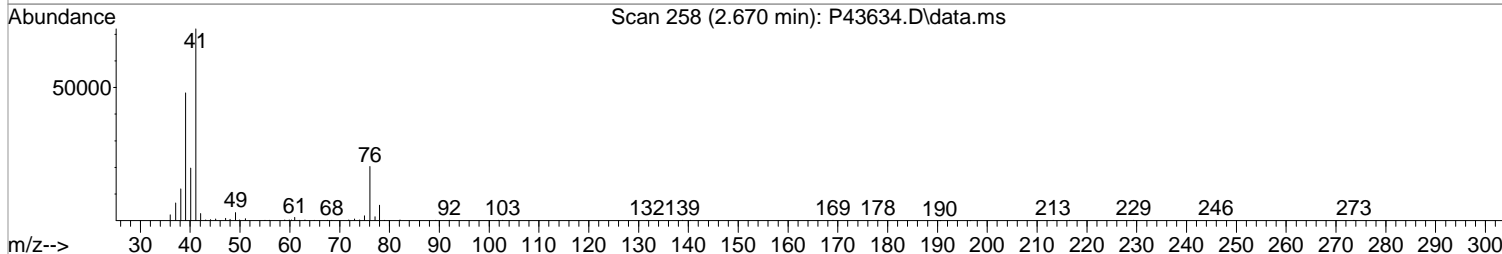
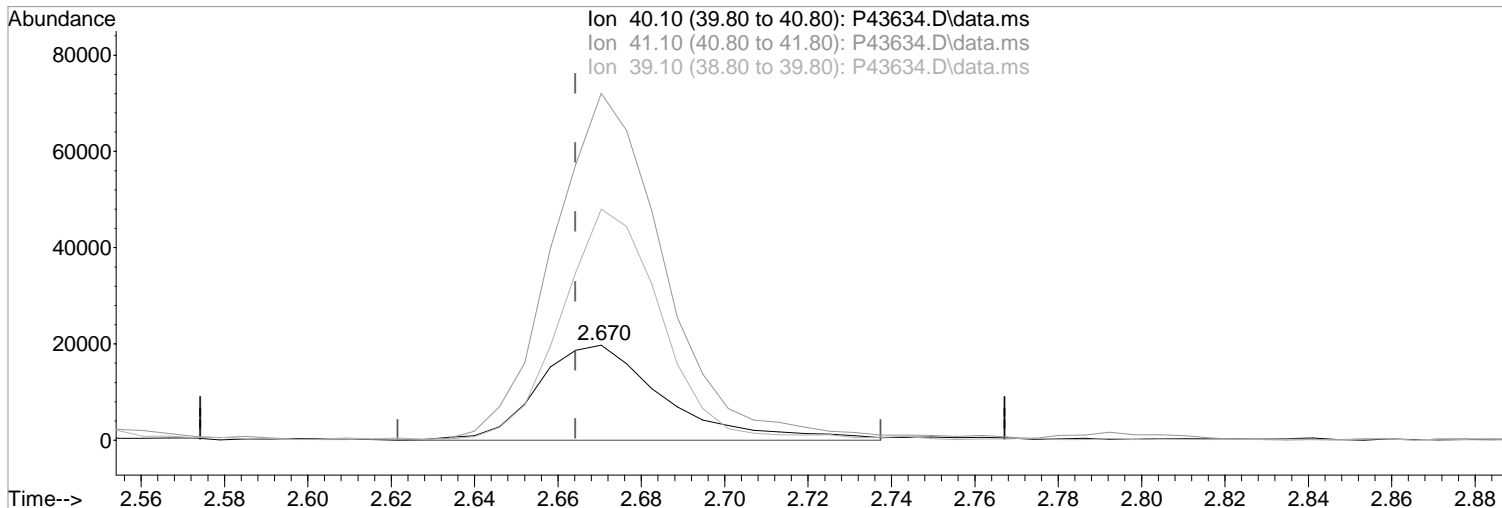
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	305.85
39.10	175.80	186.20
0.00	0.00	0.00

Manual Integration:
After
Poor integration.
02/09/21

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43634.D
Acq On : 9 Feb 2021 1:38 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:17 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43634.D\data.ms

(19) Acetonitrile
2.670min (+0.006) 219.00 ppb
response 41870

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	321.20	365.21#
39.10	175.80	243.19#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43634.D
 Acq On : 9 Feb 2021 1:38 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : WATER ICAL
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:31:08 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	330625	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	511321	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	479236	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	250898	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	52467	18.54	ppb	0.00
Spiked Amount	50.000	Range	80 - 116	Recovery	=	37.08%#
48) surr1,1,2-dichloroetha...	5.853	65	66333	18.56	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	37.12%#
65) SURR3,Toluene-d8	8.316	98	233698	18.80	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	37.60%#
70) SURR2,BFB	10.870	95	88796	18.01	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	36.02%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.195	85	86175	20.86	ppb	96
3) Chloromethane	1.329	50	75771	20.53	ppb	94
4) Vinyl Chloride	1.402	62	102435	20.78	ppb	100
5) Bromomethane	1.634	94	95297	24.19	ppb	97
6) Chloroethane	1.713	64	63602	20.05	ppb	98
7) Freon 21	1.866	67	111901	19.52	ppb	100
8) Trichlorofluoromethane	1.902	101	103612	19.81	ppb	96
9) Diethyl Ether	2.146	59	53165	19.03	ppb	89
10) Freon 123a	2.152	67	73062	20.25	ppb	96
11) Freon 123	2.207	83	82340	19.79	ppb	97
12) Acrolein	2.262	56	80647	99.92	ppb	95
13) 1,1-Dicethene	2.335	96	50503	18.94	ppb	98
14) Freon 113	2.335	101	61604	18.99	ppb	91
15) Acetone	2.402	43	28950	19.21	ppb	97
16) 2-Propanol	2.536	45	139184	379.59	ppb	99
17) Iodomethane	2.469	142	51310	15.36	ppb	96
18) Carbon Disulfide	2.524	76	152346	19.13	ppb	97
19) Acetonitrile	2.664	40	16820m	87.98	ppb	
20) Allyl Chloride	2.670	76	33546	19.39	ppb	# 93
21) Methyl Acetate	2.707	43	72349	19.03	ppb	99
22) Methylene Chloride	2.798	84	67776	19.55	ppb	96
23) TBA	2.945	59	271765	395.10	ppb	97
24) Acrylonitrile	3.079	53	166256	98.83	ppb	88
25) Methyl-t-Butyl Ether	3.091	73	240554	20.51	ppb	99
26) trans-1,2-Dichloroethene	3.085	96	60378	20.00	ppb	95
28) 1,1-Dicethane	3.597	63	112769	20.12	ppb	95
29) Vinyl Acetate	3.695	86	11866	17.99	ppb	97
30) DIPE	3.701	45	162602	18.41	ppb	94
31) 2-Chloro-1,3-Butadiene	3.707	53	96896	19.90	ppb	99
32) ETBE	4.231	59	192068	19.31	ppb	97
33) 2,2-Dichloropropane	4.432	77	107091	19.39	ppb	98
34) cis-1,2-Dichloroethene	4.450	96	72640	20.04	ppb	94
35) 2-Butanone	4.518	43	41503	18.80	ppb	86
36) Propionitrile	4.639	54	72474	97.55	ppb	91
37) Bromochloromethane	4.847	130	47610	20.12	ppb	87
38) Methacrylonitrile	4.889	67	40073	20.72	ppb	95
39) Tetrahydrofuran	4.950	42	29837	19.70	ppb	87
40) Chloroform	5.042	83	117759	20.36	ppb	95
41) 1,1,1-Trichloroethane	5.304	97	108269	19.64	ppb	97

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43634.D
 Acq On : 9 Feb 2021 1:38 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : WATER ICAL
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:31:08 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	201767	19.44	ppb	98
44) Cyclohexane	5.365	41	63286	21.80	ppb	96
46) Carbontetrachloride	5.566	117	90183	20.34	ppb	98
47) 1,1-Dichloropropene	5.584	75	95678	20.86	ppb	100
49) Benzene	5.908	78	282500	20.77	ppb	97
50) 1,2-Dichloroethane	5.968	62	98123	20.67	ppb	98
51) Iso-Butyl Alcohol	5.956	43	99756	382.38	ppb	100
52) n-Heptane	6.353	43	78961	20.37	ppb	99
53) 1-Butanol	6.901	56	168910	942.49	ppb	98
54) Trichloroethene	6.840	130	74401	19.90	ppb	98
55) Methylcyclohexane	7.048	55	89013	20.11	ppb	94
56) 1,2-Diclpropane	7.133	63	66937	20.36	ppb	93
57) Dibromomethane	7.279	93	45427	19.05	ppb	83
58) 1,4-Dioxane	7.346	88	32829	383.14	ppb	94
59) Methyl Methacrylate	7.352	69	62840	20.04	ppb	93
60) Bromodichloromethane	7.499	83	88248	19.77	ppb	96
62) 2-Chloroethylvinyl Ether	7.901	63	41768	20.04	ppb	94
63) cis-1,3-Dichloropropene	8.029	75	111340	20.29	ppb	99
64) 4-Methyl-2-pentanone	8.242	43	85361	19.10	ppb	95
66) Toluene	8.389	91	329314	20.35	ppb	96
67) trans-1,3-Dichloropropene	8.675	75	105979	19.81	ppb	95
68) Ethyl Methacrylate	8.797	69	114529	20.50	ppb	97
69) 1,1,2-Trichloroethane	8.858	97	73166	20.59	ppb	94
72) Tetrachloroethene	8.968	164	59858	19.75	ppb	97
73) 2-Hexanone	9.151	43	63843	19.17	ppb	98
74) 1,3-Dichloropropene	9.029	76	119361	20.42	ppb	96
75) Dibromochloromethane	9.248	129	67266	19.74	ppb	99
76) N-Butyl Acetate	9.291	43	129898	20.84	ppb	99
77) 1,2-Dibromoethane	9.346	107	75253	20.03	ppb	90
78) Chlorobenzene	9.827	112	213330	19.82	ppb	97
79) 3-CBTF	9.840	180	104692	17.96	ppb	96
80) 4-CBTF	9.895	180	94203	18.37	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.913	131	73430	20.25	ppb	93
82) Ethylbenzene	9.937	106	117559	19.88	ppb	94
83) (m+p)Xylene	10.053	106	286037	41.39	ppb	98
84) o-Xylene	10.407	106	142974	20.17	ppb	98
85) Styrene	10.425	104	242507	20.59	ppb	98
87) Bromoform	10.583	173	44301	19.30	ppb	93
88) 2-CBTF	10.657	180	102663	18.67	ppb	99
89) Isopropylbenzene	10.736	105	376151	21.51	ppb	98
90) Cyclohexanone	10.821	55	373124	425.83	ppb	100
91) trans-1,4-Dichloro-2-B...	11.065	53	30261	20.08	ppb	94
92) 1,1,2,2-Tetrachloroethane	11.016	83	112106	20.62	ppb	97
93) Bromobenzene	10.992	156	94792	21.27	ppb	95
94) 1,2,3-Trichloropropane	11.047	110	38038	19.90	ppb	# 86
95) n-Propylbenzene	11.089	91	435881	21.59	ppb	98
96) 2-Chlorotoluene	11.156	91	266717	21.16	ppb	98
97) 3-Chlorotoluene	11.211	91	249297	19.11	ppb	98
98) 4-Chlorotoluene	11.248	91	301124	20.79	ppb	99
99) 1,3,5-Trimethylbenzene	11.242	105	326094	21.31	ppb	99
100) tert-Butylbenzene	11.510	119	281565	21.17	ppb	97
101) 1,2,4-Trimethylbenzene	11.553	105	334154	21.86	ppb	98
102) 3,4-DCBTF	11.614	214	82070	18.65	ppb	99
103) sec-Butylbenzene	11.693	105	414163	21.88	ppb	98
104) p-Isopropyltoluene	11.815	119	360830	21.78	ppb	99
105) 1,3-Dclbenz	11.778	146	188867	20.72	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43634.D
 Acq On : 9 Feb 2021 1:38 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : WATER ICAL
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:31:08 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

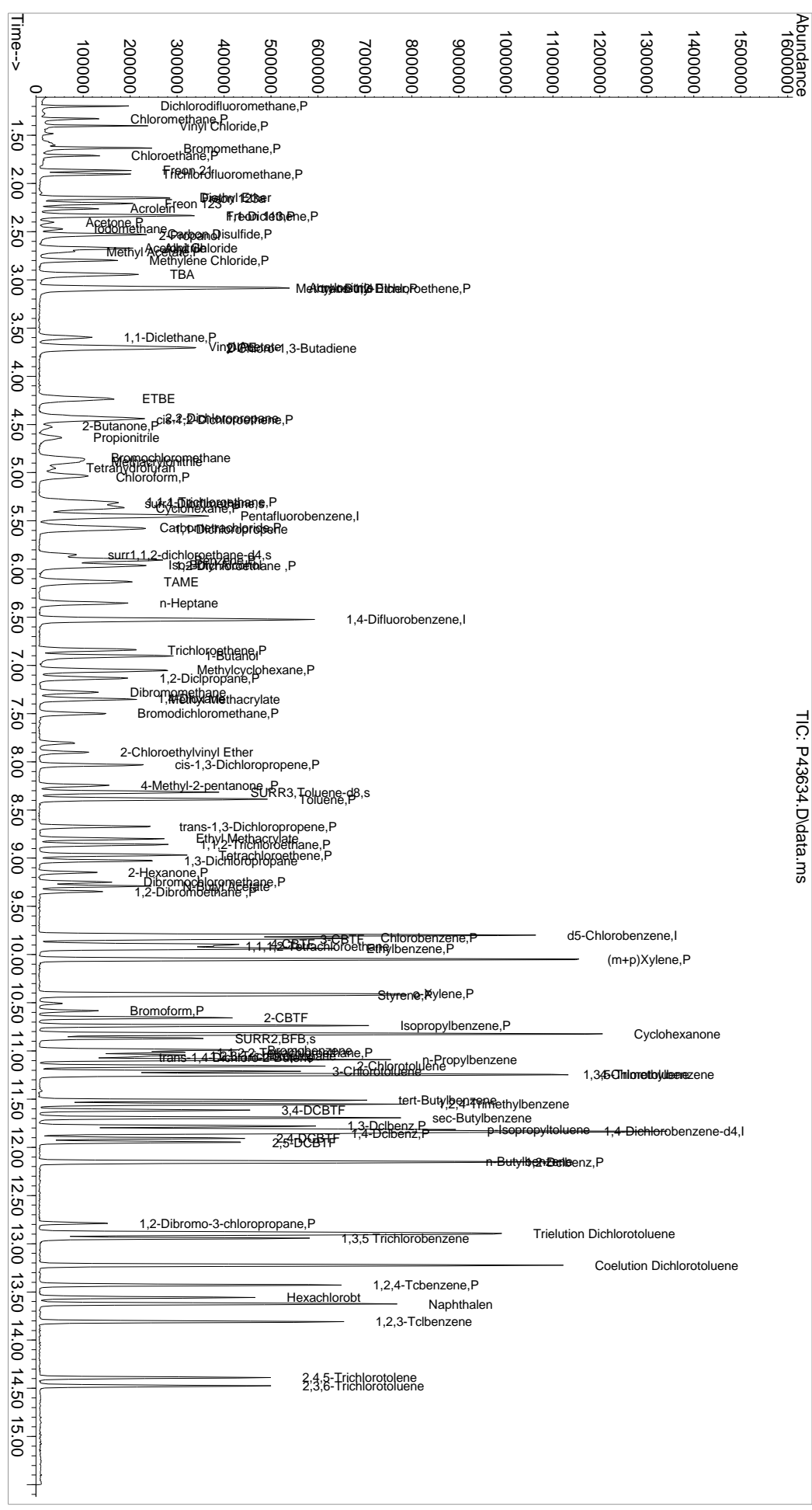
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.858	146	191782	19.94	ppb	97
107) 2,4-DCBTF	11.906	214	74115	17.94	ppb	99
108) 2,5-DCBTF	11.949	214	88829	19.19	ppb	99
109) n-Butylbenzene	12.144	91	323503	21.56	ppb	97
110) 1,2-Dclbenz	12.156	146	191945	20.70	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.790	157	30981	20.93	ppb	97
112) Trielution Dichlorotol...	12.894	125	486794	59.28	ppb	98
113) 1,3,5 Trichlorobenzene	12.943	180	127880	19.18	ppb	98
114) Coelution Dichlorotoluene	13.223	125	361377	39.86	ppb	99
115) 1,2,4-Tcbenzene	13.430	180	149020	21.33	ppb	98
116) Hexachlorobt	13.558	225	62002	20.13	ppb	98
117) Naphthalen	13.626	128	470495	22.97	ppb	100
118) 1,2,3-Tclbenzene	13.808	180	149279	21.42	ppb	92
119) 2,4,5-Trichlorotolene	14.388	159	100277	19.78	ppb	97
120) 2,3,6-Trichlorotoluene	14.473	159	93297	19.21	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 02/09/21

Data Path : I:\ACQDATA\msvoa12\Data\020921\
 Data File : P43634.D
 Acq On : 9 Feb 2021 1:38 pm
 Operator : K.Ruest
 Sample : 20ppb
 Inst : MSVOA-12
 PALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 16:31:08 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration



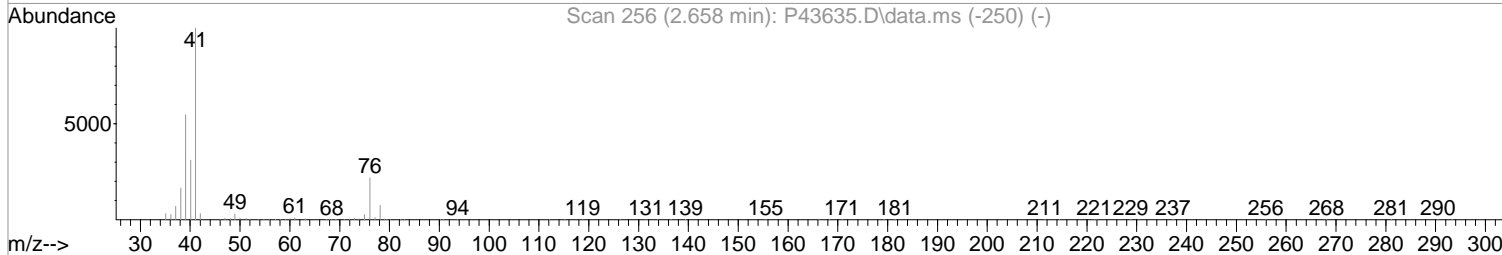
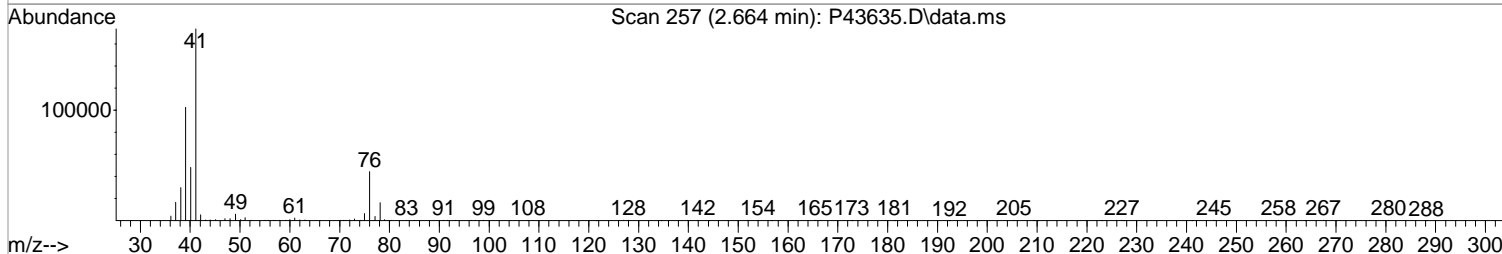
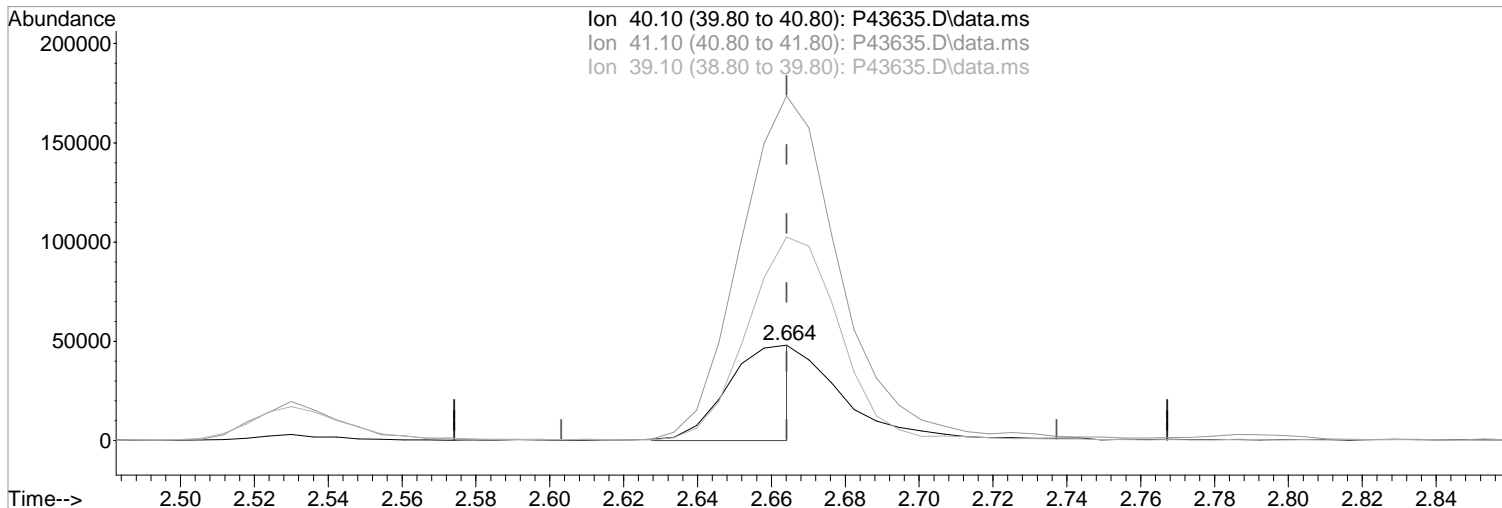
W020921.M Tue Feb 09 16:32:09 2021

Page : 4

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43635.D
Acq On : 9 Feb 2021 2:00 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:20 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



(19) Acetonitrile

2.664min (-0.000) 306.53 ppb m

response 59734

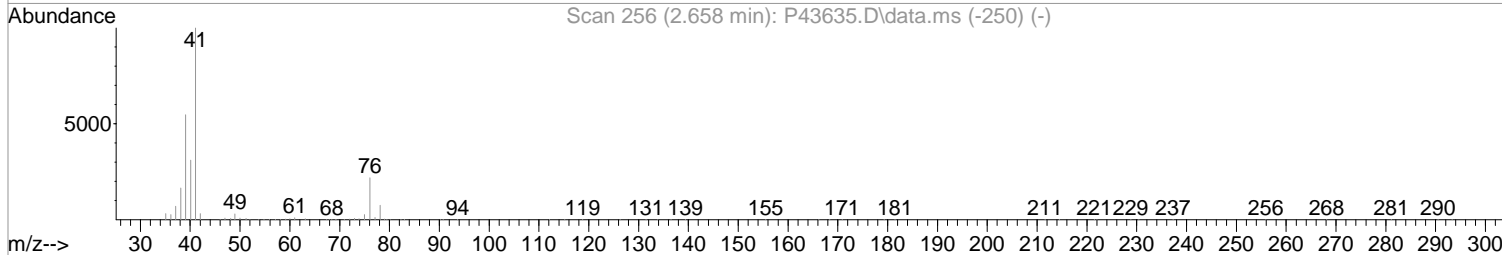
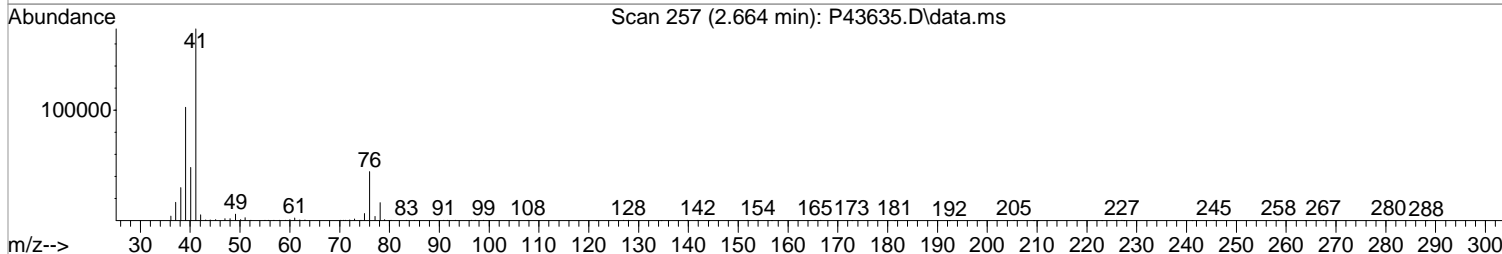
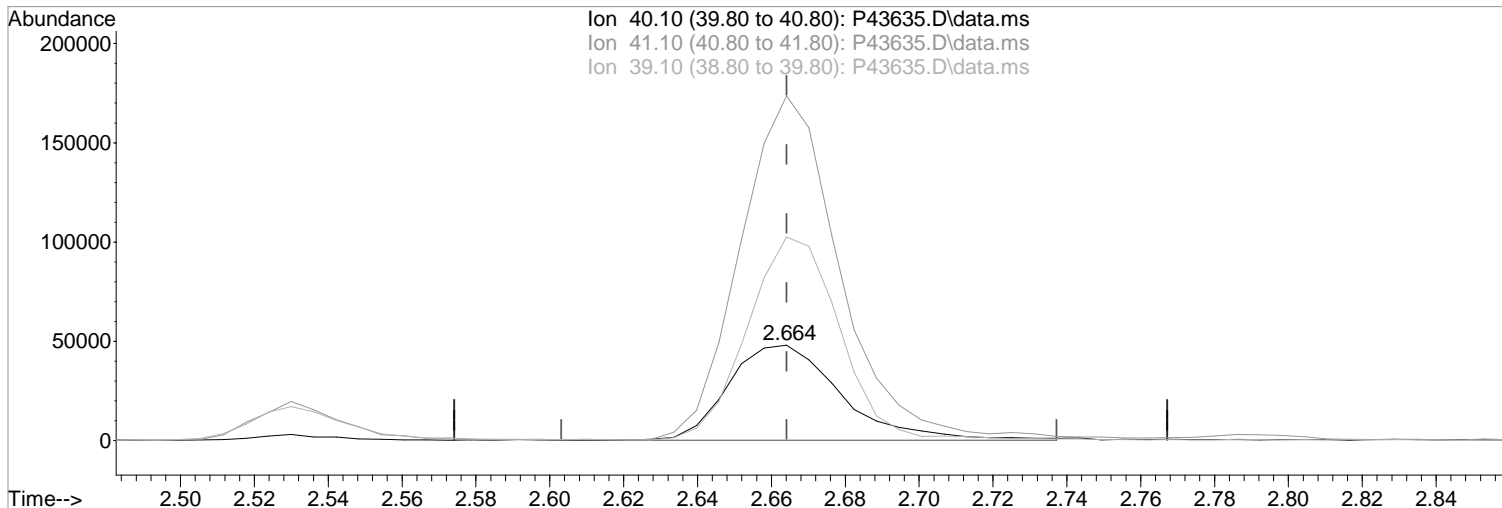
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	361.79#
39.10	175.80	213.50#
0.00	0.00	0.00

Manual Integration:
After
Poor integration.
02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43635.D
Acq On : 9 Feb 2021 2:00 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:20 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43635.D\data.ms

(19) Acetonitrile
2.664min (-0.000) 522.35 ppb
response 101791

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	321.20	361.79#
39.10	175.80	213.50#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43635.D
 Acq On : 9 Feb 2021 2:00 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:32:39 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.444	168	336993	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	522386	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	492902	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	272991	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	147639	51.06	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery =	102.12%			
48) surr1,1,2-dichloroetha...	5.846	65	186533	51.09	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	102.18%			
65) SURR3,Toluene-d8	8.315	98	656397	51.68	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	103.36%			
70) SURR2,BFB	10.870	95	255568	50.74	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	101.48%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.189	85	218592	51.92	ppb		100
3) Chloromethane	1.323	50	181502	48.24	ppb		100
4) Vinyl Chloride	1.396	62	256907	51.14	ppb		100
5) Bromomethane	1.622	94	154706	38.52	ppb		100
6) Chloroethane	1.701	64	147787	45.70	ppb		100
7) Freon 21	1.859	67	274991	47.07	ppb		100
8) Trichlorofluoromethane	1.896	101	251414	47.15	ppb		100
9) Diethyl Ether	2.134	59	140187	49.22	ppb		100
10) Freon 123a	2.146	67	178201	48.46	ppb		100
11) Freon 123	2.201	83	211514	49.86	ppb		100
12) Acrolein	2.256	56	204814	248.96	ppb		100
13) 1,1-Diclcethene	2.329	96	122101	44.91	ppb		100
14) Freon 113	2.323	101	154392	46.69	ppb		100
15) Acetone	2.396	43	77141	50.22	ppb		100
16) 2-Propanol	2.530	45	388130	1038.52	ppb		100
17) Iodomethane	2.463	142	194972	57.26	ppb		100
18) Carbon Disulfide	2.518	76	403444	49.72	ppb		100
19) Acetonitrile	2.664	40	59734m	306.53	ppb		100
20) Allyl Chloride	2.670	76	74717	42.38	ppb		100
21) Methyl Acetate	2.701	43	189240	48.84	ppb		100
22) Methylene Chloride	2.792	84	162823	46.08	ppb		100
23) TBA	2.938	59	703692	1003.73	ppb		100
24) Acrylonitrile	3.073	53	430379	251.01	ppb		100
25) Methyl-t-Butyl Ether	3.085	73	602449	50.40	ppb		100
26) trans-1,2-Dichloroethene	3.079	96	146261	47.54	ppb		100
28) 1,1-Diclcethane	3.591	63	276640	48.43	ppb		100
29) Vinyl Acetate	3.682	86	33469	49.78	ppb		100
30) DIPE	3.694	45	441471	49.03	ppb		100
31) 2-Chloro-1,3-Butadiene	3.700	53	249759	50.33	ppb		100
32) ETBE	4.231	59	513218	50.62	ppb		100
33) 2,2-Dichloropropane	4.426	77	274437	48.75	ppb		100
34) cis-1,2-Dichloroethene	4.438	96	183025	49.54	ppb		100
35) 2-Butanone	4.511	43	108268	48.11	ppb		100
36) Propionitrile	4.627	54	186380	246.11	ppb		100
37) Bromochloromethane	4.847	130	118098	48.97	ppb		100
38) Methacrylonitrile	4.889	67	97669	49.54	ppb		100
39) Tetrahydrofuran	4.944	42	74035	47.97	ppb		100
40) Chloroform	5.029	83	295826	50.17	ppb		100
41) 1,1,1-Trichloroethane	5.292	97	272505	48.51	ppb		100

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43635.D
 Acq On : 9 Feb 2021 2:00 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:32:39 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	541238	51.15	ppb	100
44) Cyclohexane	5.359	41	153538	51.76	ppb	100
46) Carbontetrachloride	5.560	117	226376	49.97	ppb	100
47) 1,1-Dichloropropene	5.584	75	225678	48.17	ppb	100
49) Benzene	5.901	78	689978	49.66	ppb	100
50) 1,2-Dichloroethane	5.962	62	240918	49.67	ppb	100
51) Iso-Butyl Alcohol	5.956	43	261425	980.84	ppb	100
52) n-Heptane	6.352	43	192974	48.73	ppb	100
53) 1-Butanol	6.901	56	479030	2616.28	ppb	100
54) Trichloroethene	6.834	130	183601	48.06	ppb	100
55) Methylcyclohexane	7.053	55	217896	48.19	ppb	100
56) 1,2-Diclpropane	7.133	63	165539	49.28	ppb	100
57) Dibromomethane	7.273	93	117018	48.03	ppb	100
58) 1,4-Dioxane	7.340	88	83828	957.62	ppb	100
59) Methyl Methacrylate	7.352	69	164858	51.46	ppb	100
60) Bromodichloromethane	7.499	83	230149	50.46	ppb	100
62) 2-Chloroethylvinyl Ether	7.901	63	107840	50.65	ppb	100
63) cis-1,3-Dichloropropene	8.029	75	281863	50.27	ppb	100
64) 4-Methyl-2-pentanone	8.242	43	225490	49.38	ppb	100
66) Toluene	8.389	91	816590	49.40	ppb	100
67) trans-1,3-Dichloropropene	8.669	75	275044	50.34	ppb	100
68) Ethyl Methacrylate	8.797	69	291007	50.97	ppb	100
69) 1,1,2-Trichloroethane	8.858	97	177391	48.86	ppb	100
72) Tetrachloroethene	8.968	164	149889	48.08	ppb	100
73) 2-Hexanone	9.145	43	169047	49.34	ppb	100
74) 1,3-Dichloropropene	9.029	76	297589	49.50	ppb	100
75) Dibromochloromethane	9.248	129	175011	49.94	ppb	100
76) N-Butyl Acetate	9.291	43	335612	52.34	ppb	100
77) 1,2-Dibromoethane	9.346	107	192969	49.94	ppb	100
78) Chlorobenzene	9.827	112	530992	47.97	ppb	100
79) 3-CBTF	9.840	180	304472	50.80	ppb	100
80) 4-CBTF	9.894	180	267294	50.67	ppb	100
81) 1,1,1,2-Tetrachloroethane	9.913	131	185770	49.80	ppb	100
82) Ethylbenzene	9.937	106	287344	47.23	ppb	100
83) (m+p)Xylene	10.047	106	725589	102.08	ppb	100
84) o-Xylene	10.406	106	357019	48.97	ppb	100
85) Styrene	10.425	104	627259	51.77	ppb	100
87) Bromoform	10.583	173	123412	49.40	ppb	100
88) 2-CBTF	10.656	180	292470	48.88	ppb	100
89) Isopropylbenzene	10.736	105	944904	49.66	ppb	100
90) Cyclohexanone	10.821	55	940327	986.30	ppb	100
91) trans-1,4-Dichloro-2-B...	11.059	53	78355	47.78	ppb	100
92) 1,1,2,2-Tetrachloroethane	11.016	83	283743	47.96	ppb	100
93) Bromobenzene	10.992	156	236484	48.77	ppb	100
94) 1,2,3-Trichloropropane	11.041	110	98921	47.56	ppb	100
95) n-Propylbenzene	11.089	91	1133739	51.61	ppb	100
96) 2-Chlorotoluene	11.156	91	675685	49.26	ppb	100
97) 3-Chlorotoluene	11.211	91	687798	48.47	ppb	100
98) 4-Chlorotoluene	11.248	91	771446	48.94	ppb	100
99) 1,3,5-Trimethylbenzene	11.242	105	841968	50.57	ppb	100
100) tert-Butylbenzene	11.510	119	708754	48.97	ppb	100
101) 1,2,4-Trimethylbenzene	11.553	105	850255	51.12	ppb	100
102) 3,4-DCBTF	11.614	214	239893	50.09	ppb	100
103) sec-Butylbenzene	11.693	105	1051089	51.02	ppb	100
104) p-Isopropyltoluene	11.815	119	910127	50.50	ppb	100
105) 1,3-Dclbenz	11.778	146	477870	48.18	ppb	100

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43635.D
 Acq On : 9 Feb 2021 2:00 pm
 Operator : K.Ruest
 Sample : 50ppb Inst : MSVOA-12
 Misc : WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

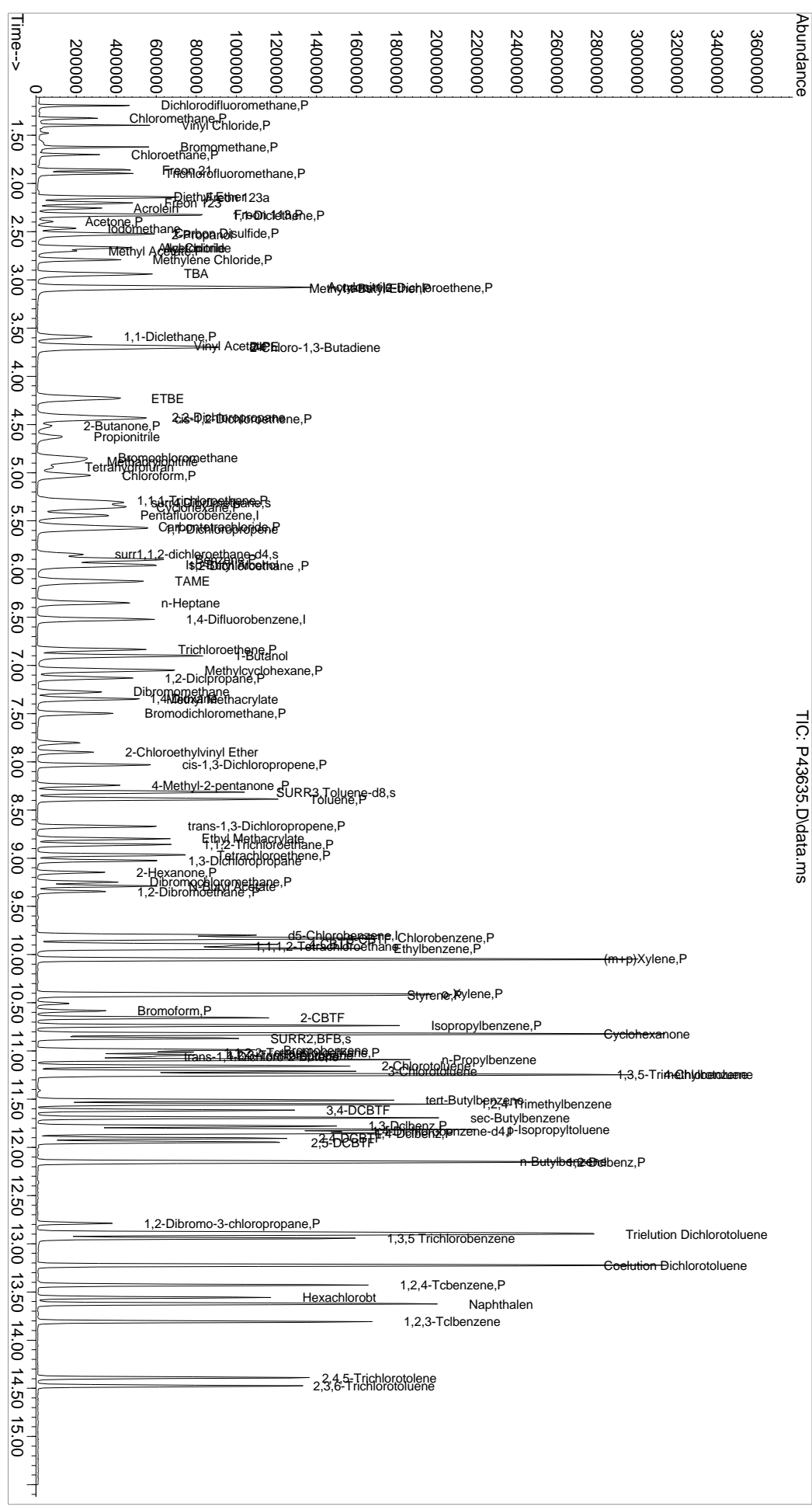
Quant Time: Feb 09 16:32:39 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.857	146	486385	46.47	ppb	100
107) 2,4-DCBTF	11.906	214	223746	49.76	ppb	100
108) 2,5-DCBTF	11.949	214	251454	49.92	ppb	100
109) n-Butylbenzene	12.144	91	816733	50.02	ppb	100
110) 1,2-Dclbenz	12.156	146	481718	47.75	ppb	100
111) 1,2-Dibromo-3-chloropr...	12.790	157	81711	50.74	ppb	100
112) Trielution Dichlorotol...	12.900	125	1362018	152.44	ppb	100
113) 1,3,5 Trichlorobenzene	12.943	180	368291	50.76	ppb	100
114) Coelution Dichlorotoluene	13.223	125	1001038	101.49	ppb	100
115) 1,2,4-Tcbenzene	13.430	180	376420	49.51	ppb	100
116) Hexachlorobt	13.558	225	159104	47.47	ppb	100
117) Naphthalen	13.625	128	1212524	54.42	ppb	100
118) 1,2,3-Tclbenzene	13.808	180	379935	50.10	ppb	100
119) 2,4,5-Trichlorotolene	14.394	159	287417	52.11	ppb	100
120) 2,3,6-Trichlorotoluene	14.479	159	263812	49.91	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

02/09/21
1st

Data Path : I:\ACQDATA\msvoa12\Data\020921\
Data File : P43635.D
Acq On : 9 Feb 2021 2:00 pm
Operator : K.Ruest
Sample : 50ppb
Inst : MSVOA-12
isc : WATER ICAL
PALS Vial : 7 Sample Multiplier: 1
Quant Time: Feb 09 16:32:39 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QIast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration

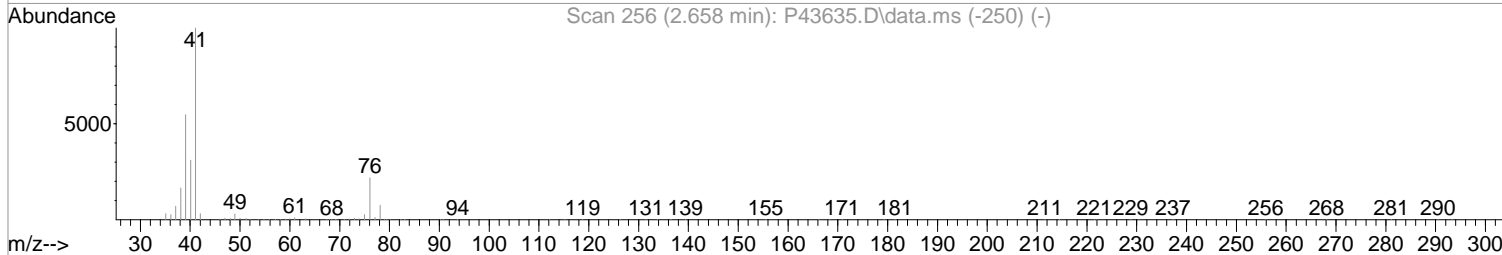
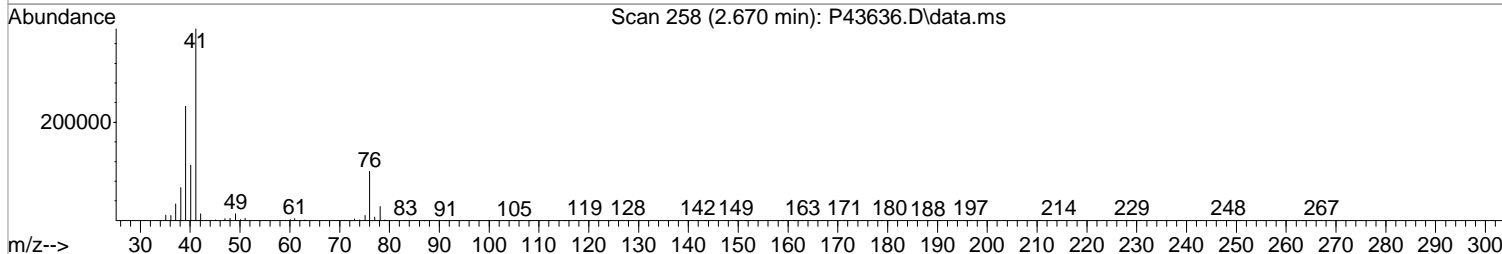
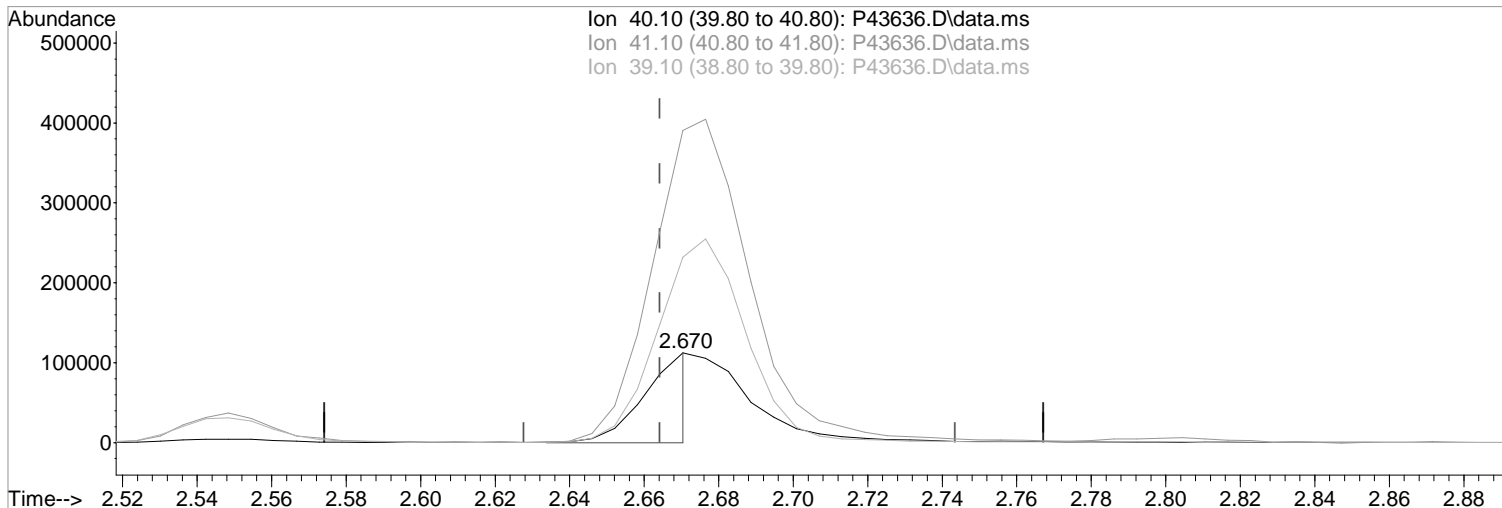


W020921.M Tue Feb 09 16:34:28 2021

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43636.D
Acq On : 9 Feb 2021 2:22 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:23 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43636.D\data.ms

(19) Acetonitrile
2.670min (+0.006) 497.68 ppb m
response 98610

Manual Integration:
After
Poor integration.

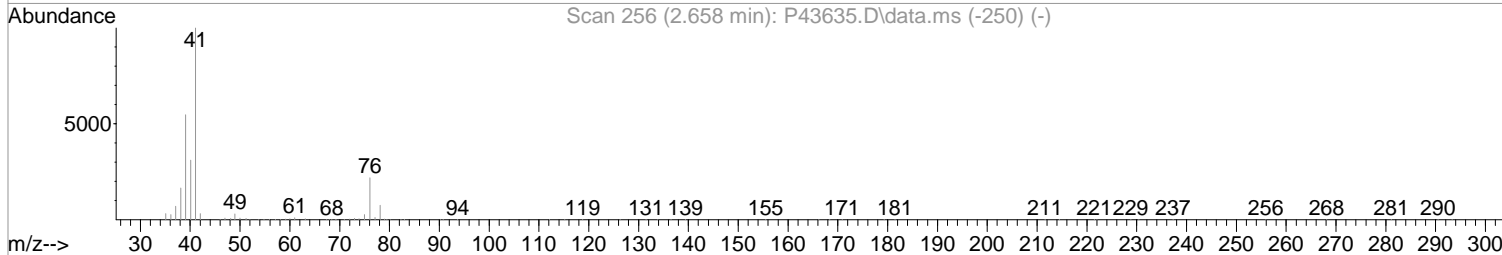
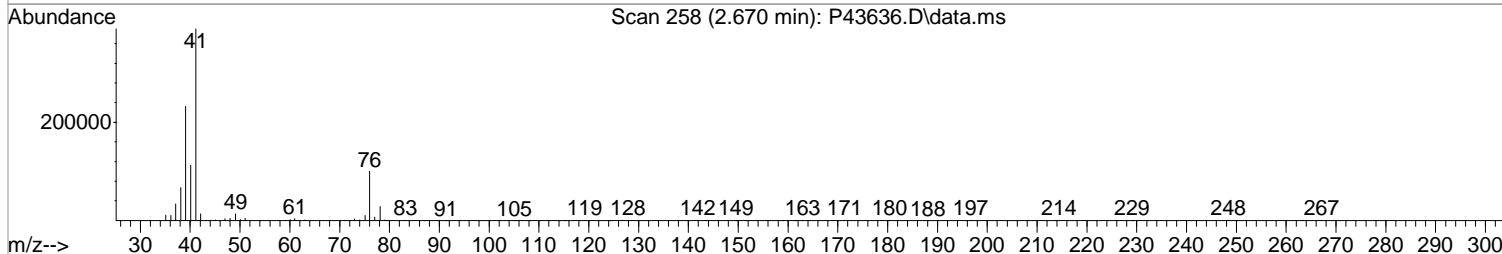
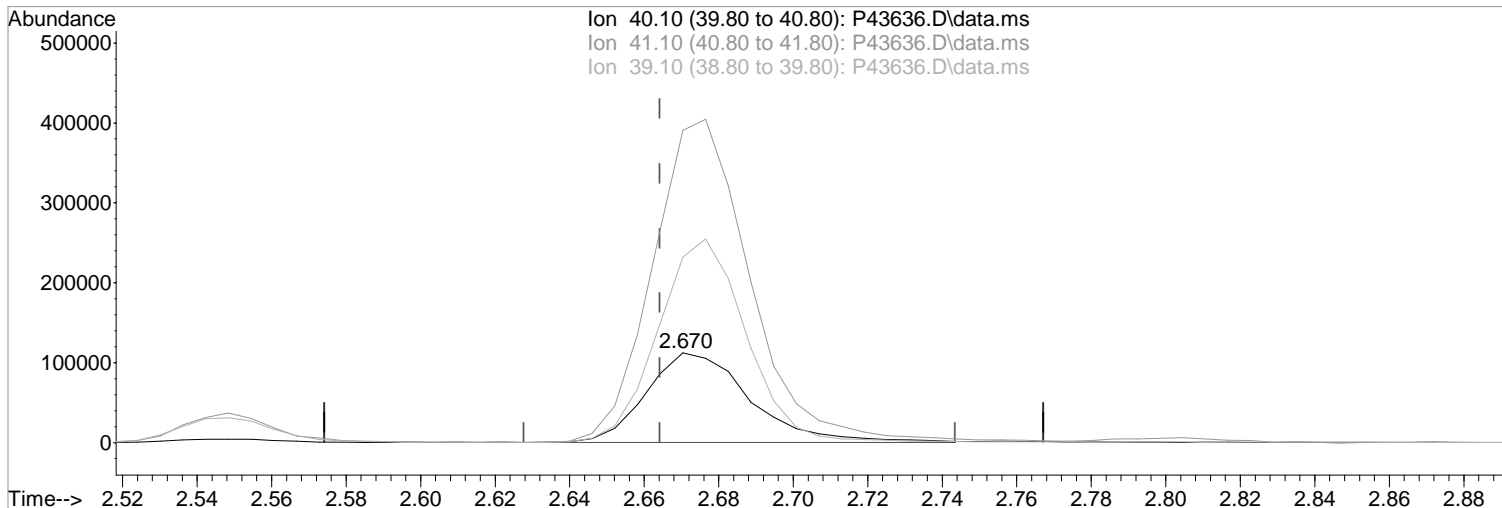
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	347.93#
39.10	175.80	206.87#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43636.D
Acq On : 9 Feb 2021 2:22 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:23 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43636.D\data.ms

(19) Acetonitrile
2.670min (+0.006) 1099.92 ppb
response 217937

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	321.20	347.93#
39.10	175.80	206.87#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43636.D
 Acq On : 9 Feb 2021 2:22 pm
 Operator : K.Ruest
 Sample : 100ppb
 Misc : WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:35:12 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	342647	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	531745	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	505304	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	290241	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.328	113	297568	101.10	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	202.20%#		
48) surr1,1,2-dichloroetha...	5.853	65	380092	102.28	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	204.56%#		
65) SURR3,Toluene-d8	8.316	98	1288246	99.65	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	199.30%#		
70) SURR2,BFB	10.870	95	528885	103.16	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	206.32%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.201	85	453160	105.86	ppb	98
3) Chloromethane	1.329	50	369477	96.59	ppb	98
4) Vinyl Chloride	1.408	62	511061	100.06	ppb	99
5) Bromomethane	1.628	94	148998	36.49	ppb	92
6) Chloroethane	1.707	64	314661	95.70	ppb	97
7) Freon 21	1.866	67	528447	88.96	ppb	100
8) Trichlorofluoromethane	1.902	101	528237	97.44	ppb	98
9) Diethyl Ether	2.146	59	287129	99.15	ppb	99
10) Freon 123a	2.158	67	336628	90.03	ppb	97
11) Freon 123	2.213	83	414562	96.12	ppb	97
12) Acrolein	2.268	56	408596	488.47	ppb	95
13) 1,1-Diclcethene	2.335	96	252662	91.41	ppb	96
14) Freon 113	2.335	101	318542	94.74	ppb	89
15) Acetone	2.408	43	147238	94.28	ppb	99
16) 2-Propanol	2.548	45	766966	2018.31	ppb	99
17) Iodomethane	2.475	142	474354	137.02	ppb	98
18) Carbon Disulfide	2.524	76	812198	98.43	ppb	100
19) Acetonitrile	2.670	40	98610m	497.68	ppb	
20) Allyl Chloride	2.676	76	179998	100.40	ppb	96
21) Methyl Acetate	2.713	43	367982	93.41	ppb	94
22) Methylene Chloride	2.798	84	334104	92.99	ppb	99
23) TBA	2.957	59	1451962	2036.86	ppb	100
24) Acrylonitrile	3.085	53	877621	503.40	ppb	99
25) Methyl-t-Butyl Ether	3.097	73	1213943	99.88	ppb	97
26) trans-1,2-Dichloroethene	3.085	96	297160	94.99	ppb	99
28) 1,1-Diclcethane	3.603	63	556679	95.84	ppb	98
29) Vinyl Acetate	3.695	86	69741	102.01	ppb	# 85
30) DIPE	3.707	45	900314	98.34	ppb	92
31) 2-Chloro-1,3-Butadiene	3.713	53	505986	100.29	ppb	97
32) ETBE	4.237	59	1006401	97.63	ppb	100
33) 2,2-Dichloropropane	4.432	77	556577	97.24	ppb	98
34) cis-1,2-Dichloroethene	4.450	96	366119	97.46	ppb	99
35) 2-Butanone	4.530	43	215586	94.22	ppb	97
36) Propionitrile	4.646	54	376846	489.41	ppb	95
37) Bromochloromethane	4.853	130	232053	94.63	ppb	95
38) Methacrylonitrile	4.896	67	192061	95.81	ppb	90
39) Tetrahydrofuran	4.950	42	144575	92.12	ppb	99
40) Chloroform	5.042	83	589078	98.26	ppb	99
41) 1,1,1-Trichloroethane	5.304	97	558078	97.70	ppb	98

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43636.D
 Acq On : 9 Feb 2021 2:22 pm
 Operator : K.Ruest
 Sample : 100ppb
 Misc : WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:35:12 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	1066888	99.17	ppb	96
44) Cyclohexane	5.365	41	293983	97.36	ppb	96
46) Carbontetrachloride	5.566	117	465254	100.88	ppb	98
47) 1,1-Dichloropropene	5.591	75	454593	95.32	ppb	94
49) Benzene	5.908	78	1368255	96.75	ppb	99
50) 1,2-Dichloroethane	5.975	62	491781	99.61	ppb	97
51) Iso-Butyl Alcohol	5.968	43	574366	2117.04	ppb	98
52) n-Heptane	6.359	43	400936	99.47	ppb	98
53) 1-Butanol	6.907	56	1036048	5558.91	ppb	99
54) Trichloroethene	6.840	130	369473	95.00	ppb	96
55) Methylcyclohexane	7.054	55	427412	92.87	ppb	95
56) 1,2-Diclpropane	7.133	63	325550	95.20	ppb	98
57) Dibromomethane	7.279	93	236628	95.42	ppb	94
58) 1,4-Dioxane	7.346	88	178722	2005.71	ppb	95
59) Methyl Methacrylate	7.352	69	332865	102.07	ppb	98
60) Bromodichloromethane	7.499	83	467322	100.66	ppb	98
62) 2-Chloroethylvinyl Ether	7.901	63	221953	102.40	ppb	96
63) cis-1,3-Dichloropropene	8.035	75	579376	101.52	ppb	98
64) 4-Methyl-2-pentanone	8.242	43	459239	98.81	ppb	98
66) Toluene	8.389	91	1632797	97.04	ppb	100
67) trans-1,3-Dichloropropene	8.675	75	566382	101.83	ppb	95
68) Ethyl Methacrylate	8.797	69	602231	103.63	ppb	100
69) 1,1,2-Trichloroethane	8.864	97	361894	97.93	ppb	97
72) Tetrachloroethene	8.968	164	307888	96.33	ppb	96
73) 2-Hexanone	9.145	43	354257	100.87	ppb	97
74) 1,3-Dichloropropene	9.029	76	601140	97.53	ppb	95
75) Dibromochloromethane	9.248	129	376687	104.84	ppb	98
76) N-Butyl Acetate	9.291	43	651829	99.16	ppb	99
77) 1,2-Dibromoethane	9.346	107	384981	97.19	ppb	99
78) Chlorobenzene	9.827	112	1083616	95.49	ppb	98
79) 3-CBTF	9.840	180	629067	102.37	ppb	98
80) 4-CBTF	9.895	180	549697	101.64	ppb	99
81) 1,1,1,2-Tetrachloroethane	9.913	131	394582	103.19	ppb	99
82) Ethylbenzene	9.937	106	605671	97.12	ppb	91
83) (m+p)Xylene	10.053	106	1496172	205.32	ppb	94
84) o-Xylene	10.407	106	736752	98.57	ppb	100
85) Styrene	10.425	104	1288465	103.74	ppb	99
87) Bromoform	10.583	173	278140	104.73	ppb	96
88) 2-CBTF	10.657	180	612186	96.24	ppb	97
89) Isopropylbenzene	10.736	105	1919893	94.90	ppb	99
90) Cyclohexanone	10.827	55	1978074	1951.47	ppb	100
91) trans-1,4-Dichloro-2-B...	11.065	53	178756	102.52	ppb	91
92) 1,1,2,2-Tetrachloroethane	11.016	83	595890	94.74	ppb	99
93) Bromobenzene	10.992	156	506102	98.18	ppb	98
94) 1,2,3-Trichloropropane	11.041	110	201340	91.05	ppb	99
95) n-Propylbenzene	11.089	91	2324344	99.53	ppb	98
96) 2-Chlorotoluene	11.156	91	1404649	96.31	ppb	99
97) 3-Chlorotoluene	11.211	91	1414949	93.78	ppb	99
98) 4-Chlorotoluene	11.254	91	1617817	96.54	ppb	93
99) 1,3,5-Trimethylbenzene	11.242	105	1755020	99.15	ppb	98
100) tert-Butylbenzene	11.516	119	1503032	97.67	ppb	98
101) 1,2,4-Trimethylbenzene	11.553	105	1746620	98.78	ppb	100
102) 3,4-DCBTF	11.620	214	520368	102.20	ppb	96
103) sec-Butylbenzene	11.693	105	2159460	98.60	ppb	99
104) p-Isopropyltoluene	11.815	119	1908135	99.58	ppb	98
105) 1,3-Dclbenz	11.778	146	1021025	96.83	ppb	99

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43636.D
 Acq On : 9 Feb 2021 2:22 pm
 Operator : K.Ruest
 Sample : 100ppb
 Misc : WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:35:12 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

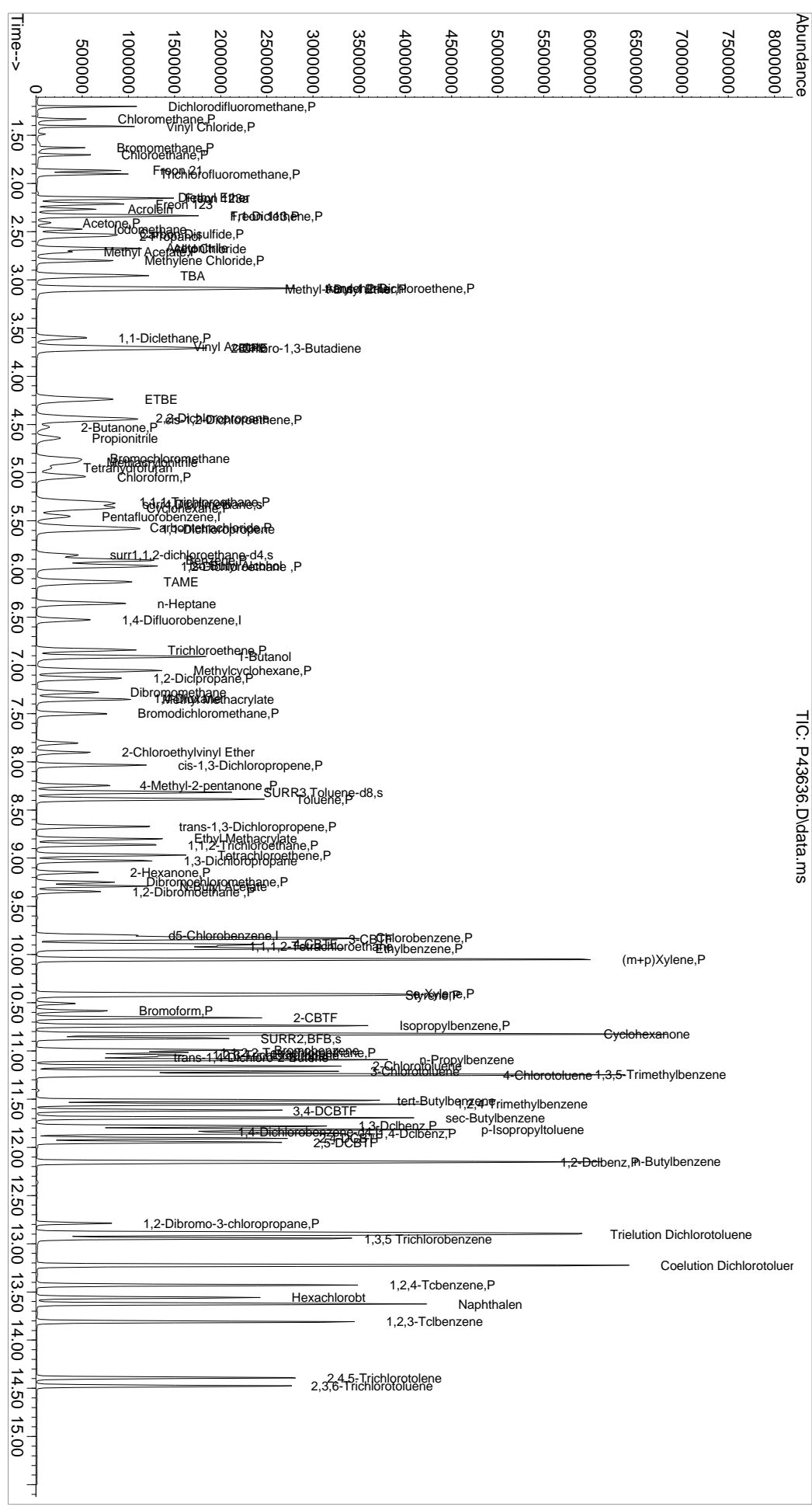
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.858	146	1044958	93.90	ppb	98
107) 2,4-DCBTF	11.906	214	481755	100.78	ppb	99
108) 2,5-DCBTF	11.949	214	540201	100.87	ppb	94
109) n-Butylbenzene	12.150	91	1773276	102.16	ppb	98
110) 1,2-Dclbenz	12.156	146	1039518	96.91	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.790	157	176734	103.22	ppb	96
112) Trielution Dichlorotol...	12.900	125	2883288	303.53	ppb	98
113) 1,3,5 Trichlorobenzene	12.949	180	804995	104.35	ppb	98
114) Coelution Dichlorotoluene	13.223	125	2109283	201.14	ppb	97
115) 1,2,4-Tcbenzene	13.430	180	809353	100.13	ppb	99
116) Hexachlorobt	13.558	225	348897	97.90	ppb	98
117) Naphthalen	13.626	128	2463846	104.00	ppb	97
118) 1,2,3-Tclbenzene	13.808	180	799564	99.16	ppb	98
119) 2,4,5-Trichlorotolene	14.394	159	622937	106.22	ppb	99
120) 2,3,6-Trichlorotoluene	14.479	159	551431	98.13	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 02/09/21

Data Path : I:\ACQDATA\msvoa12\Data\020921\
 Data File : P43636.D
 Acq On : 9 Feb 2021 2:22 pm
 Operator : K.Ruest
 Sample : 100ppb
 Conc : WATER ICAL
 PALS Vial : 8 Sample Multiplier: 1
 Inst : MSVOA-12

Quant Time: Feb 09 16:35:12 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

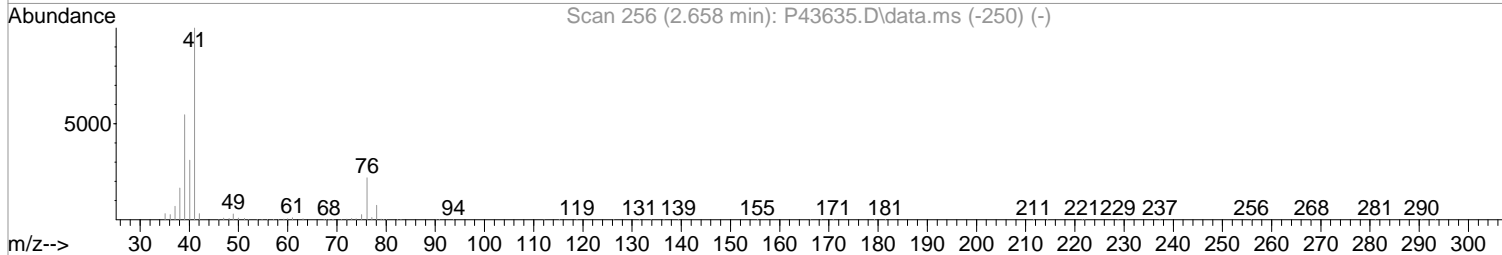
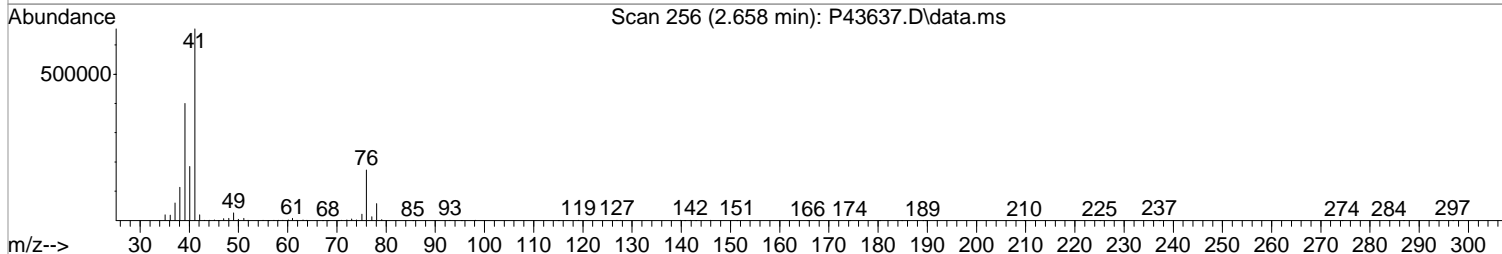
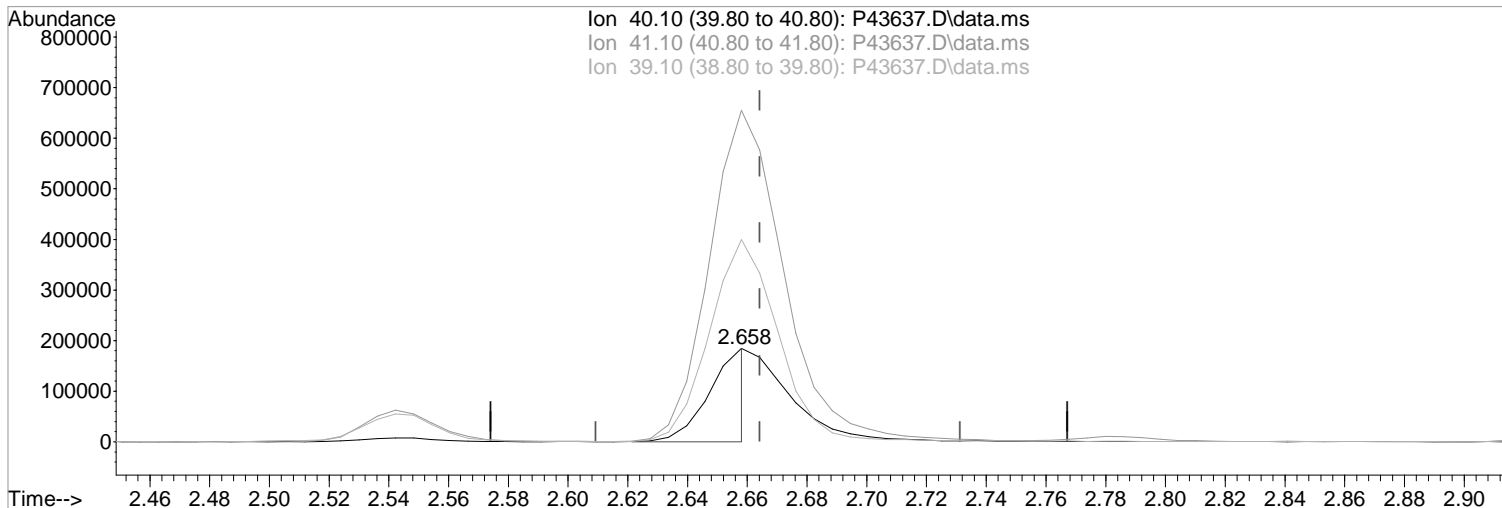


W020921.M Tue Feb 09 16:36:05 2021

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43637.D
Acq On : 9 Feb 2021 2:44 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:26 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43637.D\data.ms

(19) Acetonitrile
2.658min (-0.006) 820.17 ppb m
response 166771

Manual Integration:
After
Poor integration.

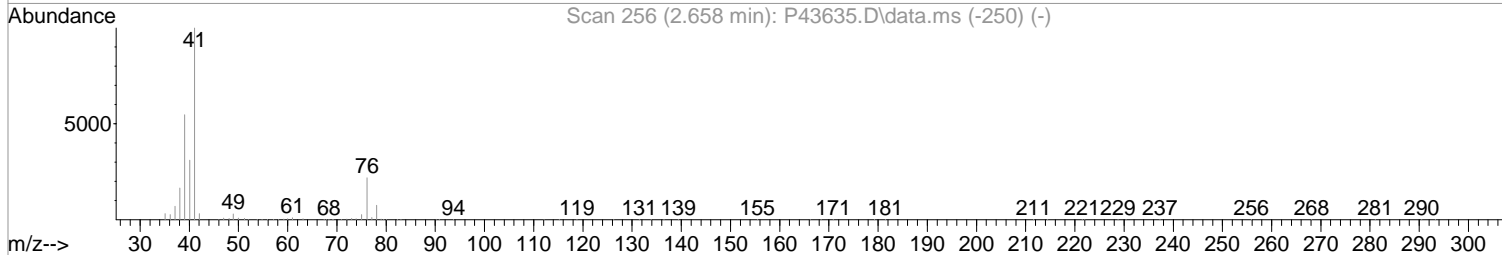
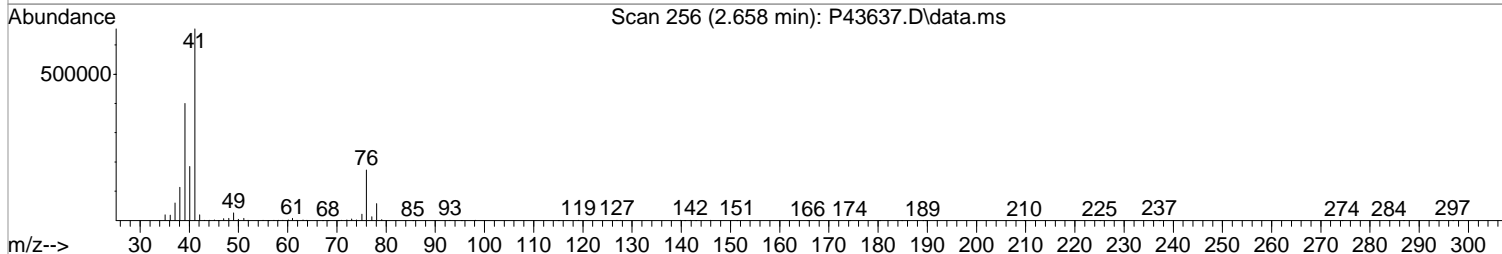
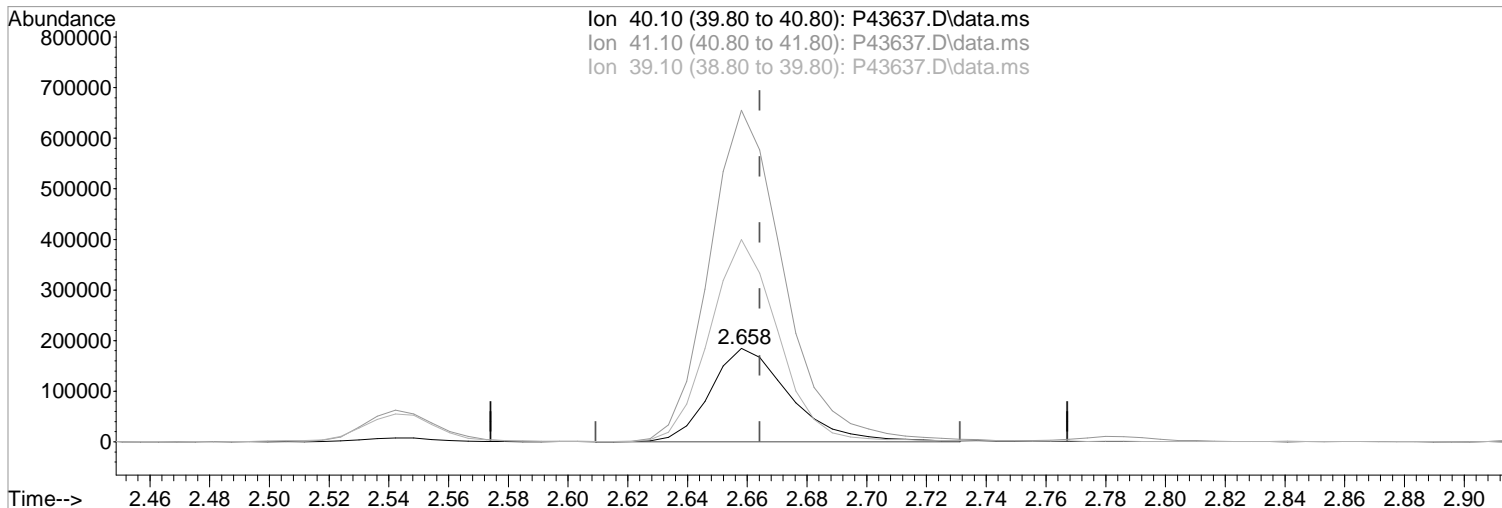
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	354.97#
39.10	175.80	216.46#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43637.D
Acq On : 9 Feb 2021 2:44 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:26 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43637.D\data.ms

(19) Acetonitrile
2.658min (-0.006) 1682.69 ppb
response 342155

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	321.20	354.97#
39.10	175.80	216.46#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43637.D
 Acq On : 9 Feb 2021 2:44 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:36:25 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.444	168	351637	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.517	114	536778	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	512575	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	298405	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	597510	201.10	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery =	402.20%#			
48) surr1,1,2-dichloroetha...	5.846	65	747853	199.35	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	398.70%#			
65) SURR3,Toluene-d8	8.315	98	2558250	196.03	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	392.06%#			
70) SURR2,BFB	10.870	95	1083281	209.31	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	418.62%#			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.189	85	711112	161.87	ppb		97
3) Chloromethane	1.317	50	578200	147.29	ppb		99
4) Vinyl Chloride	1.396	62	750114	143.10	ppb		100
5) Bromomethane	1.616	94	219265	52.32	ppb		95
6) Chloroethane	1.683	64	452352	134.06	ppb		98
7) Freon 21	1.847	67	838312	137.52	ppb		99
8) Trichlorofluoromethane	1.878	101	840407	151.06	ppb		96
9) Diethyl Ether	2.134	59	443543	149.25	ppb		98
10) Freon 123a	2.140	67	542978	141.50	ppb		99
11) Freon 123	2.195	83	663817	149.98	ppb		98
12) Acrolein	2.256	56	644821	751.17	ppb		96
13) 1,1-Dicethene	2.317	96	399863	140.96	ppb		97
14) Freon 113	2.317	101	501795	145.43	ppb		90
15) Acetone	2.396	43	226760	141.48	ppb		97
16) 2-Propanol	2.542	45	1245768	3194.49	ppb		99
17) Iodomethane	2.457	142	750635	211.28	ppb		99
18) Carbon Disulfide	2.506	76	1258424	148.61	ppb		100
19) Acetonitrile	2.658	40	166771m	820.17	ppb		
20) Allyl Chloride	2.658	76	272935	148.35	ppb	#	86
21) Methyl Acetate	2.695	43	589497	145.81	ppb		97
22) Methylene Chloride	2.786	84	514170	139.45	ppb		98
23) TBA	2.951	59	2340403	3199.26	ppb		99
24) Acrylonitrile	3.073	53	1386742	775.09	ppb		96
25) Methyl-t-Butyl Ether	3.085	73	1865572	149.58	ppb		98
26) trans-1,2-Dichloroethene	3.073	96	469887	146.36	ppb		97
28) 1,1-Dicethane	3.585	63	861742	144.57	ppb		95
29) Vinyl Acetate	3.682	86	106889	152.35	ppb		97
30) DIPE	3.694	45	1386941	147.62	ppb		88
31) 2-Chloro-1,3-Butadiene	3.694	53	790557	152.68	ppb		100
32) ETBE	4.225	59	1563580	147.81	ppb		99
33) 2,2-Dichloropropane	4.420	77	861943	146.74	ppb		97
34) cis-1,2-Dichloroethene	4.432	96	562287	145.86	ppb		98
35) 2-Butanone	4.517	43	339392	144.54	ppb		94
36) Propionitrile	4.627	54	587934	744.03	ppb		89
37) Bromochloromethane	4.840	130	368576	146.46	ppb		91
38) Methacrylonitrile	4.883	67	309558	150.47	ppb		91
39) Tetrahydrofuran	4.938	42	226293	140.50	ppb		96
40) Chloroform	5.023	83	908070	147.60	ppb		99
41) 1,1,1-Trichloroethane	5.292	97	863041	147.23	ppb		97

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43637.D
 Acq On : 9 Feb 2021 2:44 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:36:25 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	1631764	147.79	ppb	99
44) Cyclohexane	5.346	41	459152	150.64	ppb	95
46) Carbontetrachloride	5.554	117	741167	159.20	ppb	97
47) 1,1-Dichloropropene	5.578	75	699348	145.26	ppb	95
49) Benzene	5.901	78	2126590	148.97	ppb	99
50) 1,2-Dichloroethane	5.962	62	746588	149.80	ppb	99
51) Iso-Butyl Alcohol	5.968	43	912805	3332.94	ppb	100
52) n-Heptane	6.346	43	622659	153.02	ppb	98
53) 1-Butanol	6.913	56	1640233	8718.14	ppb	99
54) Trichloroethene	6.834	130	571531	145.58	ppb	98
55) Methylcyclohexane	7.047	55	665146	143.17	ppb	96
56) 1,2-Diclpropane	7.127	63	505805	146.53	ppb	97
57) Dibromomethane	7.273	93	364492	145.60	ppb	92
58) 1,4-Dioxane	7.340	88	279539	3107.72	ppb	98
59) Methyl Methacrylate	7.346	69	524418	159.30	ppb	98
60) Bromodichloromethane	7.499	83	740963	158.10	ppb	99
62) 2-Chloroethylvinyl Ether	7.901	63	350705	160.29	ppb	94
63) cis-1,3-Dichloropropene	8.029	75	897284	155.75	ppb	96
64) 4-Methyl-2-pentanone	8.242	43	730093	155.61	ppb	97
66) Toluene	8.389	91	2521304	148.44	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	889619	158.44	ppb	97
68) Ethyl Methacrylate	8.797	69	955294	162.84	ppb	98
69) 1,1,2-Trichloroethane	8.858	97	565679	151.63	ppb	98
72) Tetrachloroethene	8.968	164	486671	150.11	ppb	95
73) 2-Hexanone	9.145	43	575309	161.48	ppb	97
74) 1,3-Dichloropropene	9.023	76	927608	148.37	ppb	94
75) Dibromochloromethane	9.248	129	601261	164.98	ppb	96
76) N-Butyl Acetate	9.291	43	1059799	158.94	ppb	98
77) 1,2-Dibromoethane	9.346	107	597602	148.73	ppb	98
78) Chlorobenzene	9.827	112	1671027	145.16	ppb	97
79) 3-CBTF	9.840	180	953267	152.93	ppb	99
80) 4-CBTF	9.894	180	850356	155.01	ppb	99
81) 1,1,1,2-Tetrachloroethane	9.913	131	629557	162.30	ppb	98
82) Ethylbenzene	9.937	106	945147	149.40	ppb	# 86
83) (m+p)Xylene	10.053	106	2322239	314.17	ppb	# 83
84) o-Xylene	10.406	106	1164241	153.56	ppb	95
85) Styrene	10.425	104	2019517	160.29	ppb	96
87) Bromoform	10.583	173	465023	170.30	ppb	100
88) 2-CBTF	10.656	180	973070	148.79	ppb	95
89) Isopropylbenzene	10.736	105	2924099	140.59	ppb	96
90) Cyclohexanone	10.827	55	3009238	2887.54	ppb	95
91) trans-1,4-Dichloro-2-B...	11.065	53	289723	161.61	ppb	90
92) 1,1,2,2-Tetrachloroethane	11.016	83	964952	149.22	ppb	100
93) Bromobenzene	10.992	156	806496	152.17	ppb	95
94) 1,2,3-Trichloropropane	11.047	110	317906	139.82	ppb	99
95) n-Propylbenzene	11.089	91	3428099	142.77	ppb	93
96) 2-Chlorotoluene	11.156	91	2189404	146.01	ppb	99
97) 3-Chlorotoluene	11.211	91	2182806	140.72	ppb	97
98) 4-Chlorotoluene	11.254	91	2533516	147.04	ppb	92
99) 1,3,5-Trimethylbenzene	11.242	105	2680930	147.32	ppb	95
100) tert-Butylbenzene	11.516	119	2303806	145.61	ppb	96
101) 1,2,4-Trimethylbenzene	11.553	105	2691291	148.04	ppb	96
102) 3,4-DCBTF	11.620	214	828404	158.24	ppb	97
103) sec-Butylbenzene	11.693	105	3241551	143.95	ppb	95
104) p-Isopropyltoluene	11.815	119	2928849	148.67	ppb	94
105) 1,3-Dclbenz	11.784	146	1619560	149.39	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43637.D
 Acq On : 9 Feb 2021 2:44 pm
 Operator : K.Ruest
 Sample : 150ppb Inst : MSVOA-12
 Misc : WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 09 16:36:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

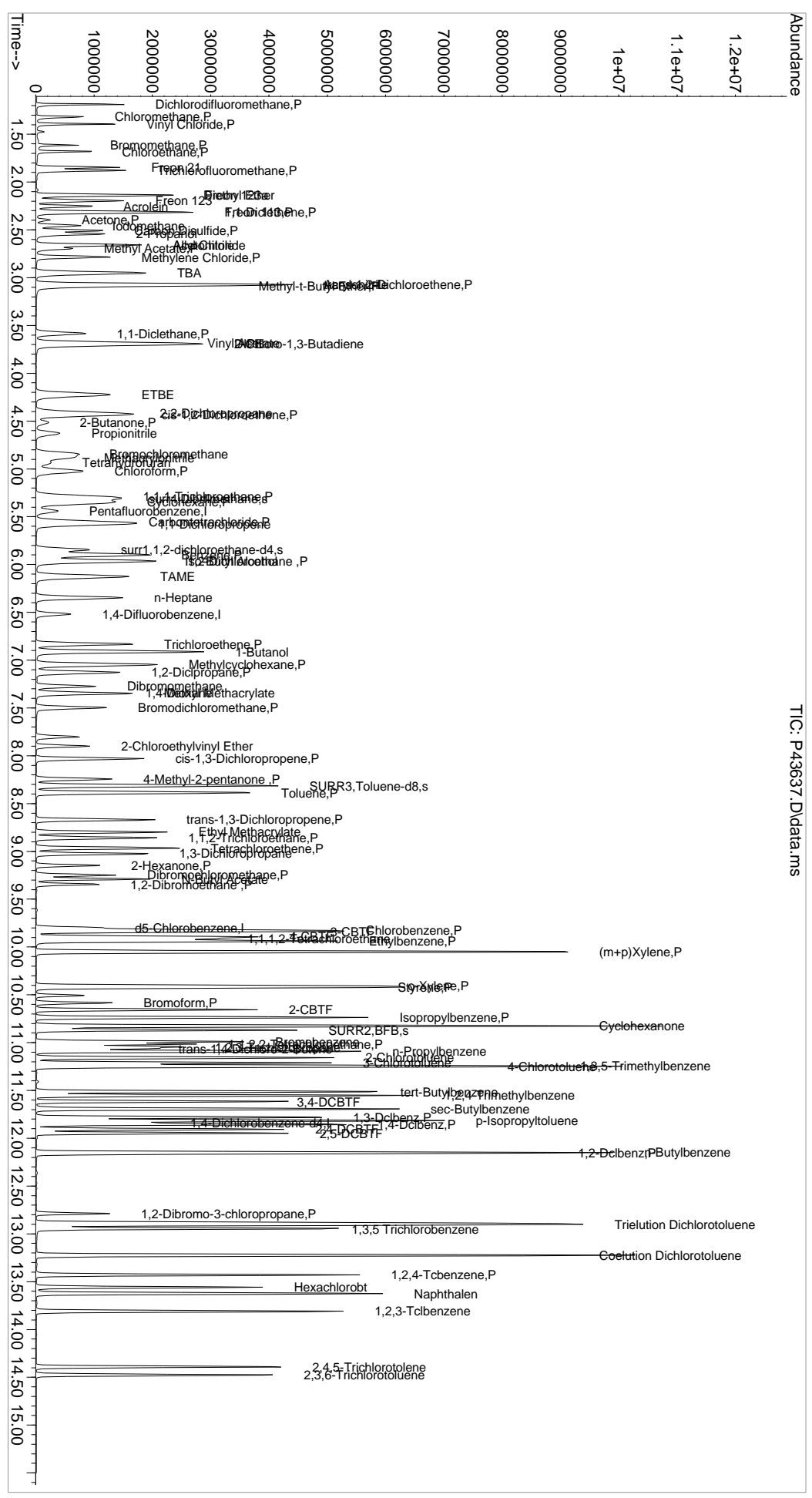
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.857	146	1649011	144.12	ppb	99
107) 2,4-DCBTF	11.906	214	764689	155.59	ppb	98
108) 2,5-DCBTF	11.949	214	860378	156.27	ppb	97
109) n-Butylbenzene	12.150	91	2718345	152.32	ppb	95
110) 1,2-Dclbenz	12.156	146	1644364	149.10	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.790	157	279111	158.56	ppb	95
112) Trielution Dichlorotol...	12.900	125	4345568	444.95	ppb	94
113) 1,3,5 Trichlorobenzene	12.949	180	1215390	153.23	ppb	98
114) Coelution Dichlorotoluene	13.223	125	3103469	287.85	ppb	93
115) 1,2,4-Tcbenzene	13.430	180	1233415	148.42	ppb	99
116) Hexachlorobt	13.558	225	516774	141.04	ppb	99
117) Naphthalen	13.625	128	3515212	144.32	ppb	93
118) 1,2,3-Tclbenzene	13.808	180	1217397	146.85	ppb	98
119) 2,4,5-Trichlorotolene	14.394	159	912390	151.32	ppb	100
120) 2,3,6-Trichlorotoluene	14.473	159	812021	140.55	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

02/09/21
1st

Data Path : I:\ACQDATA\msvoa12\Data\020921\
 Data File : P43637.D
 Acq On : 9 Feb 2021 2:44 pm
 Operator : K.Ruest
 Sample : 150ppb
 Conc : WATER ICAL
 PALS Vial : 9 Sample Multiplier: 1
 Quant Time: Feb 09 16:36:25 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

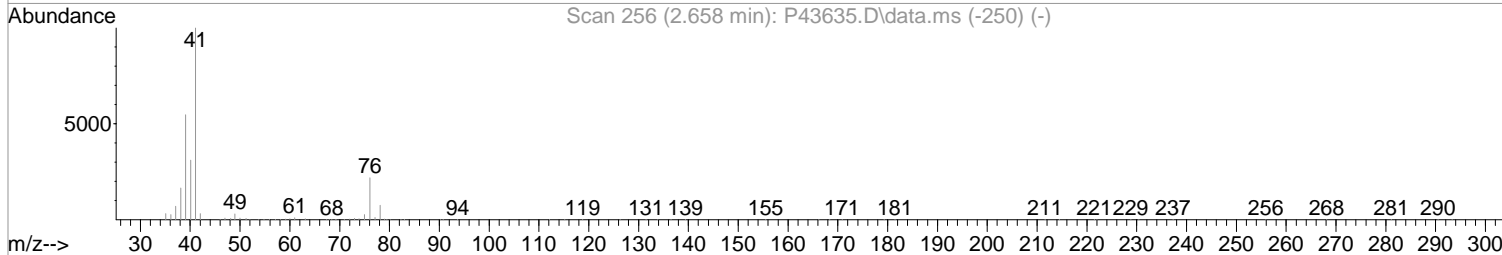
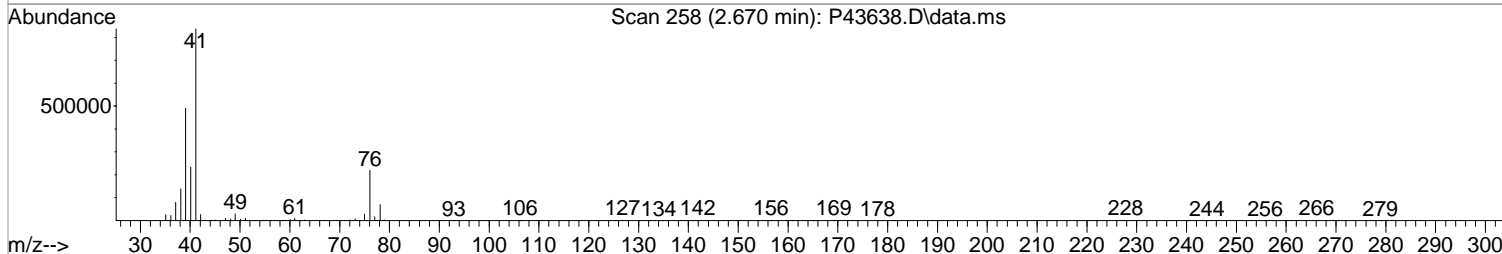
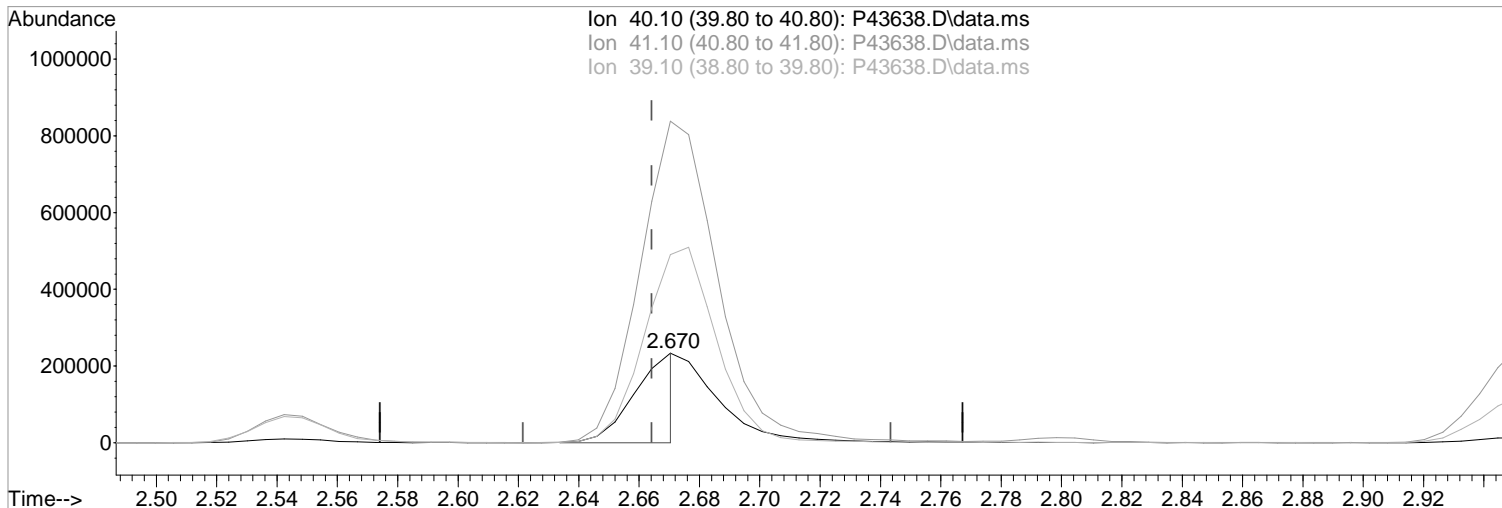
Inst : MSVOA-12



Data Path : I:\ACQUDATA\msvoa12\Data\020921\
Data File : P43638.D
Acq On : 9 Feb 2021 3:06 pm
Operator : K.Ruest
Sample : 200ppb
Misc : WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:29 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43638.D\data.ms

(19) Acetonitrile

2.670min (+0.006) 1130.54 ppb m

response 229660

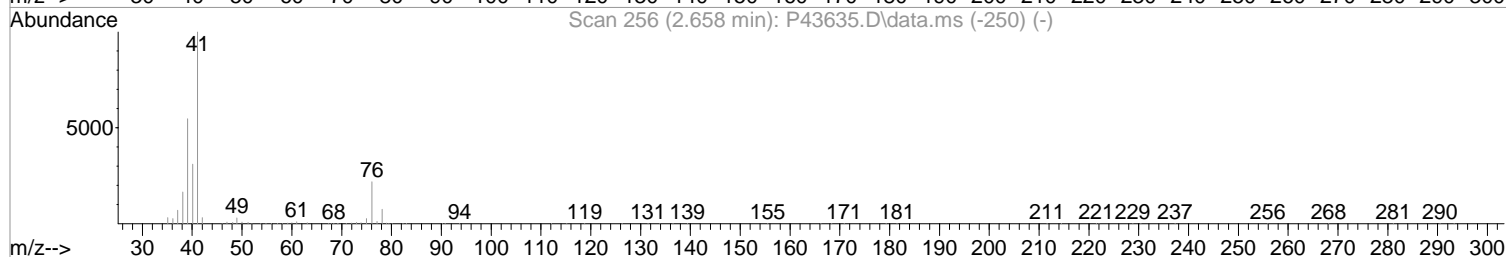
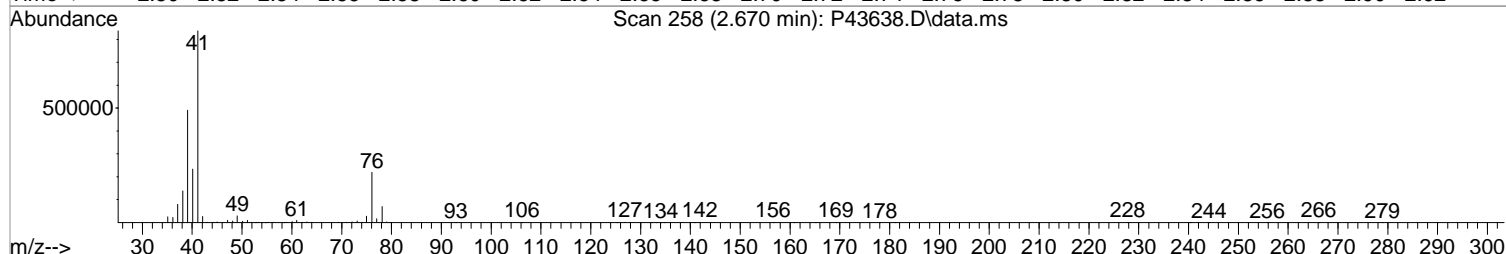
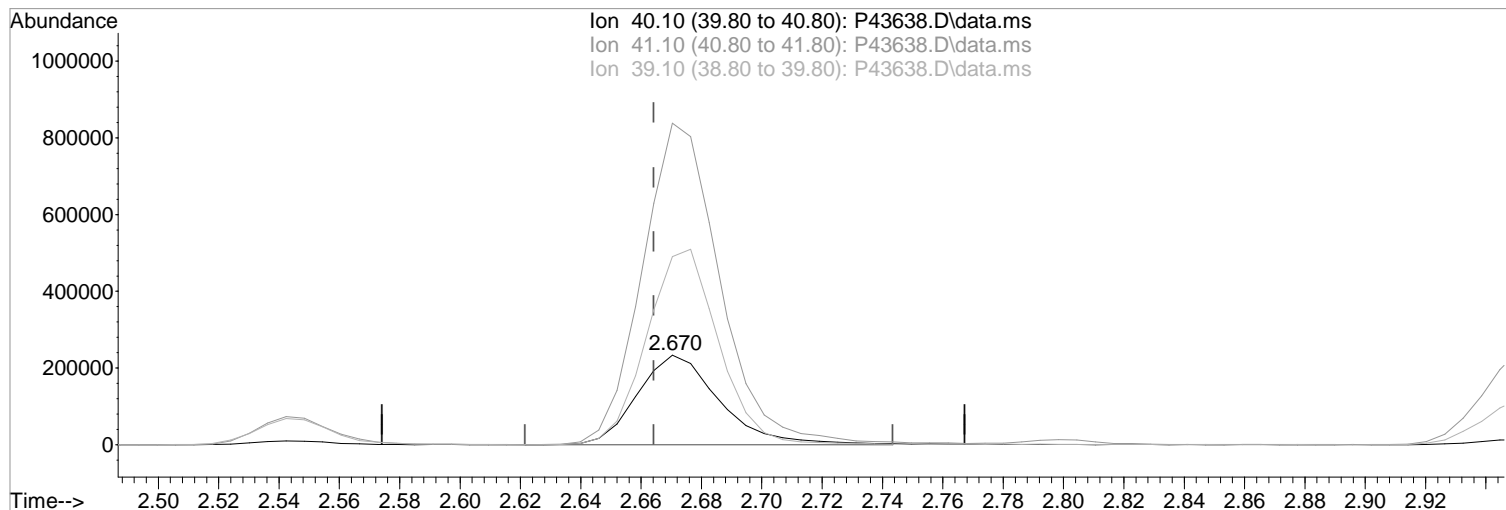
Ion	Exp%	Act%
40.10	100	100
41.10	321.20	358.78#
39.10	175.80	210.03#
0.00	0.00	0.00

Manual Integration:
After
Poor integration.
02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
Data File : P43638.D
Acq On : 9 Feb 2021 3:06 pm
Operator : K.Ruest
Sample : 200ppb
Misc : WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:00:29 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



TIC: P43638.D\data.ms

(19) Acetonitrile
2.670min (+0.006) 2185.89 ppb
response 444044

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	321.20	358.78#
39.10	175.80	210.03#
0.00	0.00	0.00

02/09/21

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43638.D
 Acq On : 9 Feb 2021 3:06 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:37:47 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	351296	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	530488	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	513869	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	309233	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	151331	51.54	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	103.08%	
48) surr1,1,2-dichloroetha...	5.853	65	188431	50.82	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	101.64%	
65) SURR3,Toluene-d8	8.316	98	671626	52.07	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	104.14%	
70) SURR2,BFB	10.870	95	273280	53.43	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	106.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.201	85	923574	210.43	ppb	97
3) Chloromethane	1.329	50	767073	195.59	ppb	97
4) Vinyl Chloride	1.402	62	1035265	197.70	ppb	99
5) Bromomethane	1.628	94	303893	72.59	ppb	97
6) Chloroethane	1.701	64	621829	184.46	ppb	97
7) Freon 21	1.866	67	1121230	184.11	ppb	100
8) Trichlorofluoromethane	1.902	101	1062416	191.15	ppb	96
9) Diethyl Ether	2.146	59	581054	195.71	ppb	99
10) Freon 123a	2.152	67	718849	187.51	ppb	98
11) Freon 123	2.207	83	856218	193.64	ppb	99
12) Acrolein	2.262	56	837190	976.22	ppb	95
13) 1,1-Diclcethene	2.335	96	515005	181.73	ppb	97
14) Freon 113	2.335	101	646734	187.62	ppb	89
15) Acetone	2.408	43	291611	182.12	ppb	97
16) 2-Propanol	2.542	45	1569767	4029.21	ppb	99
17) Iodomethane	2.469	142	1004903	283.12	ppb	100
18) Carbon Disulfide	2.524	76	1623239	191.88	ppb	99
19) Acetonitrile	2.670	40	229660m	1130.54	ppb	
20) Allyl Chloride	2.676	76	371911	202.34	ppb	93
21) Methyl Acetate	2.707	43	751412	186.04	ppb	97
22) Methylene Chloride	2.798	84	655953	178.08	ppb	98
23) TBA	2.957	59	2878344	3938.43	ppb	100
24) Acrylonitrile	3.085	53	1789676	1001.28	ppb	96
25) Methyl-t-Butyl Ether	3.091	73	2403049	192.86	ppb	97
26) trans-1,2-Dichloroethene	3.085	96	609842	190.14	ppb	97
28) 1,1-Diclcethane	3.597	63	1109464	186.30	ppb	98
29) Vinyl Acetate	3.695	86	137145	195.66	ppb	# 92
30) DIPE	3.707	45	1829634	194.93	ppb	90
31) 2-Chloro-1,3-Butadiene	3.713	53	1010367	195.32	ppb	96
32) ETBE	4.237	59	2030121	192.09	ppb	100
33) 2,2-Dichloropropane	4.432	77	1108111	188.84	ppb	97
34) cis-1,2-Dichloroethene	4.450	96	729631	189.45	ppb	100
35) 2-Butanone	4.524	43	437541	186.52	ppb	99
36) Propionitrile	4.639	54	747867	947.35	ppb	93
37) Bromochloromethane	4.859	130	472336	187.87	ppb	96
38) Methacrylonitrile	4.896	67	390703	190.10	ppb	90
39) Tetrahydrofuran	4.944	42	291889	181.41	ppb	98
40) Chloroform	5.036	83	1174763	191.13	ppb	97
41) 1,1,1-Trichloroethane	5.304	97	1122836	191.73	ppb	98

Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43638.D
 Acq On : 9 Feb 2021 3:06 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 16:37:47 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	2157324	195.59	ppb	98
44) Cyclohexane	5.365	41	611390	202.96	ppb	94
46) Carbontetrachloride	5.566	117	959514	208.55	ppb	98
47) 1,1-Dichloropropene	5.590	75	902033	189.58	ppb	95
49) Benzene	5.907	78	2730699	193.55	ppb	98
50) 1,2-Dichloroethane	5.968	62	964807	195.88	ppb	98
51) Iso-Butyl Alcohol	5.968	43	1158647	4280.75	ppb	99
52) n-Heptane	6.353	43	821953	204.40	ppb	95
53) 1-Butanol	6.913	56	2108974	11342.50	ppb	99
54) Trichloroethene	6.840	130	740728	190.92	ppb	97
55) Methylcyclohexane	7.054	55	889748	193.79	ppb	95
56) 1,2-Diclpropane	7.133	63	655311	192.09	ppb	97
57) Dibromomethane	7.279	93	468335	189.30	ppb	91
58) 1,4-Dioxane	7.340	88	347633	3910.56	ppb	96
59) Methyl Methacrylate	7.352	69	666961	205.00	ppb	97
60) Bromodichloromethane	7.499	83	967823	208.96	ppb	98
62) 2-Chloroethylvinyl Ether	7.901	63	453616	209.79	ppb	94
63) cis-1,3-Dichloropropene	8.035	75	1164763	204.58	ppb	97
64) 4-Methyl-2-pentanone	8.248	43	932014	201.00	ppb	96
66) Toluene	8.389	91	3215203	191.54	ppb	97
67) trans-1,3-Dichloropropene	8.669	75	1150910	207.41	ppb	98
68) Ethyl Methacrylate	8.803	69	1217705	210.04	ppb	98
69) 1,1,2-Trichloroethane	8.864	97	725670	196.83	ppb	97
72) Tetrachloroethene	8.968	164	628244	193.29	ppb	96
73) 2-Hexanone	9.145	43	722007	202.15	ppb	98
74) 1,3-Dichloropropane	9.029	76	1199482	191.37	ppb	96
75) Dibromochloromethane	9.248	129	787355	215.49	ppb	98
76) N-Butyl Acetate	9.291	43	1357921	203.14	ppb	99
77) 1,2-Dibromoethane	9.346	107	780433	193.75	ppb	98
78) Chlorobenzene	9.827	112	2149291	186.24	ppb	95
79) 3-CBTF	9.840	180	1288571	206.20	ppb	99
80) 4-CBTF	9.895	180	1148874	208.90	ppb	99
81) 1,1,1,2-Tetrachloroethane	9.913	131	825802	212.35	ppb	98
82) Ethylbenzene	9.937	106	1210502	190.87	ppb	# 80
83) (m+p)Xylene	10.053	106	2946979	397.68	ppb	# 74
84) o-Xylene	10.407	106	1487963	195.77	ppb	91
85) Styrene	10.425	104	2576757	204.01	ppb	94
87) Bromoform	10.583	173	609716	215.47	ppb	96
88) 2-CBTF	10.657	180	1289756	190.30	ppb	97
89) Isopropylbenzene	10.736	105	3666510	170.11	ppb	93
90) Cyclohexanone	10.827	55	3874305	3587.45	ppb	90
91) trans-1,4-Dichloro-2-B...	11.065	53	365736	196.86	ppb	92
92) 1,1,2,2-Tetrachloroethane	11.016	83	1208495	180.34	ppb	100
93) Bromobenzene	10.992	156	1031929	187.89	ppb	99
94) 1,2,3-Trichloropropane	11.047	110	407522	172.96	ppb	96
95) n-Propylbenzene	11.089	91	4213688	169.34	ppb	89
96) 2-Chlorotoluene	11.156	91	2749044	176.91	ppb	97
97) 3-Chlorotoluene	11.211	91	2798102	174.07	ppb	96
98) 4-Chlorotoluene	11.254	91	3229558	180.88	ppb	90
99) 1,3,5-Trimethylbenzene	11.242	105	3413109	180.98	ppb	92
100) tert-Butylbenzene	11.516	119	2928739	178.63	ppb	93
101) 1,2,4-Trimethylbenzene	11.553	105	3356703	178.18	ppb	92
102) 3,4-DCBTF	11.620	214	1107158	204.09	ppb	97
103) sec-Butylbenzene	11.693	105	3997637	171.31	ppb	91
104) p-Isopropyltoluene	11.815	119	3606048	176.64	ppb	89
105) 1,3-Dclbenz	11.784	146	2064413	183.75	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\020921\
 Data File : P43638.D
 Acq On : 9 Feb 2021 3:06 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

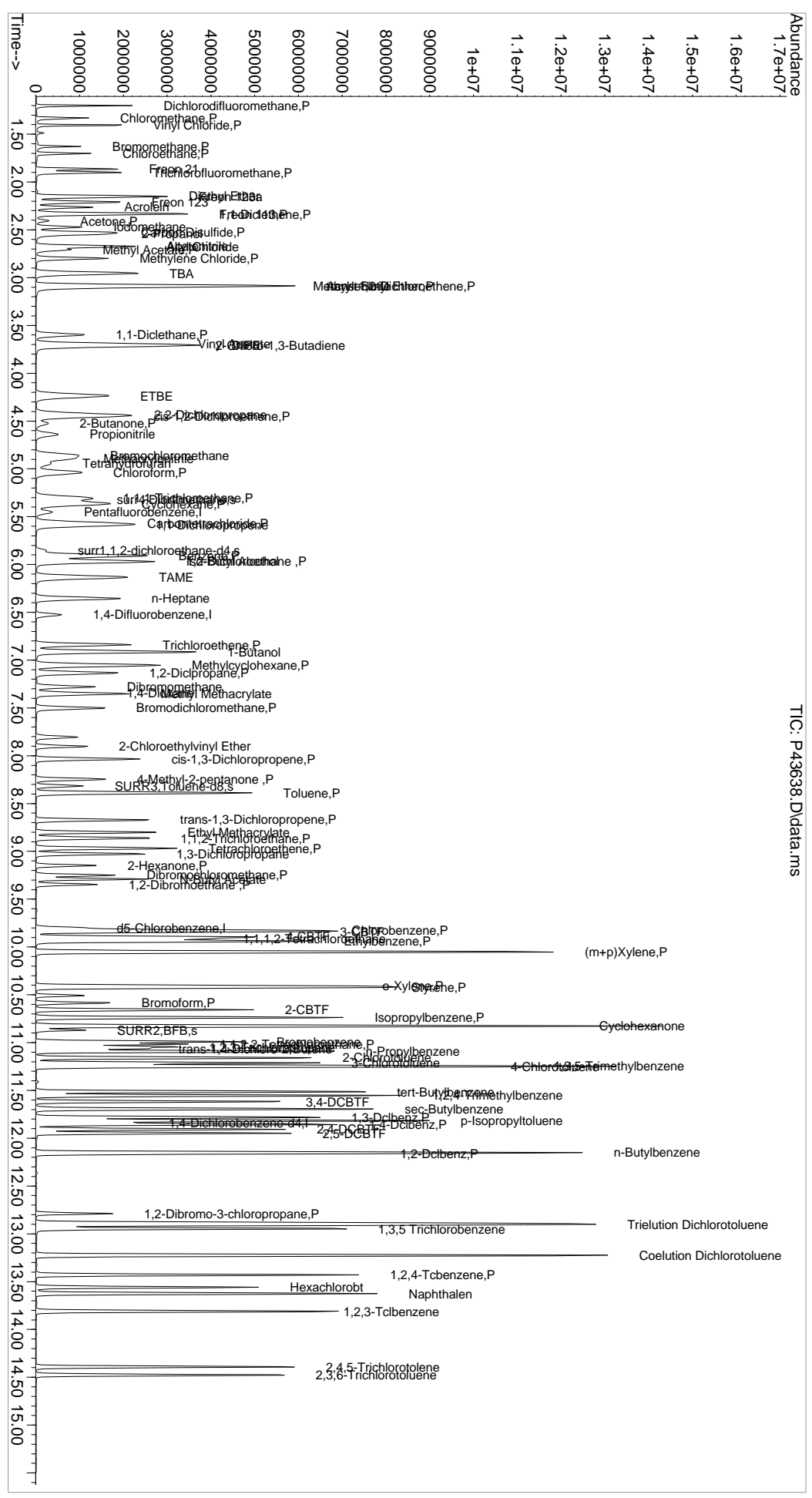
Quant Time: Feb 09 16:37:47 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 15:32:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.858	146	2123167	179.07	ppb	99
107) 2,4-DCBTF	11.906	214	1046379	205.46	ppb	99
108) 2,5-DCBTF	11.949	214	1114495	195.33	ppb	97
109) n-Butylbenzene	12.150	91	3424094	185.14	ppb	90
110) 1,2-Dclbenz	12.162	146	2109937	184.62	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.790	157	376097	206.17	ppb	95
112) Trielution Dichlorotol...	12.900	125	5657380	558.99	ppb	89
113) 1,3,5 Trichlorobenzene	12.949	180	1654196	201.25	ppb	99
114) Coelution Dichlorotoluene	13.223	125	4021015	359.89	ppb #	88
115) 1,2,4-Tcbenzene	13.430	180	1643494	190.84	ppb	98
116) Hexachlorobt	13.558	225	706342	186.03	ppb	99
117) Naphthalen	13.626	128	4344609	172.12	ppb	88
118) 1,2,3-Tclbenzene	13.814	180	1634540	190.26	ppb	96
119) 2,4,5-Trichlorotolene	14.394	159	1268304	202.98	ppb	100
120) 2,3,6-Trichlorotoluene	14.479	159	1131660	189.02	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

02/09/21
Data Path : I:\ACQDATA\msvoa12\Data\020921\
Data File : P43638.D
Acq On : 9 Feb 2021 3:06 pm
Operator : K.Ruest
Sample : 200ppb
Disc : WATER ICAL
PALS Vial : 10 Sample Multiplier: 1
Inst : MSVOA-12

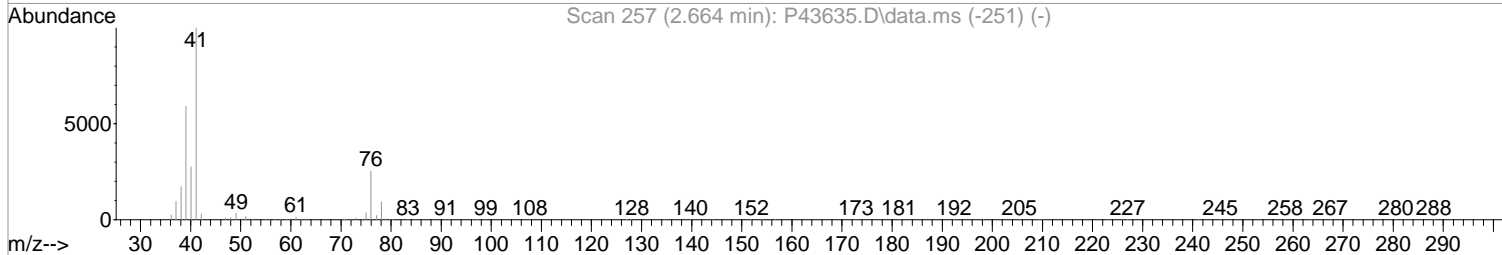
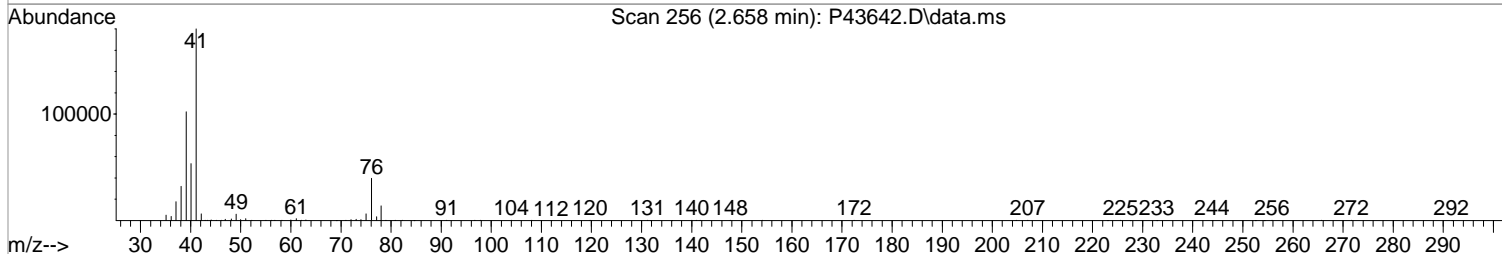
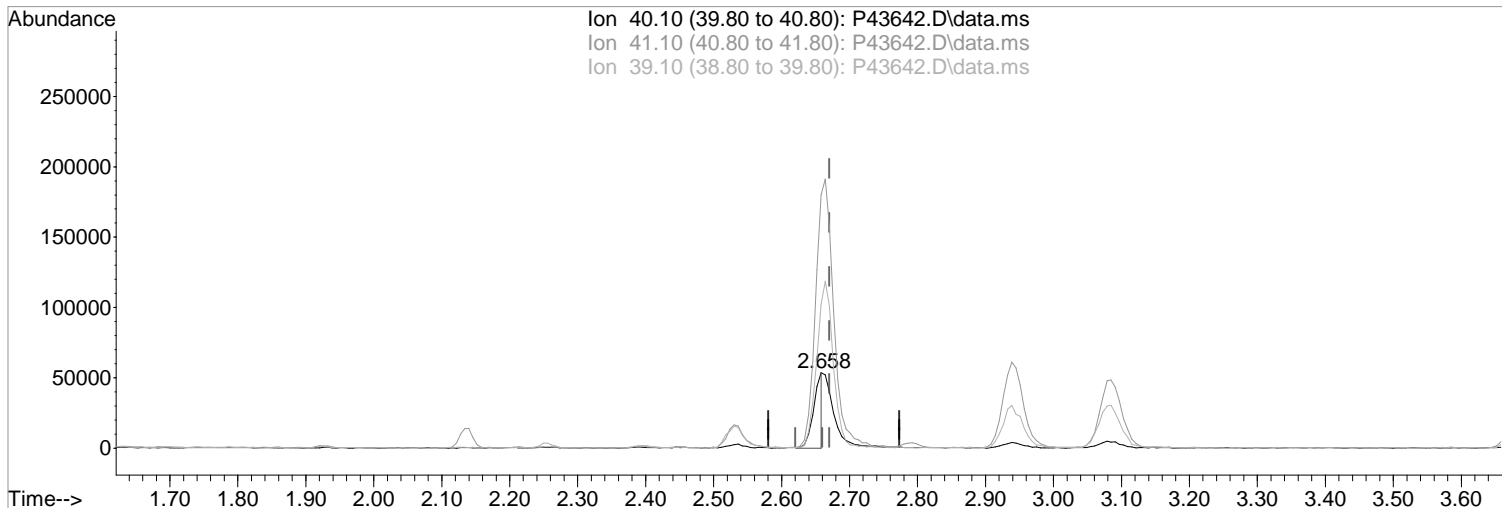
Quant Time: Feb 09 16:37:47 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W020921.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QIast Update : Tue Feb 09 15:32:59 2021
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\020921\
 Data File : P43642.D
 Acq On : 9 Feb 2021 4:33 pm
 Operator : K.Ruest
 Sample : ICV 50
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 09 17:47:13 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W020921.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Feb 09 17:27:18 2021
 Response via : Initial Calibration



TIC: P43642.D\data.ms

(19) Acetonitrile
 2.658min (-0.012) 236.91 ppb m
 response 49077

Manual Integration:
 After
 Poor integration.

Ion	Exp%	Act%
40.10	100	100
41.10	361.80	336.07#
39.10	213.50	190.73#
0.00	0.00	0.00

02/09/21

Analysis: K. Puert
 Date: 2/9/2021
 Instr. 12
 Analyst: K. Puert
 Balance ID: 21A
 50 mL Class A used for dilution FV
 Syringes: 205000 + 202106
 pH strips: N/A
 ResCl strips: N/A
 Tune Method: WD20921
 Run Method: V
 LIMS Run#: 1C AL

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	RVL							P43624		
2	SD TEST							P43625		(Indume)
3	RVL							P43626		
4	RVL							P43627		
5	NVE							P43628		(Contd) 11:15
1	1BUL	(5ppm)	(500ppm)	(5450)				P43629	Y	
2	0.5 PNB	5ul						P43630	Y	
3	1.0	10ul						P43631	Y	
4	2.0	20ul						P43632	Y	
5	5.0	50ul						P43633	Y	
6	20	20ul						P43634	Y	
7	50	5ul						P43635	Y	
8	100	10ul						P43636	Y	
9	150	15ul						P43637	Y	
10	200	20ul						P43638	Y	
11	RVL							P43639		
12								P43640		
13								P43641		
14	1CV. 50ppb							P43642	NO	
15	RVL							P43643		
16								P43644		

500 Primary Oct: 214939
 Primary R+ : 215141
 Primary T6 : 215384
 Primary HBL : 215356
 Primary

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged
 and Secondary R+ : 214949 - 125ul
 Secondary Oct: 215003
 Secondary T6 : 215014
 Secondary HSL : 215447
 Secondary

Combined IS/Surr
 Surrogate SD : 215379
 Internal Std SD : 215378
 Reagents:

VP
2/9/2021

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2102165
Calibration Date: 2/9/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100018
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2100018-01	0.5ppb	I:\ACQUADATA\msvoa12\Data\020921\P43630.D	02/09/2021 12:11
02	RC2100018-02	1.0ppb	I:\ACQUADATA\msvoa12\Data\020921\P43631.D	02/09/2021 12:33
03	RC2100018-03	2.0ppb	I:\ACQUADATA\msvoa12\Data\020921\P43632.D	02/09/2021 12:54
04	RC2100018-04	5.0ppb	I:\ACQUADATA\msvoa12\Data\020921\P43633.D	02/09/2021 13:16
05	RC2100018-05	20ppb	I:\ACQUADATA\msvoa12\Data\020921\P43634.D	02/09/2021 13:38
06	RC2100018-06	50ppb	I:\ACQUADATA\msvoa12\Data\020921\P43635.D	02/09/2021 14:00
07	RC2100018-07	100ppb	I:\ACQUADATA\msvoa12\Data\020921\P43636.D	02/09/2021 14:22
08	RC2100018-08	150ppb	I:\ACQUADATA\msvoa12\Data\020921\P43637.D	02/09/2021 14:44
09	RC2100018-09	200ppb	I:\ACQUADATA\msvoa12\Data\020921\P43638.D	02/09/2021 15:06

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8925	02	1.000	0.8722	03	2.000	0.8635	04	5.000	0.8198
05	20.000	0.8187	06	50.000	0.8086	07	100.000	0.8144	08	150.000	0.8181
09	200.000	0.7991									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.991	02	1.000	0.8083	03	2.000	0.8443	04	5.000	0.8411
05	20.000	0.8527	06	50.000	0.8209	07	100.000	0.8123	08	150.000	0.8169
09	200.000	0.7896									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5274	02	1.000	0.4545	03	2.000	0.3862	04	5.000	0.3673
05	20.000	0.3819	06	50.000	0.3623	07	100.000	0.3687	08	150.000	0.379
09	200.000	0.3665									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4852	05	20.000	0.4341	06	50.000	0.4892	07	100.000	0.4973
08	200.000	0.5045									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.2866	05	20.000	0.2565	06	50.000	0.2826	07	100.000	0.2798
08	200.000	0.2783									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4053	02	1.000	0.2919	03	2.000	0.2965	04	5.000	0.3094
05	20.000	0.3123	06	50.000	0.3041	07	100.000	0.3047	08	150.000	0.3165
09	200.000	0.3056									

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2102165
Calibration Date: 2/9/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100018
Instrument ID: R-MS-12

Signal ID: 1

Analyte

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.276	05	20.000	1.143	06	50.000	1.257	07	100.000	1.211
08	200.000	1.191									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3984	02	1.000	0.4299	03	2.000	0.3336	04	5.000	0.3626
05	20.000	0.3638	06	50.000	0.3515	07	100.000	0.3474	08	150.000	0.3549
09	200.000	0.3491									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7452	02	1.000	0.7774	03	2.000	0.7582	04	5.000	0.6967
05	20.000	0.7746	06	50.000	0.7624	07	100.000	0.7458	08	150.000	0.7111
09	200.000	0.7367									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6056	02	1.000	0.5778	03	2.000	0.549	04	5.000	0.522
05	20.000	0.5493	06	50.000	0.5431	07	100.000	0.5343	08	150.000	0.533
09	200.000	0.5192									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5592	02	1.000	0.4906	03	2.000	0.4363	04	5.000	0.4069
05	20.000	0.4565	06	50.000	0.434	07	100.000	0.4336	08	150.000	0.4454
09	200.000	0.434									

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2102165
Calibration Date: 2/9/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100018
Instrument ID: R-MS-12

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	4.0	20	0.8341	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	7.0	20	0.8419	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	13.9	20	0.3993	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	5.8	20	0.4821	
Dibromofluoromethane	SURR	Average RF	% RSD	4.2	20	0.2768	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	10.8	20	0.3163	0.200
Toluene-d8	SURR	Average RF	% RSD	4.4	20	1.216	
Trichloroethene (TCE)	TRG	Average RF	% RSD	8.2	20	0.3657	0.200
Vinyl Chloride	TRG	Average RF	% RSD	3.7	20	0.7453	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.1	20	0.5481	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	9.9	20	0.4552	0.100

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2102165
Calibration Date: 2/9/2021

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100018
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2100018-10	ICV 50	I:\ACQUDATA\msvoa12\Data\020921\P43642.D	02/09/2021 16:33

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	50.3	8.341E-1	8.394E-1	0.635	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.4	8.419E-1	8.313E-1	-1.256	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	55.1	3.993E-1	4.404E-1	10.28	±30	Average RF
Tetrachloroethene (PCE)	50.0	49.1	3.163E-1	3.105E-1	-1.814	±30	Average RF
Trichloroethene (TCE)	50.0	48.2	3.657E-1	3.524E-1	-3.629	±30	Average RF
Vinyl Chloride	50.0	50.9	7.453E-1	7.593E-1	1.87	±30	Average RF
cis-1,2-Dichloroethene	50.0	52.7	5.481E-1	5.773E-1	5.31	±30	Average RF
trans-1,2-Dichloroethene	50.0	55.6	4.552E-1	5.063E-1	11.24	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.8	4.821E-1	4.896E-1	1.57	±30	Average RF
Dibromofluoromethane	50.0	51.7	2.768E-1	2.859E-1	3.31	±30	Average RF
Toluene-d8	50.0	51.6	1.216E0	1.255E0	3.23	±30	Average RF

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2102165
Date Analyzed: 03/17/21 10:25

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa12\Data\031721\K0944.D\
Signal ID: 1

Calibration Date: 2/9/2021
Calibration ID: RC2100018
Analysis Lot: 716397
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	47.2	0.8341	0.787	-5.6	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	51.9	0.8419	0.8739	3.8	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	46.6	0.3993	0.3722	-6.8	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	47.0	0.3163	0.2975	-5.9	NA	±20	Average RF
Trichloroethene (TCE)	50.0	46.8	0.3657	0.3422	-6.4	NA	±20	Average RF
Vinyl Chloride	50.0	44.3	0.7453	0.6597	-11.5	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	50.1	0.5481	0.549	0.2	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	49.1	0.4552	0.4472	-1.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	55.6	0.4821	0.5358	11.1	NA	±20	Average RF
Dibromofluoromethane	50.0	52.2	0.2768	0.2889	4.4	NA	±20	Average RF
Toluene-d8	50.0	54.6	1.2156	1.3281	9.3	NA	±20	Average RF

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2102165
Date Analyzed: 03/18/21 10:43

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa12\Data\031821\K0977.D\
Signal ID: 1

Calibration Date: 2/9/2021
Calibration ID: RC2100018
Analysis Lot: 716612
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	47.2	0.8341	0.7866	-5.7	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.9	0.8419	0.8398	-0.3	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	46.6	0.3993	0.3722	-6.8	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	46.5	0.3163	0.294	-7.0	NA	±20	Average RF
Trichloroethene (TCE)	50.0	47.0	0.3657	0.3439	-5.9	NA	±20	Average RF
Vinyl Chloride	50.0	43.5	0.7453	0.6483	-13.0	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	48.2	0.5481	0.528	-3.7	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	47.8	0.4552	0.4347	-4.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	53.6	0.4821	0.5167	7.2	NA	±20	Average RF
Dibromofluoromethane	50.0	51.4	0.2768	0.2845	2.8	NA	±20	Average RF
Toluene-d8	50.0	52.9	1.2156	1.2869	5.9	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:716397
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUADATA\msvoa12\Data\031721\K0943.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	09:52:00	
I:\ACQUADATA\msvoa12\Data\031721\K0944.D\	Continuing Calibration Verification	RQ2102741-02	3/17/2021	10:25:00	
I:\ACQUADATA\msvoa12\Data\031721\K0945.D\	Lab Control Sample	RQ2102741-03	3/17/2021	10:53:00	
I:\ACQUADATA\msvoa12\Data\031721\K0948.D\	Method Blank	RQ2102741-04	3/17/2021	12:05:00	
I:\ACQUADATA\msvoa12\Data\031721\K0949.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	12:27:00	
I:\ACQUADATA\msvoa12\Data\031721\K0950.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	12:49:00	
I:\ACQUADATA\msvoa12\Data\031721\K0951.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	13:11:00	
I:\ACQUADATA\msvoa12\Data\031721\K0952.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	13:33:00	
I:\ACQUADATA\msvoa12\Data\031721\K0953.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	13:55:00	
I:\ACQUADATA\msvoa12\Data\031721\K0954.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	14:17:00	
I:\ACQUADATA\msvoa12\Data\031721\K0955.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	14:39:00	
I:\ACQUADATA\msvoa12\Data\031721\K0958.D\	Trip Blank	R2102165-008	3/17/2021	15:44:00	
I:\ACQUADATA\msvoa12\Data\031721\K0959.D\	FB-030921	R2102165-006	3/17/2021	16:06:00	
I:\ACQUADATA\msvoa12\Data\031721\K0960.D\	MW-10 030921	R2102165-001	3/17/2021	16:28:00	
I:\ACQUADATA\msvoa12\Data\031721\K0961.D\	MW-9 030921	R2102165-002	3/17/2021	16:50:00	
I:\ACQUADATA\msvoa12\Data\031721\K0962.D\	MW-17 030921	R2102165-003	3/17/2021	17:12:00	
I:\ACQUADATA\msvoa12\Data\031721\K0965.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	18:18:00	
I:\ACQUADATA\msvoa12\Data\031721\K0966.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	18:40:00	
I:\ACQUADATA\msvoa12\Data\031721\K0967.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	19:02:00	
I:\ACQUADATA\msvoa12\Data\031721\K0968.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	19:23:00	
I:\ACQUADATA\msvoa12\Data\031721\K0969.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	19:45:00	
I:\ACQUADATA\msvoa12\Data\031721\K0970.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	20:07:00	
I:\ACQUADATA\msvoa12\Data\031721\K0971.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	20:29:00	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:716397
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\031721 \K0972.D\	ZZZZZZZ	ZZZZZZZ	3/17/2021	20:51:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:716612
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUADATA\msvoa12\Data\031821\K0976.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	10:13:00	
I:\ACQUADATA\msvoa12\Data\031821\K0977.D	Continuing Calibration Verification	RQ2102816-02	3/18/2021	10:43:00	
I:\ACQUADATA\msvoa12\Data\031821\K0978.D	Lab Control Sample	RQ2102816-03	3/18/2021	11:21:00	
I:\ACQUADATA\msvoa12\Data\031821\K0981.D	Method Blank	RQ2102816-04	3/18/2021	12:33:00	
I:\ACQUADATA\msvoa12\Data\031821\K0982.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	12:59:00	
I:\ACQUADATA\msvoa12\Data\031821\K0983.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	13:21:00	
I:\ACQUADATA\msvoa12\Data\031821\K0984.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	13:43:00	
I:\ACQUADATA\msvoa12\Data\031821\K0985.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	14:05:00	
I:\ACQUADATA\msvoa12\Data\031821\K0986.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	14:27:00	
I:\ACQUADATA\msvoa12\Data\031821\K0987.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	14:49:00	
I:\ACQUADATA\msvoa12\Data\031821\K0988.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	15:10:00	
I:\ACQUADATA\msvoa12\Data\031821\K0989.D	MW-8-030921	R2102165-005	3/18/2021	15:32:00	
I:\ACQUADATA\msvoa12\Data\031821\K0990.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	15:54:00	
I:\ACQUADATA\msvoa12\Data\031821\K0991.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	16:16:00	
I:\ACQUADATA\msvoa12\Data\031821\K0992.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	16:38:00	
I:\ACQUADATA\msvoa12\Data\031821\K0993.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	17:00:00	
I:\ACQUADATA\msvoa12\Data\031821\K0994.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	17:22:00	
I:\ACQUADATA\msvoa12\Data\031821\K0995.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	17:44:00	
I:\ACQUADATA\msvoa12\Data\031821\K0996.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	18:06:00	
I:\ACQUADATA\msvoa12\Data\031821\K0998.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	18:50:00	
I:\ACQUADATA\msvoa12\Data\031821\K0999.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	19:12:00	
I:\ACQUADATA\msvoa12\Data\031821\K1000.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	19:34:00	
I:\ACQUADATA\msvoa12\Data\031821\K1001.D	ZZZZZZZ	ZZZZZZZ	3/18/2021	19:56:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:716612
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\031821\K1002.D\	ZZZZZZZ	ZZZZZZZ	3/18/2021	20:18:00	
I:\ACQUDATA\msvoa12\Data\031821\K1003.D\	ZZZZZZZ	ZZZZZZZ	3/18/2021	20:40:00	

Analysis: SKMedLab2012
 Date: 3/17/2011
 Instr: 12
 Analyst: V. Duvst
 Balance ID: N/A
 50 mL Class A used for dilution FV
 Syringes: 205000
 pH strips: 222120
 ResCl strips: N/A
 Tune Method: W020921
 Run Method: ↓
 LIMS Run#: 716297

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BVL							K0942		
2	RUE		P2102541.01					K0943	Y	(auto) 9:52
1	CCV		02					K0944	Y	
1	LC5.FP		03					K0945	Y	
1	BVL							K0946	(D)	apt 9/6
2	INBUL.VMP							K0947	Y	
3	INBUL.FP		04					K0948	Y	
4	P2102104.001	1.0		22788	4	1	22	K0949	Y	
5	↓	0.04	1.0	↓	↓	1	22	K0950	Y	
6	P2102102.001	1.0		↓	↓	1	22	K0951	Y	
7	P2102117.005	1.0		87068	2	1	22	K0952	Y	
8		0.01	1.0	↓	↓	1	22	K0953	Y	
9		0.02	1.0	↓	↓	1	22	K0954	Y	
10		0.03	1.0	↓	↓	1	22	K0955	Y	
11	↓	0.04	2.5	↓	↓	1	22	K0956	(D)	apt (2)
12	BVL							K0957		
13	P2102105.005	1.0		60916	4	1	22	K0958	Y	
14		0.06	1.0	↓	↓	1	22	K0959	Y	
15		0.01	1.0	↓	↓	1	22	K0960	Y	
16		0.02	1.0	↓	↓	1	22	K0961	Y	
17		0.03	1.0	↓	↓	1	22	K0962	Y	
18	↓	0.05	1.0	↓	↓	1	22	K0963	(D)	apt 3.5
19	BVL							K0964		
20	P2102250.006	1.0		6075	2	1	22	K0965	Y	
21		0.01	1.0	↓	↓	1	22	K0966	Y	
22		0.02	1.0	↓	↓	1	22	K0967	Y	
23		0.03	1.0	↓	↓	1	22	K0968	Y	
24		0.04	1.0	↓	↓	1	22	K0969	Y	
25	↓	0.05	1.0	↓	↓	1	22	K0970	Y	
26	P2102117.002	1.0	P2102117 (MS)	5168	2	2	22	K0971	Y	
27	MSD	1.0	↓	↓	↓	3	22	K0972	Y	
28	BVL							K0973		

SUD Primary Occ: 214939
 Primary Fr+: 215766
 Primary Tr: 215667
 Primary Hst: 215694
 All samples = 5 mL + 5 mL combined IS/Surr. - 5 mL purged
 SUD Secondary Occ: 215967
 SUD Secondary Fr+: 215968
 SUD Secondary Tr: 215969
 SUD Secondary Hst: 216010
 - 10 mL Surrogate SUD: 215873
 Internal Sids: 215872
 Reagents: 50ml
 1/2 ml vial = MS/D

Analysis: 5000 Wetens Analyst: V. Duvest pH strips: 222130 Tune Method: W 020921
 Date: 3/16/2021 Balance ID: 2/A ResCl strips: 2/A Run Method: ↓
 Instr: 12 50 mL Class A used for dilution FV Syringes: 205000 LIMS Run#: 716612

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BVL									
2	↓									
3	WVE		W02102816.01							10:13 (auto)
1	CCV		02							
1	LCS-FP		03							
1	BVL									
2	mbw. wmp									
3	mbw. FP		04							
4	P2102452.001	1.0		10818	2	1	42	Y0982	Y	
5	↓	0.02		↓	↓	1	42	Y0983	Y	
6	P2102455.01	1.0	TECPBuk	6650	2	1	6	Y0984	Y	
7	P2102195.001	1.0	TECP	↓	↓	1	7	Y0985	Y	
8	P2102266.001	5.0	↓	8524	2	1	42	Y0986	Y	Fenny
9	↓	0.02		↓	↓	1	42	Y0987	Y	↓
10	P2102117.004	2.0	35/50mls	8765	2	2	42	Y0988	Y	
11	P2102165.005	2.5	30/50mls	6646	4	2	42	Y0989	Y	
12	P2102254.011	1.0		6625	2	1	42	Y0990	Y	npt 2.0 (TCE)
13		0.01				1	42	Y0991	Y	
14		0.02				1	42	Y0992	Y	
15		0.04				1	42	Y0993	Y	
16		0.08				1	42	Y0994	Y	
17		0.16				1	42	Y0995	Y	
18		0.32				1	42	Y0996	Y	
19		0.64				1	42	Y0997	Y	
20		1.28				1	42	Y0998	Y	
21		2.56				1	42	Y0999	Y	
22		5.12				1	42	Y1000	Y	
23		10.24				1	42	Y1001	Y	
24		20.48				1	42	Y1002	Y	
25		40.96				1	42	Y1003	Y	
26		81.92				1	42	Y1004	Y	
27		163.84				1	42	Y1005	Y	
28		327.68				1	42	Y1006	Y	
29		655.36				1	42	Y1007	Y	
30		1310.72				1	42	Y1008	Y	
31		2621.44				1	42	Y1009	Y	
32		5242.88				1	42	Y1010	Y	
33		10485.76				1	42	Y1011	Y	

All samples = 5 ml + 5 ul combined IS/Surr. 5 ml purged

500 Primary/CCV: 214939
 Primary Ft: 215966
 Primary To: 215667
 Primary Hst: 215694
 Primary

500 Secondary/CCV: 215967 - 5ml
 Secondary Ft: 215968
 Secondary To: 215969
 Secondary Hst: 216010
 Secondary

Combined IS/Surr
 Surrogate SD: 215873
 Internal Std: 215872
 Reagents:

Preparation Information Benchsheet

Prep Run#: 375553
 Team: Metals/CWOODS

Prep Workflow: TCLP ZHE
 Prep Method:

Status: Prepped
 Prep Date/Time: 3/11/21 15:00

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2102545-01	MB		1L	EPA 1311/TCLP ZHE				1.00L			
2	R2102195-001	MCCLC-D-ABCD	01	1L	EPA 1311/TCLP ZHE				1.00L			

Preparation Steps

Step: Leach
 Started: 3/11/21 15:00
 Finished: 3/11/21 15:05
 By: CWOODS
 Comments

Comments:

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____	Date: _____	Extracts Examined Yes No
Received By: _____	Date: _____	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21 13:25
Date Received: 03/10/21 08:45

Sample Name: MW-16 030921
Lab Code: R2102165-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.4	1.0	0.20	1	03/11/21 17:00	
1,1-Dichloroethane (1,1-DCA)	11	1.0	0.20	1	03/11/21 17:00	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/11/21 17:00	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/11/21 17:00	
Trichloroethene (TCE)	11	1.0	0.20	1	03/11/21 17:00	
Vinyl Chloride	0.35 J	1.0	0.20	1	03/11/21 17:00	
cis-1,2-Dichloroethene	47	1.0	0.23	1	03/11/21 17:00	
trans-1,2-Dichloroethene	2.5	1.0	0.20	1	03/11/21 17:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/11/21 17:00	
Dibromofluoromethane	94	80 - 116	03/11/21 17:00	
Toluene-d8	101	87 - 121	03/11/21 17:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2102165
Date Collected: 03/09/21
Date Received: 03/10/21 08:45

Sample Name: DUP-030921
Lab Code: R2102165-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.5	1.0	0.20	1	03/11/21 17:22	
1,1-Dichloroethane (1,1-DCA)	11	1.0	0.20	1	03/11/21 17:22	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/11/21 17:22	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/11/21 17:22	
Trichloroethene (TCE)	6.0	1.0	0.20	1	03/11/21 17:22	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/11/21 17:22	
cis-1,2-Dichloroethene	43	1.0	0.23	1	03/11/21 17:22	
trans-1,2-Dichloroethene	1.6	1.0	0.20	1	03/11/21 17:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/11/21 17:22	
Dibromofluoromethane	96	80 - 116	03/11/21 17:22	
Toluene-d8	103	87 - 121	03/11/21 17:22	

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4085.D
 Acq On : 11 Mar 2021 5:00 pm
 Operator : F.NAEGLER
 Sample : R2102165-004|1.0 Inst : MSVOA14
 Misc : VERINA 7979 T4
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:52:47 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

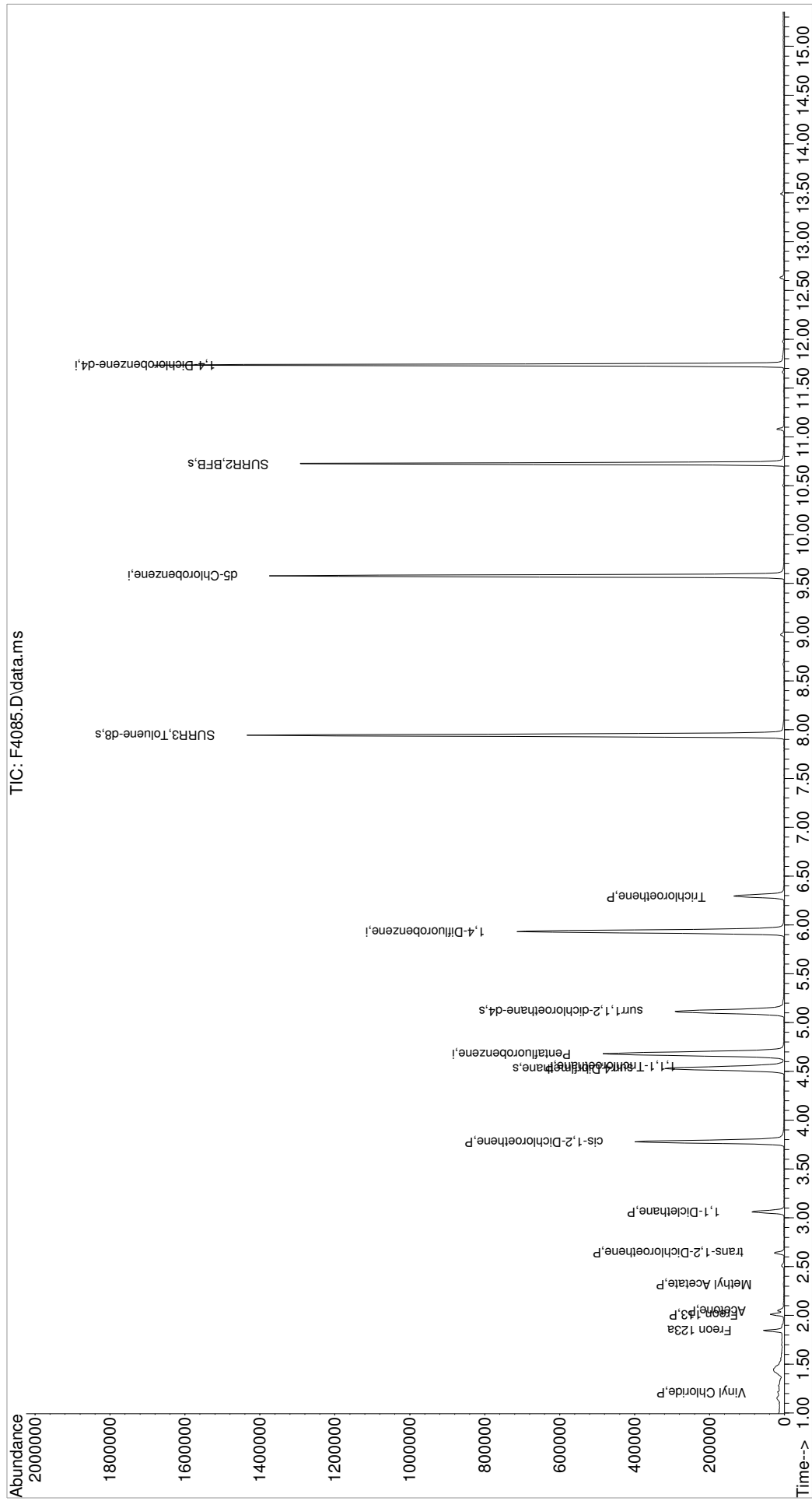
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	498954	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	718270	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	646053	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	335439	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	225497	46.83	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	93.66%		
47) surr1,1,2-dichloroetha...	5.114	65	288595	50.87	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	101.74%		
64) SURR3,Toluene-d8	7.943	98	903317	50.45	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	100.90%		
69) SURR2,BFB	10.723	95	320955	46.85	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	93.70%		
Target Compounds						
3) Chloromethane	1.151	50	513	Below Cal		68
4) Vinyl Chloride	1.212	62	1822	0.35 ug/L #		1
5) Bromomethane	1.426	94	948	Below Cal #		68
10) Freon 123a	1.846	67	17105	3.68 ug/L		99
14) Freon 113	2.011	101	11023	2.97 ug/L		97
15) Acetone	2.048	43	16181	6.86 ug/L		96
21) Methyl Acetate	2.322	43	1266	0.20 ug/L		73
26) trans-1,2-Dichloroethene	2.645	96	9015	2.55 ug/L #		85
27) 1,1-Dicethane	3.060	63	76476	10.83 ug/L		98
33) cis-1,2-Dichloroethene	3.779	96	204565	46.76 ug/L		88
40) 1,1,1-Trichloroethane	4.547	97	34504	5.40 ug/L		98
53) Trichloroethene	6.291	130	51468	10.59 ug/L		98

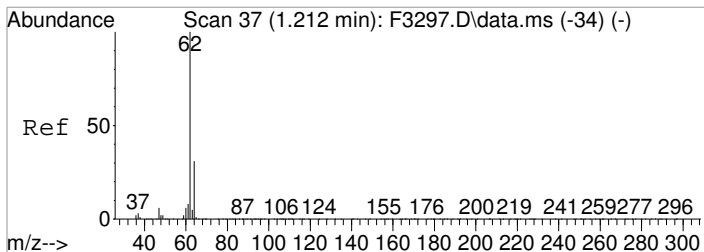
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4085.D
 Acq On : 11 Mar 2021 5:00 pm
 Operator : F.NAEGLER
 Sample : R2102165-004|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA14

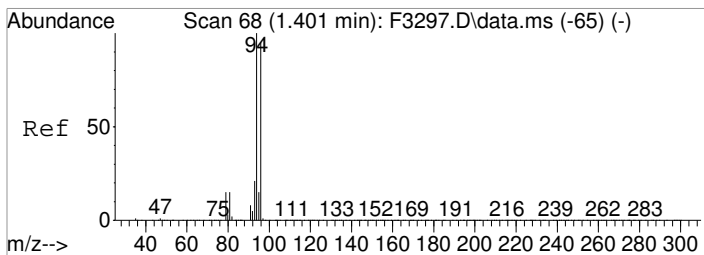
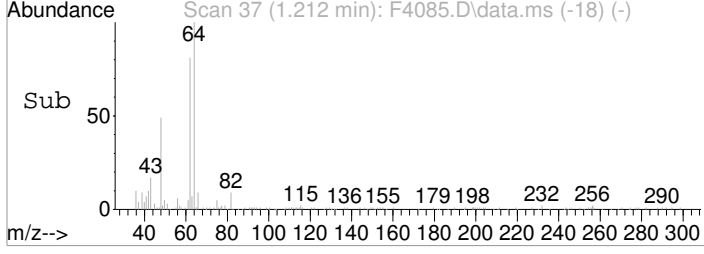
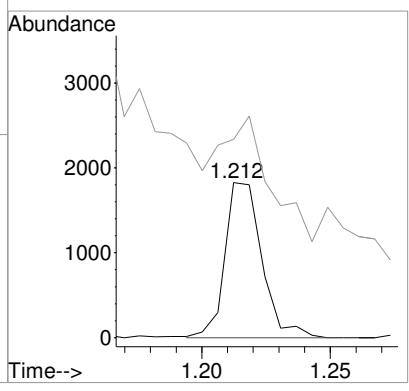
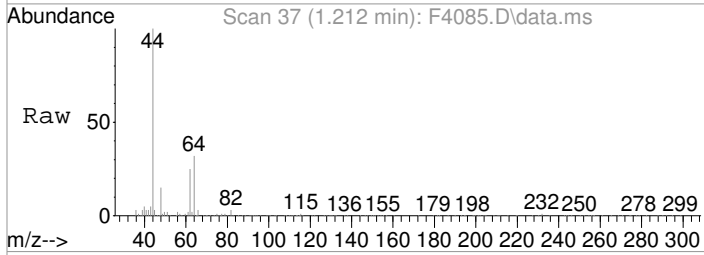
Quant Time: Mar 12 12:52:47 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration





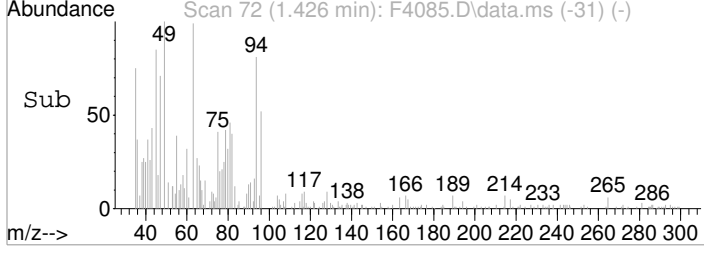
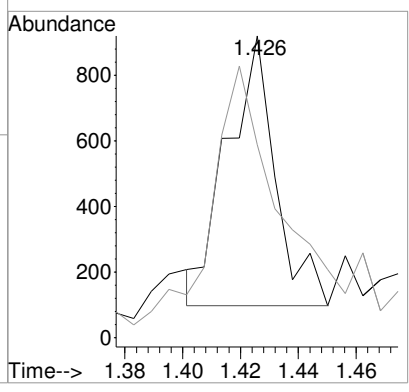
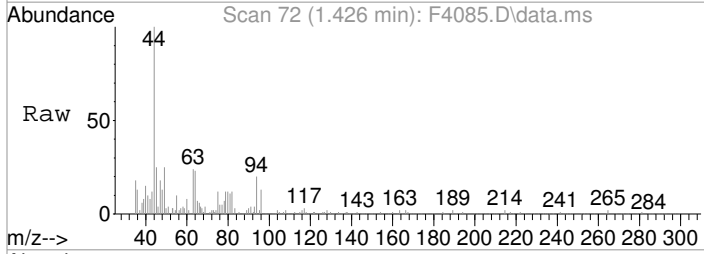
#4
Vinyl Chloride
Concen: 0.35 ug/L
RT: 1.212 min Scan# 37
Delta R.T. 0.000 min
Lab File: F4085.D
Acq: 11 Mar 2021 5:00 pm

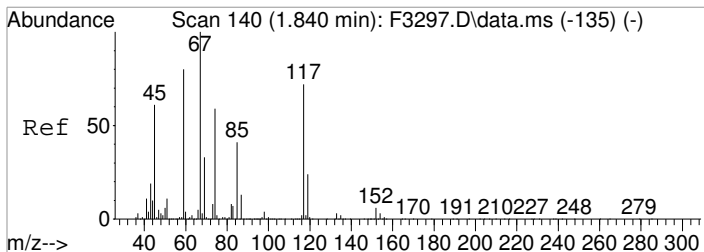
Tgt Ion	Resp	Lower	Upper
62	100		
64	127.9	11.3	51.3#



#5
Bromomethane
Concen: Below Cal
RT: 1.426 min Scan# 72
Delta R.T. 0.025 min
Lab File: F4085.D
Acq: 11 Mar 2021 5:00 pm

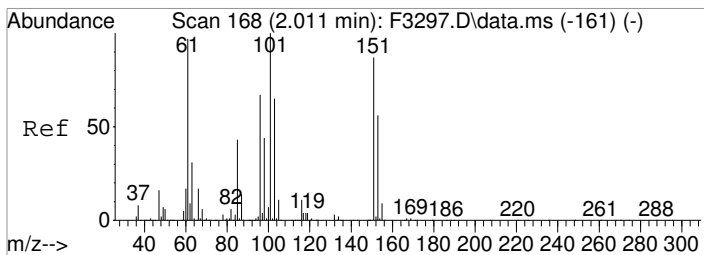
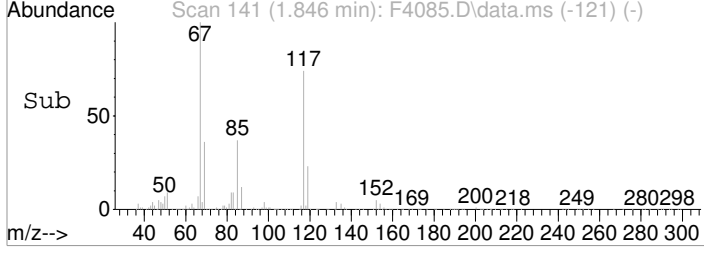
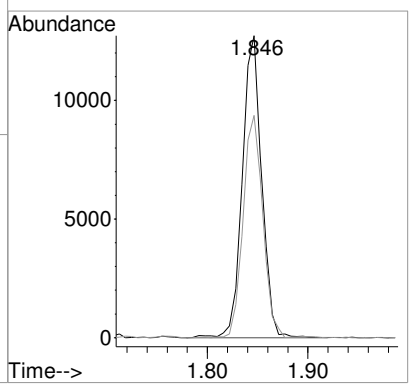
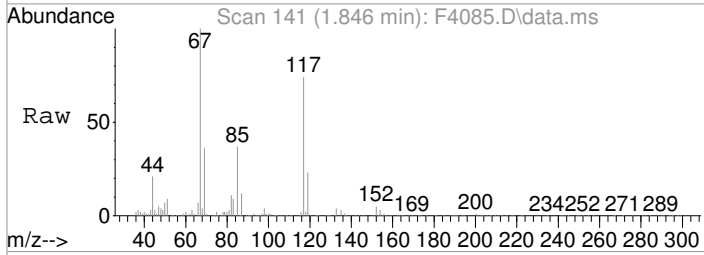
Tgt Ion	Resp	Lower	Upper
94	100		
96	63.9	75.3	115.3#





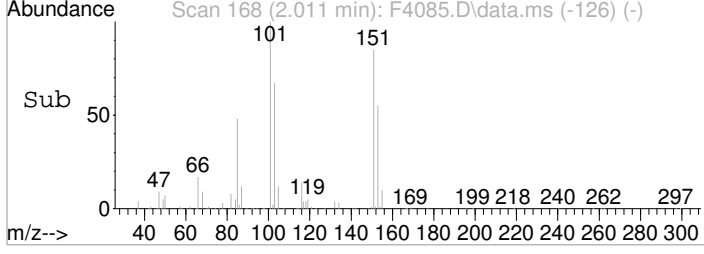
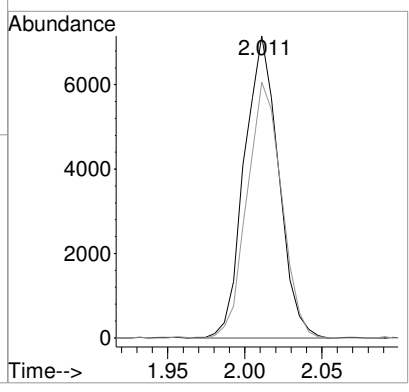
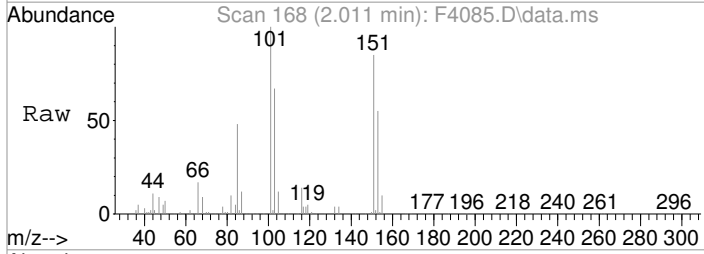
#10
 Freon 123a
 Concen: 3.68 ug/L
 RT: 1.846 min Scan# 141
 Delta R.T. 0.006 min
 Lab File: F4085.D
 Acq: 11 Mar 2021 5:00 pm

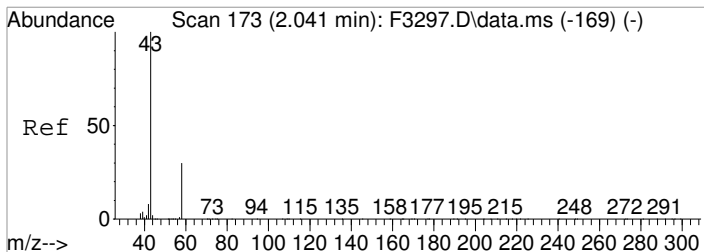
Tgt Ion	Resp	Lower	Upper
67	17105		
67	100		
117	73.6	52.8	92.8



#14
 Freon 113
 Concen: 2.97 ug/L
 RT: 2.011 min Scan# 168
 Delta R.T. 0.000 min
 Lab File: F4085.D
 Acq: 11 Mar 2021 5:00 pm

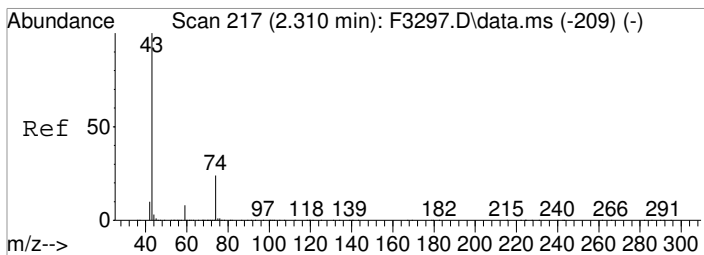
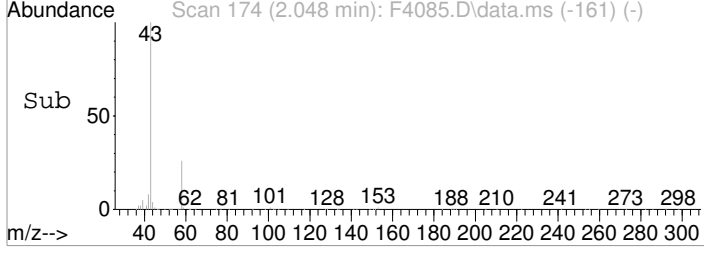
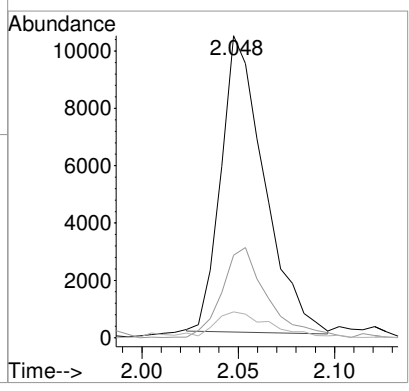
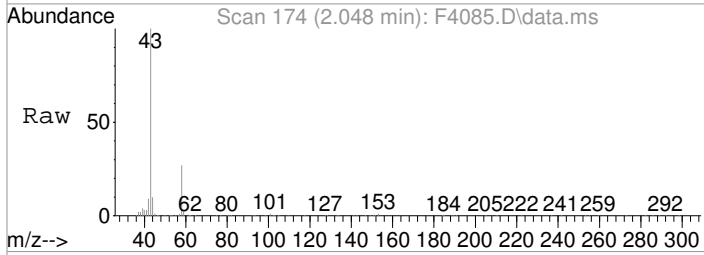
Tgt Ion	Resp	Lower	Upper
101 <td>11023</td> <td></td> <td></td>	11023		
101 <td>100</td> <td></td> <td></td>	100		
151 <td>84.7</td> <td>67.3</td> <td>107.3</td>	84.7	67.3	107.3





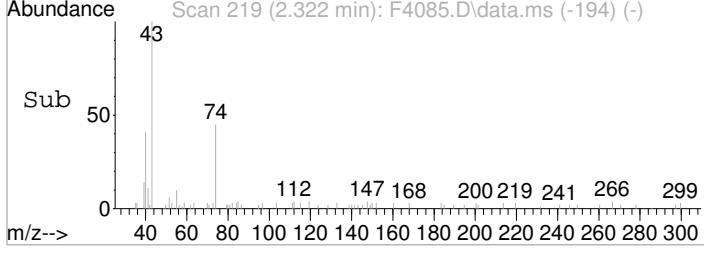
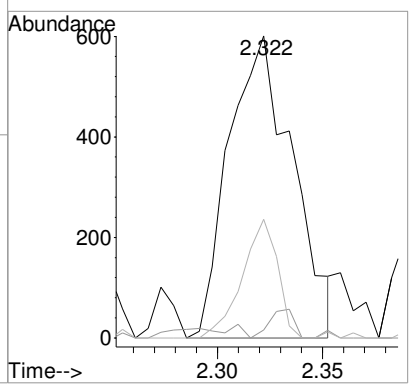
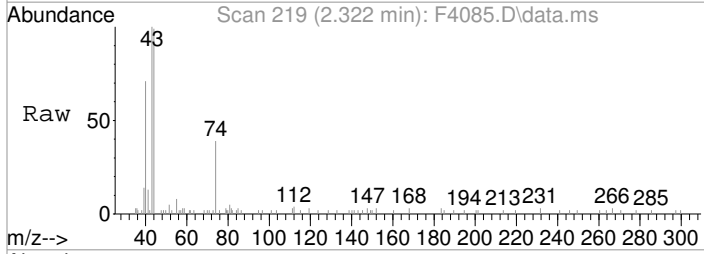
#15
 Acetone
 Concen: 6.86 ug/L
 RT: 2.048 min Scan# 174
 Delta R.T. 0.006 min
 Lab File: F4085.D
 Acq: 11 Mar 2021 5:00 pm

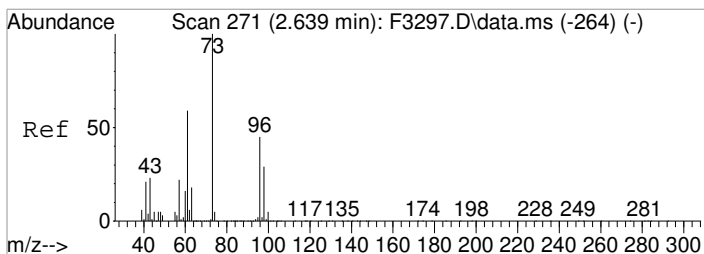
Tgt Ion	Resp	Lower	Upper
43	16181		
58	27.3	9.6	49.6
42	8.5	0.0	28.0



#21
 Methyl Acetate
 Concen: 0.20 ug/L
 RT: 2.322 min Scan# 219
 Delta R.T. 0.012 min
 Lab File: F4085.D
 Acq: 11 Mar 2021 5:00 pm

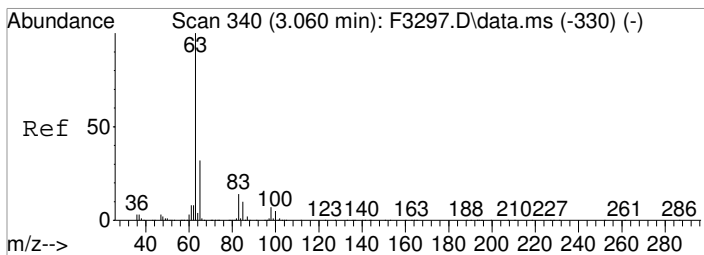
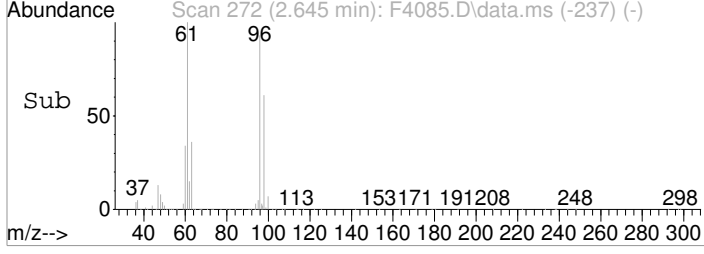
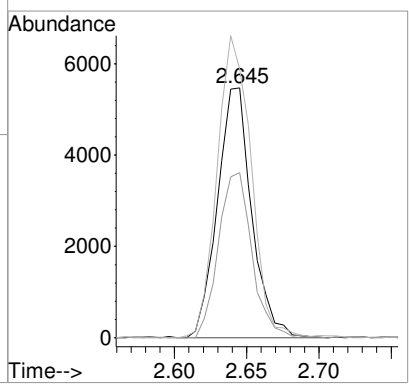
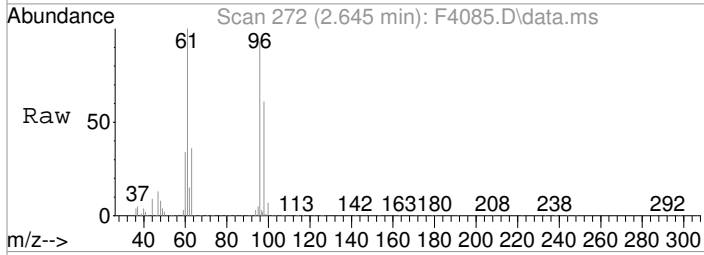
Tgt Ion	Resp	Lower	Upper
43	1266		
59	2.7	0.0	28.3
74	39.3	4.0	44.0





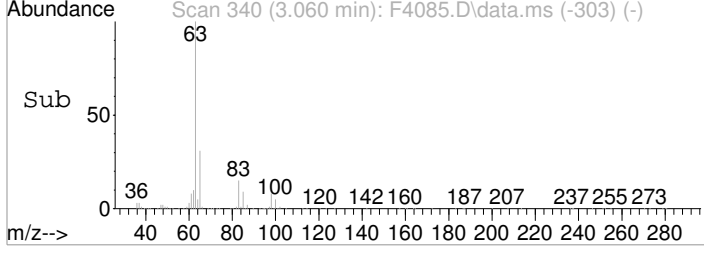
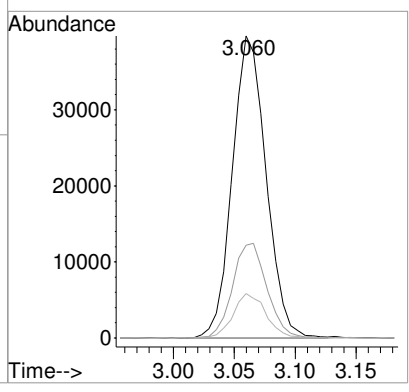
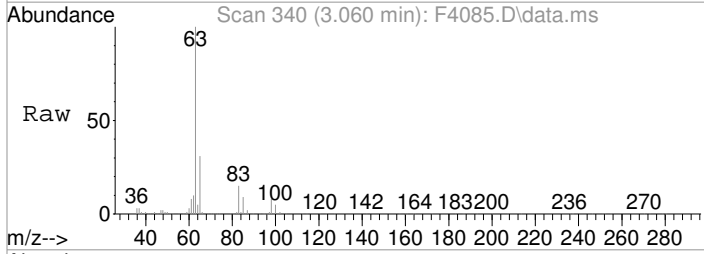
#26
 trans-1,2-Dichloroethene
 Concen: 2.55 ug/L
 RT: 2.645 min Scan# 272
 Delta R.T. 0.006 min
 Lab File: F4085.D
 Acq: 11 Mar 2021 5:00 pm

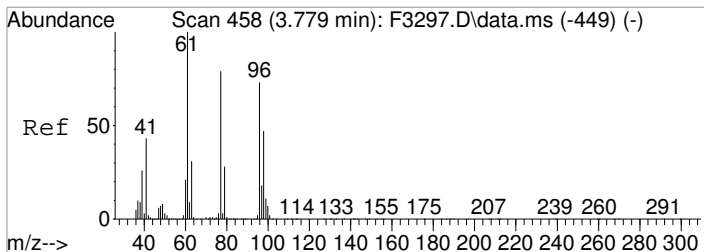
Tgt Ion	Resp	Lower	Upper
96	100		
98	66.1	44.6	84.6
61	107.6	111.9	151.9#



#27
 1,1-Dicethane
 Concen: 10.83 ug/L
 RT: 3.060 min Scan# 340
 Delta R.T. 0.000 min
 Lab File: F4085.D
 Acq: 11 Mar 2021 5:00 pm

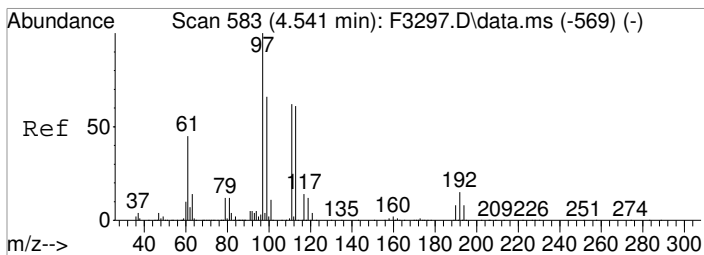
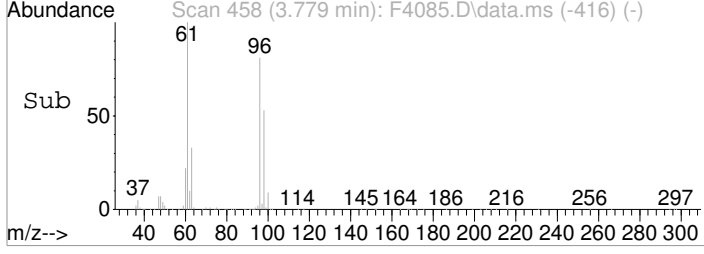
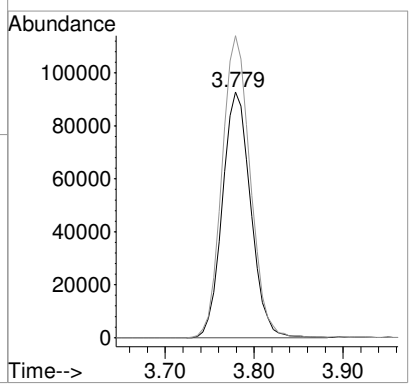
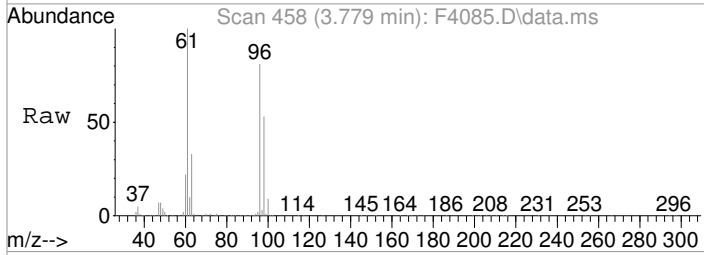
Tgt Ion	Resp	Lower	Upper
63	100		
65	30.7	12.0	52.0
83	14.7	0.0	33.9





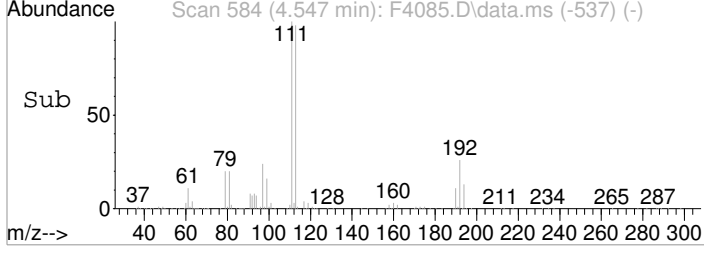
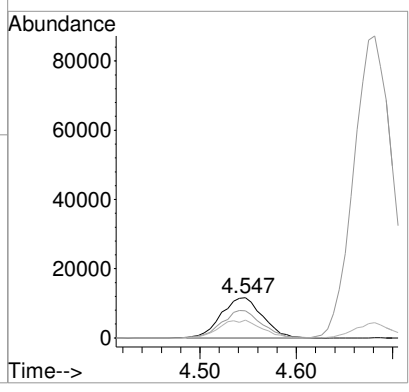
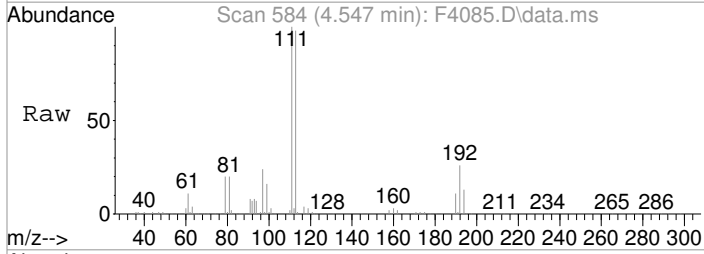
#33
cis-1,2-Dichloroethene
Concen: 46.76 ug/L
RT: 3.779 min Scan# 458
Delta R.T. 0.000 min
Lab File: F4085.D
Acq: 11 Mar 2021 5:00 pm

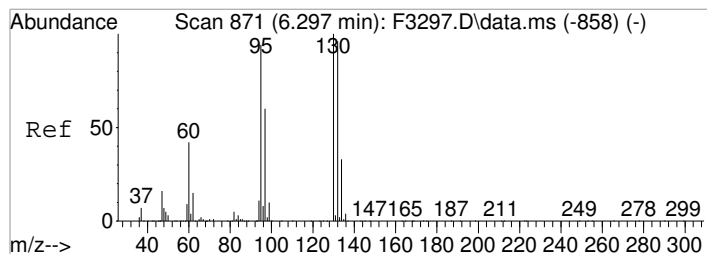
Tgt Ion	Resp	Lower	Upper
96	204565		
96	100		
61	123.0	117.1	157.1



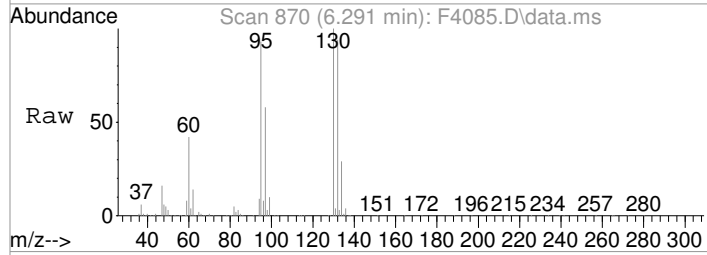
#40
1,1,1-Trichloroethane
Concen: 5.40 ug/L
RT: 4.547 min Scan# 584
Delta R.T. 0.006 min
Lab File: F4085.D
Acq: 11 Mar 2021 5:00 pm

Tgt Ion	Resp	Lower	Upper
97	34504		
97	100		
99	67.0	45.7	85.7
61	43.8	24.7	64.7

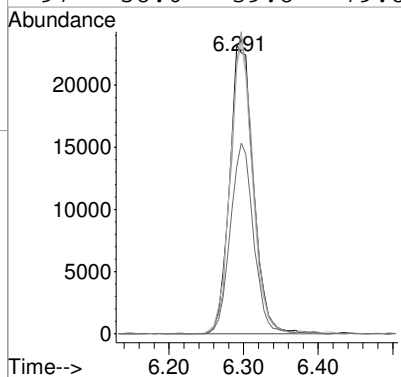
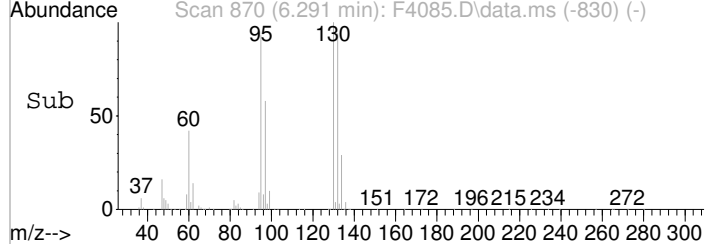




#53
Trichloroethene
Concen: 10.59 ug/L
RT: 6.291 min Scan# 870
Delta R.T. -0.006 min
Lab File: F4085.D
Acq: 11 Mar 2021 5:00 pm

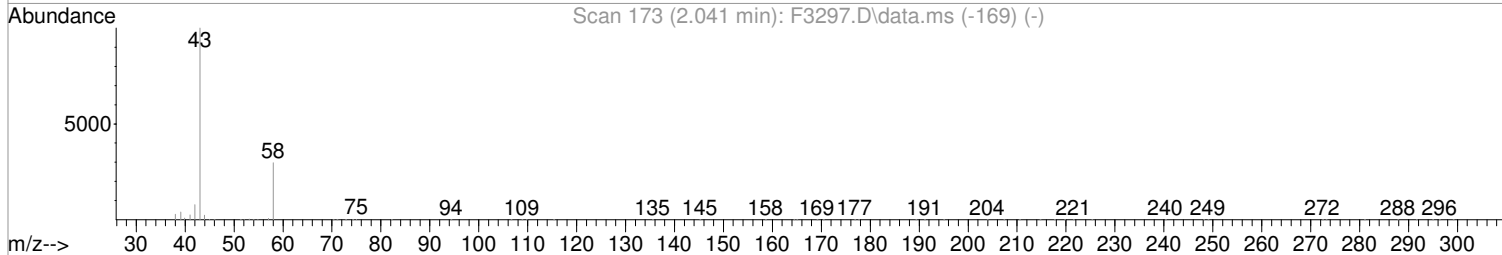
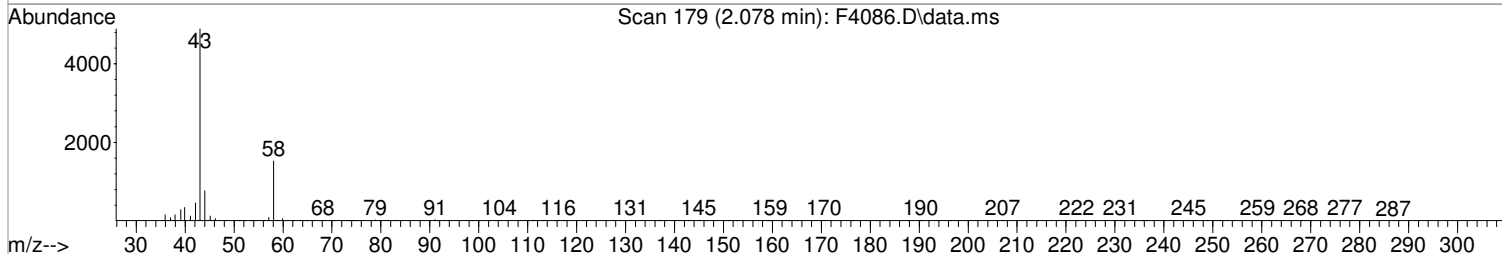
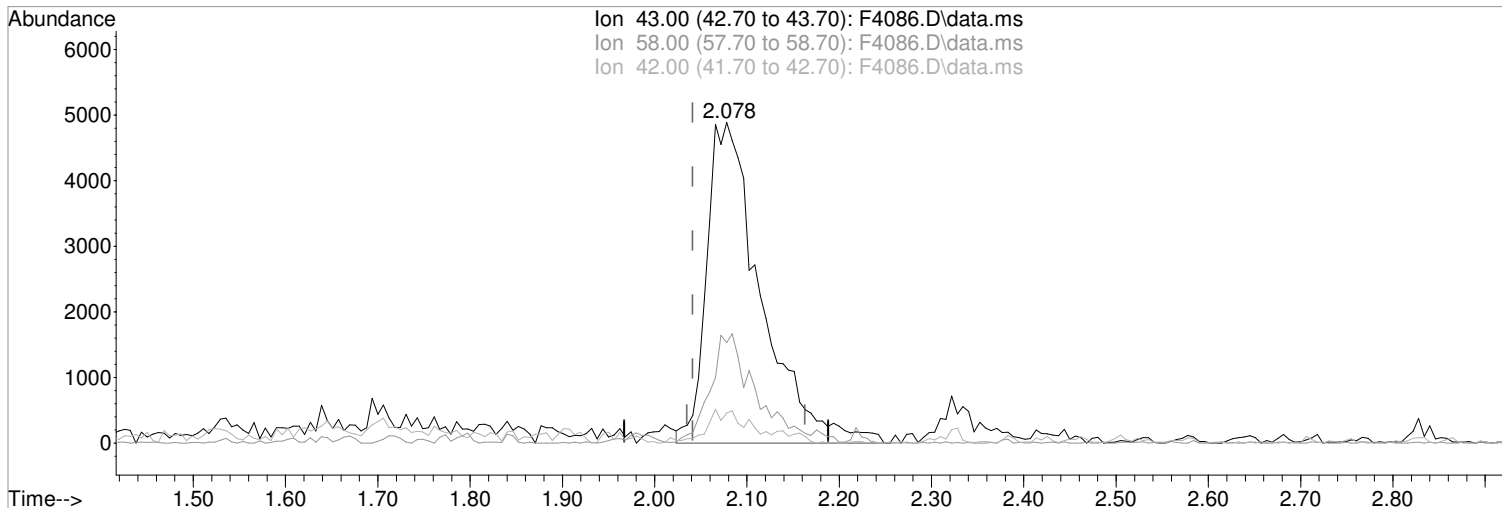


Tgt Ion	Resp	Lower	Upper
130	100		
132	93.9	76.4	116.4
95	92.6	73.8	113.8
97	58.0	39.8	79.8



Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4086.D
 Acq On : 11 Mar 2021 5:22 pm
 Operator : F.NAEGLER
 Sample : R2102165-007|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 16 Sample Multiplier: 1
 Inst : MSVOA14

Quant Time: Mar 12 08:20:26 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration



(15) Acetone (P)
 2.078min (+0.037) 8.76 ug/L m
 response 19981

Manual Integration:

After

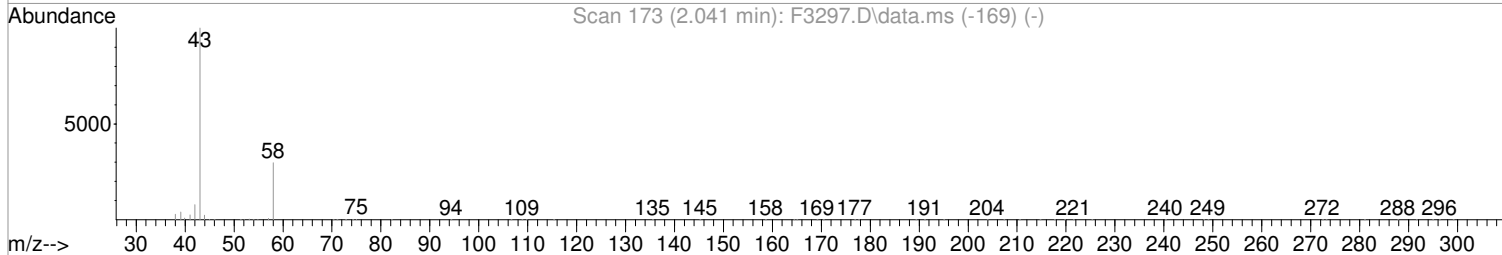
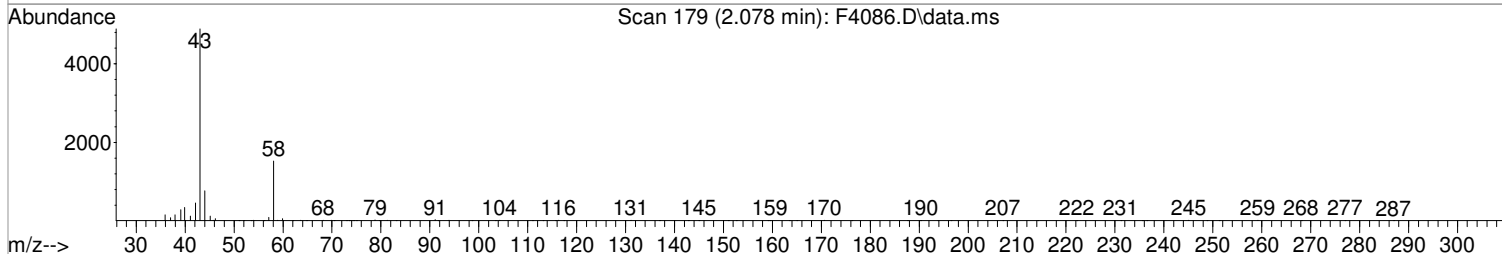
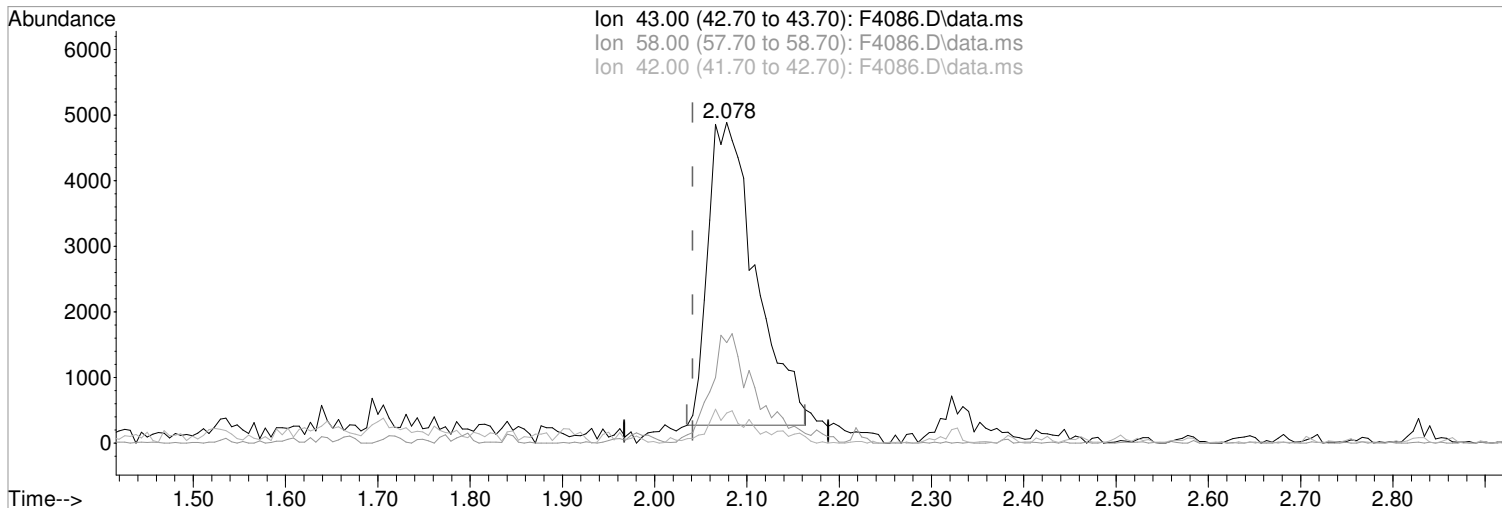
Poor integration.

03/12/21

Ion	Exp%	Act%
43.00	100	100
58.00	29.60	31.28
42.00	8.00	9.39
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4086.D
Acq On : 11 Mar 2021 5:22 pm
Operator : F.NAEGLER
Sample : R2102165-007|1.0
Misc : VERINA 7979 T4
ALS Vial : 16 Sample Multiplier: 1
Inst : MSVOA14

Quant Time: Mar 12 08:20:26 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration



(15) Acetone (P)
2.078min (+0.037) 7.27 ug/L
response 16592

Manual Integration:
Before

Ion	Exp%	Act%
43.00	100	100
58.00	29.60	31.28
42.00	8.00	9.39
0.00	0.00	0.00

03/12/21

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4086.D
 Acq On : 11 Mar 2021 5:22 pm
 Operator : F.NAEGLER
 Sample : R2102165-007|1.0 Inst : MSVOA14
 Misc : VERINA 7979 T4
 ALS Vial : 16 Sample Multiplier: 1

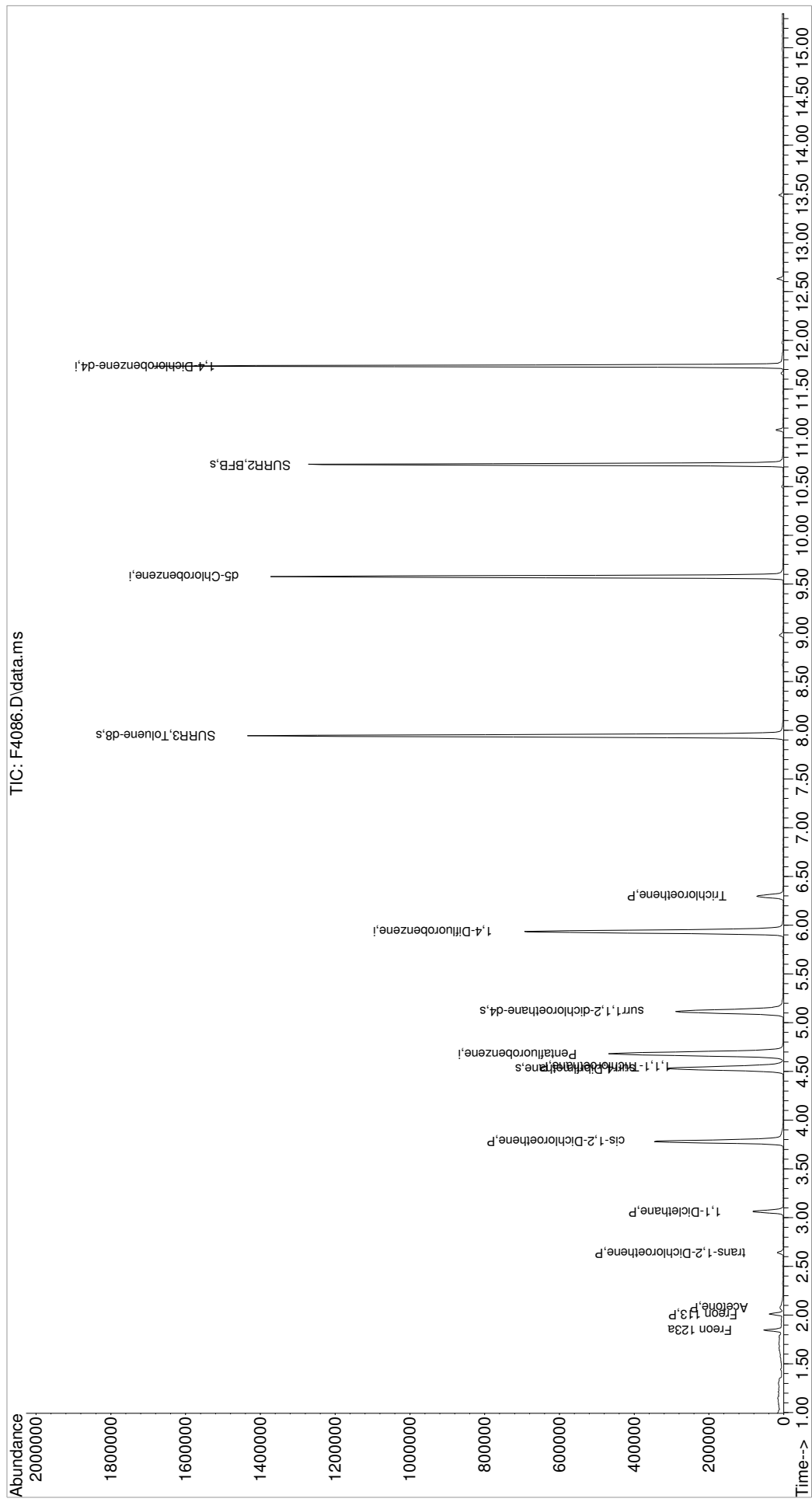
Quant Time: Mar 12 12:55:25 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

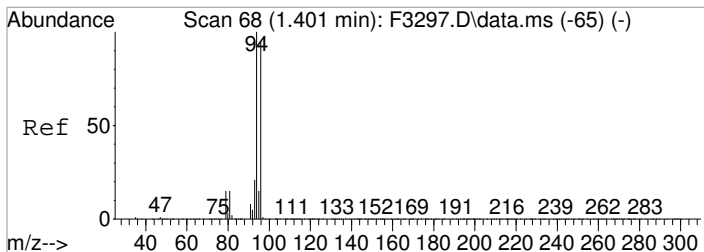
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	482953	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	701053	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	636140	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	324183	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	225426	47.97	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	95.94%		
47) surr1,1,2-dichloroetha...	5.114	65	289339	52.25	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	104.50%		
64) SURR3,Toluene-d8	7.943	98	902778	51.66	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	103.32%		
69) SURR2,BFB	10.723	95	318148	47.58	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	95.16%		
Target Compounds						
3) Chloromethane	1.151	50	422	Below Cal		86
5) Bromomethane	1.420	94	413	Below Cal	#	49
10) Freon 123a	1.846	67	16525	3.67	ug/L	97
14) Freon 113	2.011	101	11229	3.13	ug/L	90
15) Acetone	2.078	43	19981m	8.76	ug/L	
26) trans-1,2-Dichloroethene	2.639	96	5370	1.57	ug/L	90
27) 1,1-Dicethane	3.059	63	74166	10.86	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	181430	42.85	ug/L	# 80
40) 1,1,1-Trichloroethane	4.547	97	33749	5.46	ug/L	96
53) Trichloroethene	6.303	130	28675	6.04	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

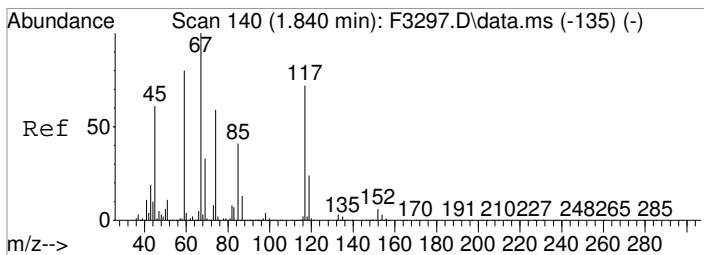
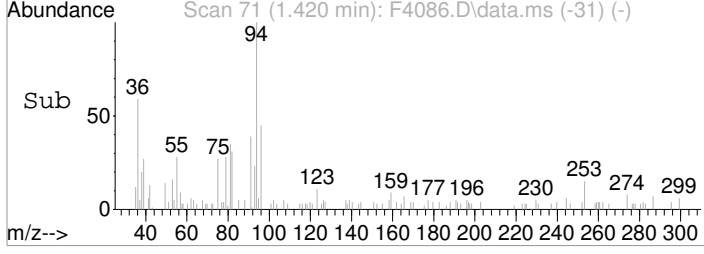
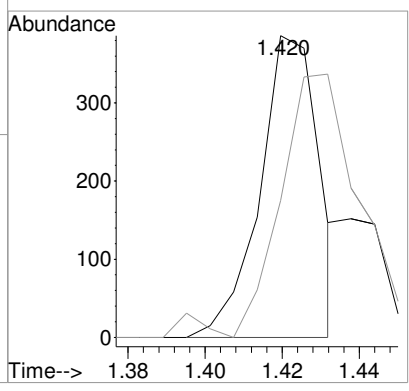
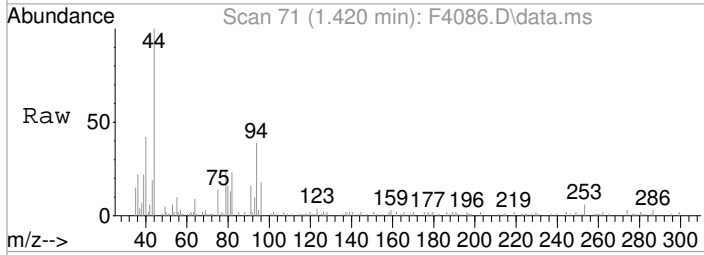
Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4086.D
Acq On : 11 Mar 2021 5:22 pm
Operator : F.NAEGLER
Sample : R2102165-007|1.0
Misc : VERINA 7979 T4
ALS Vial : 16 Sample Multiplier: 1
Inst : MSVOA14
Quant Time: Mar 12 12:55:25 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration





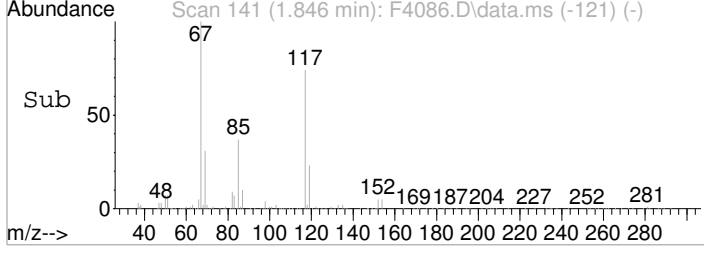
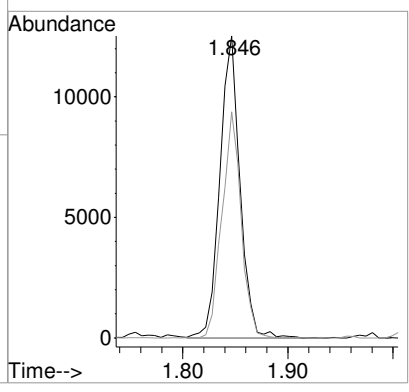
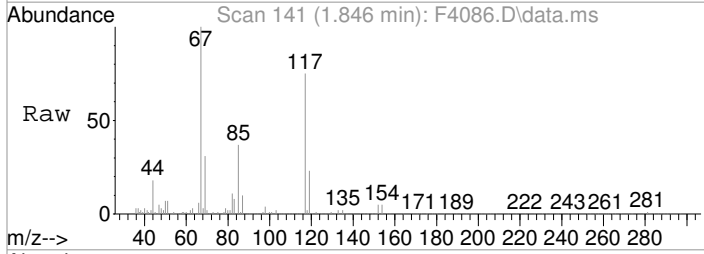
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.420 min Scan# 71
 Delta R.T. 0.019 min
 Lab File: F4086.D
 Acq: 11 Mar 2021 5:22 pm

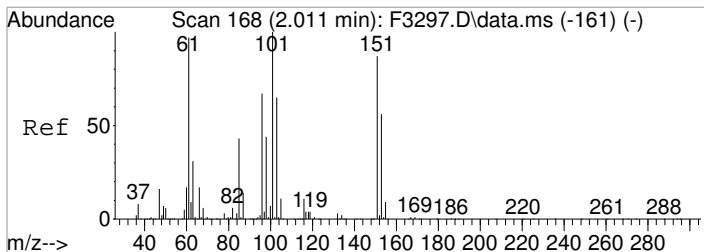
Tgt Ion	Resp	Lower	Upper
94	100		
96	45.3	75.3	115.3#



#10
 Freon 123a
 Concen: 3.67 ug/L
 RT: 1.846 min Scan# 141
 Delta R.T. 0.006 min
 Lab File: F4086.D
 Acq: 11 Mar 2021 5:22 pm

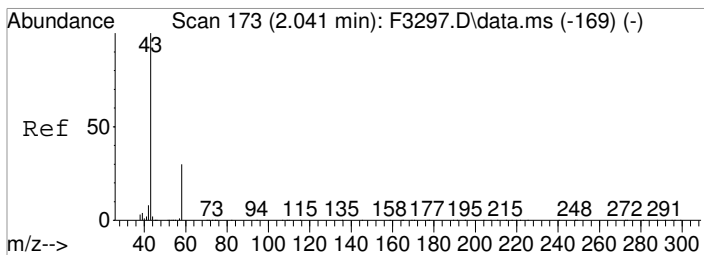
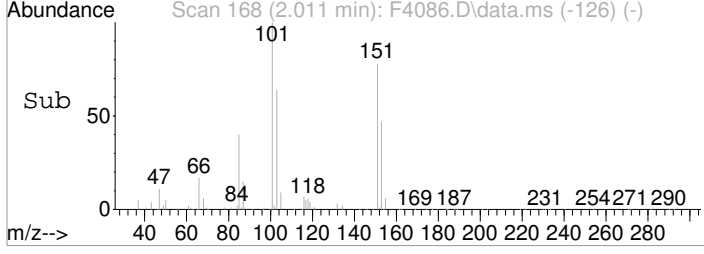
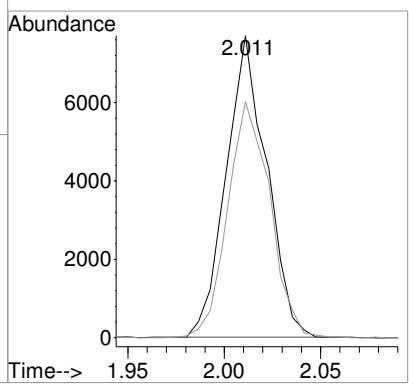
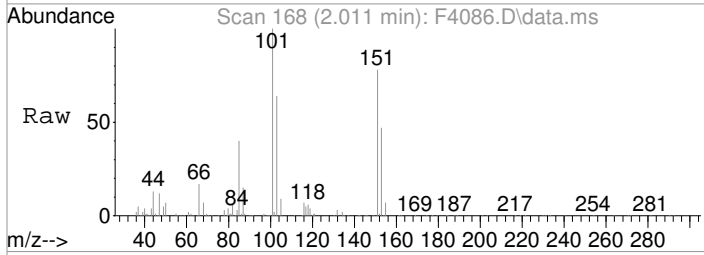
Tgt Ion	Resp	Lower	Upper
67	100		
117	74.9	52.8	92.8





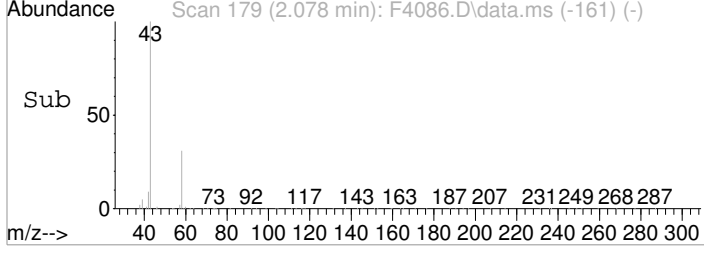
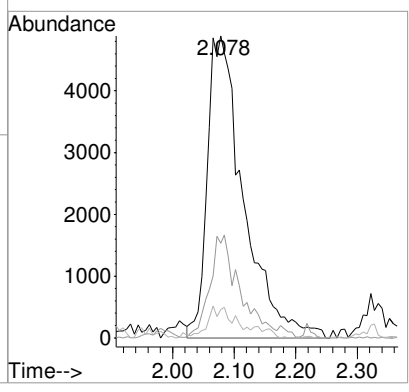
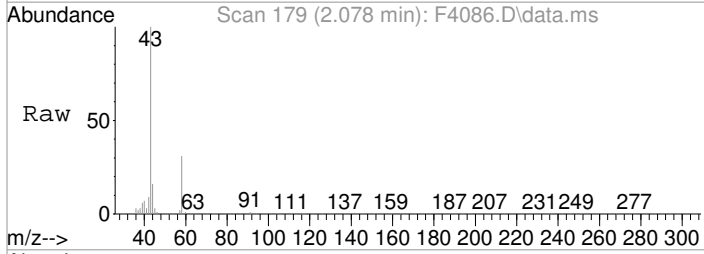
#14
 Freon 113
 Concen: 3.13 ug/L
 RT: 2.011 min Scan# 168
 Delta R.T. -0.000 min
 Lab File: F4086.D
 Acq: 11 Mar 2021 5:22 pm

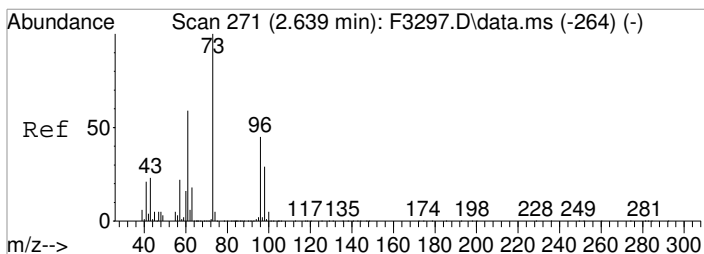
Tgt Ion	Resp	Lower	Upper
101	11229		
101	100		
151	78.2	67.3	107.3



#15
 Acetone
 Concen: 8.76 ug/L m
 RT: 2.078 min Scan# 179
 Delta R.T. 0.037 min
 Lab File: F4086.D
 Acq: 11 Mar 2021 5:22 pm

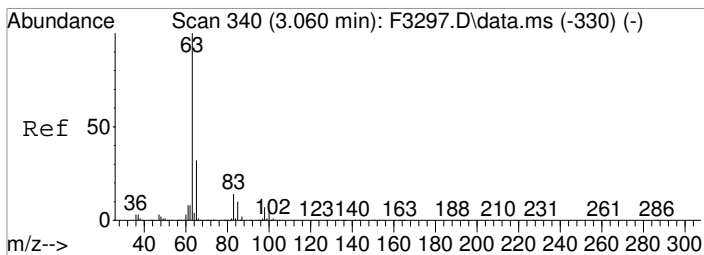
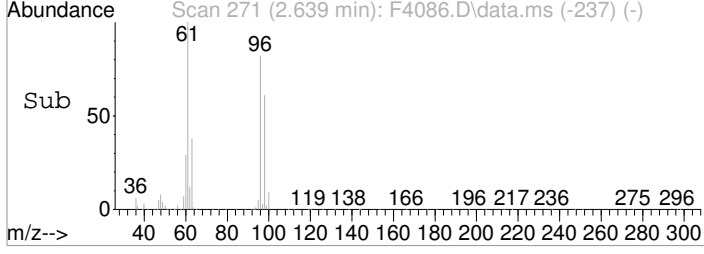
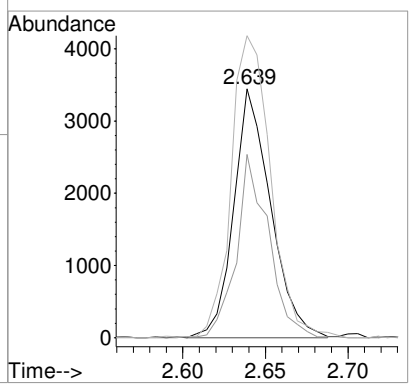
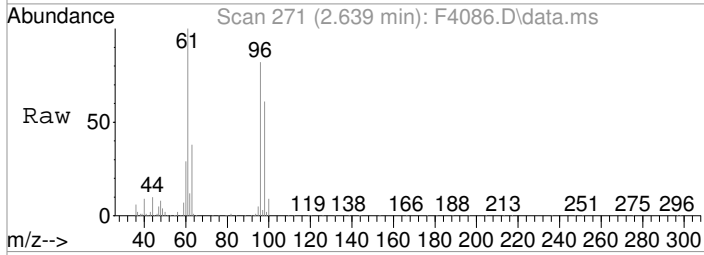
Tgt Ion	Resp	Lower	Upper
43	19981		
43	100		
58	31.3	9.6	49.6
42	9.4	0.0	28.0





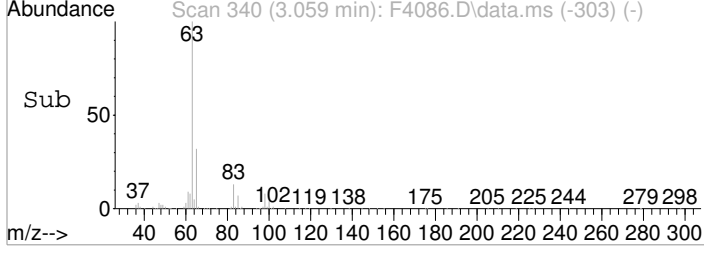
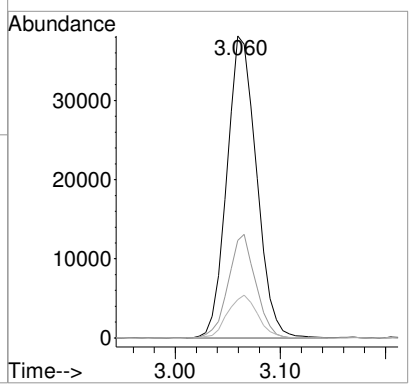
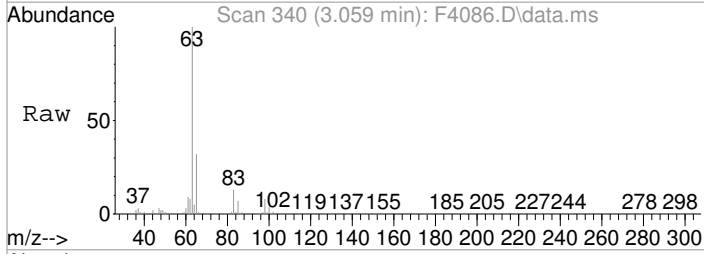
#26
 trans-1,2-Dichloroethene
 Concen: 1.57 ug/L
 RT: 2.639 min Scan# 271
 Delta R.T. -0.000 min
 Lab File: F4086.D
 Acq: 11 Mar 2021 5:22 pm

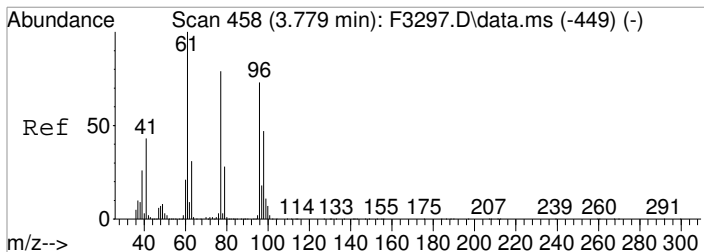
Tgt Ion	Resp	Lower	Upper
96	5370		
96	100		
98	73.7	44.6	84.6
61	121.3	111.9	151.9



#27
 1,1-Dicethane
 Concen: 10.86 ug/L
 RT: 3.059 min Scan# 340
 Delta R.T. -0.000 min
 Lab File: F4086.D
 Acq: 11 Mar 2021 5:22 pm

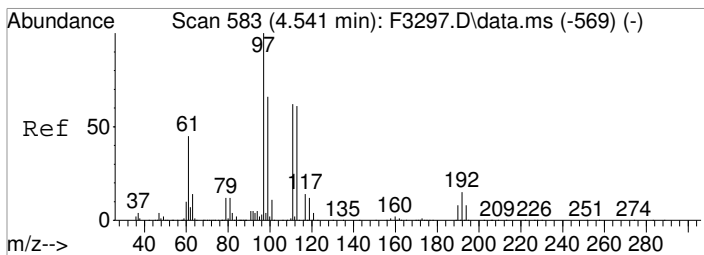
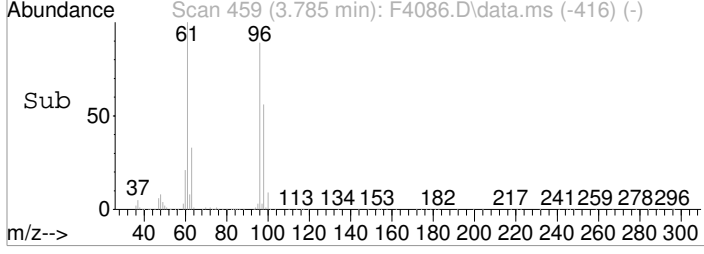
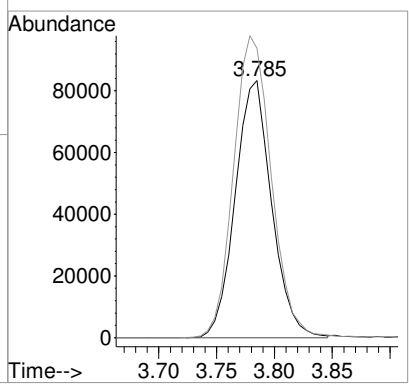
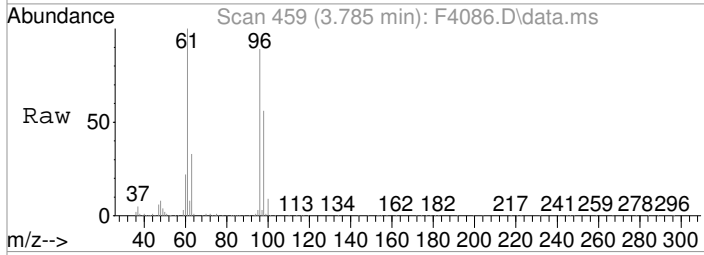
Tgt Ion	Resp	Lower	Upper
63	74166		
63	100		
65	32.3	12.0	52.0
83	12.7	0.0	33.9





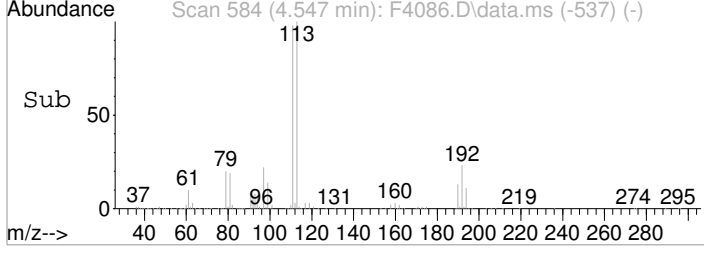
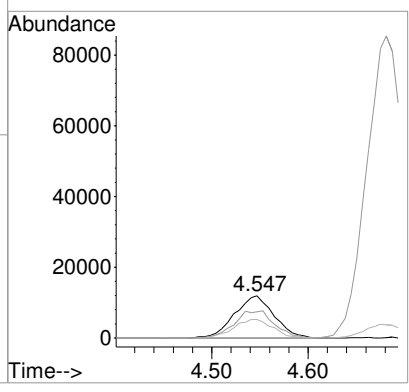
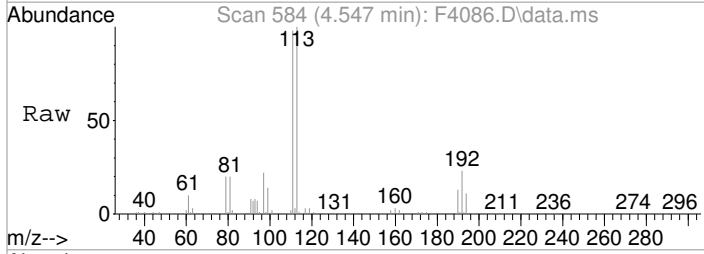
#33
 cis-1,2-Dichloroethene
 Concen: 42.85 ug/L
 RT: 3.785 min Scan# 459
 Delta R.T. 0.006 min
 Lab File: F4086.D
 Acq: 11 Mar 2021 5:22 pm

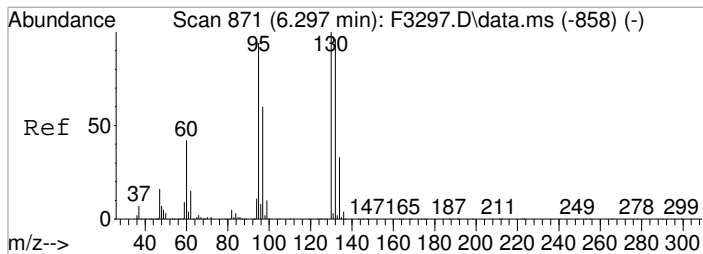
Tgt Ion	Resp	Lower	Upper
96	181430		
96	100		
61	112.7	117.1	157.1#



#40
 1,1,1-Trichloroethane
 Concen: 5.46 ug/L
 RT: 4.547 min Scan# 584
 Delta R.T. 0.006 min
 Lab File: F4086.D
 Acq: 11 Mar 2021 5:22 pm

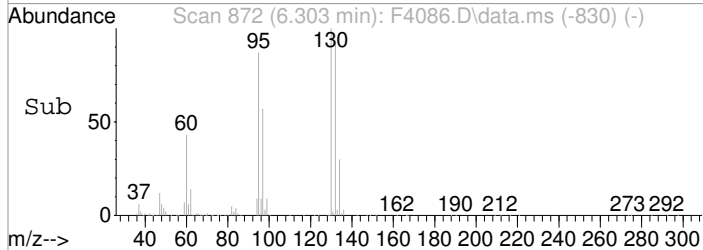
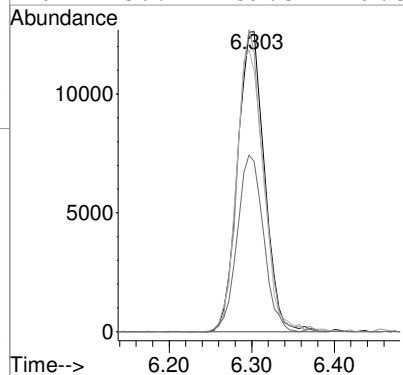
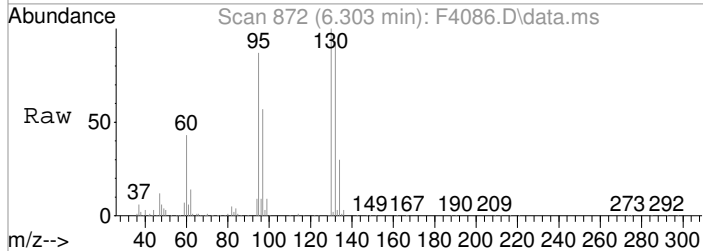
Tgt Ion	Resp	Lower	Upper
97	33749		
97	100		
99	61.6	45.7	85.7
61	43.8	24.7	64.7





#53
 Trichloroethene
 Concen: 6.04 ug/L
 RT: 6.303 min Scan# 872
 Delta R.T. 0.006 min
 Lab File: F4086.D
 Acq: 11 Mar 2021 5:22 pm

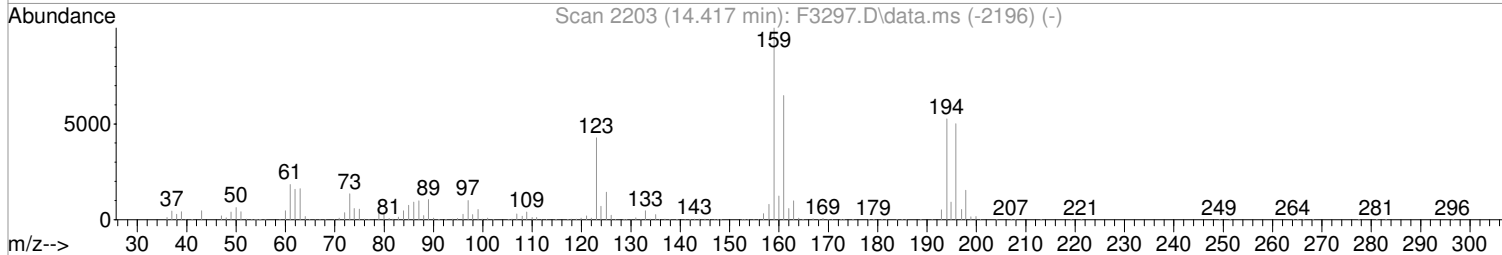
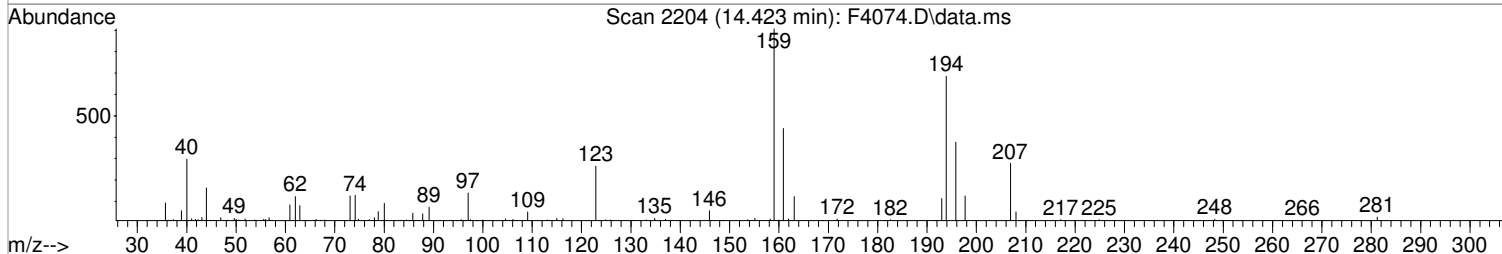
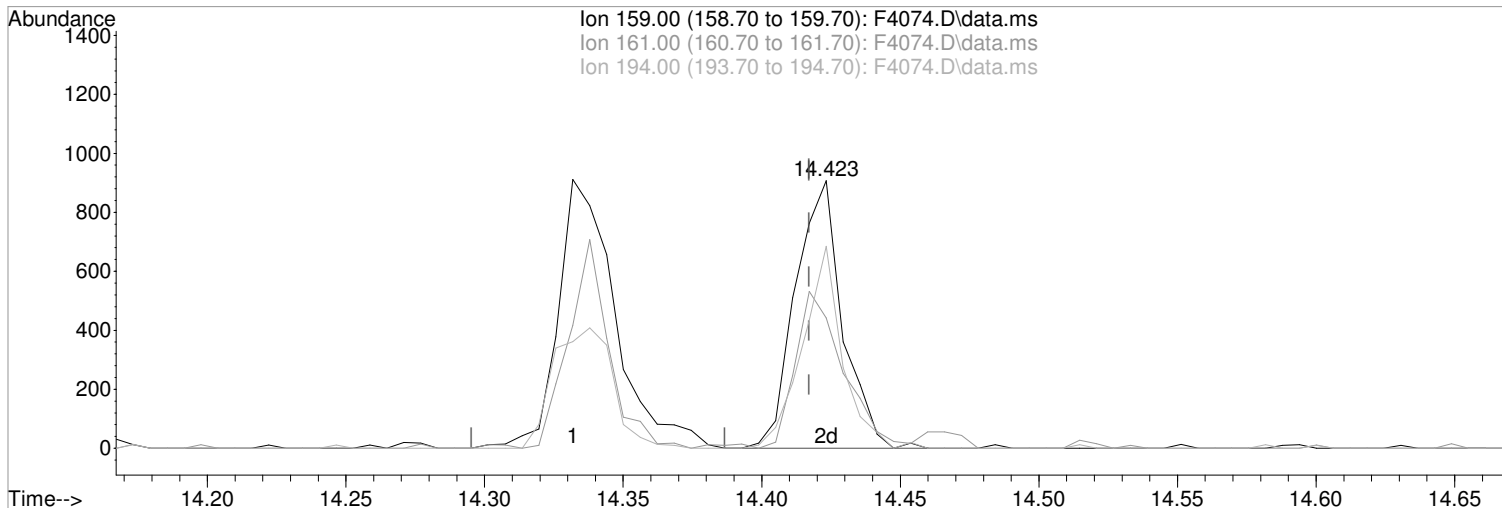
Tgt Ion	Resp	Lower	Upper
130	100		
132	93.2	76.4	116.4
95	86.9	73.8	113.8
97	56.7	39.8	79.8



Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4074.D
Acq On : 11 Mar 2021 12:54 pm
Operator : F.NAEGLER
Sample : MBLK-UNP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 13:45:55 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration



(119) 2,3,6-Trichlorotoluene
14.423min (+0.006) 0.19 ug/L m
response 1072

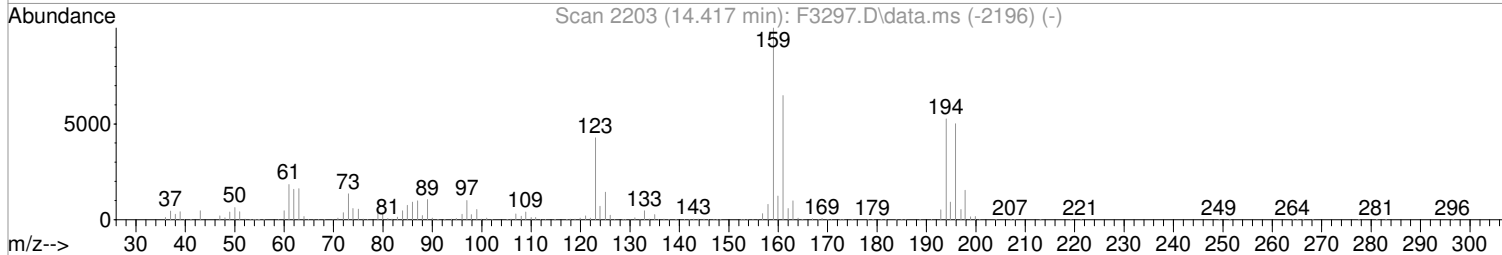
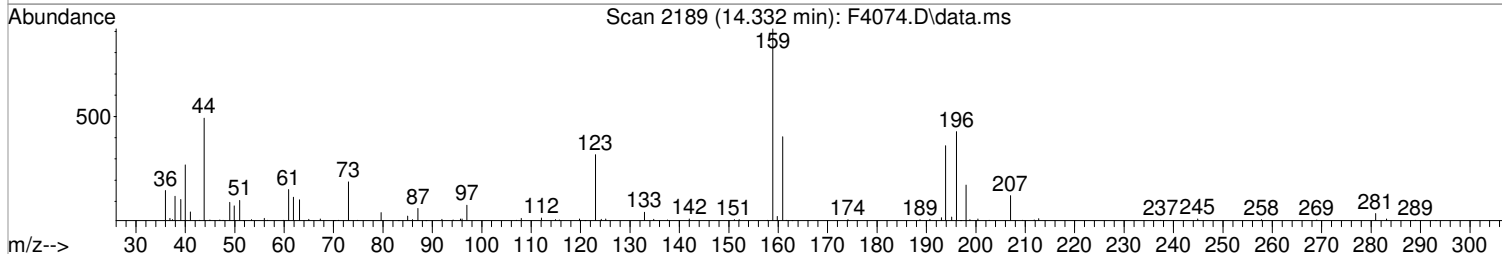
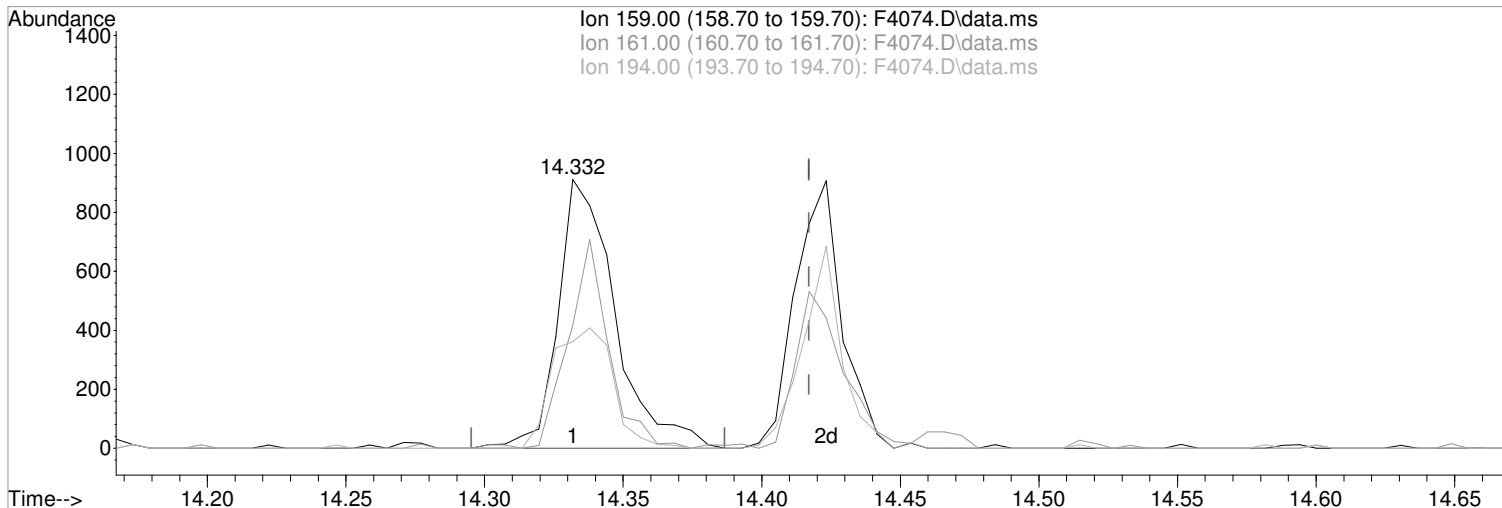
Manual Integration:
After
Wrong peak selected.
03/12/21

Ion	Exp%	Act%
159.00	100	100
161.00	64.80	48.73
194.00	52.60	75.52#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4074.D
Acq On : 11 Mar 2021 12:54 pm
Operator : F.NAEGLER
Sample : MBLK-UNP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 13:45:55 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration



TIC: F4074.D\data.ms

(119) 2,3,6-Trichlorotoluene
14.332min (-0.085) 0.23 ug/L
response 1303

Manual Integration:
Before

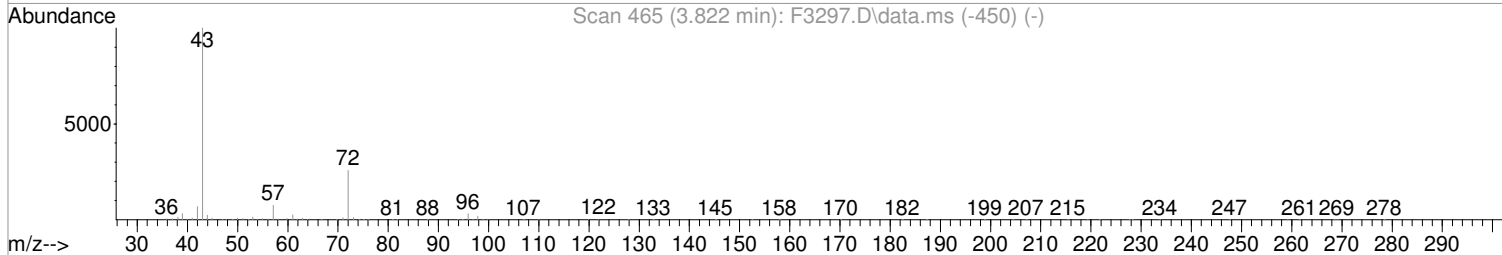
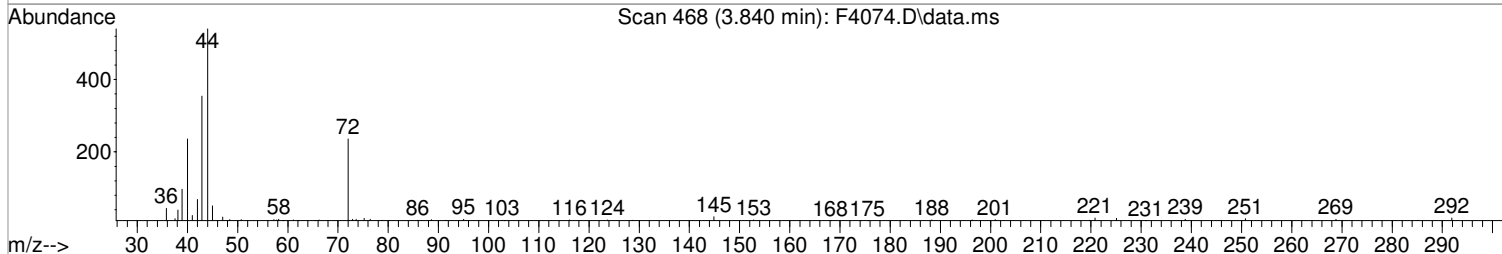
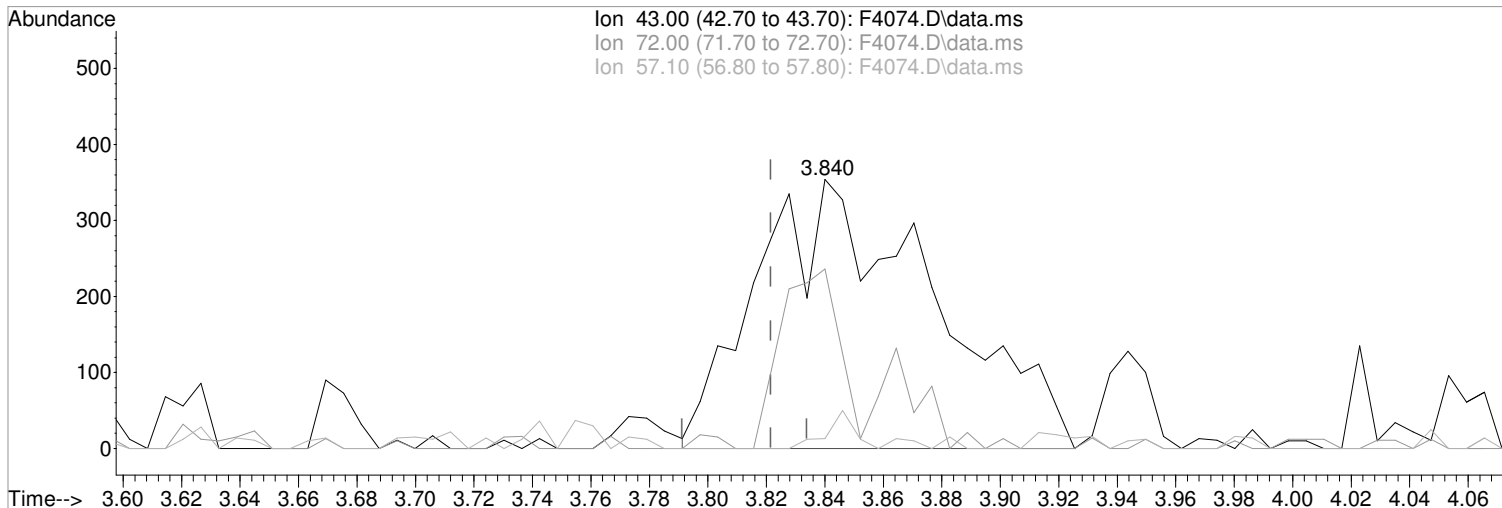
Ion	Exp%	Act%
159.00	100	100
161.00	64.80	45.72
194.00	52.60	39.69
0.00	0.00	0.00

03/12/21

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4074.D
Acq On : 11 Mar 2021 12:54 pm
Operator : F.NAEGLER
Sample : MBLK-UNP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 13:45:55 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration



(34) 2-Butanone (P)
3.840min (+0.018) 0.37 ug/L m
response 1487

Manual Integration:
After
Poor integration.

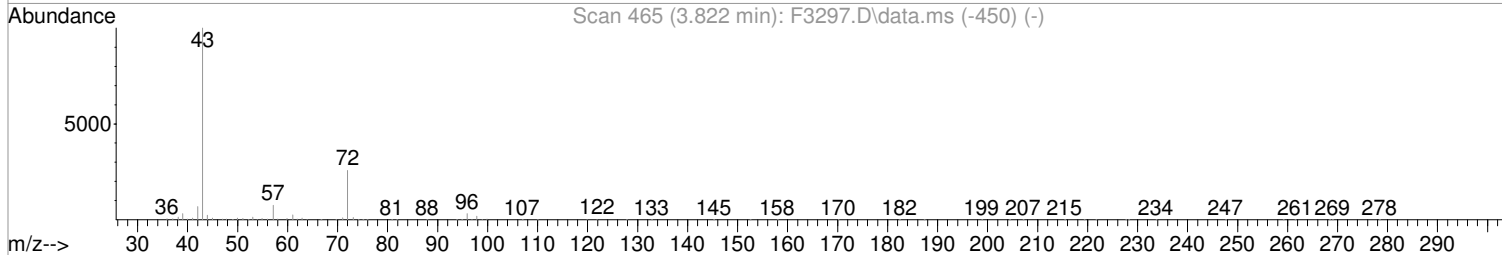
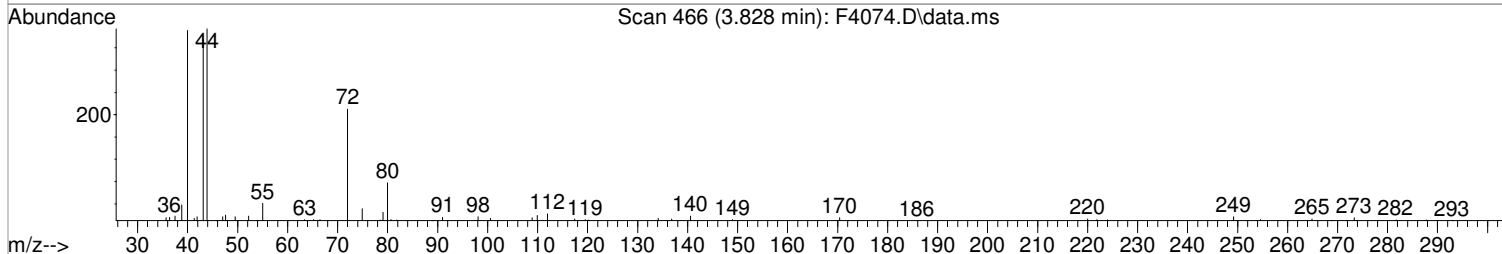
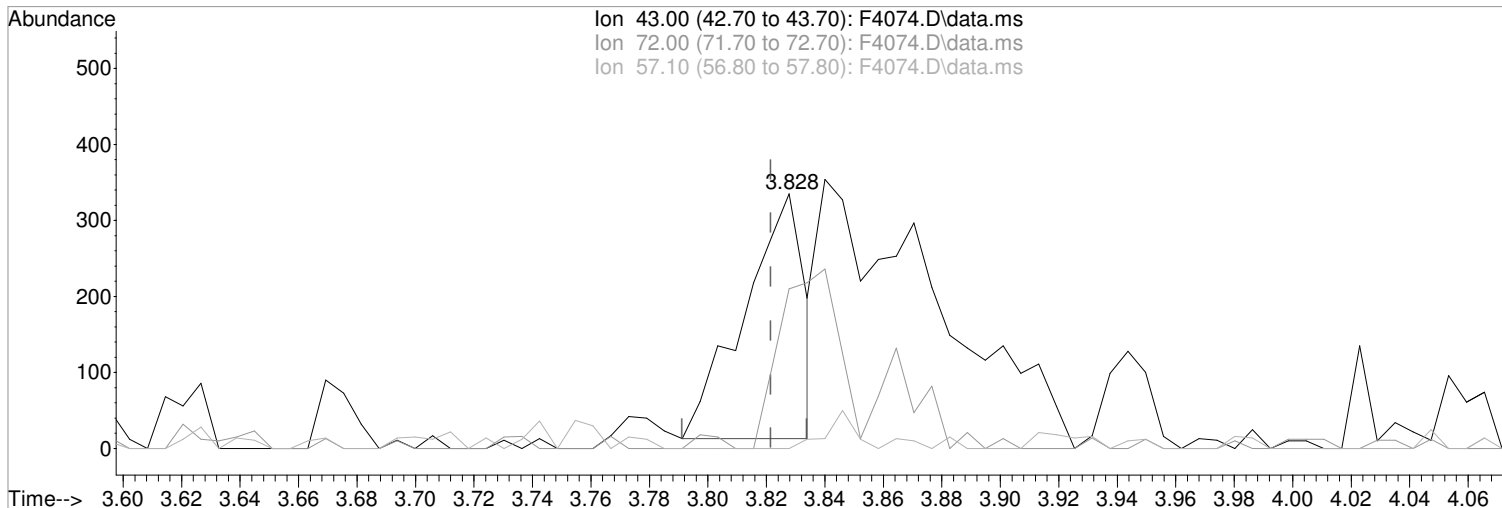
Ion	Exp%	Act%
43.00	100	100
72.00	25.70	66.67#
57.10	7.70	3.67
0.00	0.00	0.00

03/12/21

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4074.D
Acq On : 11 Mar 2021 12:54 pm
Operator : F.NAEGLER
Sample : MBLK-UNP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 13:45:55 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration



TIC: F4074.D\data.ms

(34) 2-Butanone (P)
3.828min (+0.006) 0.12 ug/L
response 462

Manual Integration:
Before

Ion	Exp%	Act%
43.00	100	100
72.00	25.70	62.69#
57.10	7.70	0.00
0.00	0.00	0.00

03/12/21

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4074.D
Acq On : 11 Mar 2021 12:54 pm
Operator : F.NAEGLER
Sample : MBLK-UNP Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 11:40:14 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\E100820.M
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Oct 09 06:24:44 2020
Response via : Initial Calibration

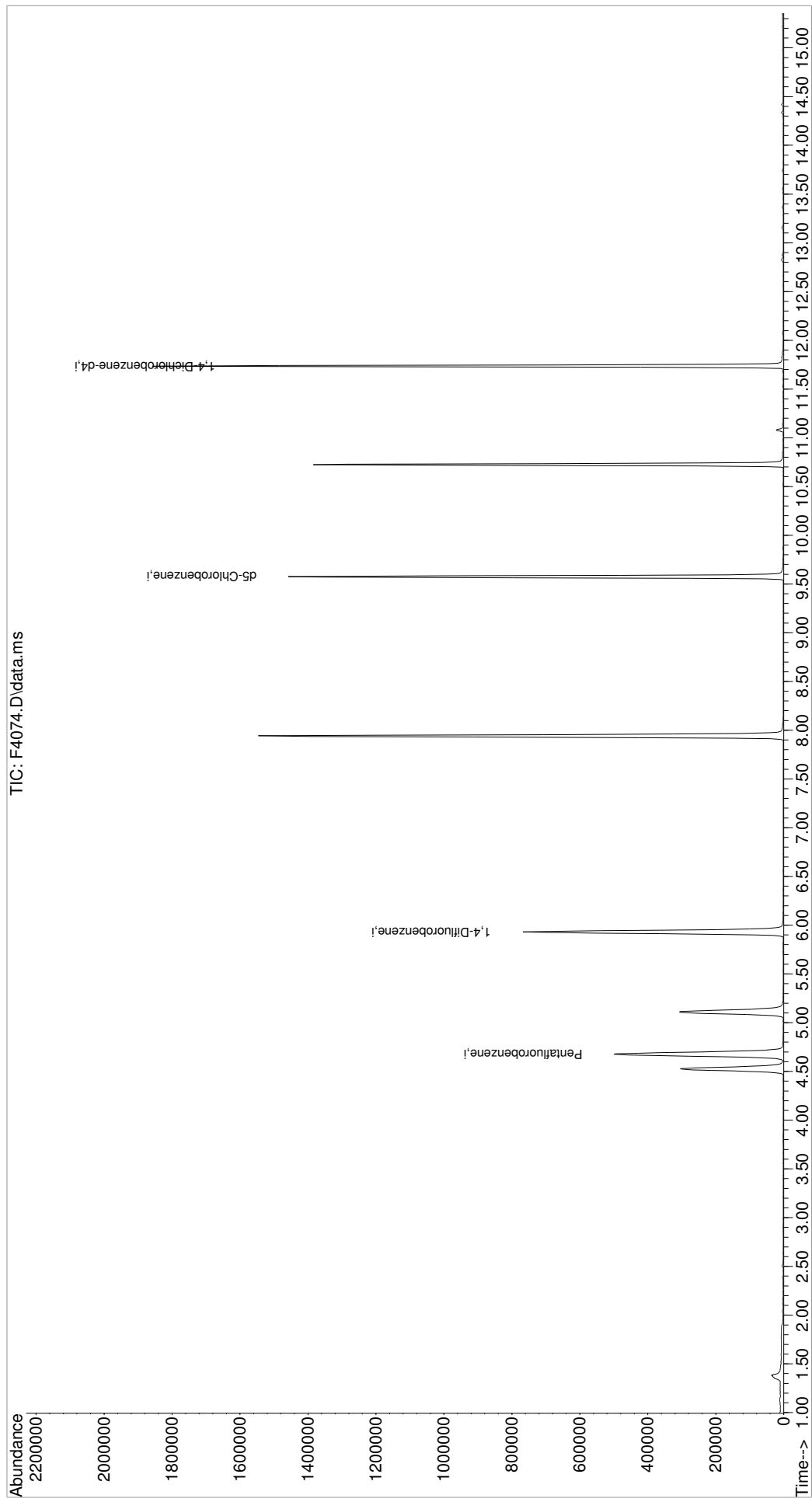
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.675	168	522691	50.00	ug/L	0.00
3) 1,4-Difluorobenzene	5.931	114	757697	50.00	ug/L	0.00
7) d5-Chlorobenzene	9.577	117	686673	50.00	ug/L	0.00
9) 1,4-Dichlorobenzene-d4	11.735	152	360243	50.00	ug/L	0.00

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4074.D
 Acq On : 11 Mar 2021 12:54 pm
 Operator : F.NAEGLER
 Sample : MBLK-UNP
 Misc :
 ALS Vial : 4 Sample Multiplier: 1
 Quant Time: Mar 12 11:40:14 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\E100820.M
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Oct 09 06:24:44 2020
 Response via : Initial Calibration

Inst : MSVOA14



Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4074.D
 Acq On : 11 Mar 2021 12:54 pm
 Operator : F.NAEGLER
 Sample : MBLK-UNP Inst : MSVOA14
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 11:39:01 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

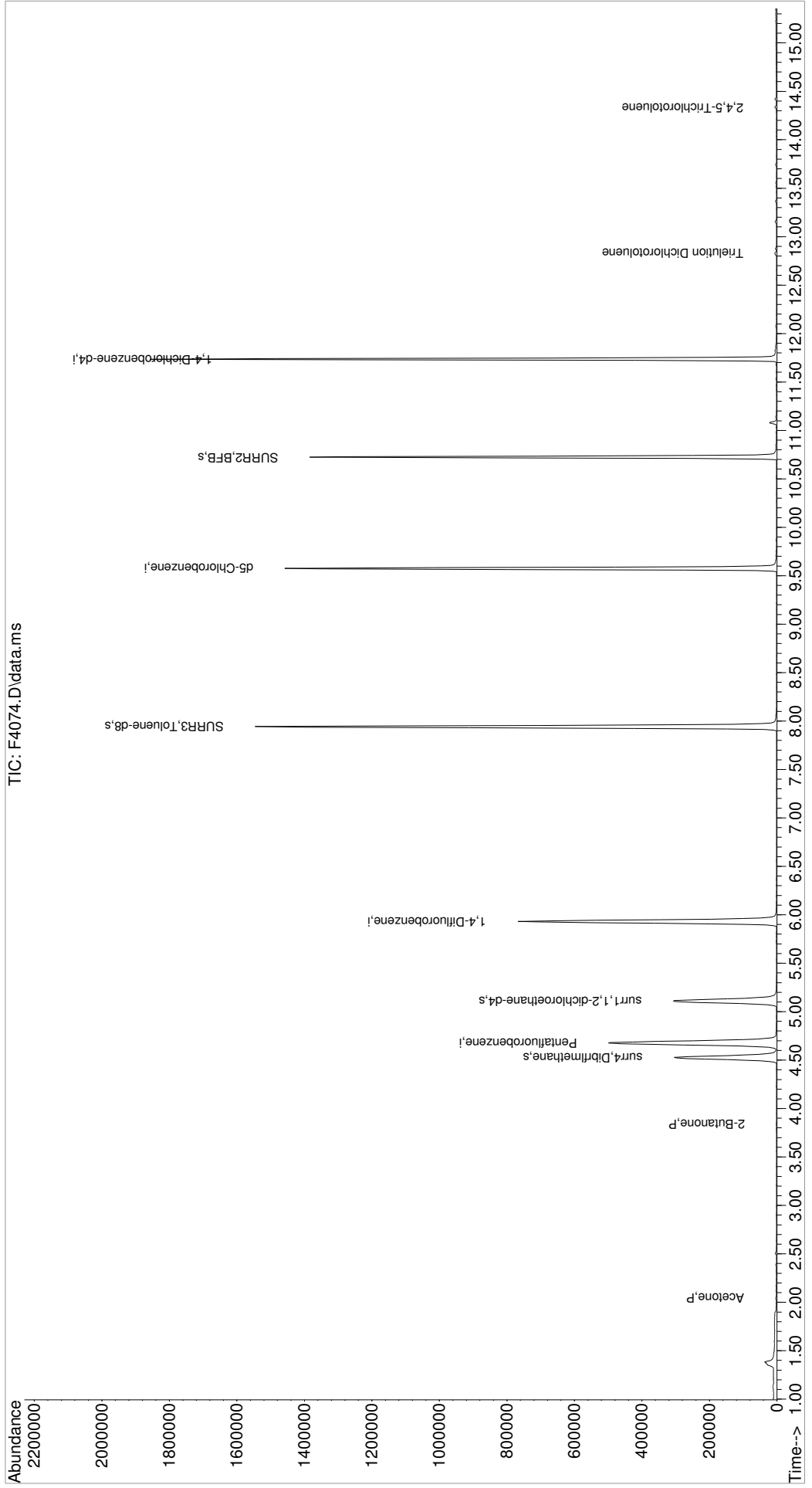
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.675	168	522691	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	757697	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	686673	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	360243	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	239252	47.10	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	94.20%		
47) surr1,1,2-dichloroetha...	5.108	65	306356	51.19	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	102.38%		
64) SURR3,Toluene-d8	7.943	98	966018	51.14	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	102.28%		
69) SURR2,BFB	10.723	95	338486	46.84	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	93.68%		
Target Compounds						
3) Chloromethane	1.151	50	511	Below Cal	#	51
5) Bromomethane	1.414	94	972	Below Cal	#	67
15) Acetone	2.048	43	1486	0.60	ug/L	86
34) 2-Butanone	3.840	43	1487m	0.37	ug/L	
111) Trielution Dichlorotol...	12.832	125	2589	0.27	ug/L	93
118) 2,4,5-Trichlorotoluene	14.332	159	1303	0.21	ug/L	84

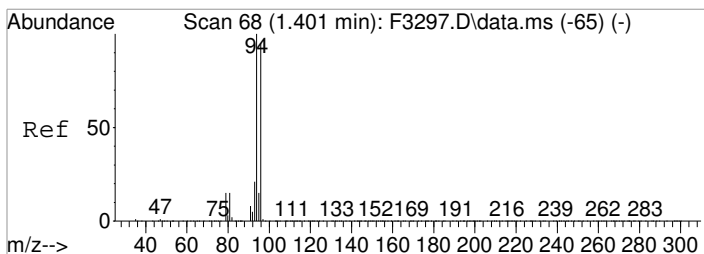
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4074.D
Acq On : 11 Mar 2021 12:54 pm
Operator : F.NAEGLER
Sample : MBLK-UNP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

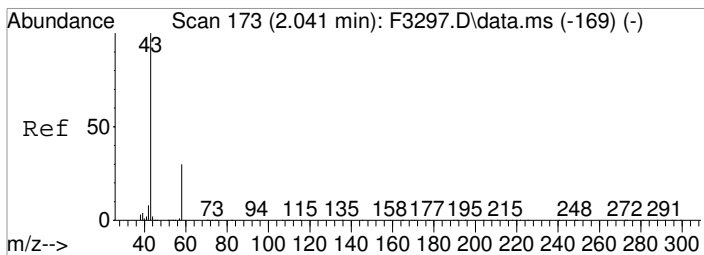
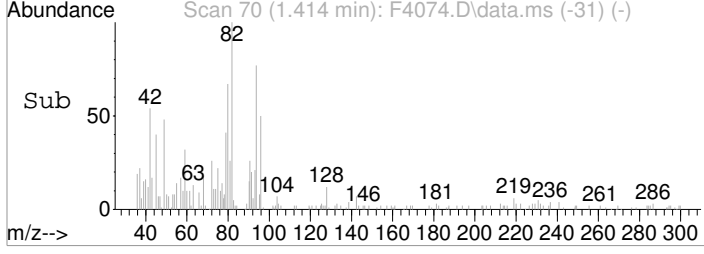
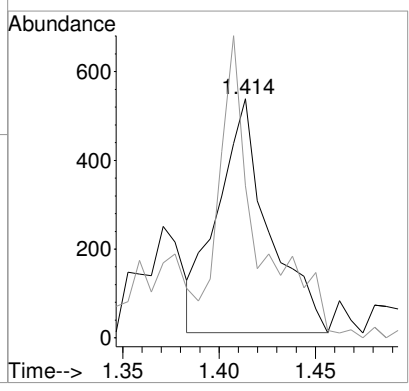
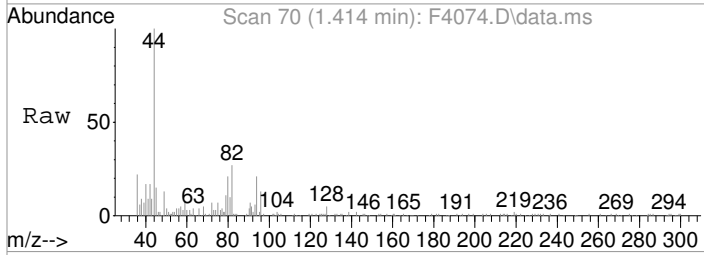
Quant Time: Mar 12 11:39:01 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration





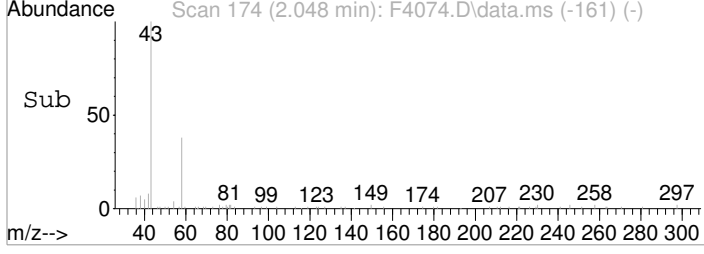
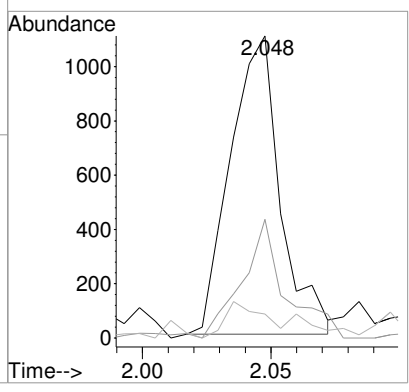
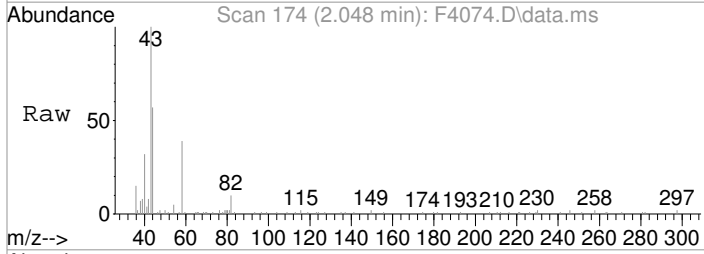
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.414 min Scan# 70
 Delta R.T. 0.013 min
 Lab File: F4074.D
 Acq: 11 Mar 2021 12:54 pm

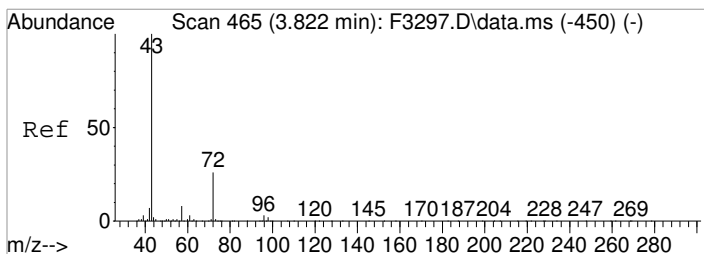
Tgt Ion	94	96	Resp	63.6	75.3	115.3#
Lower						
Upper						



#15
 Acetone
 Concen: 0.60 ug/L
 RT: 2.048 min Scan# 174
 Delta R.T. 0.006 min
 Lab File: F4074.D
 Acq: 11 Mar 2021 12:54 pm

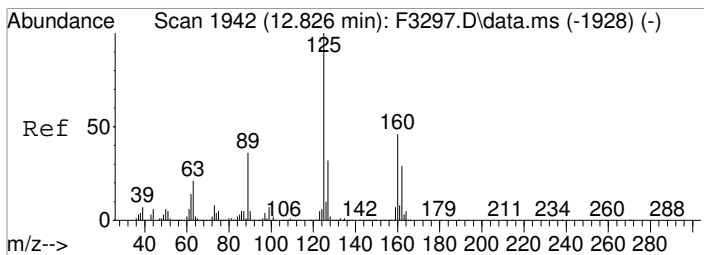
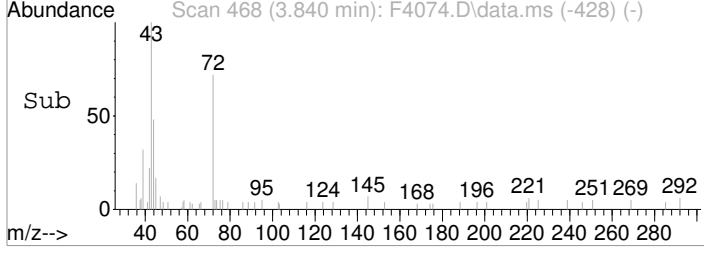
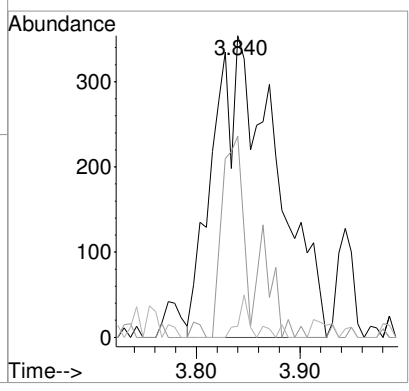
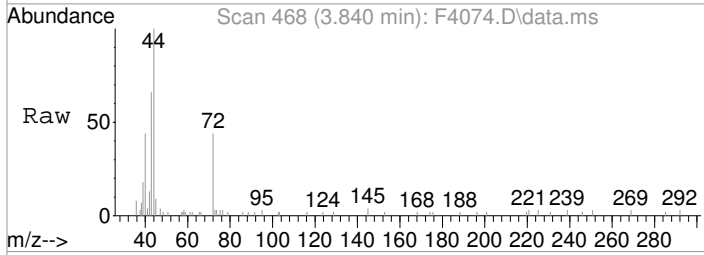
Tgt Ion	43	58	42	Resp	1486	39.4	8.0	Lower	9.6	0.0	Upper	49.6	28.0
Lower													
Upper													





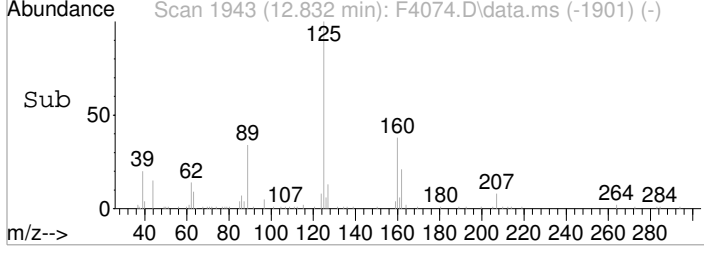
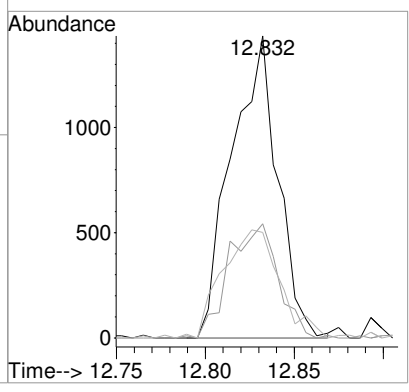
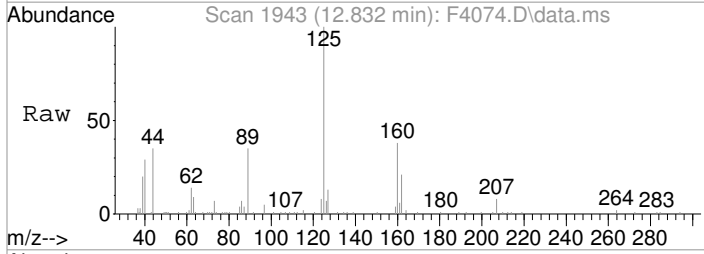
#34
 2-Butanone
 Concen: 0.37 ug/L m
 RT: 3.840 min Scan# 468
 Delta R.T. 0.018 min
 Lab File: F4074.D
 Acq: 11 Mar 2021 12:54 pm

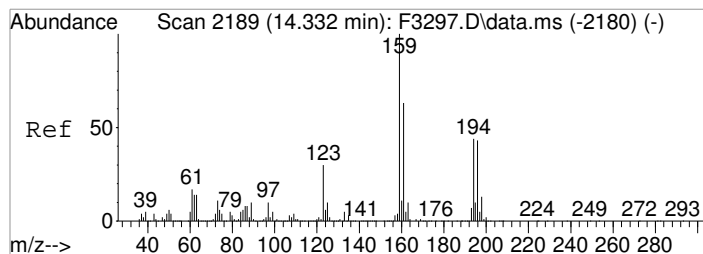
Tgt Ion	Resp	Lower	Upper
43	1487		
72	66.7	5.7	45.7#
57	3.7	0.0	27.7



#111
 Trilution Dichlorotoluene
 Concen: 0.27 ug/L
 RT: 12.832 min Scan# 1943
 Delta R.T. 0.006 min
 Lab File: F4074.D
 Acq: 11 Mar 2021 12:54 pm

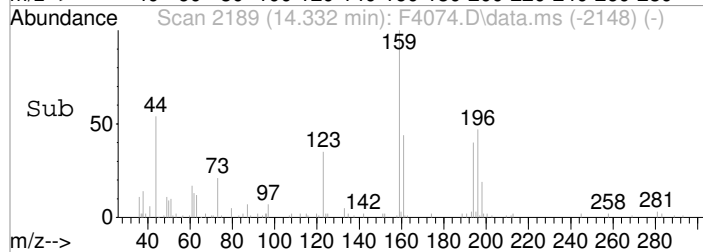
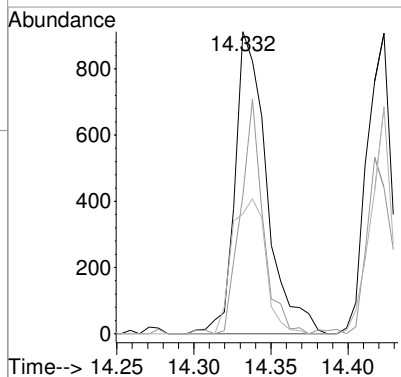
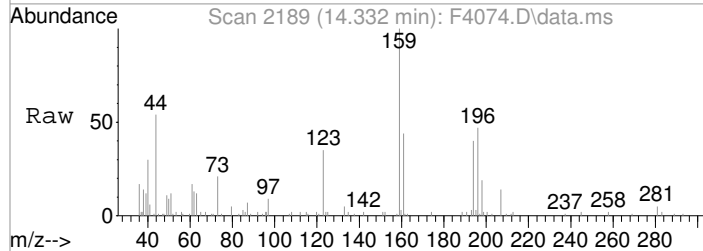
Tgt Ion	Resp	Lower	Upper
125	2589		
160	37.8	25.7	65.7
89	35.0	15.9	55.9





#118
 2,4,5-Trichlorotoluene
 Concen: 0.21 ug/L
 RT: 14.332 min Scan# 2189
 Delta R.T. 0.000 min
 Lab File: F4074.D
 Acq: 11 Mar 2021 12:54 pm

Tgt Ion	Resp	Lower	Upper
159	100		
161	45.7	42.8	82.8
194	39.7	24.5	64.5



Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4074.D
 Acq On : 11 Mar 2021 12:54 pm
 Operator : F.NAEGLER
 Sample : MBLK-UNP Inst : MSVOA14
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: CPD4.P
 Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Title : MS#14 - 8260 WATERS 5mL Purge

Signal : TIC: F4074.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.371	55	63	64	rBV3	22845	45810	1.81%	0.341%
2	4.529	569	581	594	rBV	303145	811581	32.15%	6.038%
3	4.675	594	605	620	rVV	496062	1414248	56.02%	10.521%
4	5.108	663	676	690	rBV2	304962	861198	34.12%	6.407%
5	5.931	802	811	827	rBV	766213	1707534	67.64%	12.703%
6	7.943	1132	1141	1151	rBV	1544331	2524389	100.00%	18.780%
7	9.577	1403	1409	1421	rBV	1456197	2082601	82.50%	15.493%
8	10.723	1592	1597	1611	rBV	1382306	1772709	70.22%	13.188%
9	11.076	1650	1655	1662	rBV2	19980	29005	1.15%	0.216%
10	11.735	1758	1763	1774	rBV	1855501	2192851	86.87%	16.314%

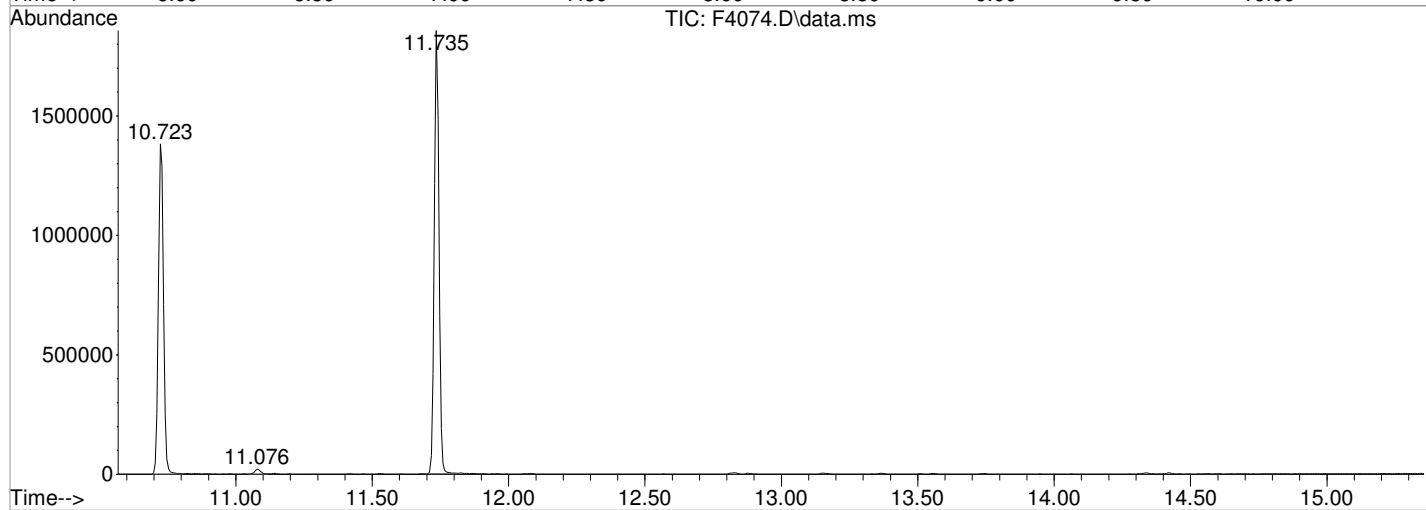
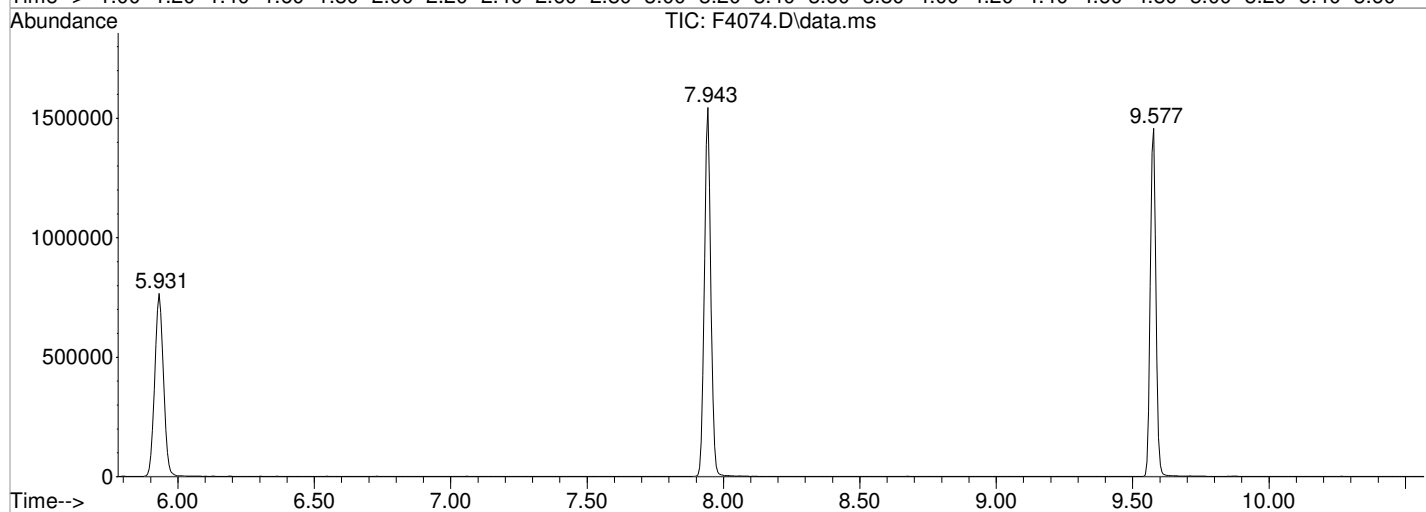
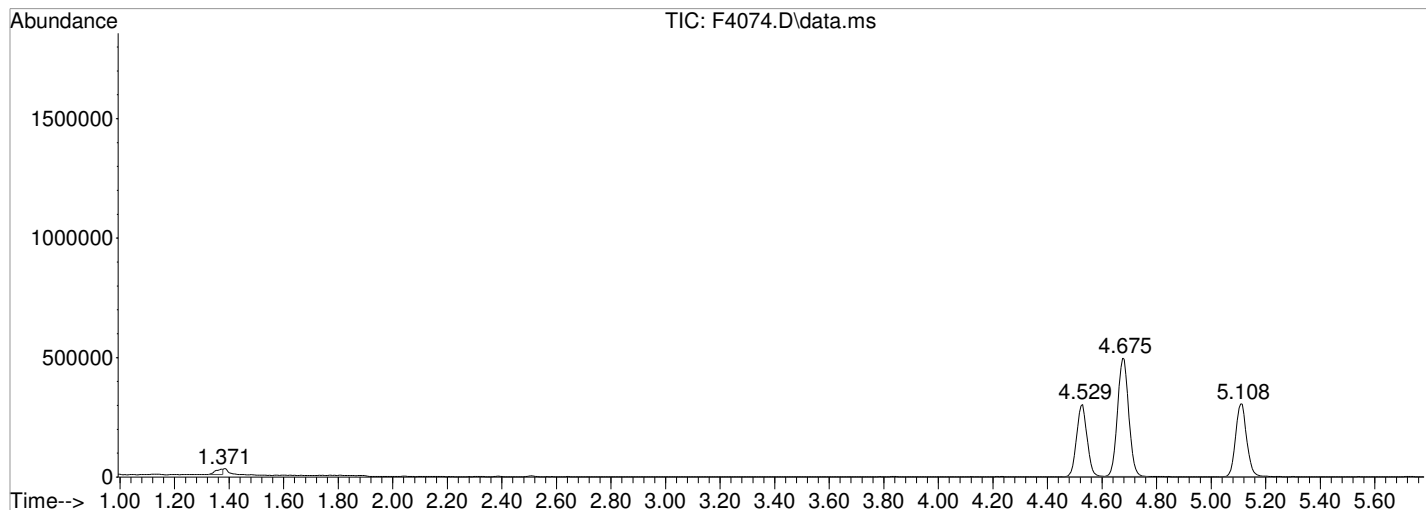
Sum of corrected areas: 13441926

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4074.D
Acq On : 11 Mar 2021 12:54 pm
Operator : F.NAEGLER
Sample : MBLK-UNP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4074.D
Acq On : 11 Mar 2021 12:54 pm
Operator : F.NAEGLER
Sample : MBLK-UNP Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

1st *FJ* 03/12/21
2nd *RL* 03/12/21

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4074.D
Acq On : 11 Mar 2021 12:54 pm
Operator : F.NAEGLER
Sample : MBLK-UNP Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4072.D
 Acq On : 11 Mar 2021 12:00 pm
 Operator : F.NAEGLER
 Sample : LCS-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 12:35:00 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.675	168	535817	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.931	114	786378	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.577	117	716869	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.735	152	386197	50.00	ug/L	0.00	
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.523	113	258558	49.05	ug/L	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery =	98.10%			
47) surr1,1,2-dichloroetha...	5.108	65	315328	50.77	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	101.54%			
64) SURR3,Toluene-d8	7.943	98	1014512	51.75	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	103.50%			
69) SURR2,BFB	10.723	95	374393	49.92	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	99.84%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	114393	21.20	ug/L		97
3) Chloromethane	1.152	50	97918	20.05	ug/L		100
4) Vinyl Chloride	1.212	62	109296	19.46	ug/L		98
5) Bromomethane	1.408	94	106161	23.66	ug/L		98
6) Chloroethane	1.475	64	68856	18.45	ug/L		97
7) Freon 21	1.603	67	166397	18.68	ug/L		96
8) Trichlorofluoromethane	1.645	101	142081	18.43	ug/L		97
9) Diethyl Ether	1.840	59	84689	21.63	ug/L		97
10) Freon 123a	1.840	67	125980	25.22	ug/L		100
11) Freon 123	1.889	83	129516	22.22	ug/L		98
12) Acrolein	1.926	56	52842	39.62	ug/L		98
13) 1,1-Diclcethene	2.005	96	72454	22.88	ug/L		97
14) Freon 113	2.011	101	74738	18.76	ug/L		96
15) Acetone	2.042	43	49988	19.74	ug/L		96
16) 2-Propanol	2.157	45	198358	298.25	ug/L		89
17) Iodomethane	2.115	142	108231	16.58	ug/L		100
18) Carbon Disulfide	2.170	76	173987	16.24	ug/L		99
19) Acetonitrile	2.249	41	79129	92.01	ug/L		95
20) Allyl Chloride	2.285	76	40766	17.55	ug/L		95
21) Methyl Acetate	2.304	43	120687	18.15	ug/L		98
22) Methylene Chloride	2.383	84	92264	19.64	ug/L		95
23) TBA	2.499	59	369497	330.19	ug/L		95
24) Acrylonitrile	2.596	53	265327	99.86	ug/L		99
25) Methyl-t-Butyl Ether	2.651	73	311150	20.59	ug/L		99
26) trans-1,2-Dichloroethene	2.639	96	84225	22.16	ug/L		96
27) 1,1-Diclcethane	3.060	63	148162	19.55	ug/L		98
28) Vinyl Acetate	3.139	86	17172	20.57	ug/L	#	80
29) DIPE	3.175	45	276222	20.49	ug/L		92
30) 2-Chloro-1,3-Butadiene	3.169	53	124784	19.41	ug/L		98
31) ETBE	3.627	59	267254	19.68	ug/L		95
32) 2,2-Dichloropropane	3.773	77	118580	18.21	ug/L		99
33) cis-1,2-Dichloroethene	3.779	96	99159	21.11	ug/L		96
34) 2-Butanone	3.816	43	77765	19.07	ug/L		98
35) Propionitrile	3.877	54	114881	97.37	ug/L		97
36) Bromochloromethane	4.114	130	70581	20.12	ug/L		91
37) Methacrylonitrile	4.114	67	56693	20.42	ug/L		88
38) Tetrahydrofuran	4.200	42	41730	16.79	ug/L		98
39) Chloroform	4.267	83	157750	20.25	ug/L		98
40) 1,1,1-Trichloroethane	4.541	97	126191	18.40	ug/L		95

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4072.D
 Acq On : 11 Mar 2021 12:00 pm
 Operator : F.NAEGLER
 Sample : LCS-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 12:35:00 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.498	73	302107	22.10	ug/L	97
43) Cyclohexane	4.626	41	79743	17.78	ug/L	95
45) Carbontetrachloride	4.834	117	99299	15.60	ug/L	98
46) 1,1-Dichloropropene	4.840	75	109705	18.30	ug/L	98
48) Benzene	5.206	78	336607	18.64	ug/L	98
49) 1,2-Dichloroethane	5.248	62	135364	19.42	ug/L	97
50) Iso-Butyl Alcohol	5.248	43	141385	305.84	ug/L	90
51) n-Heptane	5.797	43	85860	16.34	ug/L	95
52) 1-Butanol	6.364	56	252261	928.81	ug/L	98
53) Trichloroethene	6.291	130	98569	18.52	ug/L	99
54) Methylcyclohexane	6.559	55	109775	19.34	ug/L	97
55) 1,2-Diclpropane	6.602	63	89912	19.14	ug/L	97
56) Dibromomethane	6.754	93	69929	19.18	ug/L	88
57) 1,4-Dioxane	6.839	88	48081	352.70	ug/L	99
58) Methyl Methacrylate	6.882	69	90707	19.13	ug/L	95
59) Bromodichloromethane	7.016	83	106476	16.38	ug/L	97
60) 2-Nitropropane	7.333	41	56154	26.01	ug/L	93
61) 2-Chloroethylvinyl Ether	7.486	63	76194	19.90	ug/L	94
62) cis-1,3-Dichloropropene	7.620	75	131839	17.34	ug/L	98
63) 4-Methyl-2-pentanone	7.857	43	144564	18.32	ug/L	97
65) Toluene	8.022	91	384100	19.02	ug/L	100
66) trans-1,3-Dichloropropene	8.327	75	122521	16.89	ug/L	98
67) Ethyl Methacrylate	8.498	69	145665	19.07	ug/L	96
68) 1,1,2-Trichloroethane	8.522	97	101738	19.91	ug/L	94
71) Tetrachloroethene	8.668	164	73832	17.37	ug/L	98
72) 2-Hexanone	8.863	43	105061	17.64	ug/L	100
73) 1,3-Dichloropropane	8.705	76	164268	19.76	ug/L	98
74) Dibromochloromethane	8.955	129	93617	17.27	ug/L	98
75) N-Butyl Acetate	9.052	43	176718	16.38	ug/L	97
76) 1,2-Dibromoethane	9.052	107	107012	19.65	ug/L	98
77) 3-Chlorobenzotrifluoride	9.650	180	151058	18.27	ug/L	98
78) Chlorobenzene	9.601	112	264116	19.32	ug/L	100
79) 4-Chlorobenzotrifluoride	9.705	180	134630	18.30	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	90682	17.67	ug/L	98
81) Ethylbenzene	9.741	106	129004	18.79	ug/L	93
82) (m+p)Xylene	9.869	106	321191	37.46	ug/L	98
83) o-Xylene	10.247	106	158955	18.77	ug/L	98
84) Styrene	10.259	104	265354	18.72	ug/L	98
85) Bromoform	10.406	173	61488	14.23	ug/L	98
86) 2-Chlorobenzotrifluoride	10.509	180	145077	17.61	ug/L	95
87) Isopropylbenzene	10.607	105	390580	18.27	ug/L	99
88) Cyclohexanone	10.656	55	436829	300.93	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.930	53	31864	14.91	ug/L	88
91) 1,1,2,2-Tetrachloroethane	10.875	83	143309	18.71	ug/L	98
92) Bromobenzene	10.845	156	117434	18.77	ug/L	97
93) 1,2,3-Trichloropropane	10.900	110	51926	19.01	ug/L	92
94) n-Propylbenzene	10.979	91	460246	18.67	ug/L	99
95) 2-Chlorotoluene	11.034	91	282552	18.53	ug/L	99
96) 3-Chlorotoluene	11.089	91	317068	19.66	ug/L	99
97) 4-Chlorotoluene	11.131	91	324958	18.48	ug/L	99
98) 1,3,5-Trimethylbenzene	11.137	105	322979	18.08	ug/L	98
99) tert-Butylbenzene	11.418	119	278515	17.74	ug/L	100
100) 1,2,4-Trimethylbenzene	11.460	105	335240	18.42	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.534	214	123925	18.31	ug/L	98
102) sec-Butylbenzene	11.607	105	403937	18.08	ug/L	99
103) p-Isopropyltoluene	11.735	119	345614	17.55	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4072.D
 Acq On : 11 Mar 2021 12:00 pm
 Operator : F.NAEGLER
 Sample : LCS-UNP Inst : MSVOA14
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 11 12:35:00 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	215006	18.49	ug/L	99
105) 1,4-Dclbenz	11.753	146	225175	18.41	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.826	214	113327	18.03	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.869	214	127423	18.35	ug/L	97
108) n-Butylbenzene	12.076	91	311032	18.09	ug/L	99
109) 1,2-Dclbenz	12.064	146	220812	18.38	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.698	157	33173	13.74	ug/L	96
111) Trielution Dichlorotol...	12.826	125	588542	56.73	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	176263	18.34	ug/L	98
113) Coelution Dichlorotoluene	13.149	125	442360	38.45	ug/L	95
114) 1,2,4-Tcbenzene	13.363	180	164281	17.88	ug/L	99
115) Hexachlorobt	13.509	225	60989	15.03	ug/L	96
116) Naphthalen	13.552	128	530913	18.59	ug/L	100
117) 1,2,3-Tclbenzene	13.741	180	167091	17.49	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	124206	18.78	ug/L	98
119) 2,3,6-Trichlorotoluene	14.417	159	113396	18.66	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4070.D
 Acq On : 11 Mar 2021 10:50 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 11:05:42 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 i	Pentafluorobenzene	50.000	50.000	0.0	93	0.00
2 P	Dichlorodifluoromethane	50.000	56.326	-12.7	103	0.00
3 P	Chloromethane	50.000	51.707	-3.4	93	0.00
4 P	Vinyl Chloride	50.000	52.966	-5.9	100	0.00
5 P	Bromomethane	50.000	90.637	-81.3#	142	0.00
6 P	Chloroethane	50.000	50.654	-1.3	105	0.00
7	Freon 21	50.000	53.068	-6.1	93	0.00
8 P	Trichlorofluoromethane	50.000	49.312	1.4	93	0.00
9	Diethyl Ether	50.000	55.444	-10.9	100	0.00
10	Freon 123a	50.000	59.095	-18.2	104	0.00
11	Freon 123	50.000	53.406	-6.8	93	0.00
12	Acrolein	250.000	236.847	5.3	80	0.00
13	1,1-Dicethene	50.000	52.146	-4.3	99	0.00
14 P	Freon 113	50.000	52.634	-5.3	104	0.00
15 P	Acetone	50.000	43.480	13.0	79	0.00
16	2-Propanol	1000.000	769.740	23.0#	67	0.00
17	Iodomethane	50.000	49.078	1.8	82	0.00
18 P	Carbon Disulfide	50.000	46.339	7.3	82	0.00
19	Acetonitrile	250.000	247.129	1.1	79	0.00
20	Allyl Chloride	50.000	52.333	-4.7	96	0.00
21 P	Methyl Acetate	50.000	46.008	8.0	80	0.00
22 P	Methylene Chloride	50.000	50.721	-1.4	98	0.00
23	TBA	1000.000	837.090	16.3	72	0.00
24	Acrylonitrile	250.000	254.317	-1.7	85	0.00
25 P	Methyl-t-Butyl Ether	50.000	53.159	-6.3	93	0.00
26 P	trans-1,2-Dichloroethene	50.000	52.724	-5.4	101	0.00
27 P	1,1-Dicethane	50.000	52.169	-4.3	99	0.00
28	Vinyl Acetate	50.000	51.749	-3.5	87	0.00
29	DIPE	50.000	47.773	4.5	83	0.00
30	2-Chloro-1,3-Butadiene	50.000	51.988	-4.0	92	0.00
31	ETBE	50.000	49.514	1.0	86	0.00
32	2,2-Dichloropropane	50.000	50.456	-0.9	93	0.00
33 P	cis-1,2-Dichloroethene	50.000	54.355	-8.7	100	0.00
34 P	2-Butanone	50.000	44.830	10.3	80	0.00
35	Propionitrile	250.000	246.204	1.5	83	0.00
36	Bromochloromethane	50.000	52.324	-4.6	95	0.00
37	Methacrylonitrile	50.000	51.972	-3.9	87	0.00
38	Tetrahydrofuran	50.000	43.929	12.1	78	0.00
39 P	Chloroform	50.000	53.087	-6.2	98	0.00
40 P	1,1,1-Trichloroethane	50.000	50.504	-1.0	96	0.00
41	TAME	50.000	50.942	-1.9	88	0.00
42 i	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
43 P	Cyclohexane	50.000	47.726	4.5	89	0.00
44 s	surr4,Dibrflmethane	50.000	50.027	-0.1	97	0.00
45 P	Carbontetrachloride	50.000	44.710	10.6	89	0.00
46	1,1-Dichloropropene	50.000	50.697	-1.4	102	0.00
47 s	surr1,1,2-dichloroethane-d4	50.000	50.396	-0.8	100	0.00
48 P	Benzene	50.000	50.272	-0.5	100	0.00
49 P	1,2-Dichloroethane	50.000	51.896	-3.8	97	0.00
50	Iso-Butyl Alcohol	1000.000	819.972	18.0	72	0.00
51	n-Heptane	50.000	49.189	1.6	101	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4070.D
 Acq On : 11 Mar 2021 10:50 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 11:05:42 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	1-Butanol	2500.000	2138.175	14.5	75	0.00
53 P	Trichloroethene	50.000	51.401	-2.8	102	0.00
54 P	Methylcyclohexane	50.000	52.043	-4.1	95	0.00
55 P	1,2-Diclp propane	50.000	52.691	-5.4	99	0.00
56	Dibromomethane	50.000	51.942	-3.9	96	0.00
57	1,4-Dioxane	1000.000	914.202	8.6	80	0.00
58	Methyl Methacrylate	50.000	50.272	-0.5	88	0.00
59 P	Bromodichloromethane	50.000	48.143	3.7	89	0.00
60	2-Nitropropane	100.000	74.622	25.4#	65	0.00
61	2-Chloroethylvinyl Ether	50.000	51.962	-3.9	90	0.00
62 P	cis-1,3-Dichloropropene	50.000	50.898	-1.8	93	0.00
63 P	4-Methyl-2-pentanone	50.000	44.414	11.2	80	0.00
64 s	SURR3,Toluene-d8	50.000	52.029	-4.1	103	0.00
65 P	Toluene	50.000	51.652	-3.3	102	0.00
66 P	trans-1,3-Dichloropropene	50.000	50.554	-1.1	89	0.00
67	Ethyl Methacrylate	50.000	51.861	-3.7	88	0.00
68 P	1,1,2-Trichloroethane	50.000	51.951	-3.9	97	0.00
69 s	SURR2,BFB	50.000	51.530	-3.1	101	0.00
70 i	d5-Chlorobenzene	50.000	50.000	0.0	99	0.00
71 P	Tetrachloroethene	50.000	48.051	3.9	100	0.00
72 P	2-Hexanone	50.000	43.568	12.9	78	0.00
73	1,3-Dichloropropane	50.000	51.857	-3.7	96	0.00
74 P	Dibromochloromethane	50.000	48.457	3.1	86	0.00
75	N-Butyl Acetate	50.000	45.260	9.5	83	0.00
76 P	1,2-Dibromoethane	50.000	52.929	-5.9	94	0.00
77	3-Chlorobenzotrifluoride	50.000	51.957	-3.9	96	0.00
78 P	Chlorobenzene	50.000	51.074	-2.1	100	0.00
79	4-Chlorobenzotrifluoride	50.000	52.539	-5.1	96	0.00
80	1,1,1,2-Tetrachloroethane	50.000	47.937	4.1	89	0.00
81 P	Ethylbenzene	50.000	51.142	-2.3	100	0.00
82 P	(m+p)Xylene	100.000	103.262	-3.3	102	0.00
83 P	o-Xylene	50.000	51.466	-2.9	100	0.00
84 P	Styrene	50.000	53.373	-6.7	99	0.00
85 P	Bromoform	50.000	43.713	12.6	75	0.00
86	2-Chlorobenzotrifluoride	50.000	50.910	-1.8	94	0.00
87 P	Isopropylbenzene	50.000	51.528	-3.1	102	0.00
88	Cyclohexanone	1000.000	771.126	22.9#	69	0.00
89	trans-1,4-Dichloro-2-Butene	50.000	44.065	11.9	74	0.00
90 i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
91 P	1,1,2,2-Tetrachloroethane	50.000	49.203	1.6	88	0.00
92	Bromobenzene	50.000	49.978	0.0	97	0.00
93	1,2,3-Trichloropropane	50.000	48.348	3.3	91	0.00
94	n-Propylbenzene	50.000	51.490	-3.0	103	0.00
95	2-Chlorotoluene	50.000	50.715	-1.4	101	0.00
96	3-Chlorotoluene	50.000	53.166	-6.3	99	0.00
97	4-Chlorotoluene	50.000	50.343	-0.7	100	0.00
98	1,3,5-Trimethylbenzene	50.000	51.394	-2.8	100	0.00
99	tert-Butylbenzene	50.000	49.281	1.4	100	0.00
100	1,2,4-Trimethylbenzene	50.000	51.279	-2.6	100	0.00
101	3,4-Dichlorobenzotrifluorid	50.000	50.788	-1.6	96	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4070.D
 Acq On : 11 Mar 2021 10:50 am
 Operator : F.NAEGLER
 Sample : CCV Inst : MSVOA14
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 11:05:42 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	sec-Butylbenzene	50.000	50.764	-1.5	101	0.00
103	p-Isopropyltoluene	50.000	50.777	-1.6	100	0.00
104 P	1,3-Dclbenz	50.000	50.227	-0.5	99	0.00
105 P	1,4-Dclbenz	50.000	49.481	1.0	99	0.00
106	2,4-Dichlorobenzotrifluorid	50.000	49.527	0.9	95	0.00
107	2,5-Dichlorobenzotrifluorid	50.000	50.687	-1.4	96	0.00
108	n-Butylbenzene	50.000	51.801	-3.6	100	0.00
109 P	1,2-Dclbenz	50.000	49.193	1.6	98	0.00
110 P	1,2-Dibromo-3-chloropropane	50.000	42.966	14.1	74	0.00
111	Trielution Dichlorotoluene	150.000	155.543	-3.7	96	0.00
112	1,3,5-Trichlorobenzene	50.000	49.138	1.7	94	0.00
113	Coelution Dichlorotoluene	100.000	102.660	-2.7	94	0.00
114 P	1,2,4-Tcbenzene	50.000	49.911	0.2	93	0.00
115	Hexachlorobt	50.000	44.118	11.8	87	0.00
116	Naphthalen	50.000	50.367	-0.7	90	0.00
117	1,2,3-Tclbenzene	50.000	48.092	3.8	91	0.00
118	2,4,5-Trichlorotoluene	50.000	49.778	0.4	91	0.00
119	2,3,6-Trichlorotoluene	50.000	48.391	3.2	90	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4070.D
 Acq On : 11 Mar 2021 10:50 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 11:05:42 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.681	168	530436	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.931	114	774005	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.577	117	713485	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.735	152	394321	50.00	ug/L	0.00	
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.523	113	259577	50.03	ug/L	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery	=	100.06%		
47) surr1,1,2-dichloroetha...	5.108	65	308086	50.40	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	100.80%		
64) SURR3,Toluene-d8	7.943	98	1003889	52.03	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	104.06%		
69) SURR2,BFB	10.723	95	380413	51.53	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	103.06%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	300913	56.33	ug/L		99
3) Chloromethane	1.151	50	248131	51.71	ug/L		99
4) Vinyl Chloride	1.212	62	294423	52.97	ug/L		100
5) Bromomethane	1.401	94	273692	90.64	ug/L		97
6) Chloroethane	1.475	64	187112	50.65	ug/L		98
7) Freon 21	1.603	67	468045	53.07	ug/L		99
8) Trichlorofluoromethane	1.645	101	376238	49.31	ug/L		96
9) Diethyl Ether	1.840	59	214884	55.44	ug/L		97
10) Freon 123a	1.840	67	292272	59.09	ug/L		97
11) Freon 123	1.889	83	308233	53.41	ug/L		100
12) Acrolein	1.926	56	312682	236.85	ug/L		99
13) 1,1-Dicethene	2.005	96	163473	52.15	ug/L		97
14) Freon 113	2.011	101	207561	52.63	ug/L		96
15) Acetone	2.042	43	108980	43.48	ug/L		93
16) 2-Propanol	2.157	45	506798	769.74	ug/L		96
17) Iodomethane	2.115	142	317173	49.08	ug/L		97
18) Carbon Disulfide	2.170	76	491414	46.34	ug/L		100
19) Acetonitrile	2.249	41	210395	247.13	ug/L		99
20) Allyl Chloride	2.285	76	120341	52.33	ug/L	#	89
21) Methyl Acetate	2.304	43	302841	46.01	ug/L		99
22) Methylene Chloride	2.383	84	235849	50.72	ug/L		96
23) TBA	2.499	59	927340	837.09	ug/L		96
24) Acrylonitrile	2.596	53	668904	254.32	ug/L		100
25) Methyl-t-Butyl Ether	2.651	73	795206	53.16	ug/L		98
26) trans-1,2-Dichloroethene	2.639	96	198381	52.72	ug/L		99
27) 1,1-Dicethane	3.060	63	391470	52.17	ug/L		100
28) Vinyl Acetate	3.139	86	42759	51.75	ug/L	#	88
29) DIPE	3.175	45	637566	47.77	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.169	53	330821	51.99	ug/L		94
31) ETBE	3.627	59	665605	49.51	ug/L		98
32) 2,2-Dichloropropane	3.773	77	325341	50.46	ug/L		96
33) cis-1,2-Dichloroethene	3.779	96	252794	54.36	ug/L		99
34) 2-Butanone	3.816	43	180934	44.83	ug/L		97
35) Propionitrile	3.877	54	287573	246.20	ug/L		99
36) Bromochloromethane	4.114	130	181683	52.32	ug/L		91
37) Methacrylonitrile	4.114	67	142875	51.97	ug/L		88
38) Tetrahydrofuran	4.194	42	108103	43.93	ug/L		97
39) Chloroform	4.267	83	409484	53.09	ug/L		97
40) 1,1,1-Trichloroethane	4.541	97	342914	50.50	ug/L		97

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4070.D
 Acq On : 11 Mar 2021 10:50 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 11 11:05:42 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.498	73	689512	50.94	ug/L	97
43) Cyclohexane	4.632	41	210666	47.73	ug/L	100
45) Carbontetrachloride	4.828	117	280059	44.71	ug/L	99
46) 1,1-Dichloropropene	4.840	75	299062	50.70	ug/L	98
48) Benzene	5.206	78	893553	50.27	ug/L	98
49) 1,2-Dichloroethane	5.248	62	356008	51.90	ug/L	99
50) Iso-Butyl Alcohol	5.248	43	373099	819.97	ug/L	96
51) n-Heptane	5.791	43	254415	49.19	ug/L	97
52) 1-Butanol	6.364	56	633454	2138.18	ug/L	95
53) Trichloroethene	6.297	130	269243	51.40	ug/L	98
54) Methylcyclohexane	6.559	55	290734	52.04	ug/L	98
55) 1,2-Diclpropane	6.602	63	243674	52.69	ug/L	100
56) Dibromomethane	6.754	93	186354	51.94	ug/L	93
57) 1,4-Dioxane	6.839	88	122664	914.20	ug/L	95
58) Methyl Methacrylate	6.882	69	234611	50.27	ug/L	95
59) Bromodichloromethane	7.016	83	307968	48.14	ug/L	99
60) 2-Nitropropane	7.327	41	158558	74.62	ug/L	97
61) 2-Chloroethylvinyl Ether	7.479	63	195855	51.96	ug/L	94
62) cis-1,3-Dichloropropene	7.620	75	380900	50.90	ug/L	100
63) 4-Methyl-2-pentanone	7.857	43	345043	44.41	ug/L	94
65) Toluene	8.022	91	1026405	51.65	ug/L	99
66) trans-1,3-Dichloropropene	8.321	75	360880	50.55	ug/L	99
67) Ethyl Methacrylate	8.498	69	389859	51.86	ug/L	98
68) 1,1,2-Trichloroethane	8.522	97	261338	51.95	ug/L	96
71) Tetrachloroethene	8.668	164	203271	48.05	ug/L	97
72) 2-Hexanone	8.863	43	258304	43.57	ug/L	96
73) 1,3-Dichloropropane	8.705	76	429019	51.86	ug/L	96
74) Dibromochloromethane	8.955	129	261450	48.46	ug/L	99
75) N-Butyl Acetate	9.052	43	486119	45.26	ug/L	98
76) 1,2-Dibromoethane	9.052	107	286831	52.93	ug/L	100
77) 3-Chlorobenzotrifluoride	9.650	180	427472	51.96	ug/L	98
78) Chlorobenzene	9.601	112	695030	51.07	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	384652	52.54	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	244793	47.94	ug/L	98
81) Ethylbenzene	9.741	106	349415	51.14	ug/L	94
82) (m+p)Xylene	9.869	106	881150	103.26	ug/L	97
83) o-Xylene	10.247	106	433758	51.47	ug/L	98
84) Styrene	10.259	104	753032	53.37	ug/L	96
85) Bromoform	10.406	173	187932	43.71	ug/L	95
86) 2-Chlorobenzotrifluoride	10.509	180	417435	50.91	ug/L	98
87) Isopropylbenzene	10.601	105	1096278	51.53	ug/L	97
88) Cyclohexanone	10.656	55	1114086	771.13	ug/L	96
89) trans-1,4-Dichloro-2-B...	10.930	53	93747	44.07	ug/L	97
91) 1,1,2,2-Tetrachloroethane	10.881	83	384712	49.20	ug/L	99
92) Bromobenzene	10.845	156	319292	49.98	ug/L	97
93) 1,2,3-Trichloropropane	10.900	110	134824	48.35	ug/L	99
94) n-Propylbenzene	10.979	91	1296015	51.49	ug/L	99
95) 2-Chlorotoluene	11.034	91	789533	50.72	ug/L	99
96) 3-Chlorotoluene	11.089	91	875613	53.17	ug/L	100
97) 4-Chlorotoluene	11.131	91	903814	50.34	ug/L	99
98) 1,3,5-Trimethylbenzene	11.137	105	937468	51.39	ug/L	97
99) tert-Butylbenzene	11.418	119	789982	49.28	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	953072	51.28	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.527	214	351067	50.79	ug/L	97
102) sec-Butylbenzene	11.607	105	1157987	50.76	ug/L	98
103) p-Isopropyltoluene	11.735	119	1021206	50.78	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
 Data File : F4070.D
 Acq On : 11 Mar 2021 10:50 am
 Operator : F.NAEGLER
 Sample : CCV Inst : MSVOA14
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 11:05:42 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

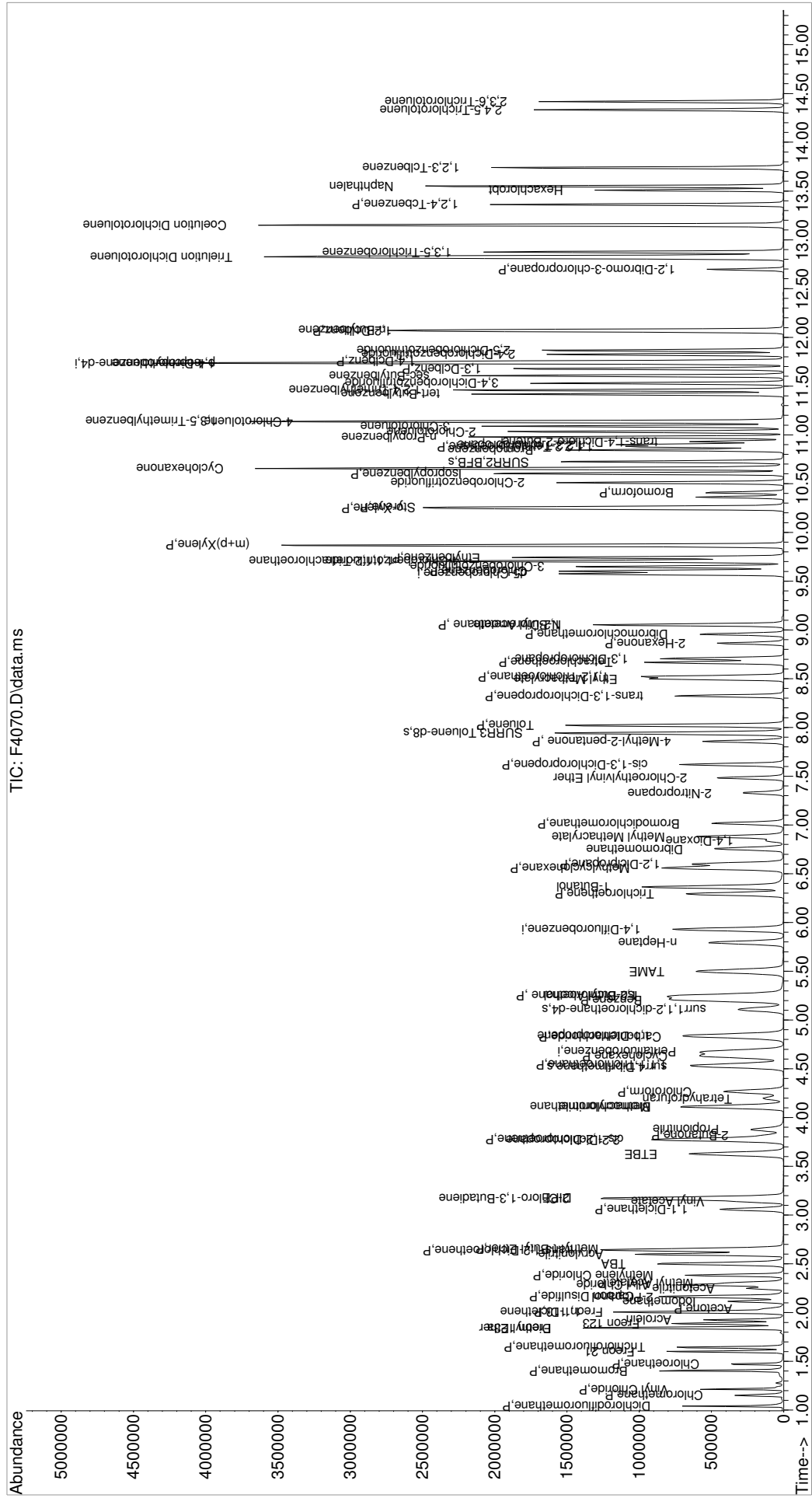
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	596425	50.23	ug/L	99
105) 1,4-Dclbenz	11.753	146	617856	49.48	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.826	214	317784	49.53	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	359402	50.69	ug/L	99
108) n-Butylbenzene	12.076	91	909200	51.80	ug/L	99
109) 1,2-Dclbenz	12.064	146	603372	49.19	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	105897	42.97	ug/L	98
111) Trielution Dichlorotol...	12.826	125	1647682	155.54	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	482108	49.14	ug/L	99
113) Coelution Dichlorotoluene	13.149	125	1205894	102.66	ug/L	95
114) 1,2,4-Tcbenzene	13.362	180	468301	49.91	ug/L	99
115) Hexachlorobt	13.509	225	182817	44.12	ug/L	98
116) Naphthalen	13.551	128	1468836	50.37	ug/L	100
117) 1,2,3-Tclbenzene	13.740	180	469093	48.09	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	336086	49.78	ug/L	99
119) 2,3,6-Trichlorotoluene	14.417	159	300263	48.39	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\031121\
 Data File : F4070.D
 Acq On : 11 Mar 2021 10:50 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

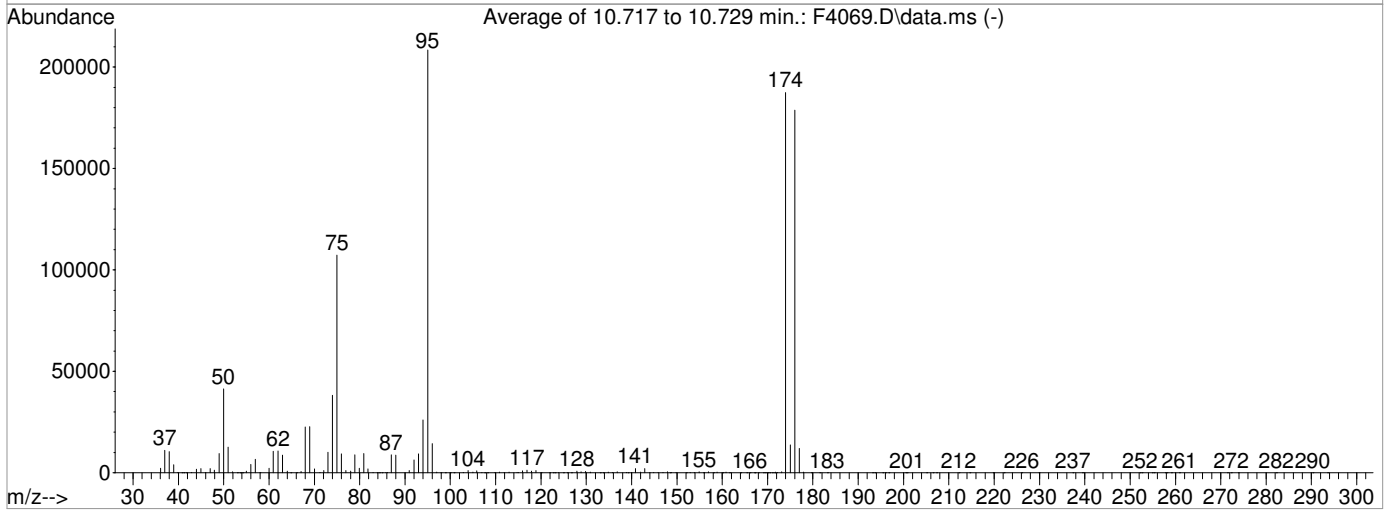
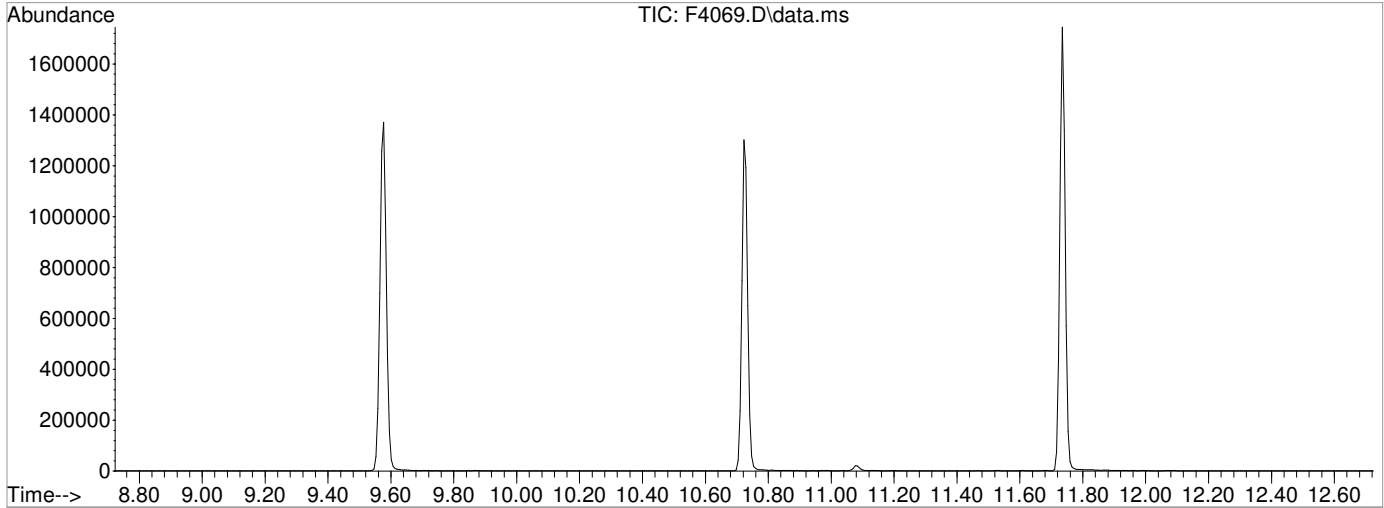
Quant Time: Mar 11 11:05:42 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\031121\
Data File : F4069.D
Acq On : 11 Mar 2021 10:18 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1
Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Sat Feb 06 09:15:32 2021



AutoFind: Scans 1596, 1597, 1598; Background Corrected with Scan 1591

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	41406	PASS
75	95	30	60	51.5	107329	PASS
95	95	100	100	100.0	208405	PASS
96	95	5	9	6.9	14388	PASS
173	174	0.00	2	0.2	467	PASS
174	95	50	120	90.0	187501	PASS
175	174	5	9	7.3	13700	PASS
176	174	95	101	95.4	178811	PASS
177	176	5	9	6.7	12065	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3304.D
Acq On : 5 Feb 2021 7:13 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 06 09:48:31 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	571599	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	805007	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	728016	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	398068	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	269943	50.02	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	100.04%		
47) surr1,1,2-dichloroetha...	5.114	65	316492	49.78	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	99.56%		
64) SURR3,Toluene-d8	7.943	98	1006293	50.15	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	100.30%		
69) SURR2,BFB	10.723	95	382217	49.78	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	99.56%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	310472	53.93	ug/L	99
3) Chloromethane	1.151	50	285367	55.20	ug/L	97
4) Vinyl Chloride	1.212	62	305977	51.08	ug/L	98
5) Bromomethane	1.401	94	182601	41.97	ug/L	99
6) Chloroethane	1.468	64	187568	47.12	ug/L	100
7) Freon 21	1.602	67	413400	43.50	ug/L	99
8) Trichlorofluoromethane	1.639	101	432171	52.56	ug/L	99
9) Diethyl Ether	1.846	59	217023	51.96	ug/L	99
10) Freon 123a	1.840	67	280558	52.64	ug/L	98
11) Freon 123	1.889	83	282442	45.41	ug/L	97
12) Acrolein	1.926	56	89009	62.57	ug/L	96
13) 1,1-Dicethene	2.005	96	208557	61.74	ug/L	97
14) Freon 113	2.011	101	213665	50.28	ug/L	99
15) Acetone	2.041	43	139119	51.51	ug/L	97
16) 2-Propanol	2.163	45	655184	923.45	ug/L	97
17) Iodomethane	2.115	142	309764	44.48	ug/L	98
18) Carbon Disulfide	2.169	76	510101	44.64	ug/L	99
19) Acetonitrile	2.249	41	259077	282.40	ug/L	99
20) Allyl Chloride	2.285	76	123561	49.86	ug/L	99
21) Methyl Acetate	2.310	43	298208	42.04	ug/L	100
22) Methylene Chloride	2.383	84	248180	49.53	ug/L	98
23) TBA	2.505	59	1257661	1053.51	ug/L	100
24) Acrylonitrile	2.596	53	778192	274.56	ug/L	98
25) Methyl-t-Butyl Ether	2.651	73	852884	52.91	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	234236	57.77	ug/L	99
27) 1,1-Dicethane	3.059	63	422164	52.21	ug/L	99
28) Vinyl Acetate	3.139	86	50217	56.40	ug/L #	92
29) DIPE	3.175	45	791111	55.01	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.169	53	315205	45.97	ug/L	97
31) ETBE	3.626	59	735724	50.79	ug/L	99
32) 2,2-Dichloropropane	3.773	77	348251	50.12	ug/L	98
33) cis-1,2-Dichloroethene	3.779	96	275016	54.88	ug/L	98
34) 2-Butanone	3.815	43	224295	51.57	ug/L	98
35) Propionitrile	3.883	54	342032	271.74	ug/L	100
36) Bromochloromethane	4.114	130	194382	51.95	ug/L	98
37) Methacrylonitrile	4.114	67	160895	54.31	ug/L	95
38) Tetrahydrofuran	4.200	42	131646	49.64	ug/L	98
39) Chloroform	4.267	83	440754	53.03	ug/L	99
40) 1,1,1-Trichloroethane	4.541	97	379791	51.91	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3304.D
 Acq On : 5 Feb 2021 7:13 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:48:31 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	792346	54.32	ug/L	99
43) Cyclohexane	4.632	41	205403	44.74	ug/L	99
45) Carbontetrachloride	4.834	117	335350	51.48	ug/L	99
46) 1,1-Dichloropropene	4.846	75	308747	50.32	ug/L	99
48) Benzene	5.212	78	939032	50.80	ug/L	99
49) 1,2-Dichloroethane	5.254	62	363970	51.01	ug/L	99
50) Iso-Butyl Alcohol	5.254	43	502033	1060.84	ug/L	95
51) n-Heptane	5.797	43	255422	47.48	ug/L	99
52) 1-Butanol	6.370	56	774627	2453.72	ug/L	99
53) Trichloroethene	6.297	130	277970	51.02	ug/L	98
54) Methylcyclohexane	6.559	55	263538	45.36	ug/L	95
55) 1,2-Diclpropane	6.601	63	252533	52.50	ug/L	97
56) Dibromomethane	6.754	93	191171	51.23	ug/L	97
57) 1,4-Dioxane	6.839	88	143767	1030.22	ug/L	97
58) Methyl Methacrylate	6.882	69	264219	54.44	ug/L	97
59) Bromodichloromethane	7.016	83	341335	51.30	ug/L	99
60) 2-Nitropropane	7.327	41	234200	105.98	ug/L	98
61) 2-Chloroethylvinyl Ether	7.485	63	210003	53.57	ug/L	98
62) cis-1,3-Dichloropropene	7.620	75	405086	52.05	ug/L	98
63) 4-Methyl-2-pentanone	7.857	43	431412	53.39	ug/L	99
65) Toluene	8.022	91	1067423	51.65	ug/L	100
66) trans-1,3-Dichloropropene	8.327	75	396667	53.43	ug/L	99
67) Ethyl Methacrylate	8.497	69	444456	56.85	ug/L	97
68) 1,1,2-Trichloroethane	8.522	97	273813	52.33	ug/L	98
71) Tetrachloroethene	8.668	164	216143	50.07	ug/L	98
72) 2-Hexanone	8.863	43	332878	55.03	ug/L	99
73) 1,3-Dichloropropane	8.705	76	441431	52.29	ug/L	98
74) Dibromochloromethane	8.955	129	309526	56.22	ug/L	98
75) N-Butyl Acetate	9.052	43	535617	48.87	ug/L	100
76) 1,2-Dibromoethane	9.052	107	300302	54.31	ug/L	97
77) 3-Chlorobenzotrifluoride	9.650	180	389038	46.34	ug/L	99
78) Chlorobenzene	9.607	112	726986	52.36	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	346196	46.34	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	280462	53.83	ug/L	99
81) Ethylbenzene	9.741	106	366149	52.52	ug/L	100
82) (m+p)Xylene	9.869	106	914762	105.06	ug/L	99
83) o-Xylene	10.247	106	460709	53.57	ug/L	97
84) Styrene	10.259	104	776045	53.91	ug/L	97
85) Bromoform	10.412	173	242312	55.24	ug/L	100
86) 2-Chlorobenzotrifluoride	10.509	180	391259	46.77	ug/L	99
87) Isopropylbenzene	10.607	105	1156254	53.26	ug/L	100
88) Cyclohexanone	10.656	55	1639998	1112.48	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.930	53	119155	54.89	ug/L	99
91) 1,1,2,2-Tetrachloroethane	10.881	83	421350	53.38	ug/L	98
92) Bromobenzene	10.845	156	328930	51.00	ug/L	97
93) 1,2,3-Trichloropropane	10.899	110	141252	50.18	ug/L	98
94) n-Propylbenzene	10.979	91	1350058	53.13	ug/L	99
95) 2-Chlorotoluene	11.034	91	814492	51.83	ug/L	100
96) 3-Chlorotoluene	11.088	91	803149	48.31	ug/L	99
97) 4-Chlorotoluene	11.131	91	936252	51.66	ug/L	99
98) 1,3,5-Trimethylbenzene	11.143	105	979930	53.22	ug/L	99
99) tert-Butylbenzene	11.418	119	858111	53.03	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	1002707	53.44	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.533	214	315891	45.27	ug/L	99
102) sec-Butylbenzene	11.607	105	1232995	53.54	ug/L	99
103) p-Isopropyltoluene	11.735	119	1073850	52.89	ug/L	100

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3304.D
 Acq On : 5 Feb 2021 7:13 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV Inst : MSVOA14
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 06 09:48:31 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

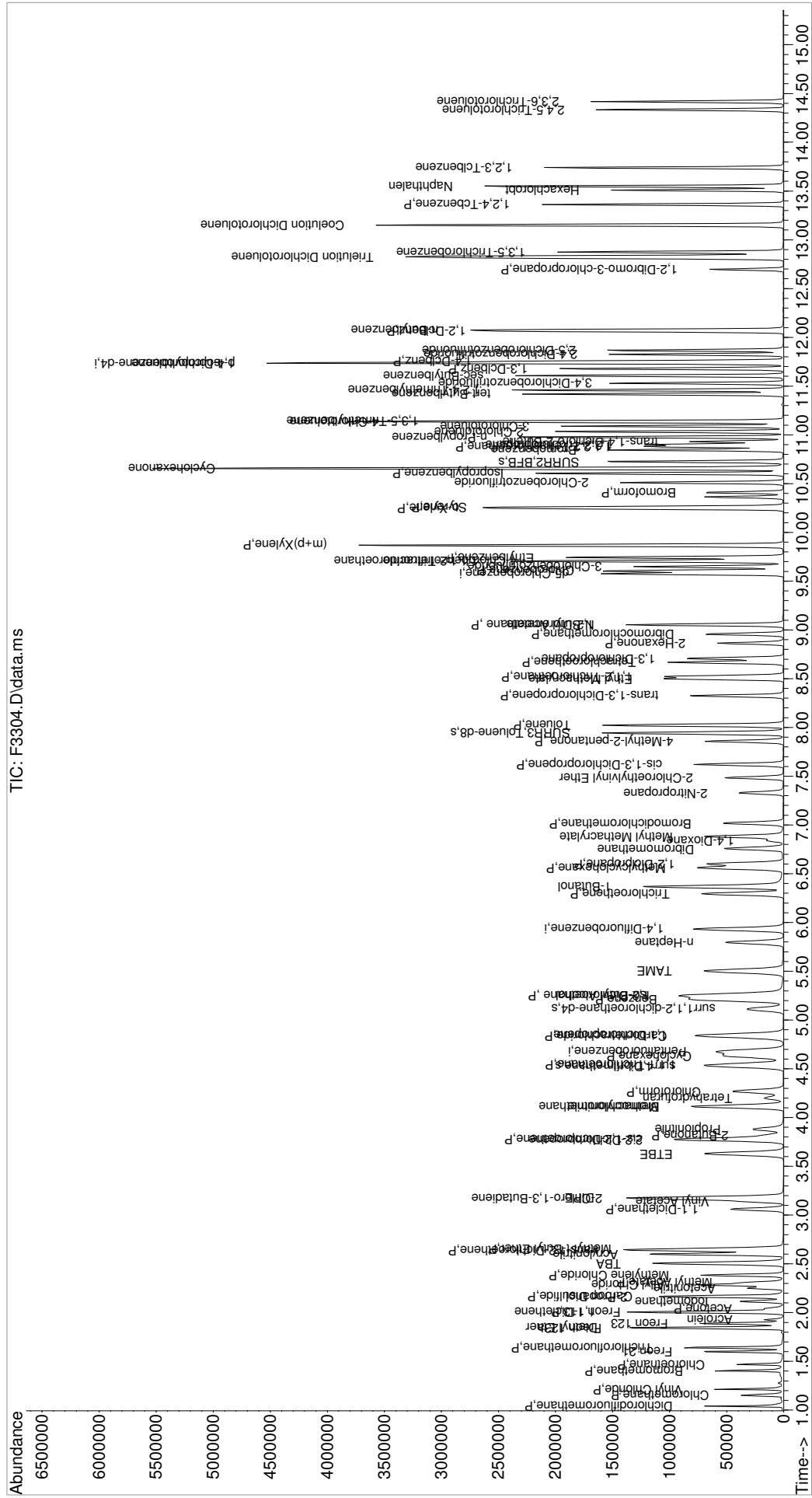
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	612981	51.14	ug/L	99
105) 1,4-Dclbenz	11.753	146	628037	49.82	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.826	214	292143	45.10	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	333823	46.64	ug/L	98
108) n-Butylbenzene	12.076	91	946522	53.42	ug/L	97
109) 1,2-Dclbenz	12.064	146	617673	49.88	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	136220	54.75	ug/L	96
111) Trielution Dichlorotol...	12.826	125	1543064	144.30	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	461817	46.63	ug/L	100
113) Coelution Dichlorotoluene	13.149	125	1161444	97.95	ug/L	96
114) 1,2,4-Tcbenzene	13.362	180	495400	52.30	ug/L	99
115) Hexachlorobt	13.509	225	211134	50.47	ug/L	97
116) Naphthalen	13.551	128	1561601	53.04	ug/L	100
117) 1,2,3-Tclbenzene	13.740	180	491119	49.88	ug/L	99
118) 2,4,5-Trichlorotoluene	14.332	159	336033	49.30	ug/L	99
119) 2,3,6-Trichlorotoluene	14.417	159	301724	48.17	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3304.D
 Acq On : 5 Feb 2021 7:13 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA14

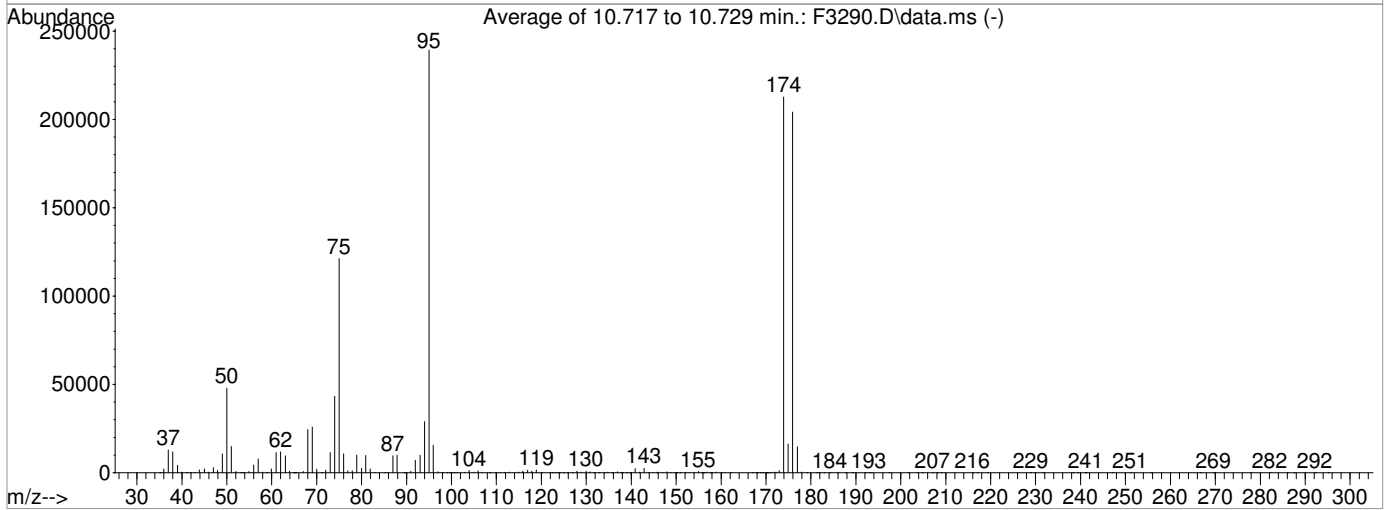
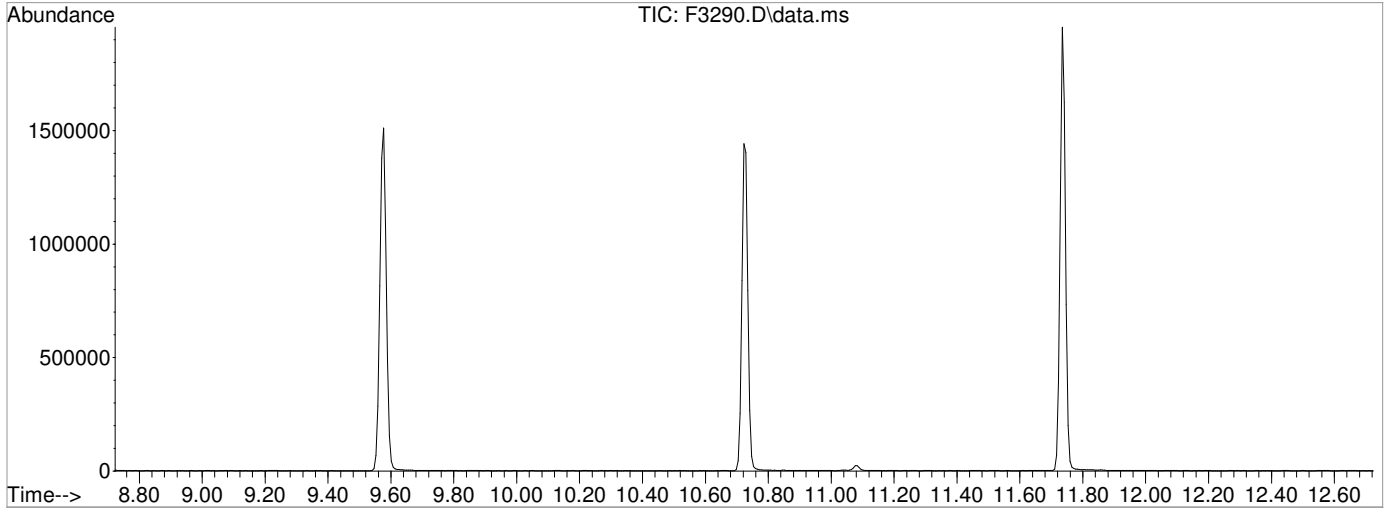
Quant Time: Feb 06 09:48:31 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3290.D
Acq On : 5 Feb 2021 1:55 pm
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1
Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Sat Feb 06 09:15:32 2021



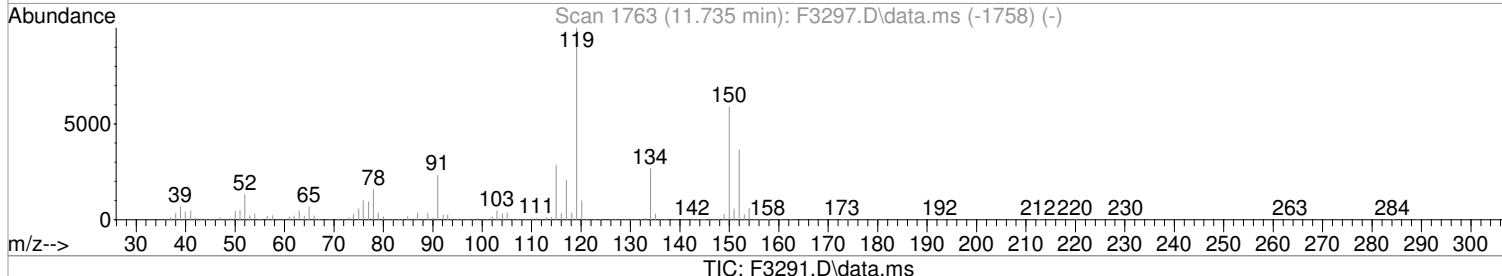
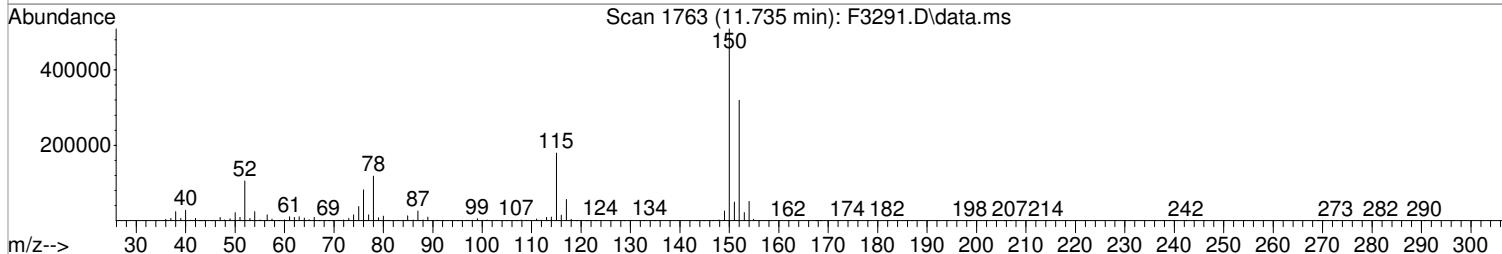
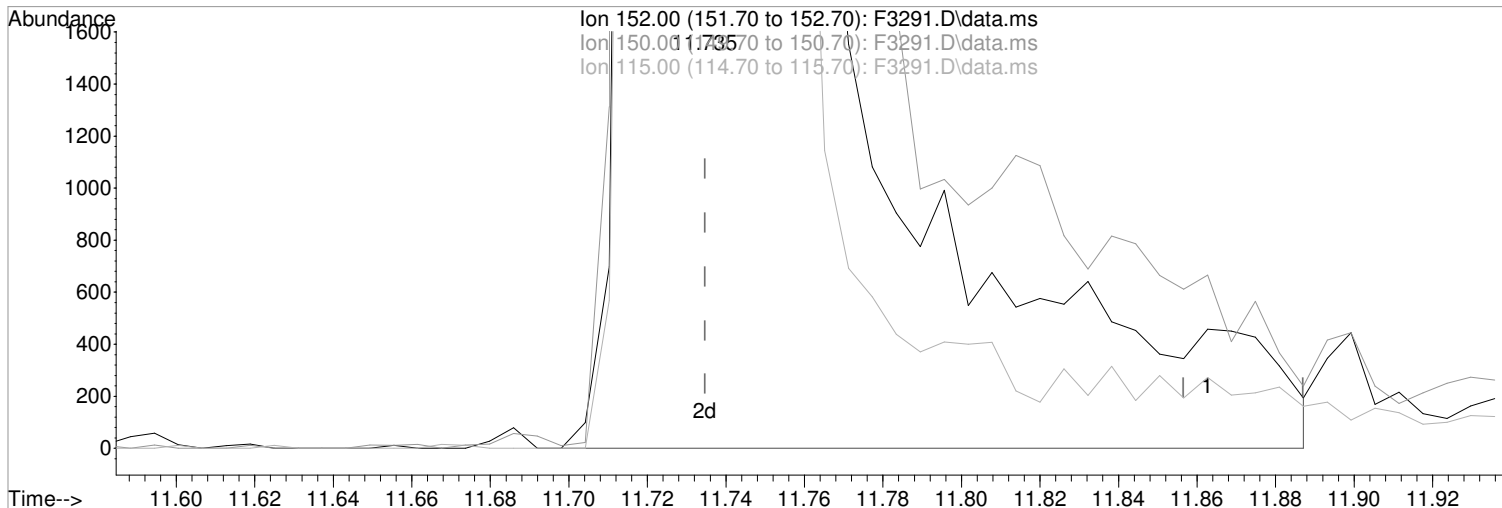
AutoFind: Scans 1596, 1597, 1598; Background Corrected with Scan 1591

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	47757	PASS
75	95	30	60	50.7	121262	PASS
95	95	100	100	100.0	239317	PASS
96	95	5	9	6.5	15618	PASS
173	174	0.00	2	0.6	1352	PASS
174	95	50	120	88.9	212779	PASS
175	174	5	9	7.6	16225	PASS
176	174	95	101	96.0	204168	PASS
177	176	5	9	7.2	14731	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3291.D
Acq On : 5 Feb 2021 2:23 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:46:03 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration



(90) 1,4-Dichlorobenzene-d4 (i)
11.735min (-0.000) 50.00 ug/L m
response 391438

Manual Integration:
After
Peak not found.

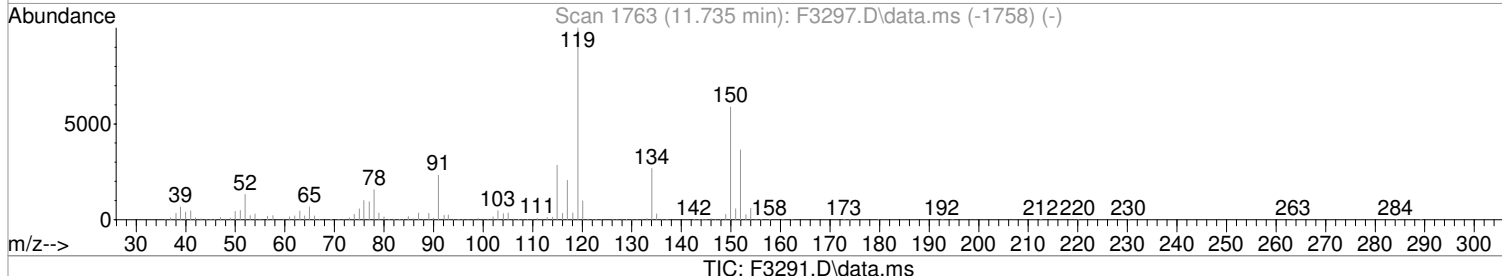
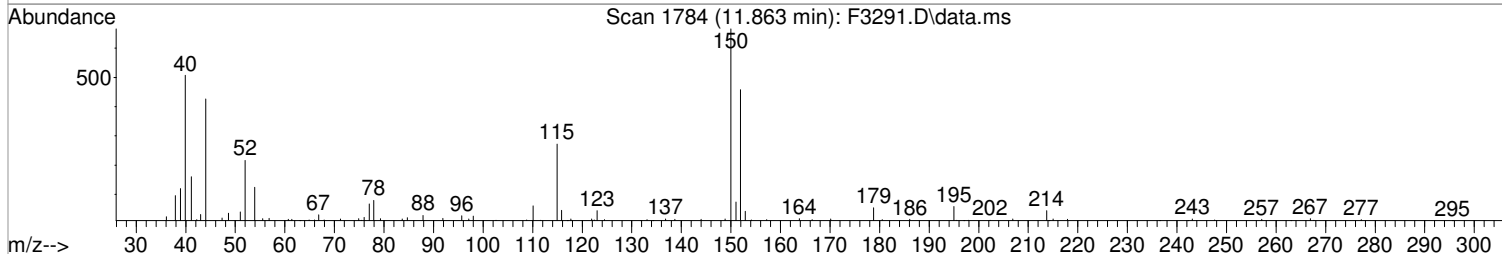
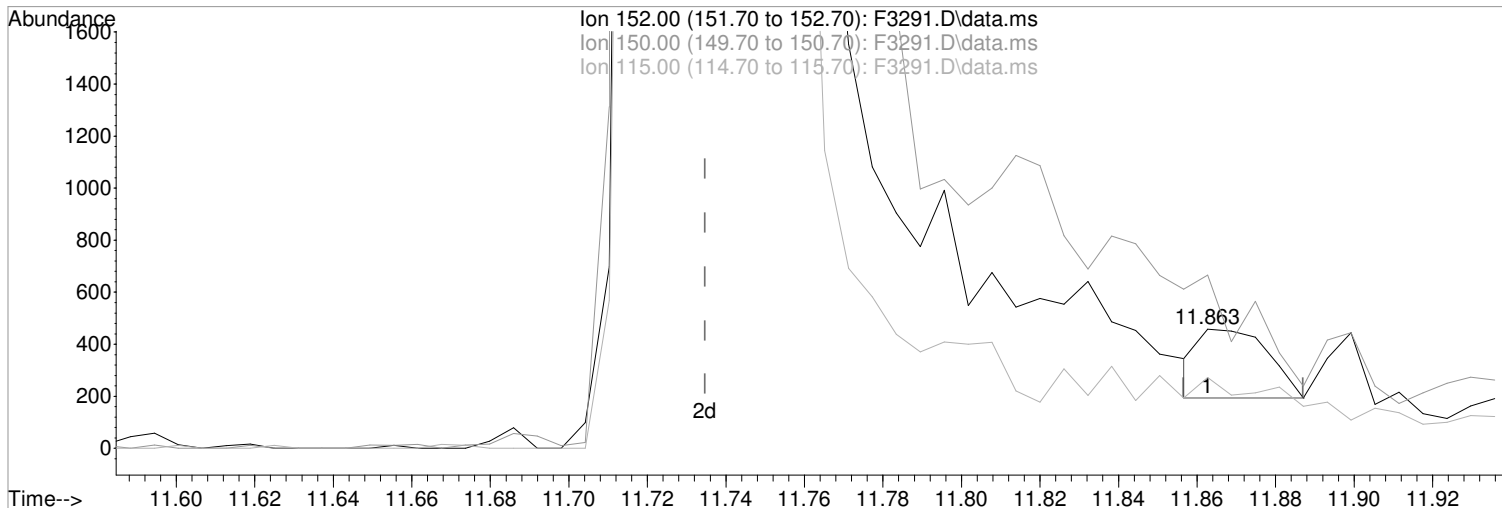
Ion	Exp%	Act%
152.00	100	100
150.00	161.30	159.47
115.00	78.00	56.21#
0.00	0.00	0.00

02/06/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3291.D
Acq On : 5 Feb 2021 2:23 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:46:03 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Sat Feb 06 09:15:32 2021
Response via : Initial Calibration



(90) 1,4-Dichlorobenzene-d4 (i)

11.863min (+0.128) 50.00 ug/L

response 321

Ion	Exp%	Act%
152.00	100	100
150.00	161.30	145.41
115.00	78.00	59.39
0.00	0.00	0.00

Manual Integration:

Before

02/06/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3291.D
 Acq On : 5 Feb 2021 2:23 pm
 Operator : F.NAEGLER
 Sample : ICALBLK Inst : MSVOA14
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

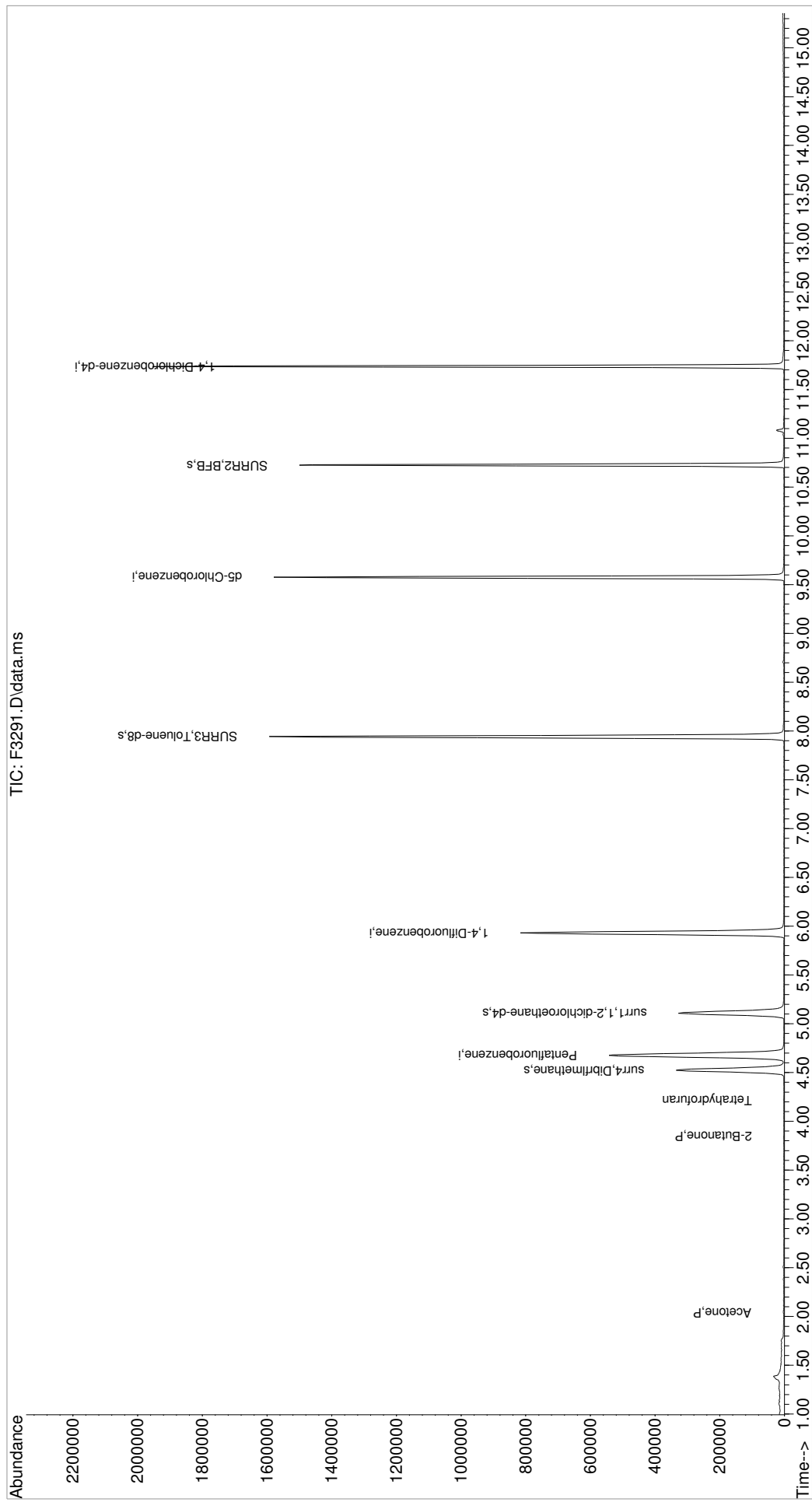
Quant Time: Feb 06 09:47:21 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

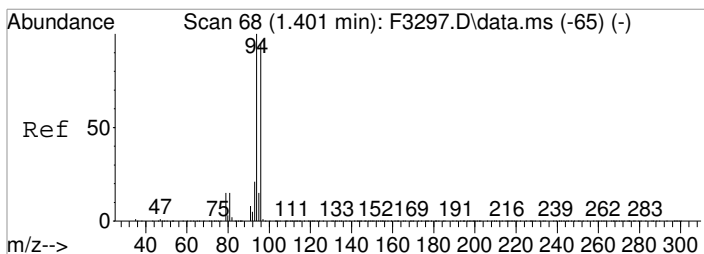
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.675	168	579138	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	812044	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	731816	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	391438m	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.523	113	264485	48.59	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	97.18%	
47) surr1,1,2-dichloroetha...	5.108	65	319261	49.78	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	99.56%	
64) SURR3,Toluene-d8	7.943	98	998659	49.33	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.66%	
69) SURR2,BFB	10.723	95	371541	47.97	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	95.94%	
Target Compounds						
3) Chloromethane	1.151	50	619	Below Cal		Qvalue 92
5) Bromomethane	1.407	94	534	Below Cal		96
15) Acetone	2.041	43	1892	0.69	ug/L	88
34) 2-Butanone	3.846	43	1519	0.34	ug/L	88
38) Tetrahydrofuran	4.218	42	939	0.35	ug/L	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3291.D
 Acq On : 5 Feb 2021 2:23 pm
 Operator : F.NAEGLER
 Sample : ICALBLK
 Misc :
 ALS Vial : 1 Sample Multiplier: 1
 Inst : MSVOA14

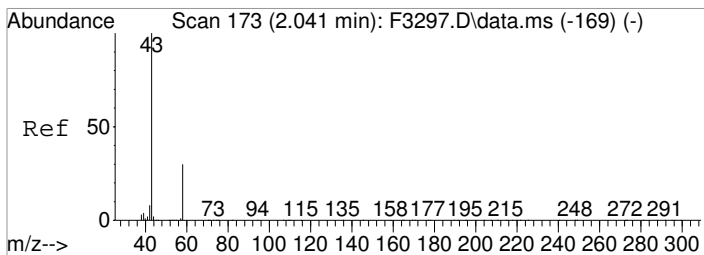
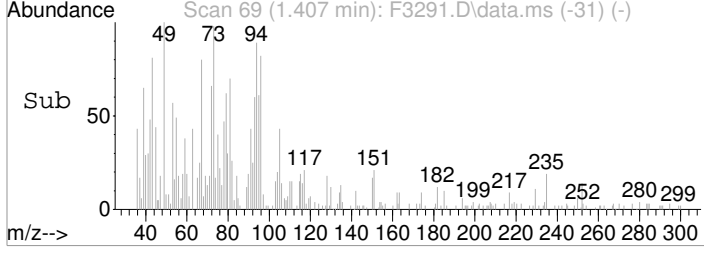
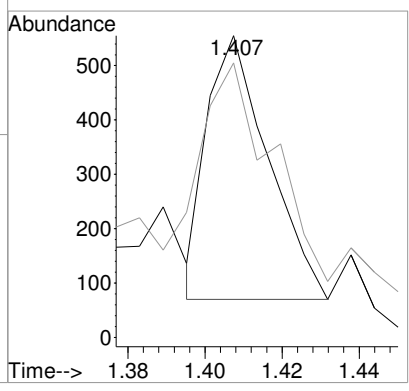
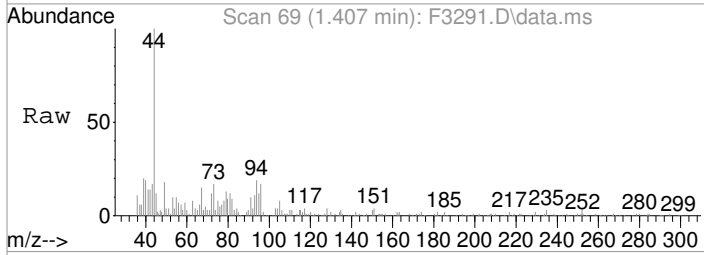
Quant Time: Feb 06 09:47:21 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration





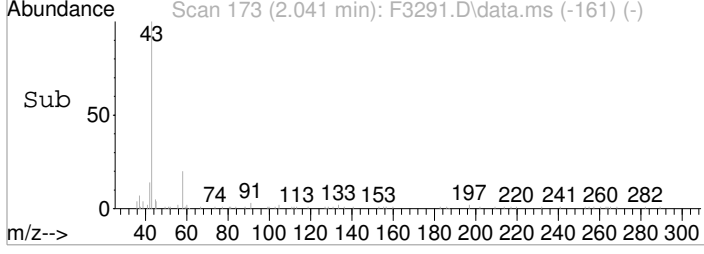
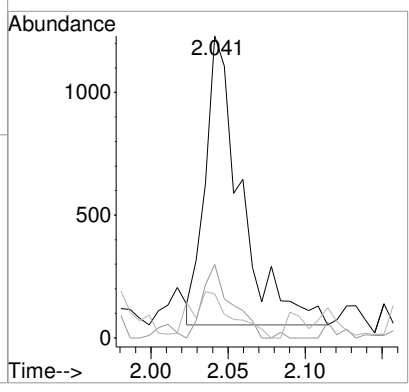
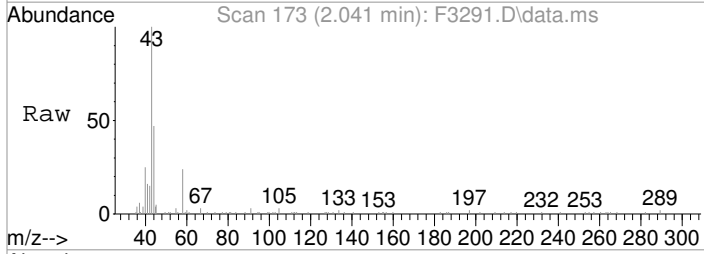
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.407 min Scan# 69
 Delta R.T. 0.006 min
 Lab File: F3291.D
 Acq: 5 Feb 2021 2:23 pm

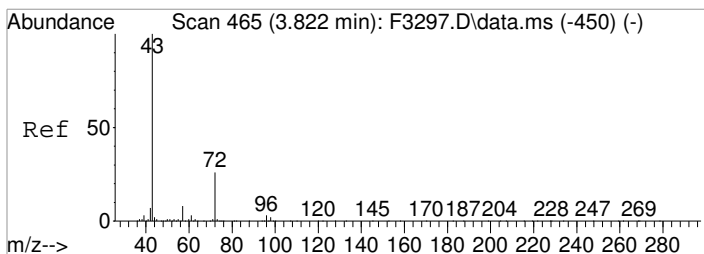
Tgt Ion	Resp	Lower	Upper
94	534		
96	91.0	75.3	115.3



#15
 Acetone
 Concen: 0.69 ug/L
 RT: 2.041 min Scan# 173
 Delta R.T. -0.000 min
 Lab File: F3291.D
 Acq: 5 Feb 2021 2:23 pm

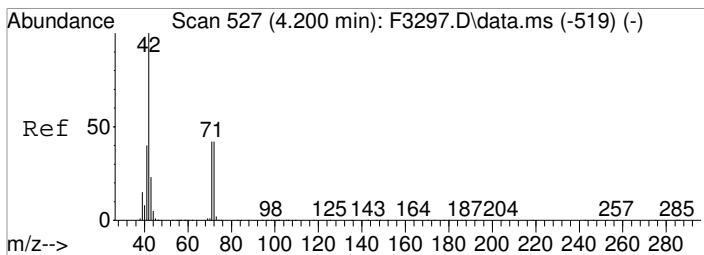
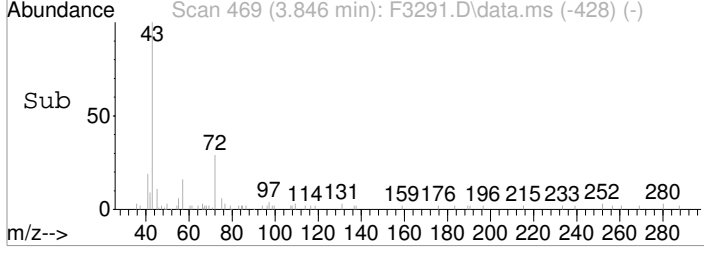
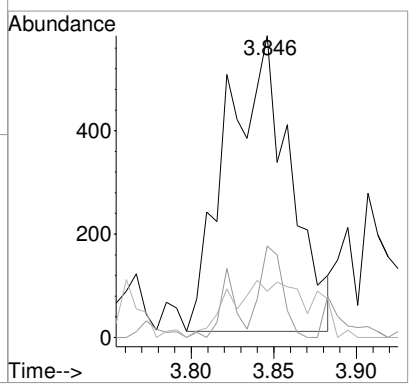
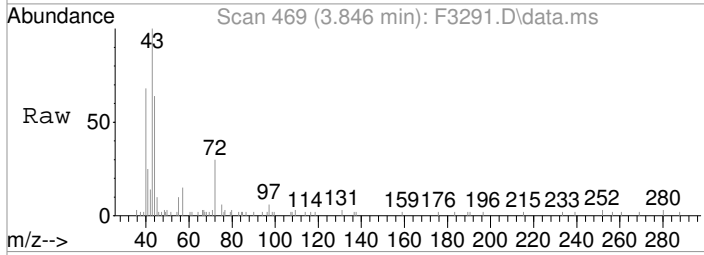
Tgt Ion	Resp	Lower	Upper
43	1892		
58	24.3	9.6	49.6
42	14.6	0.0	28.0





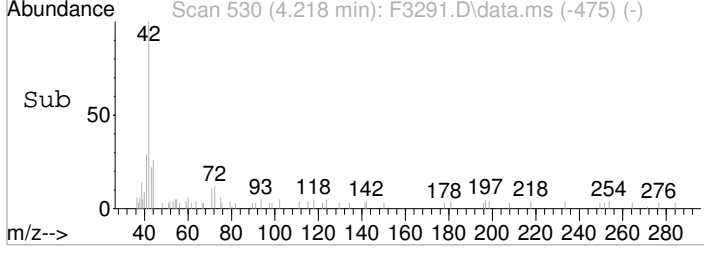
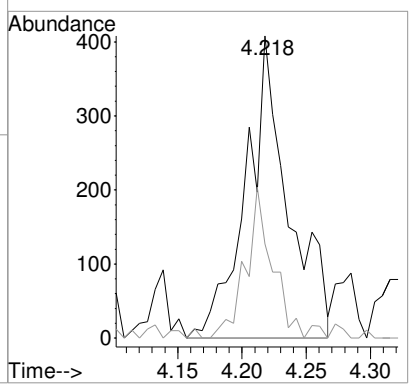
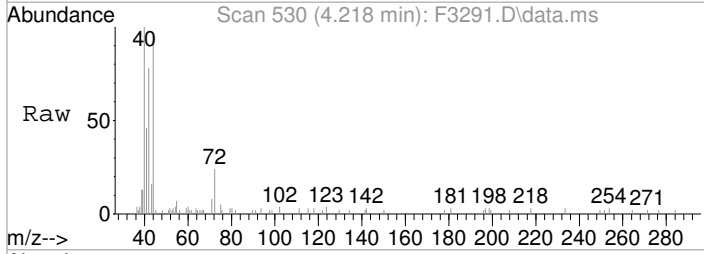
#34
 2-Butanone
 Concen: 0.34 ug/L
 RT: 3.846 min Scan# 469
 Delta R.T. 0.024 min
 Lab File: F3291.D
 Acq: 5 Feb 2021 2:23 pm

Tgt Ion	Resp	Lower	Upper
43	1519		
72	30.3	5.7	45.7
57	15.2	0.0	27.7



#38
 Tetrahydrofuran
 Concen: 0.35 ug/L
 RT: 4.218 min Scan# 530
 Delta R.T. 0.018 min
 Lab File: F3291.D
 Acq: 5 Feb 2021 2:23 pm

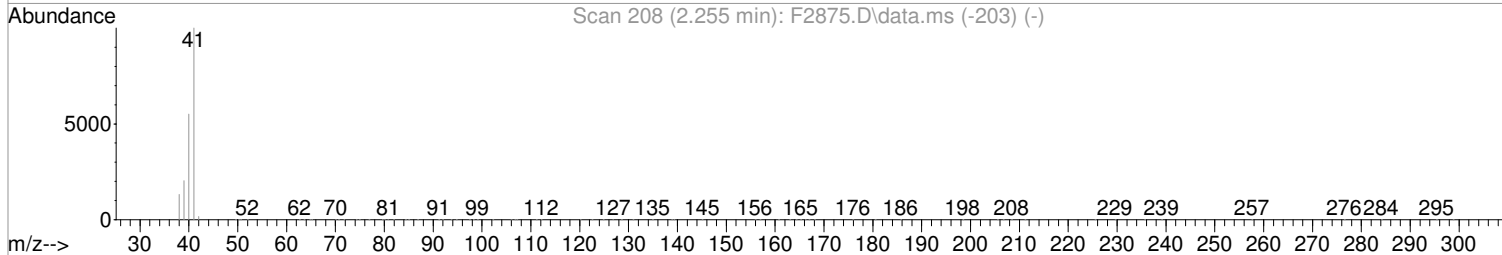
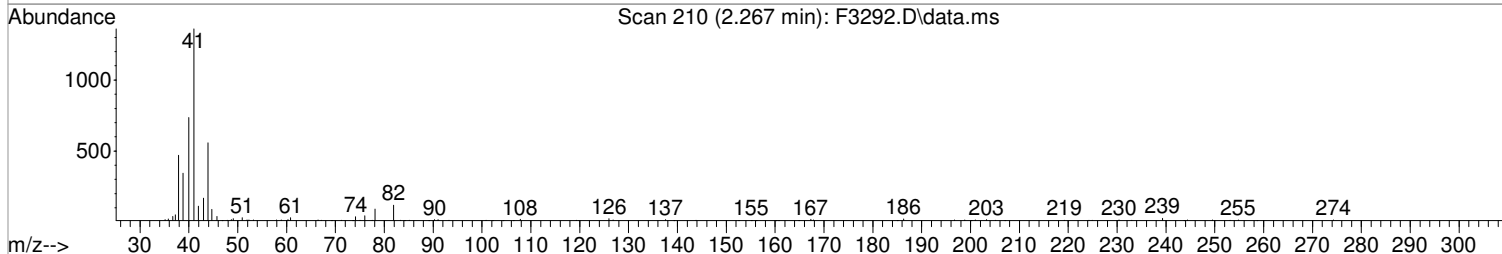
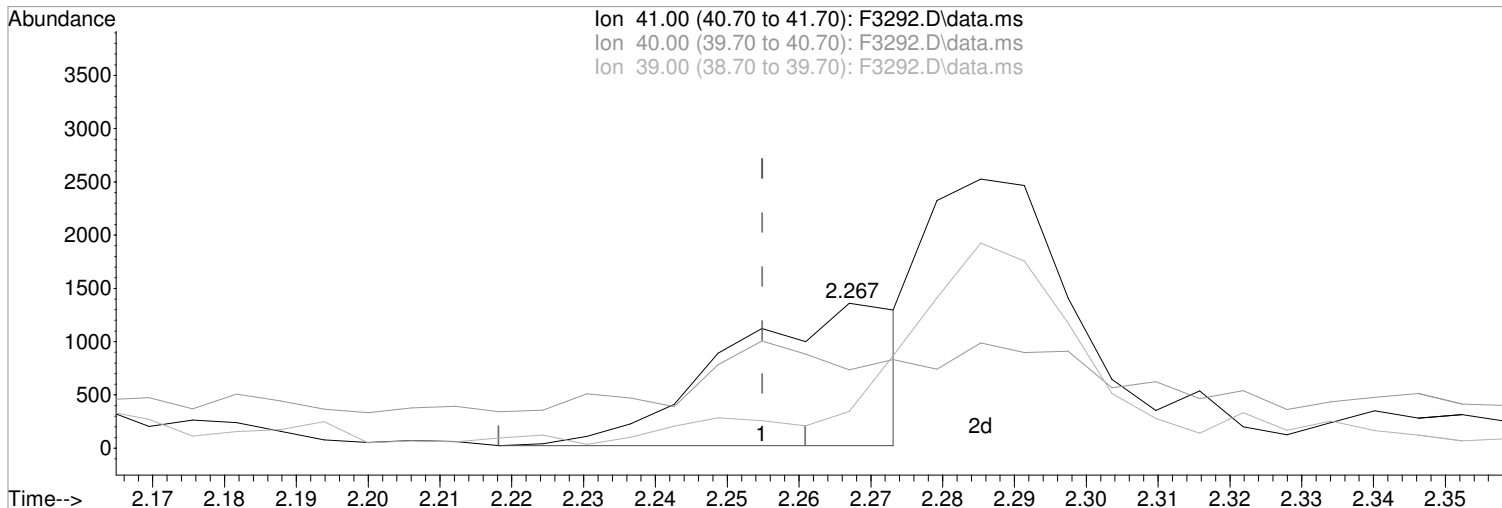
Tgt Ion	Resp	Lower	Upper
42	939		
72	31.1	22.0	62.0



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3292.D
 Acq On : 5 Feb 2021 2:45 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



(19) Acetonitrile
 2.267min (+0.012) 4.57 ug/L m
 response 2288

Manual Integration:
 After
 Poor integration.

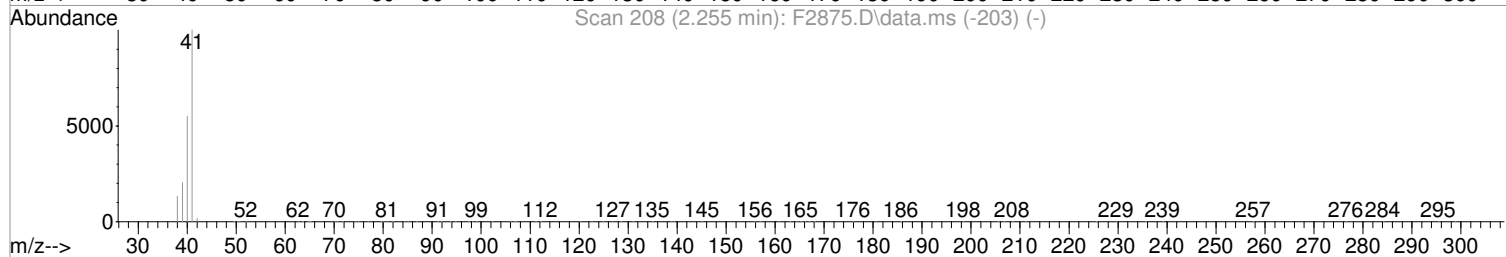
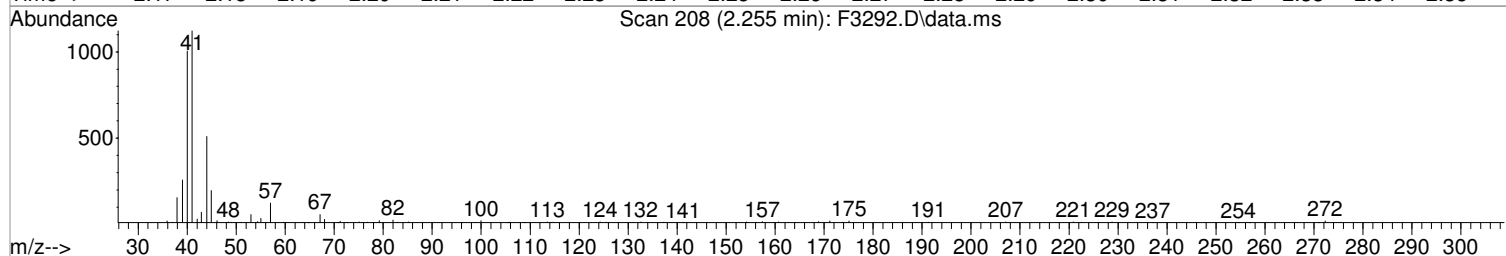
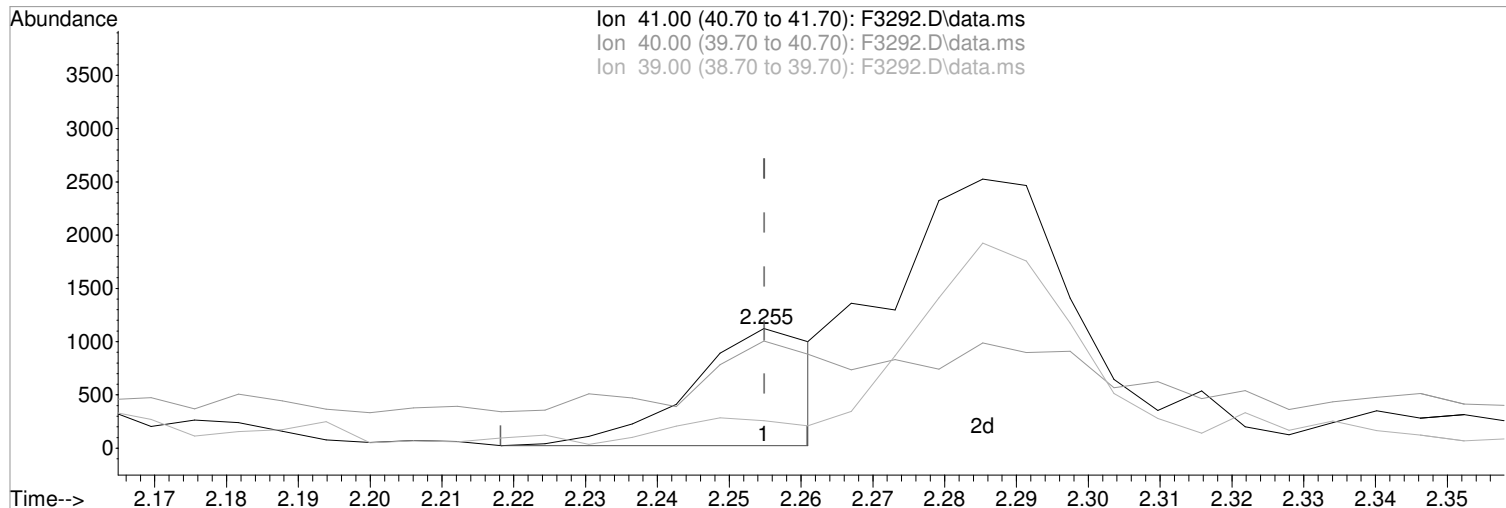
Ion	Exp%	Act%
41.00	100	100
40.00	54.10	54.12
39.00	22.40	25.29
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(19) Acetonitrile
2.255min (-0.000) 2.66 ug/L
response 1333

Manual Integration:
Before

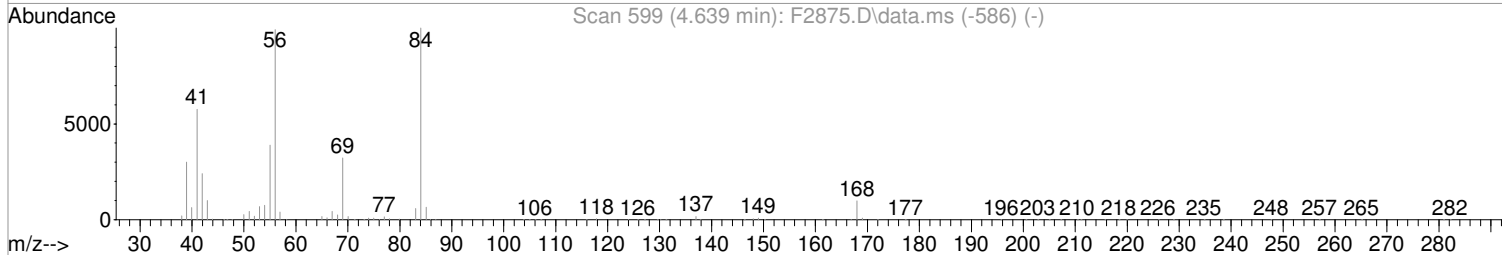
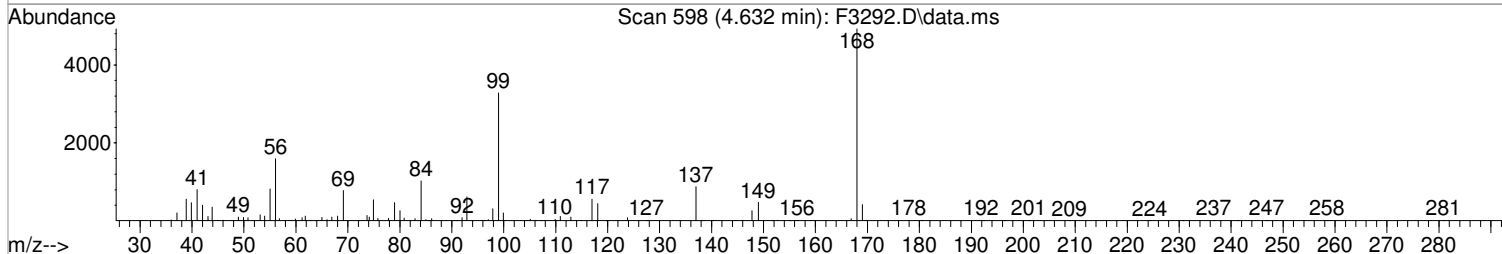
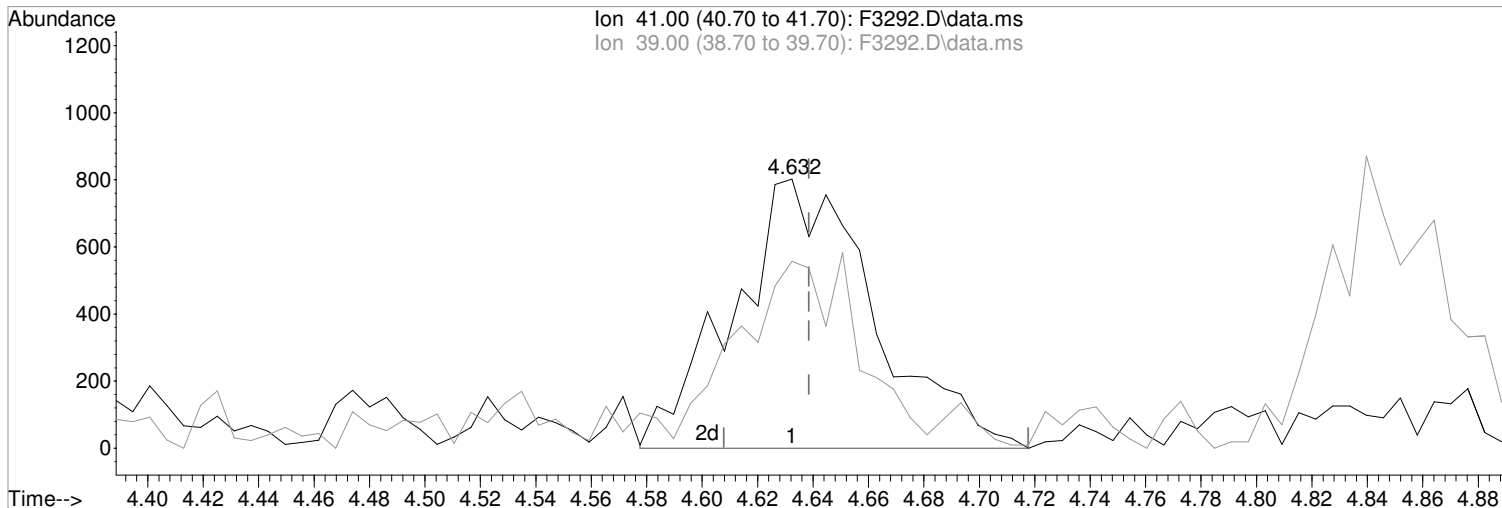
Ion	Exp%	Act%
41.00	100	100
40.00	54.10	89.66#
39.00	22.40	22.91
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(43) Cyclohexane (P)

4.632min (-0.006) 0.82 ug/L m

response 2839

Ion	Exp%	Act%
41.00	100	100
39.00	52.10	69.45
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

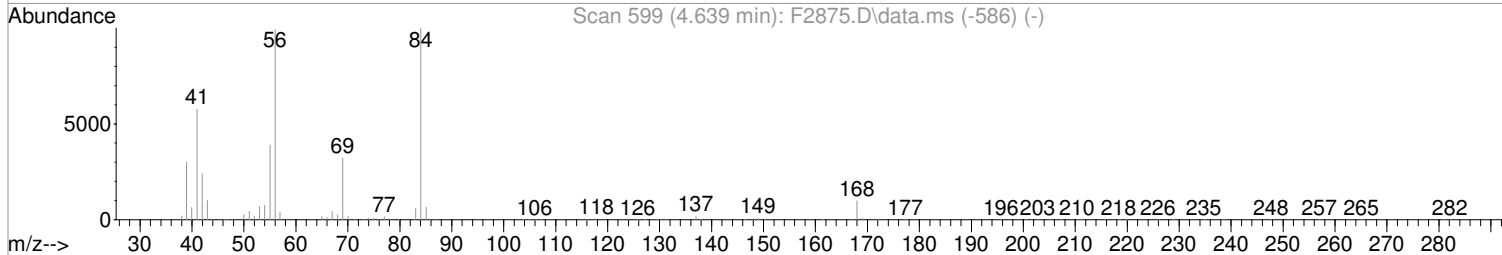
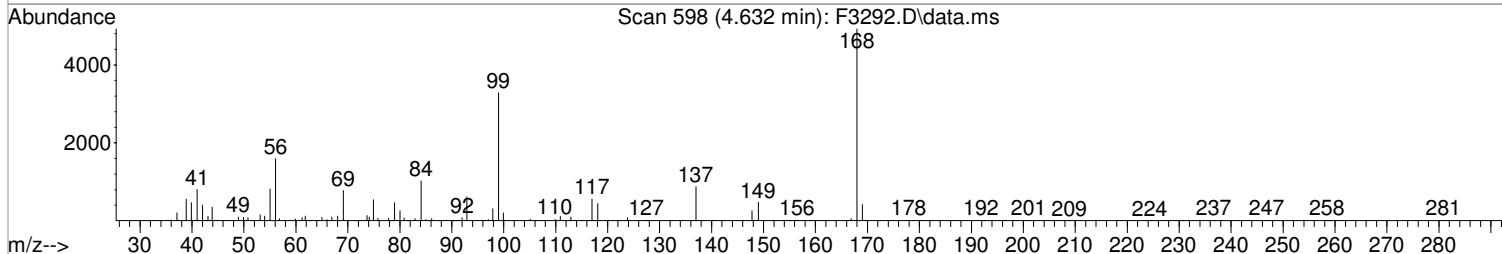
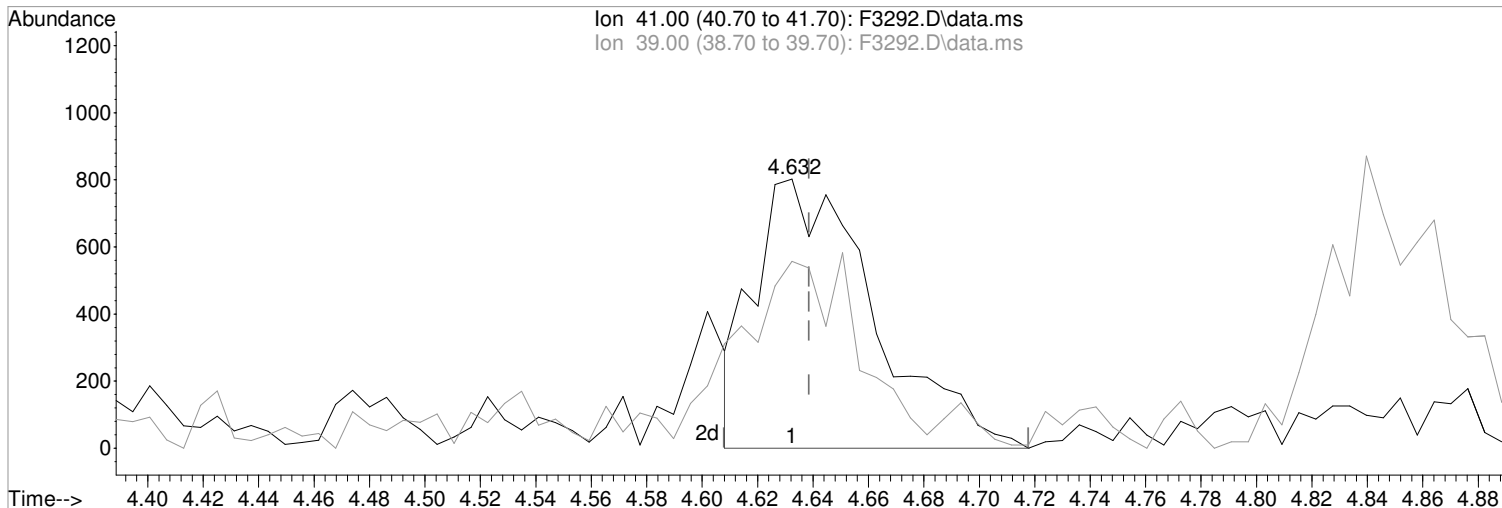
Poor integration.

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(43) Cyclohexane (P)
4.632min (-0.006) 0.69 ug/L
response 2411

Manual Integration:
Before

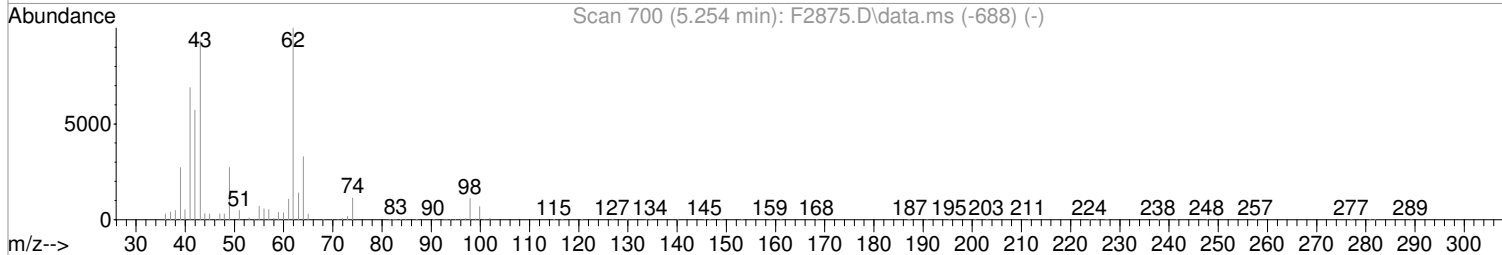
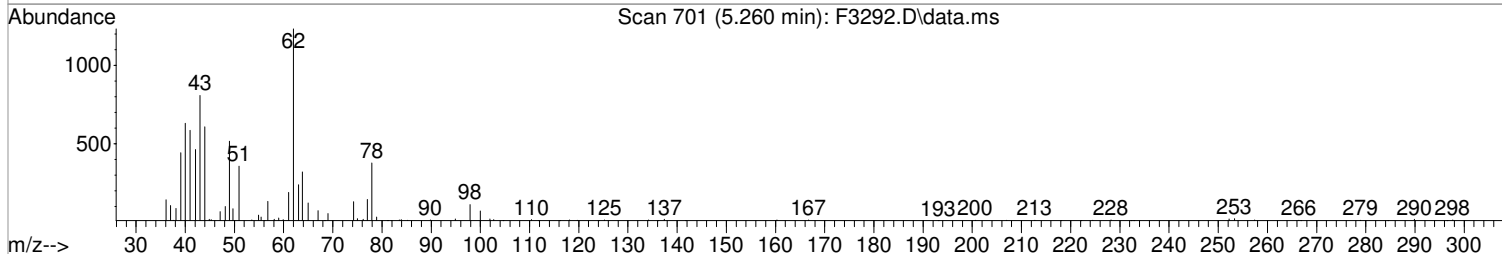
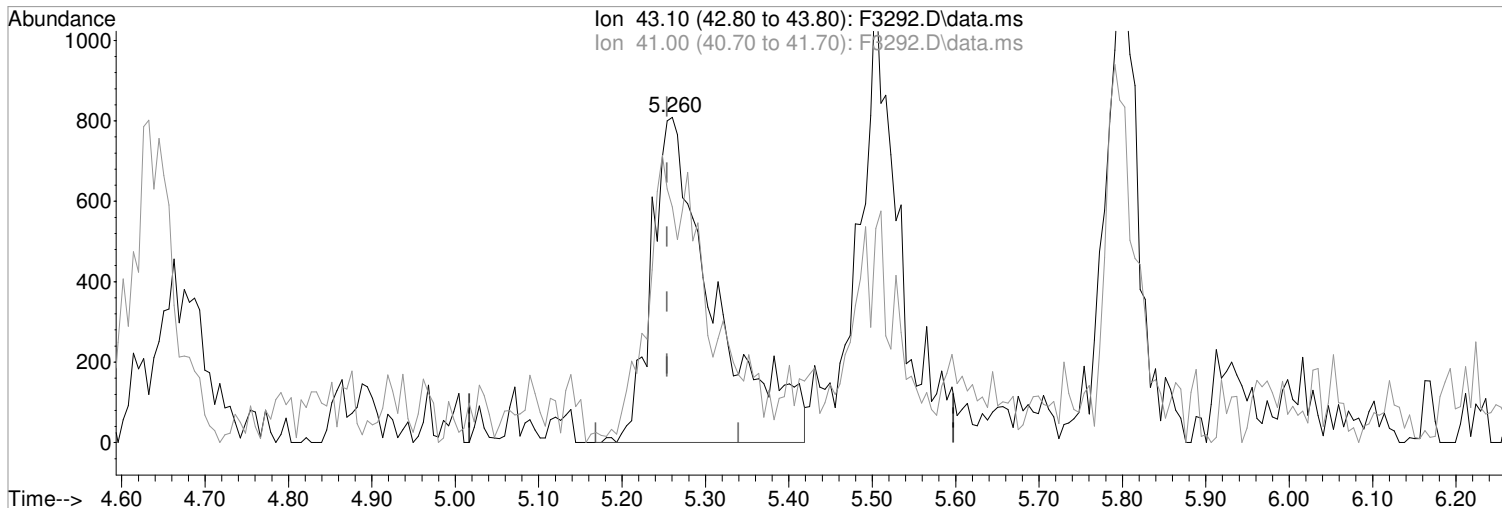
Ion	Exp%	Act%
41.00	100	100
39.00	52.10	69.45
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(50) Iso-Butyl Alcohol
5.260min (+0.006) 11.71 ug/L m
response 4231

Manual Integration:

After

Poor integration.

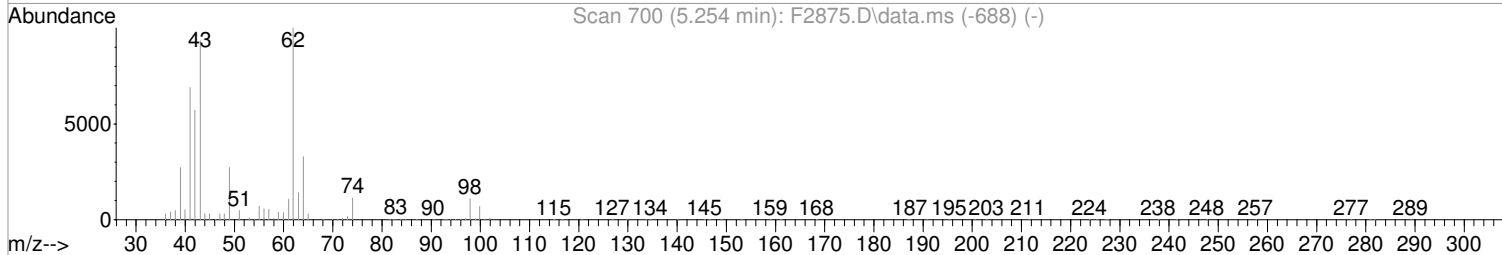
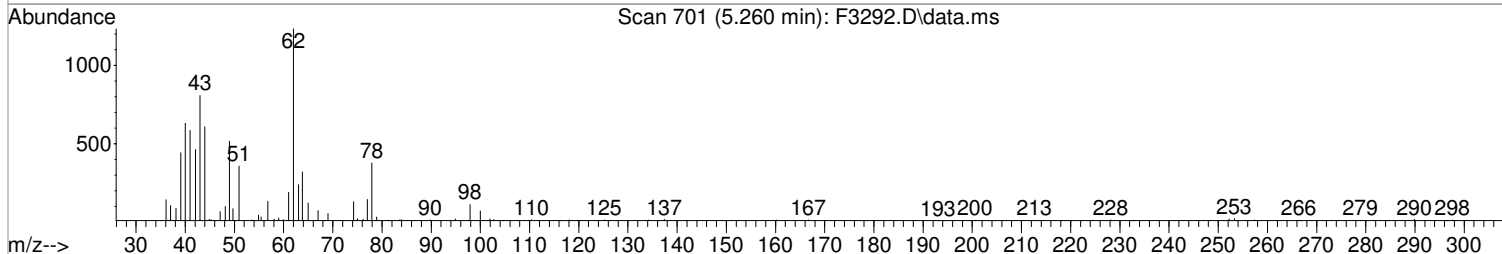
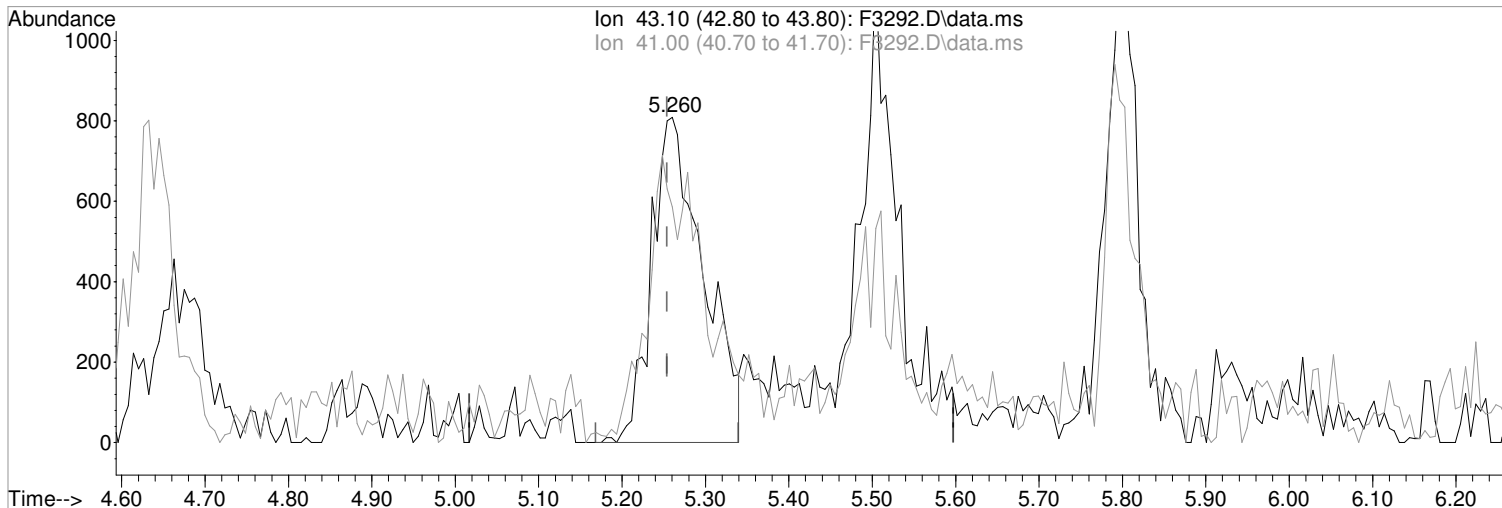
02/05/21

Ion	Exp%	Act%
43.10	100	100
41.00	74.00	72.44
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(50) Iso-Butyl Alcohol
5.260min (+0.006) 9.68 ug/L
response 3500

Manual Integration:
Before

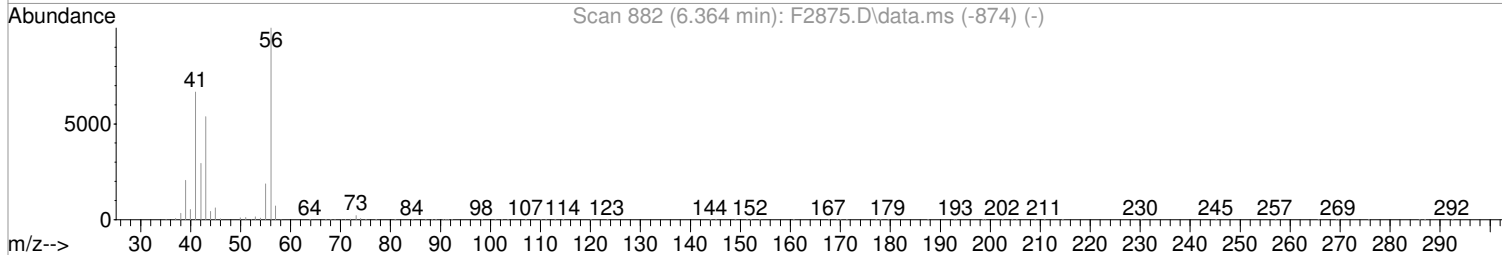
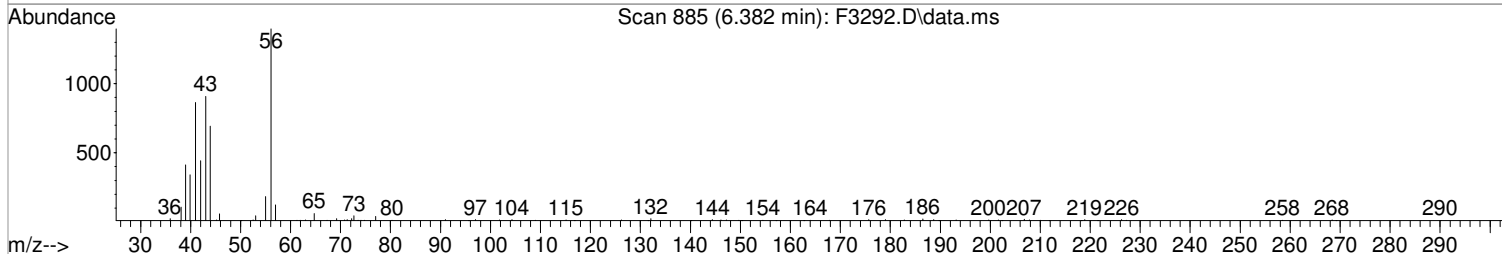
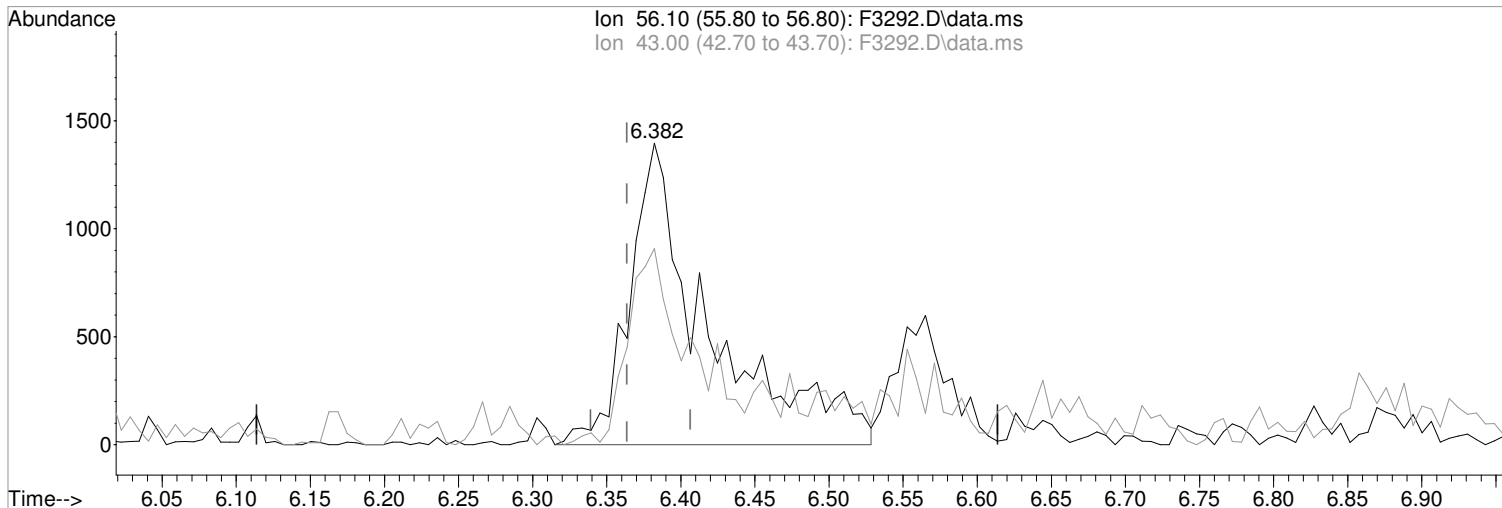
Ion	Exp%	Act%
43.10	100	100
41.00	74.00	72.44
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(52) 1-Butanol
6.382min (+0.018) 21.80 ug/L m
response 5206

Manual Integration:

After

Poor integration.

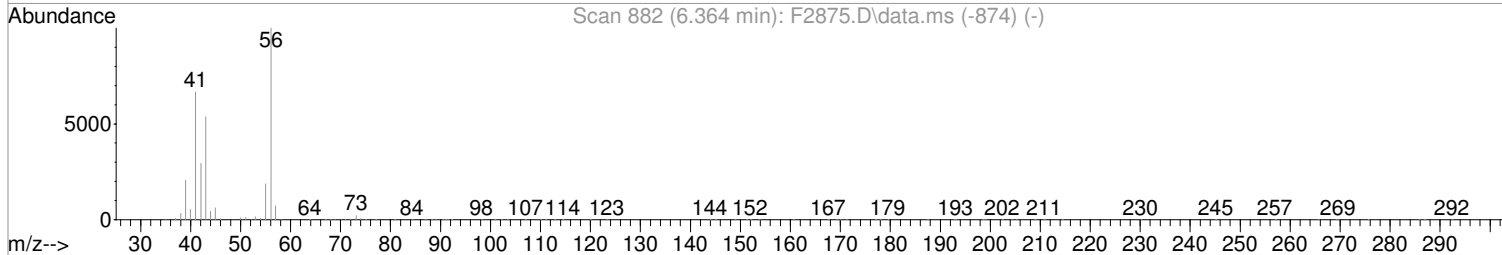
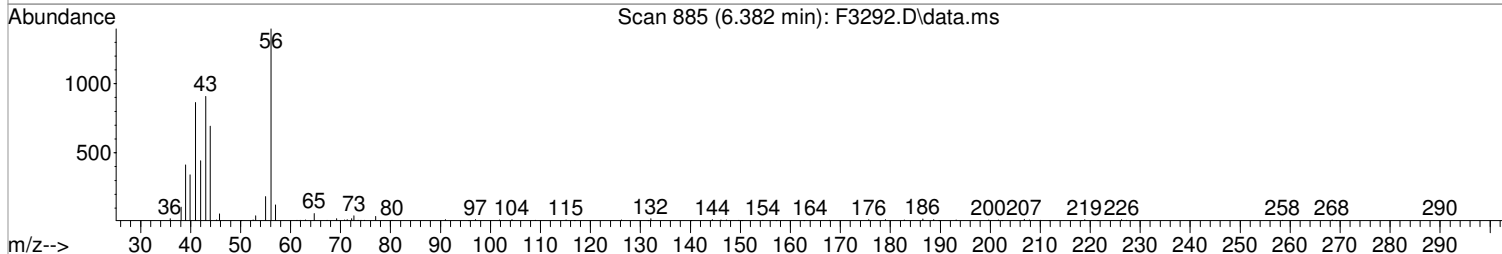
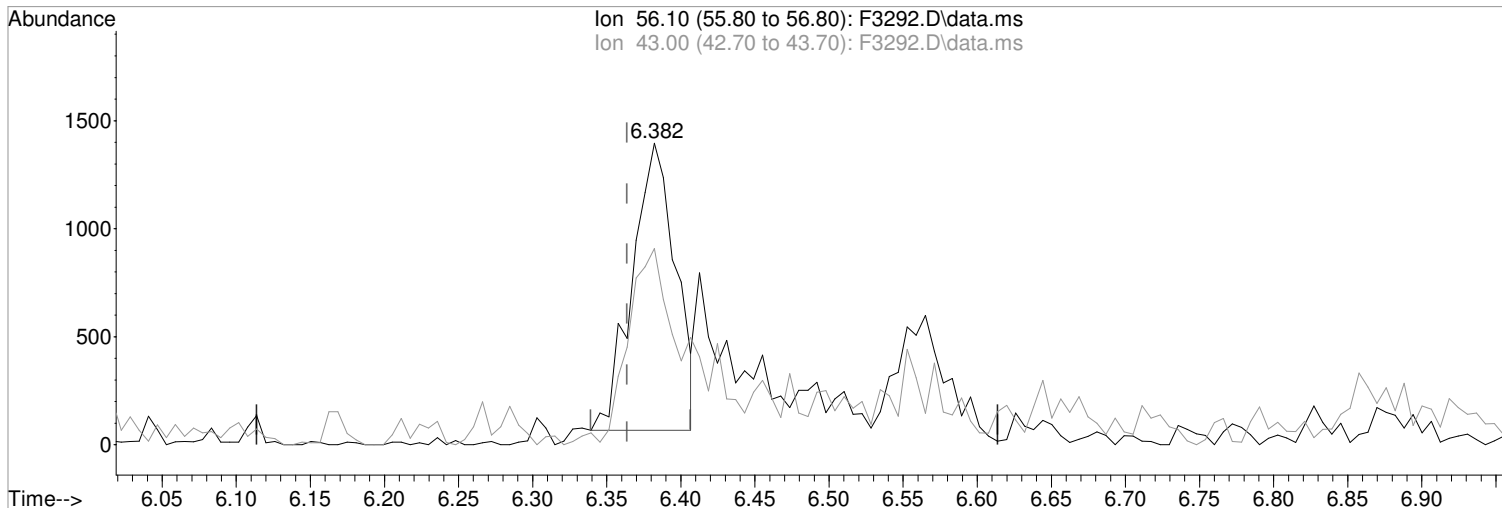
02/05/21

Ion	Exp%	Act%
56.10	100	100
43.00	54.00	65.11
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(52) 1-Butanol
6.382min (+0.018) 11.28 ug/L
response 2694

Manual Integration:
Before

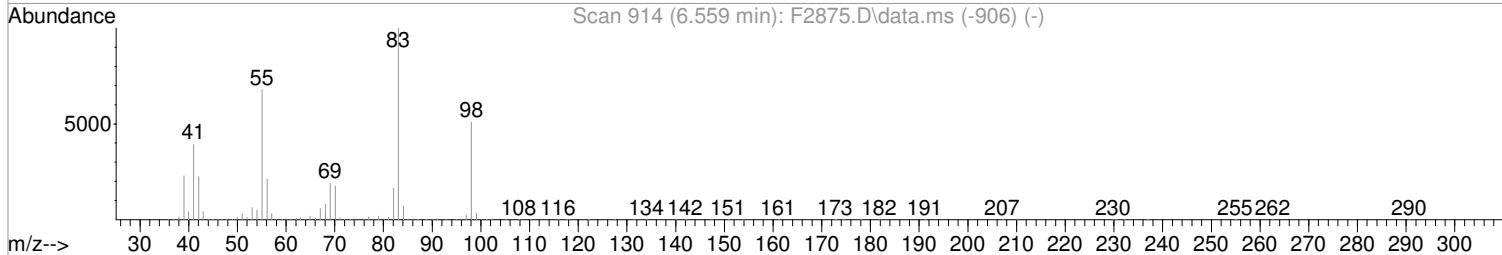
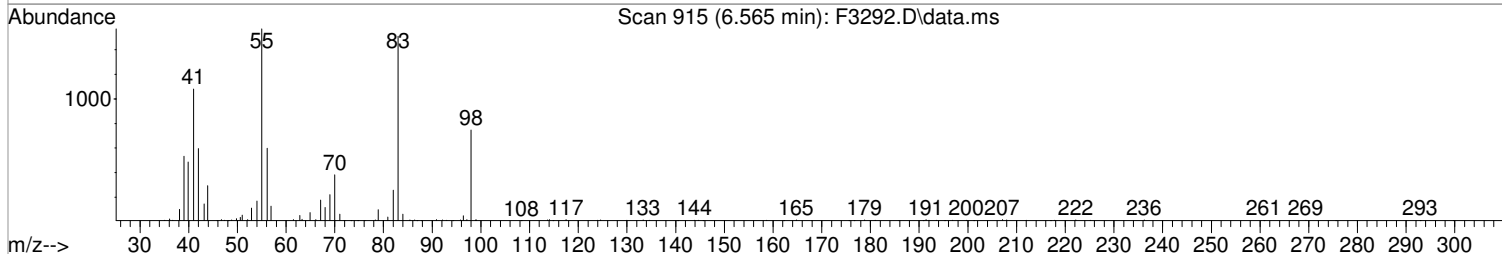
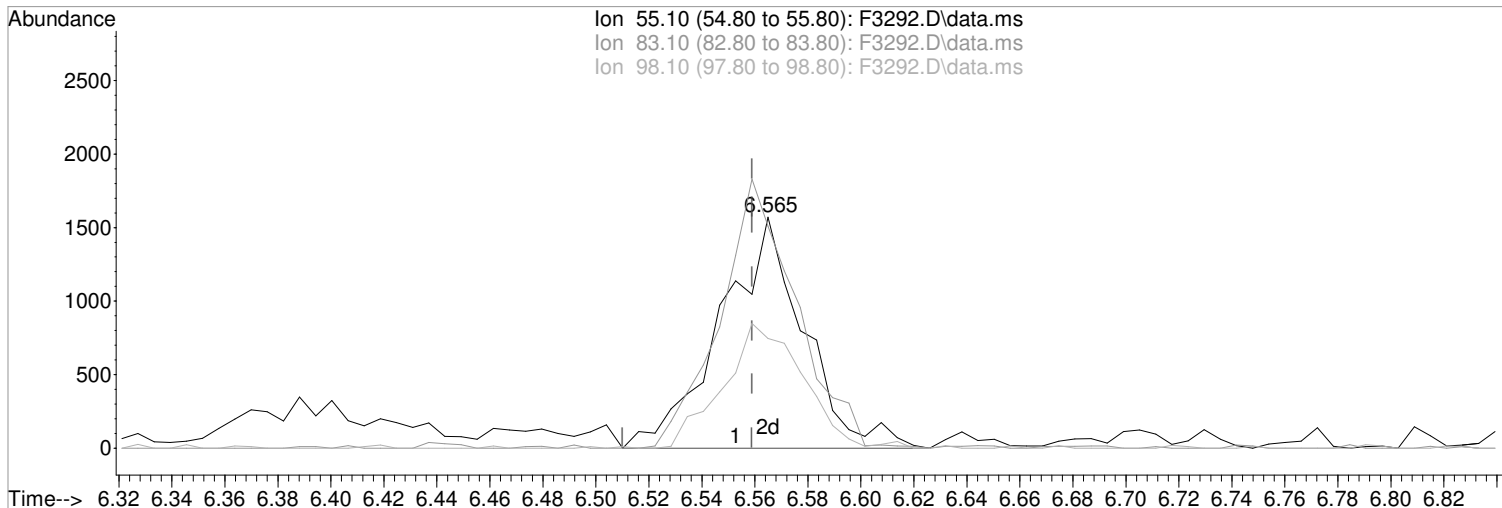
Ion	Exp%	Act%
56.10	100	100
43.00	54.00	65.11
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(54) Methylcyclohexane (P)
6.565min (+0.006) 0.72 ug/L m
response 3445

Manual Integration:
After
Poor integration.

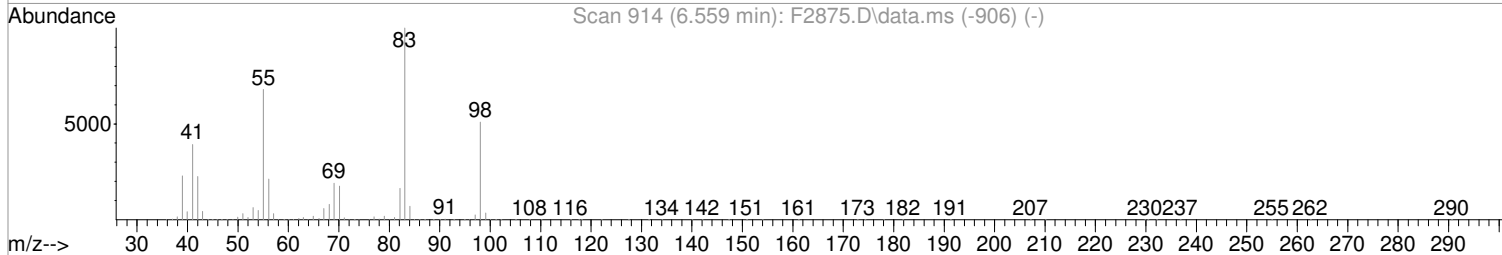
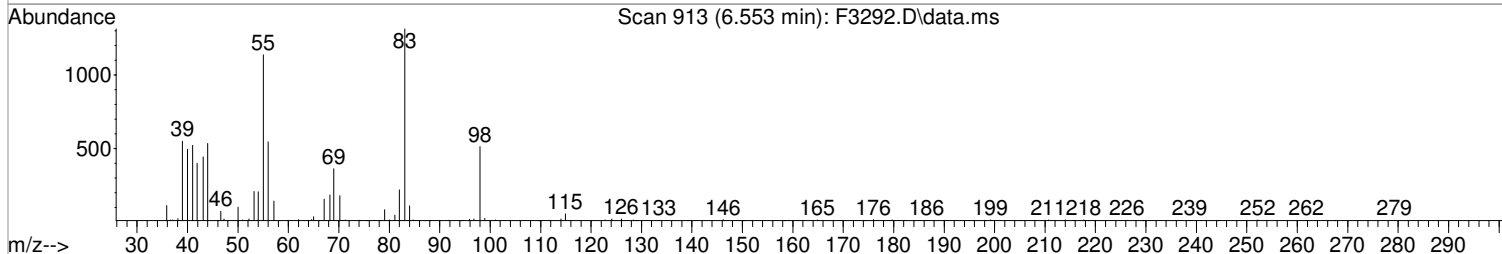
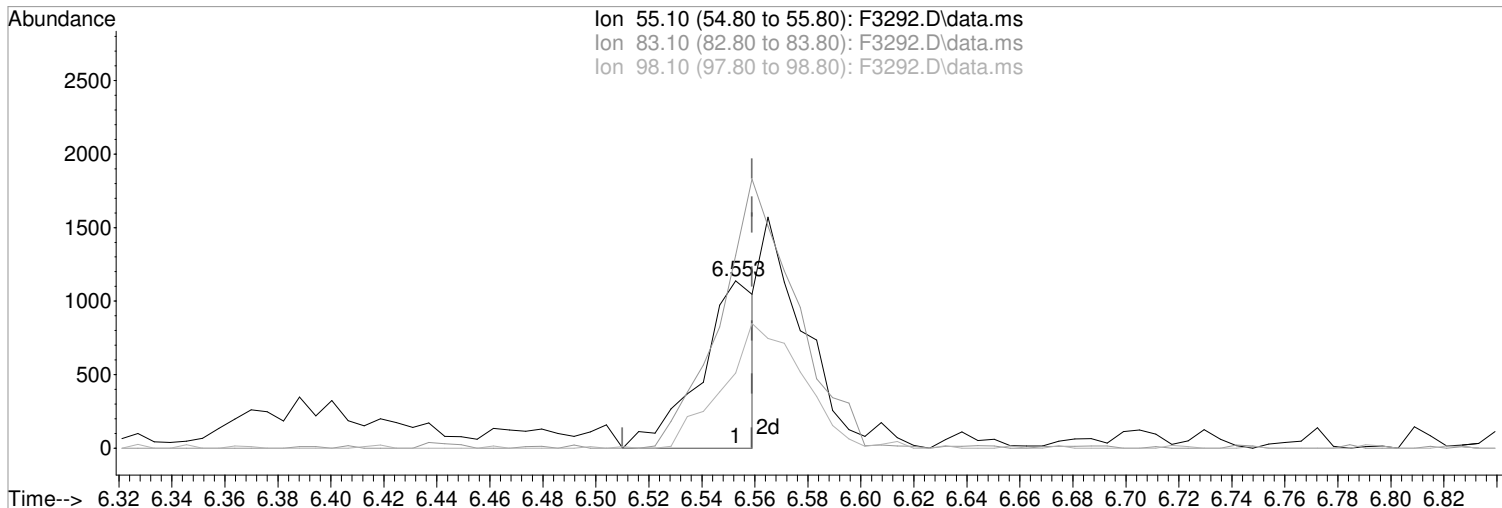
Ion	Exp%	Act%
55.10	100	100
83.10	146.40	96.11#
98.10	74.50	47.58#
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(54) Methylcyclohexane (P)
6.553min (-0.006) 0.34 ug/L
response 1629

Manual Integration:
Before

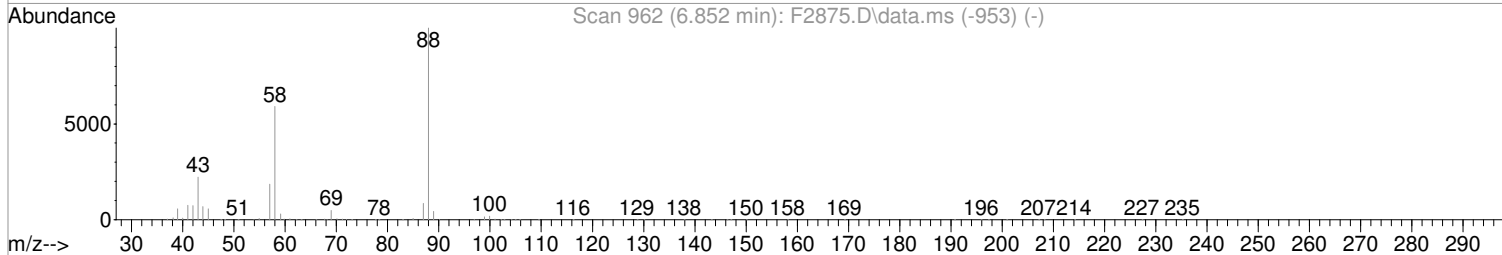
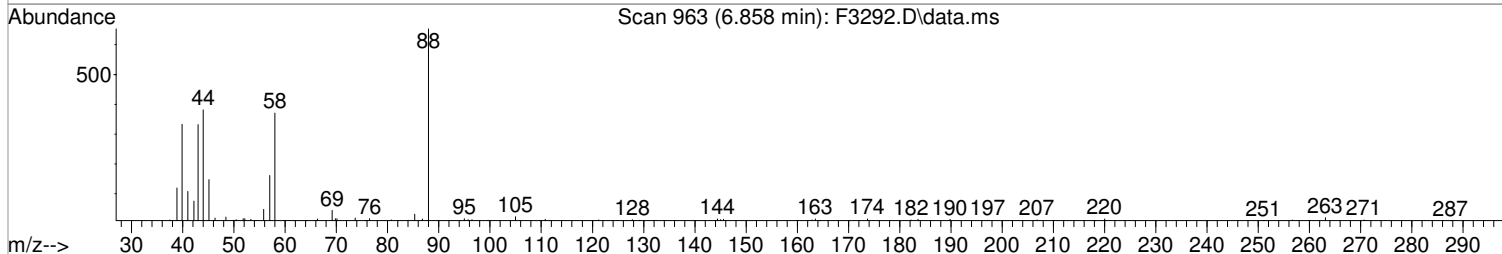
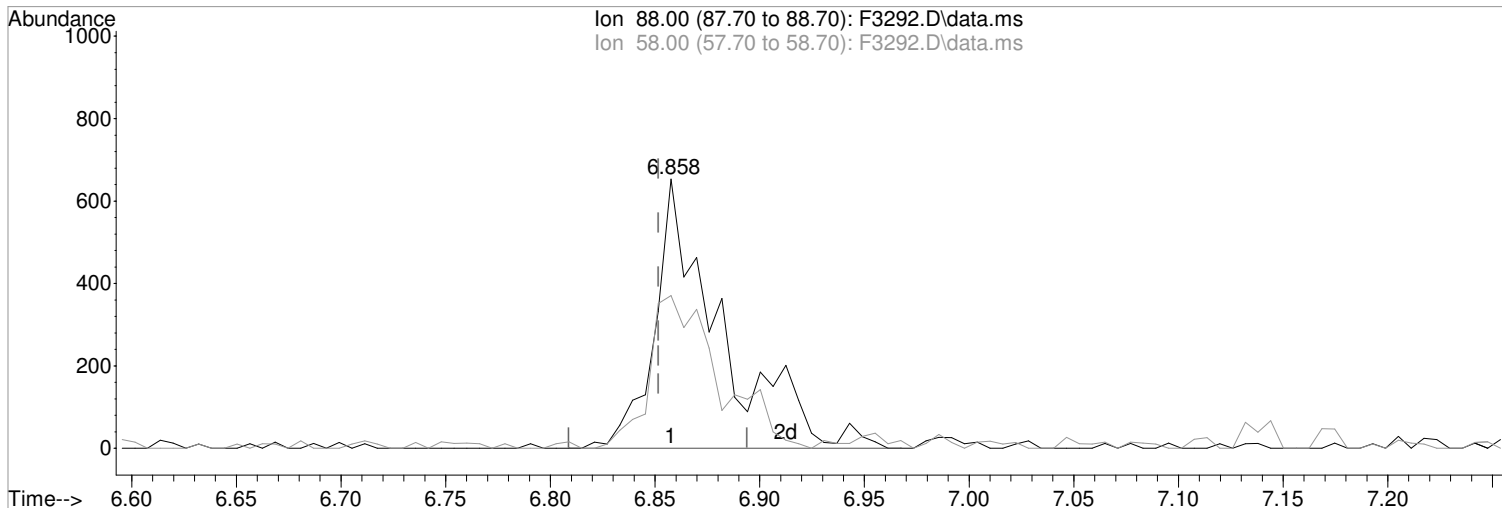
Ion	Exp%	Act%
55.10	100	100
83.10	146.40	115.48#
98.10	74.50	45.03#
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3292.D
 Acq On : 5 Feb 2021 2:45 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



TIC: F3292.D\data.ms

(57) 1,4-Dioxane
 6.858min (+0.006) 12.09 ug/L m
 response 1416

Manual Integration:
 After
 Poor integration.

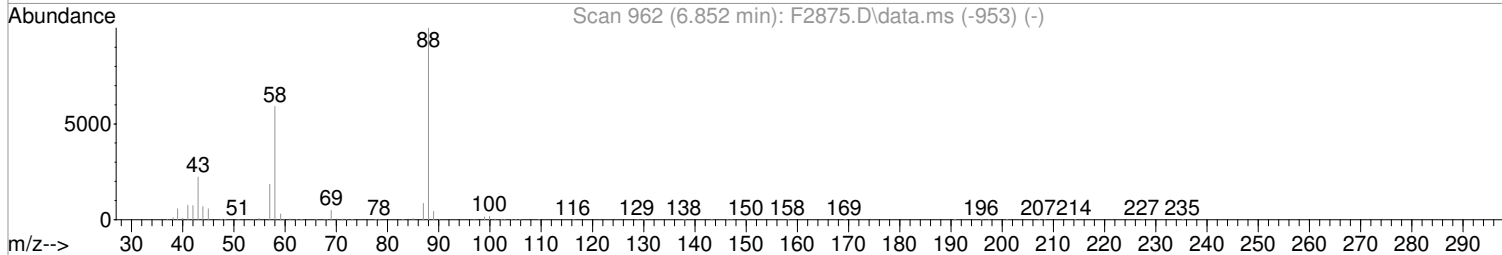
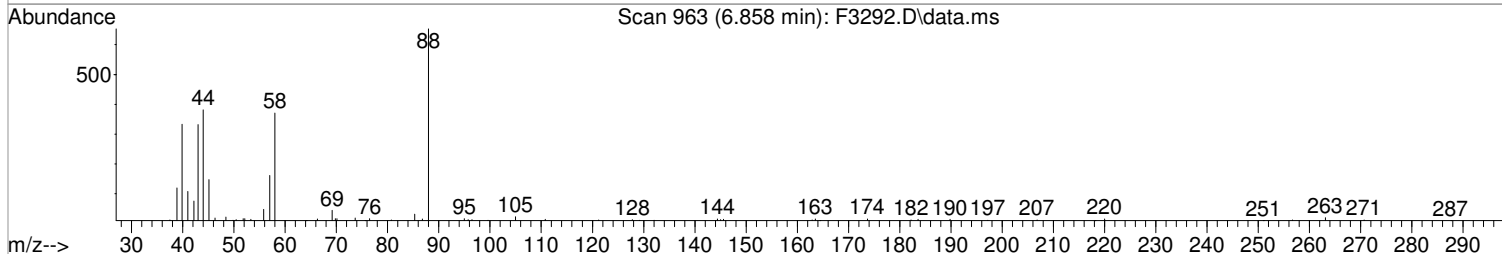
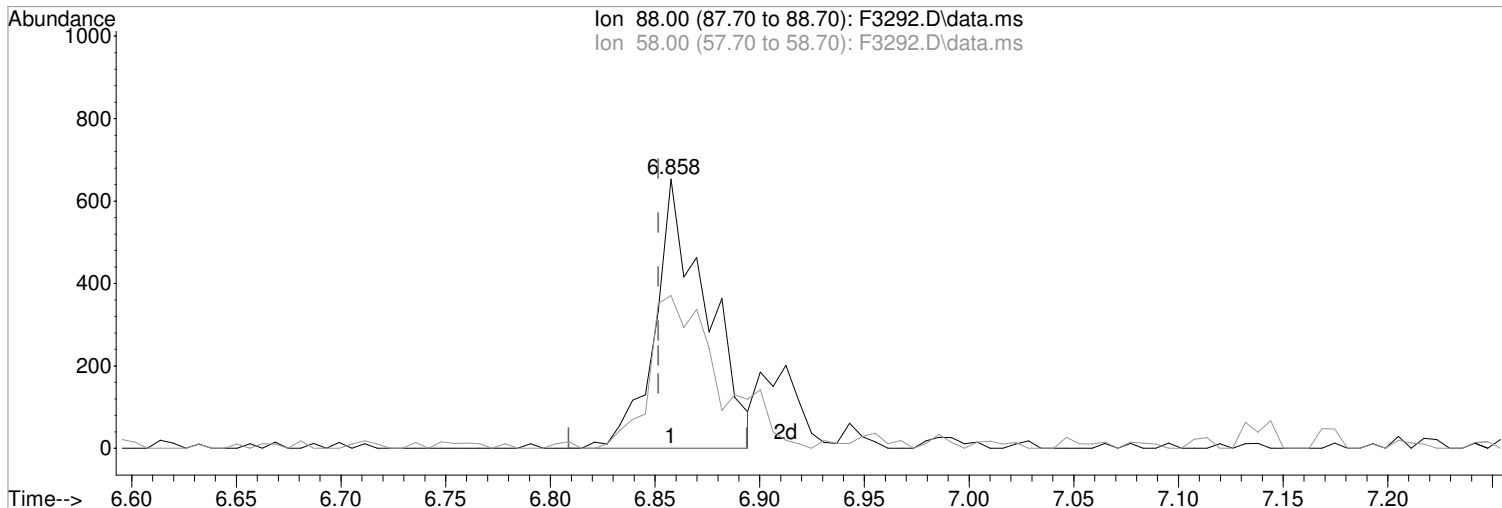
Ion	Exp%	Act%
88.00	100	100
58.00	59.00	56.81
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(57) 1,4-Dioxane
6.858min (+0.006) 9.53 ug/L
response 1116

Manual Integration:
Before

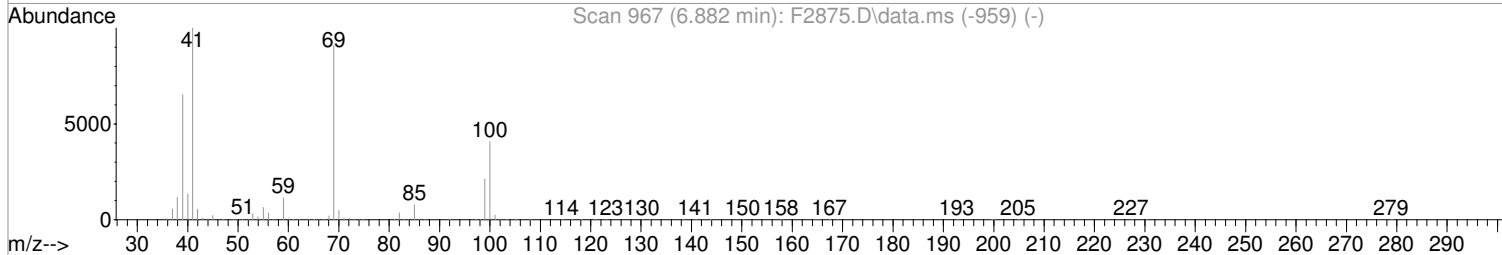
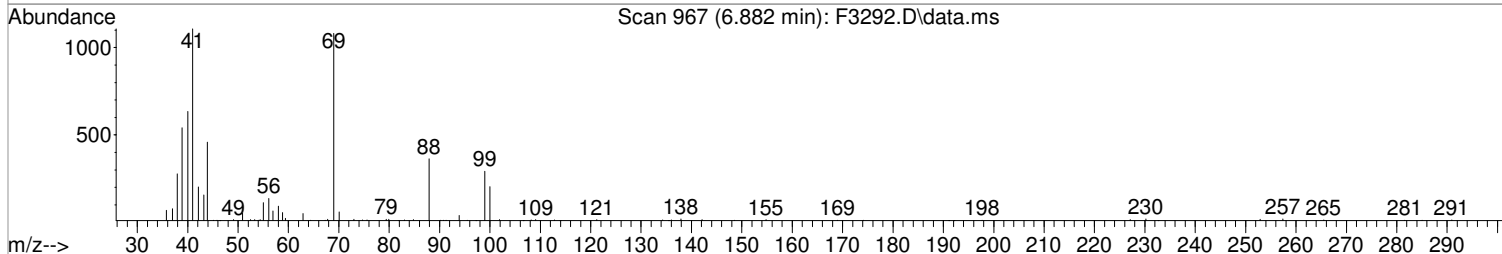
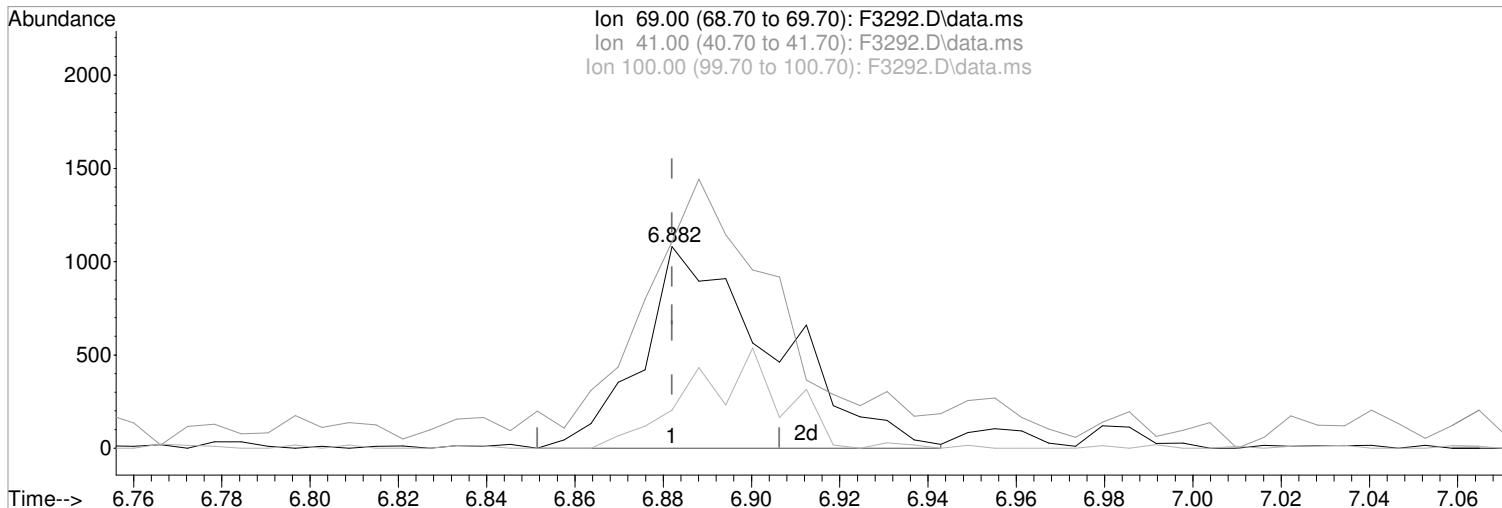
Ion	Exp%	Act%
88.00	100	100
58.00	59.00	56.81
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(58) Methyl Methacrylate

6.882min (-0.000) 0.55 ug/L m

response 2245

Ion Exp% Act%

69.00 100 100

41.00 110.60 102.41

100.00 44.70 18.87#

0.00 0.00 0.00

Manual Integration:

After

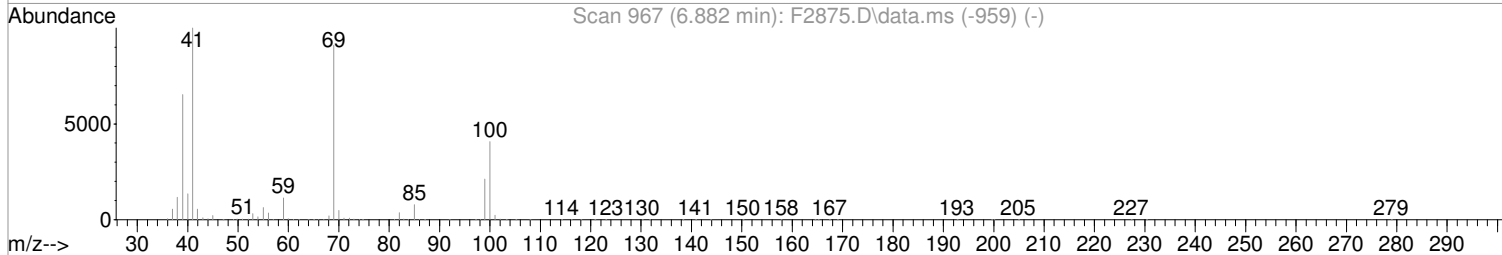
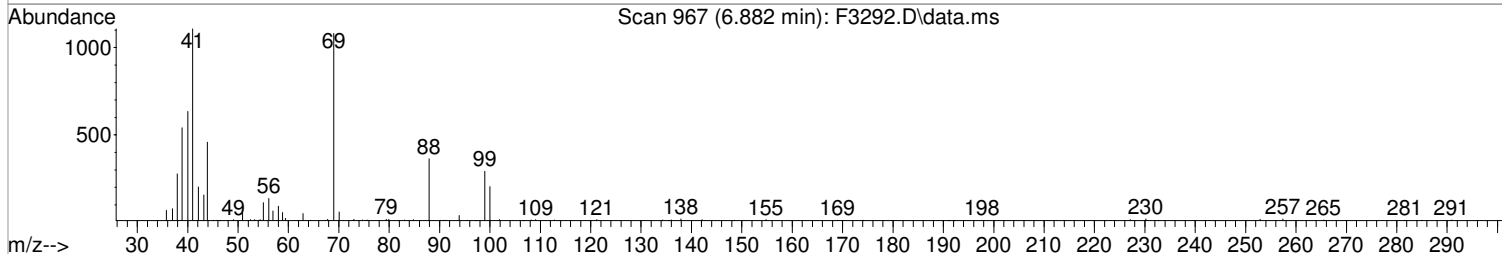
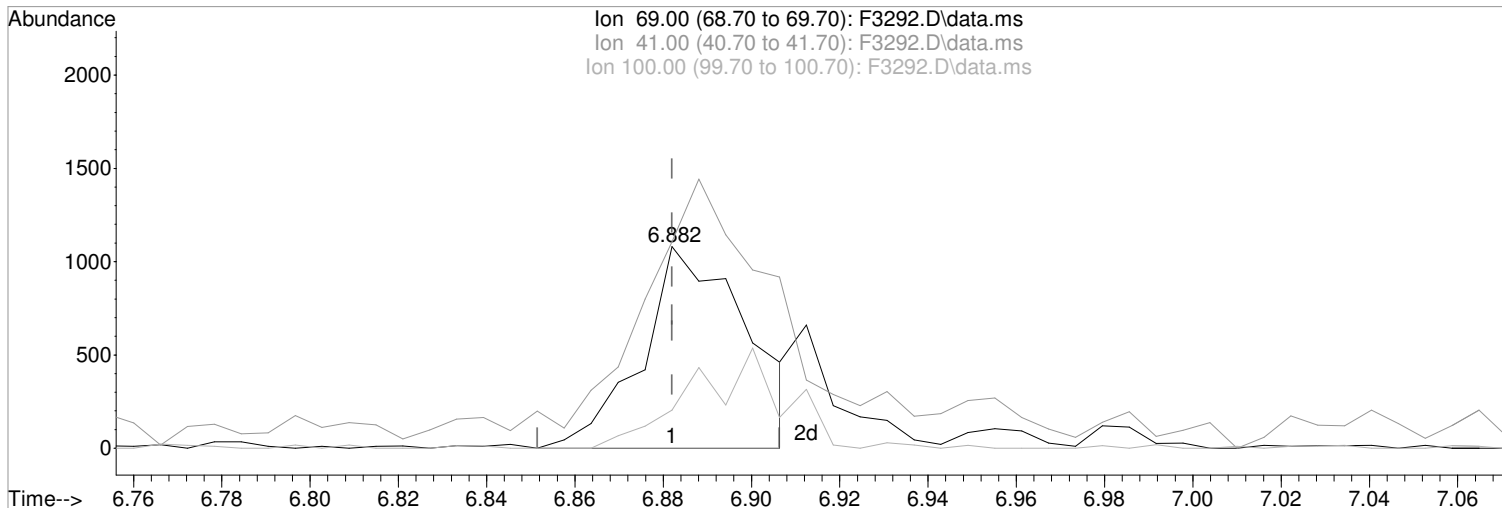
Poor integration.

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(58) Methyl Methacrylate
6.882min (-0.000) 0.44 ug/L
response 1780

Manual Integration:
Before

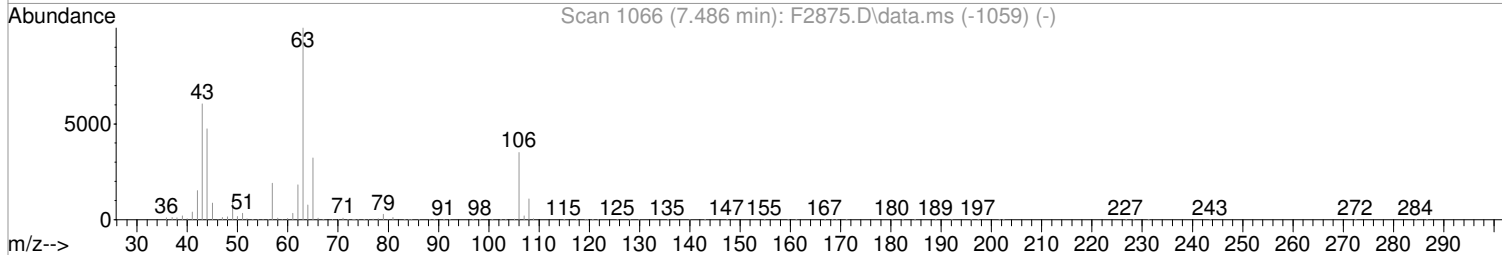
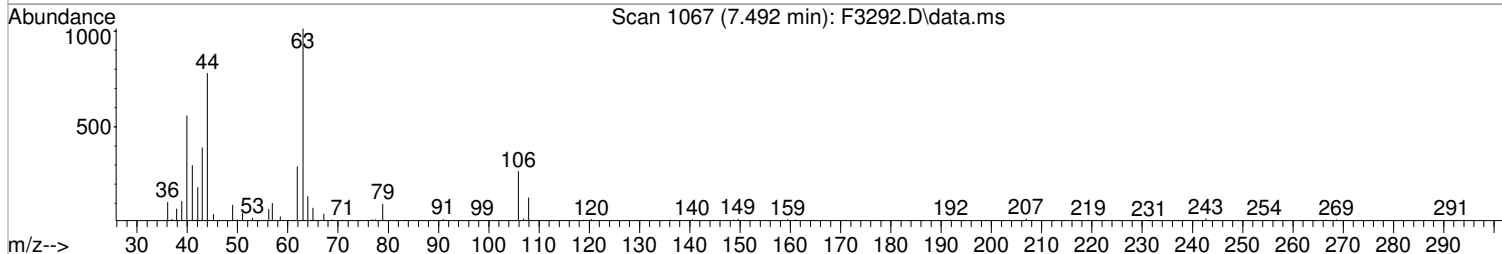
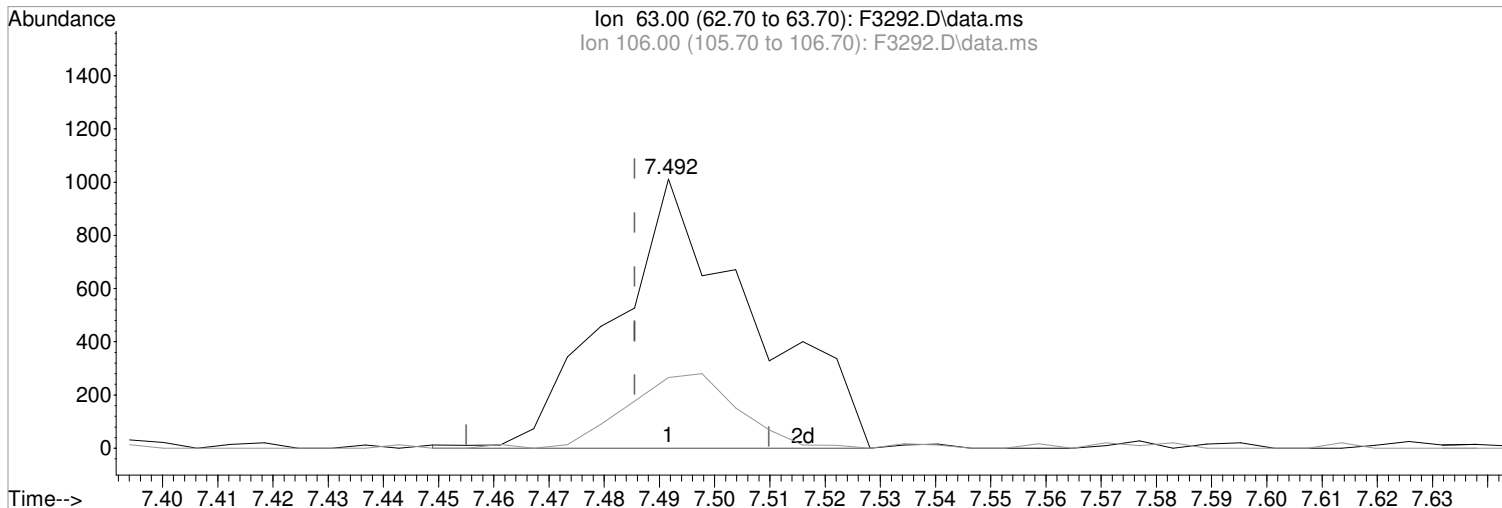
Ion	Exp%	Act%
69.00	100	100
41.00	110.60	102.41
100.00	44.70	18.87#
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(61) 2-Chloroethylvinyl Ether
7.492min (+0.006) 0.59 ug/L m
response 1763

Manual Integration:
After
Poor integration.

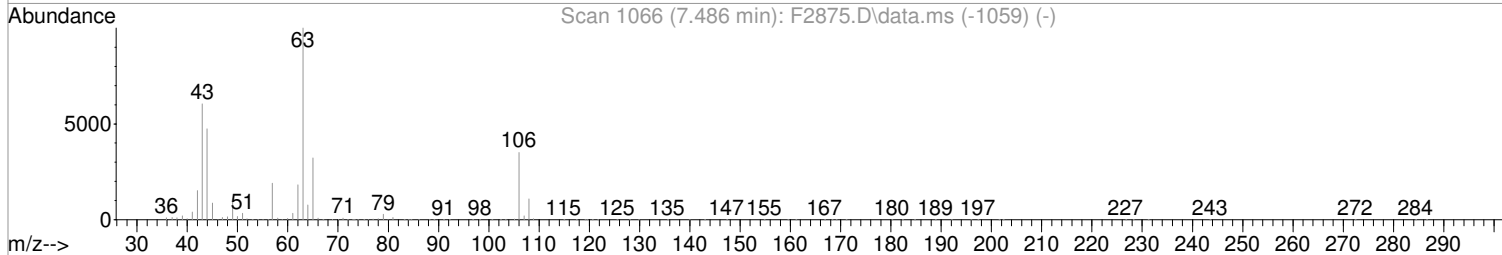
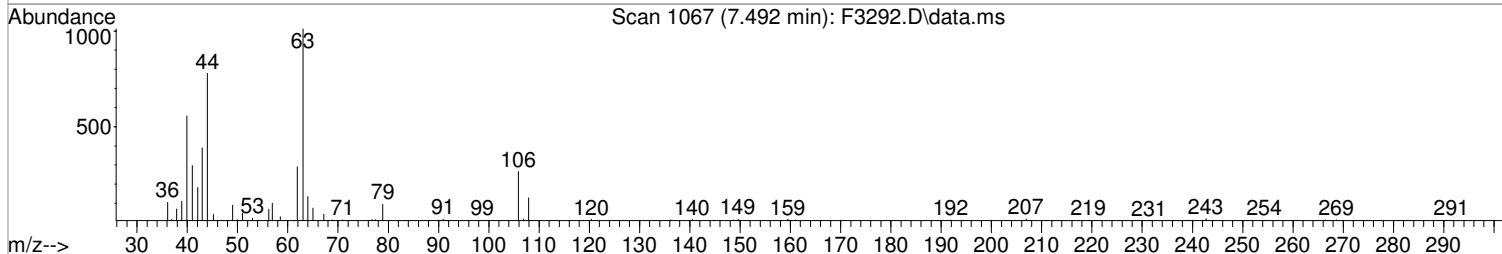
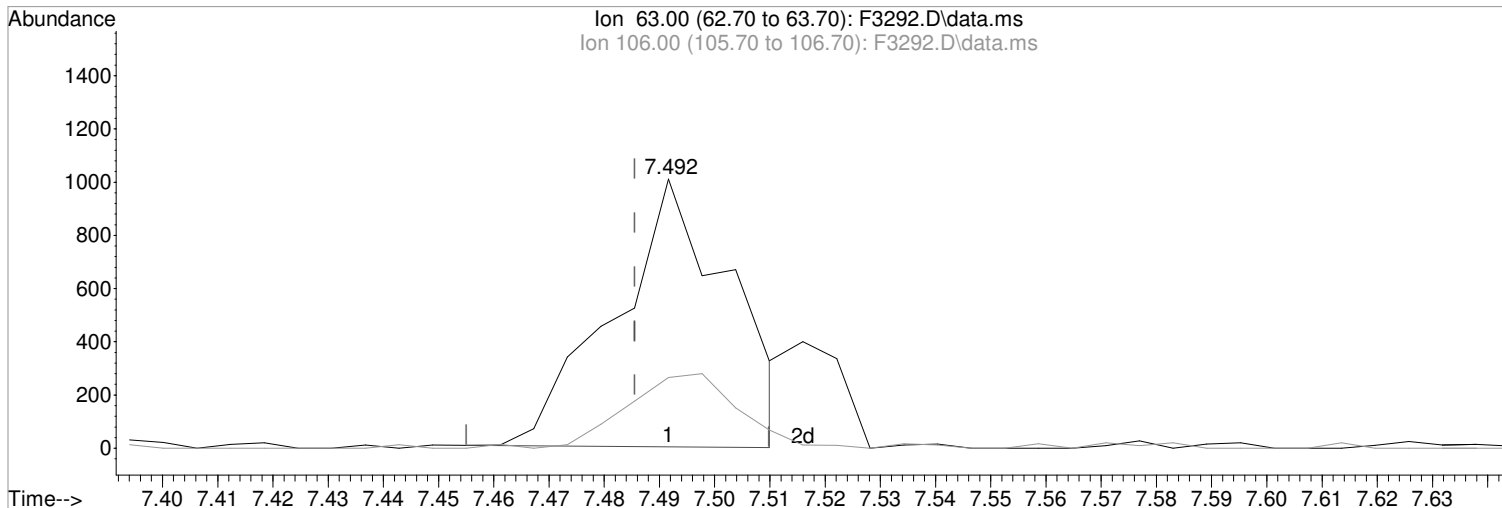
Ion	Exp%	Act%
63.00	100	100
106.00	35.10	26.31
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(61) 2-Chloroethylvinyl Ether
7.492min (+0.006) 0.49 ug/L
response 1466

Manual Integration:
Before

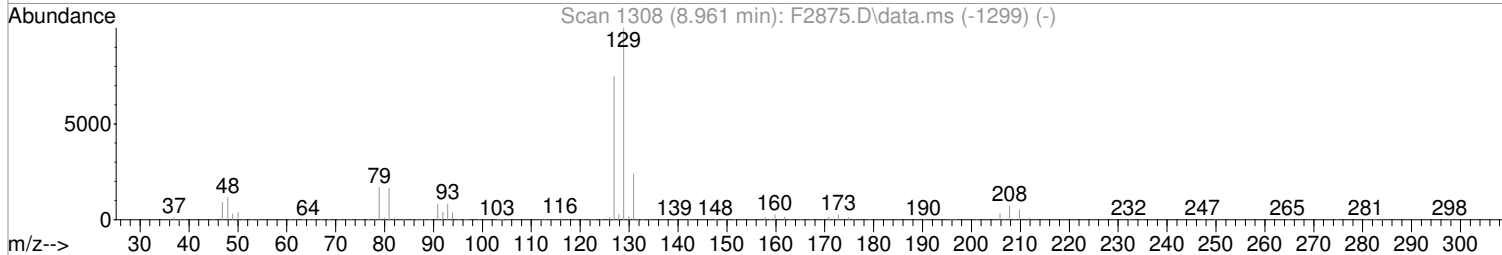
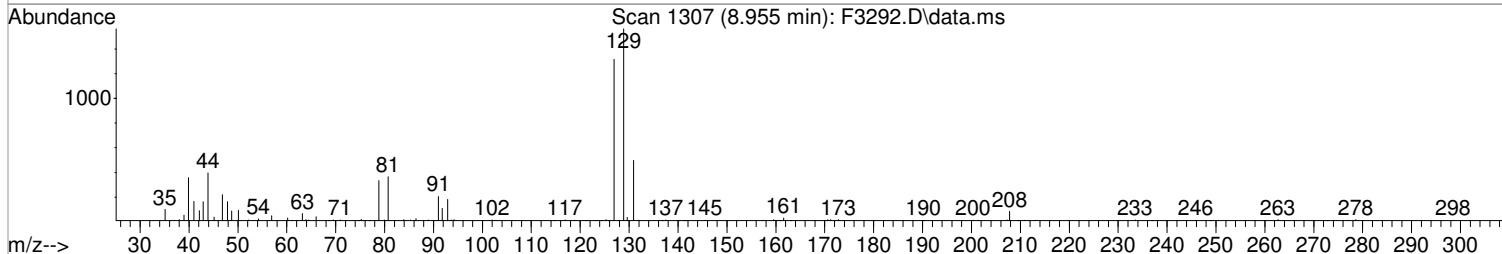
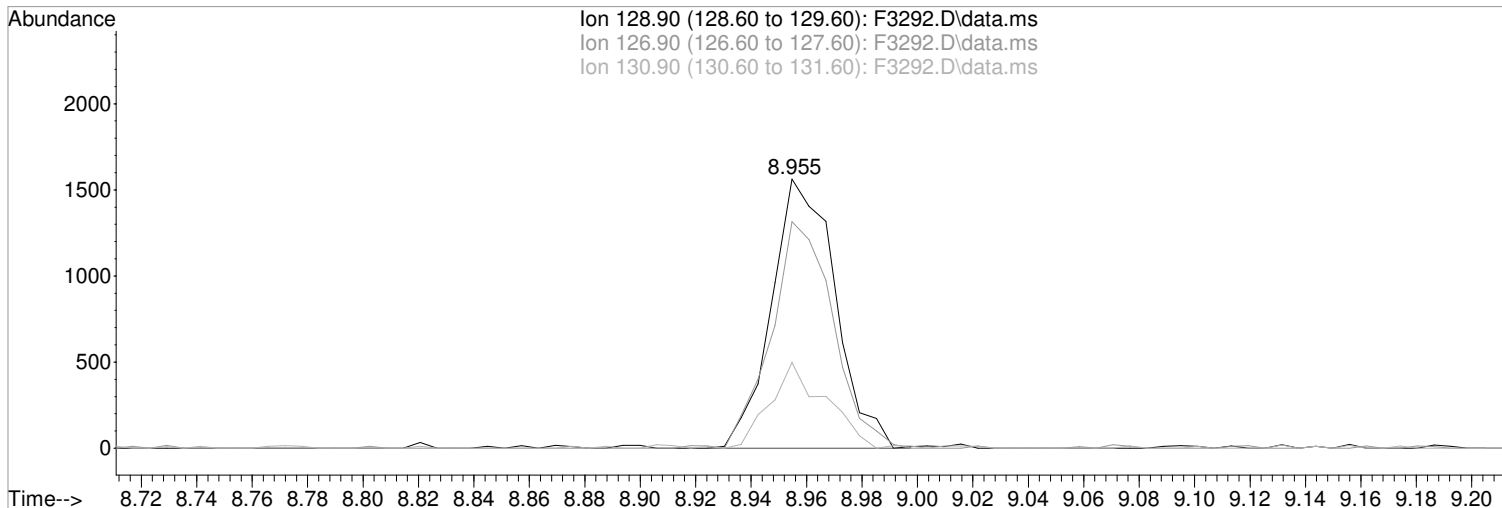
Ion	Exp%	Act%
63.00	100	100
106.00	35.10	26.31
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(74) Dibromochloromethane (P)

8.955min (-0.006) 0.47 ug/L m
response 2490

Ion	Exp%	Act%
128.90	100	100
126.90	74.60	84.25
130.90	23.80	31.88
0.00	0.00	0.00

Manual Integration:

After

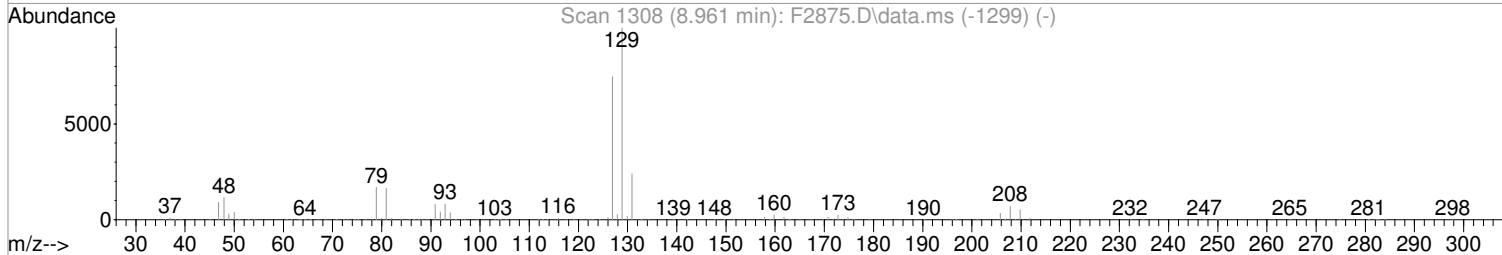
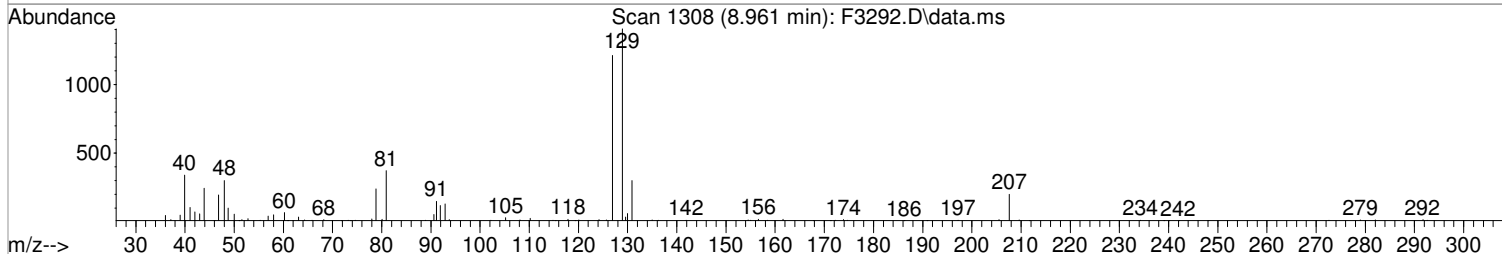
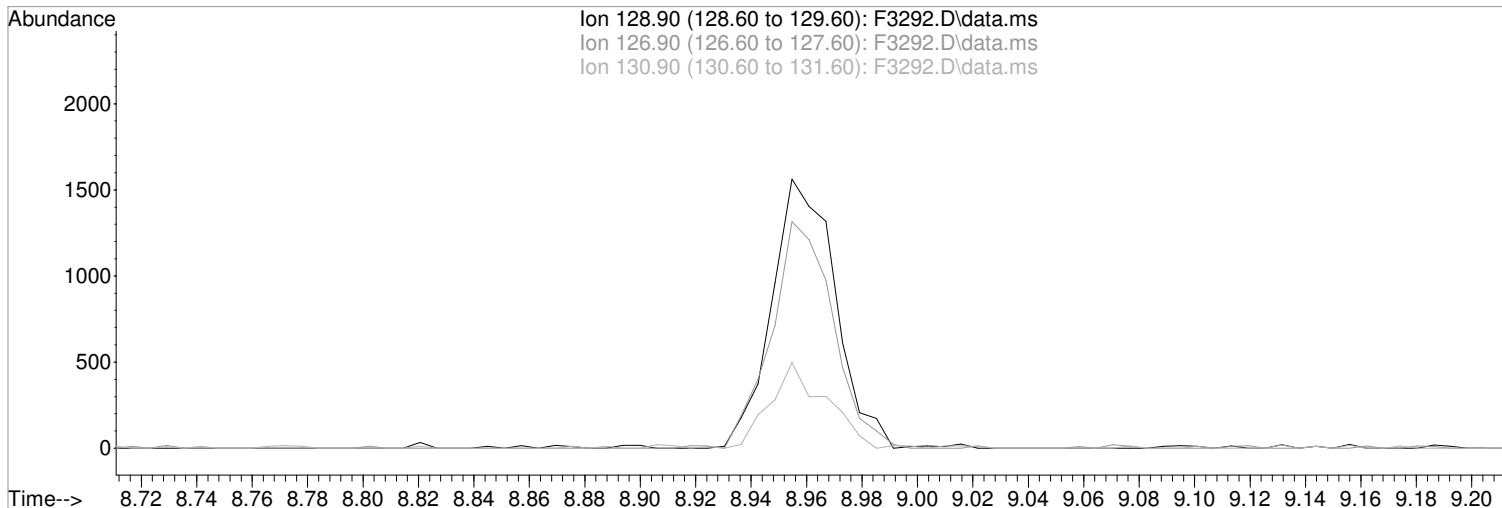
Peak not found.

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3292.D
Acq On : 5 Feb 2021 2:45 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:03:43 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3292.D\data.ms

(74) Dibromochloromethane (P)

Manual Integration:

8.961min (-8.961) 0.00 ug/L

Before

response 0

Ion Exp% Act%

02/05/21

128.90 100 0.00

126.90 74.60 0.00#

130.90 23.80 0.00#

0.00 0.00 0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3292.D
 Acq On : 5 Feb 2021 2:45 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 05 15:06:20 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	542036	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	756613	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	679764	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	354667	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	54264	10.76	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	21.52%#		
47) surr1,1,2-dichloroetha...	5.114	65	63934	11.64	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	23.28%#		
64) SURR3,Toluene-d8	7.943	98	206113	11.06	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	22.12%#		
69) SURR2,BFB	10.729	95	75960	10.91	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	21.82%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	2967	0.53	ug/L	85
3) Chloromethane	1.151	50	3621	0.74	ug/L	99
4) Vinyl Chloride	1.212	62	3237	0.58	ug/L	95
5) Bromomethane	1.407	94	3875	0.69	ug/L	95
6) Chloroethane	1.481	64	2376	0.60	ug/L	98
7) Freon 21	1.603	67	5154	0.57	ug/L	97
8) Trichlorofluoromethane	1.645	101	4136	0.51	ug/L	93
9) Diethyl Ether	1.846	59	2237	0.52	ug/L	88
10) Freon 123a	1.846	67	2781	0.50	ug/L #	68
11) Freon 123	1.889	83	3141	0.50	ug/L	92
12) Acrolein	1.932	56	3267	2.86	ug/L	81
13) 1,1-Dicethene	2.005	96	1844	0.56	ug/L	98
14) Freon 113	2.011	101	2337	0.57	ug/L	86
15) Acetone	2.041	43	2654	1.26	ug/L	81
16) 2-Propanol	2.157	45	5767	10.66	ug/L	86
17) Iodomethane	2.115	142	2180	0.37	ug/L	93
18) Carbon Disulfide	2.169	76	5823	0.56	ug/L	91
19) Acetonitrile	2.267	41	2288m	4.57	ug/L	
20) Allyl Chloride	2.291	76	1196	0.56	ug/L	98
21) Methyl Acetate	2.316	43	3840	0.71	ug/L	93
22) Methylene Chloride	2.383	84	3007	0.64	ug/L	95
23) TBA	2.499	59	11340	11.74	ug/L	87
24) Acrylonitrile	2.602	53	6458	2.76	ug/L	95
25) Methyl-t-Butyl Ether	2.657	73	7642	0.53	ug/L	93
26) trans-1,2-Dichloroethene	2.639	96	2198	0.57	ug/L	96
27) 1,1-Dicethane	3.060	63	4435	0.61	ug/L	89
28) Vinyl Acetate	3.145	86	545	0.82	ug/L #	1
29) DIPE	3.175	45	6972	0.59	ug/L	92
30) 2-Chloro-1,3-Butadiene	3.175	53	3818	0.64	ug/L	79
31) ETBE	3.633	59	6608	0.51	ug/L	85
32) 2,2-Dichloropropane	3.779	77	4023	0.60	ug/L	81
33) cis-1,2-Dichloroethene	3.785	96	2281	0.46	ug/L	93
34) 2-Butanone	3.840	43	2951	0.90	ug/L	81
35) Propionitrile	3.895	54	2551	2.48	ug/L	69
36) Bromochloromethane	4.126	130	2035	0.55	ug/L #	86
37) Methacrylonitrile	4.133	67	1135	0.42	ug/L	90
38) Tetrahydrofuran	4.206	42	2110	1.02	ug/L	96
39) Chloroform	4.273	83	4215	0.53	ug/L	96
40) 1,1,1-Trichloroethane	4.547	97	3982	0.55	ug/L #	80

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3292.D
 Acq On : 5 Feb 2021 2:45 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 05 15:06:20 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.498	73	7316	0.54	ug/L	90
43) Cyclohexane	4.632	41	2839m	0.82	ug/L	
45) Carbontetrachloride	4.834	117	3488	0.55	ug/L	89
46) 1,1-Dichloropropene	4.852	75	3197	0.57	ug/L	93
48) Benzene	5.218	78	9601	0.58	ug/L	89
49) 1,2-Dichloroethane	5.248	62	3627	0.58	ug/L	85
50) Iso-Butyl Alcohol	5.260	43	4231m	11.71	ug/L	
51) n-Heptane	5.797	43	3177	0.71	ug/L #	80
52) 1-Butanol	6.382	56	5206m	21.80	ug/L	
53) Trichloroethene	6.303	130	2951	0.52	ug/L	90
54) Methylcyclohexane	6.565	55	3445m	0.72	ug/L	
55) 1,2-Diclpropane	6.602	63	2369	0.56	ug/L	89
56) Dibromomethane	6.760	93	1795	0.51	ug/L	98
57) 1,4-Dioxane	6.858	88	1416m	12.09	ug/L	
58) Methyl Methacrylate	6.882	69	2245m	0.55	ug/L	
59) Bromodichloromethane	7.028	83	3079	0.49	ug/L	89
60) 2-Nitropropane	7.339	41	1767	1.08	ug/L #	50
61) 2-Chloroethylvinyl Ether	7.492	63	1763m	0.59	ug/L	
62) cis-1,3-Dichloropropene	7.626	75	3496	0.50	ug/L	94
63) 4-Methyl-2-pentanone	7.863	43	3874	0.62	ug/L	86
65) Toluene	8.022	91	10913	0.57	ug/L	93
66) trans-1,3-Dichloropropene	8.333	75	3418	0.52	ug/L	91
67) Ethyl Methacrylate	8.498	69	3143	0.46	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	2809	0.59	ug/L	90
71) Tetrachloroethene	8.662	164	2407	0.58	ug/L	89
72) 2-Hexanone	8.875	43	2373	0.53	ug/L	82
73) 1,3-Dichloropropane	8.711	76	4088	0.55	ug/L	90
74) Dibromochloromethane	8.955	129	2490m	0.47	ug/L	
75) N-Butyl Acetate	9.052	43	4352	0.54	ug/L	87
76) 1,2-Dibromoethane	9.058	107	2527	0.49	ug/L #	78
77) 3-Chlorobenzotrifluoride	9.650	180	4042	0.51	ug/L	94
78) Chlorobenzene	9.607	112	6694	0.51	ug/L	93
79) 4-Chlorobenzotrifluoride	9.711	180	3518	0.49	ug/L	86
80) 1,1,1,2-Tetrachloroethane	9.705	131	2450	0.49	ug/L #	80
81) Ethylbenzene	9.753	106	3538	0.54	ug/L #	73
82) (m+p)Xylene	9.869	106	9095	1.10	ug/L	94
83) o-Xylene	10.247	106	4591	0.56	ug/L	95
84) Styrene	10.265	104	6619	0.48	ug/L	90
85) Bromoform	10.412	173	1860	0.44	ug/L	97
86) 2-Chlorobenzotrifluoride	10.515	180	4179	0.52	ug/L	95
87) Isopropylbenzene	10.607	105	10754	0.52	ug/L	99
88) Cyclohexanone	10.656	55	12115	9.51	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.930	53	900	0.56	ug/L #	56
91) 1,1,2,2-Tetrachloroethane	10.881	83	3615	0.59	ug/L	80
92) Bromobenzene	10.851	156	3107	0.51	ug/L	98
93) 1,2,3-Trichloropropane	10.906	110	1420	0.58	ug/L #	67
94) n-Propylbenzene	10.979	91	12605	0.56	ug/L	99
95) 2-Chlorotoluene	11.034	91	8067	0.58	ug/L	96
96) 3-Chlorotoluene	11.088	91	8056	0.56	ug/L	89
97) 4-Chlorotoluene	11.137	91	9254	0.58	ug/L	93
98) 1,3,5-Trimethylbenzene	11.143	105	8453	0.50	ug/L	90
99) tert-Butylbenzene	11.418	119	8370	0.57	ug/L	95
100) 1,2,4-Trimethylbenzene	11.460	105	9317	0.55	ug/L	91
101) 3,4-Dichlorobenzotrifl...	11.533	214	3763	0.62	ug/L	95
102) sec-Butylbenzene	11.607	105	11438	0.55	ug/L	98
103) p-Isopropyltoluene	11.735	119	10674	0.58	ug/L	90

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3292.D
 Acq On : 5 Feb 2021 2:45 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 05 15:06:20 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

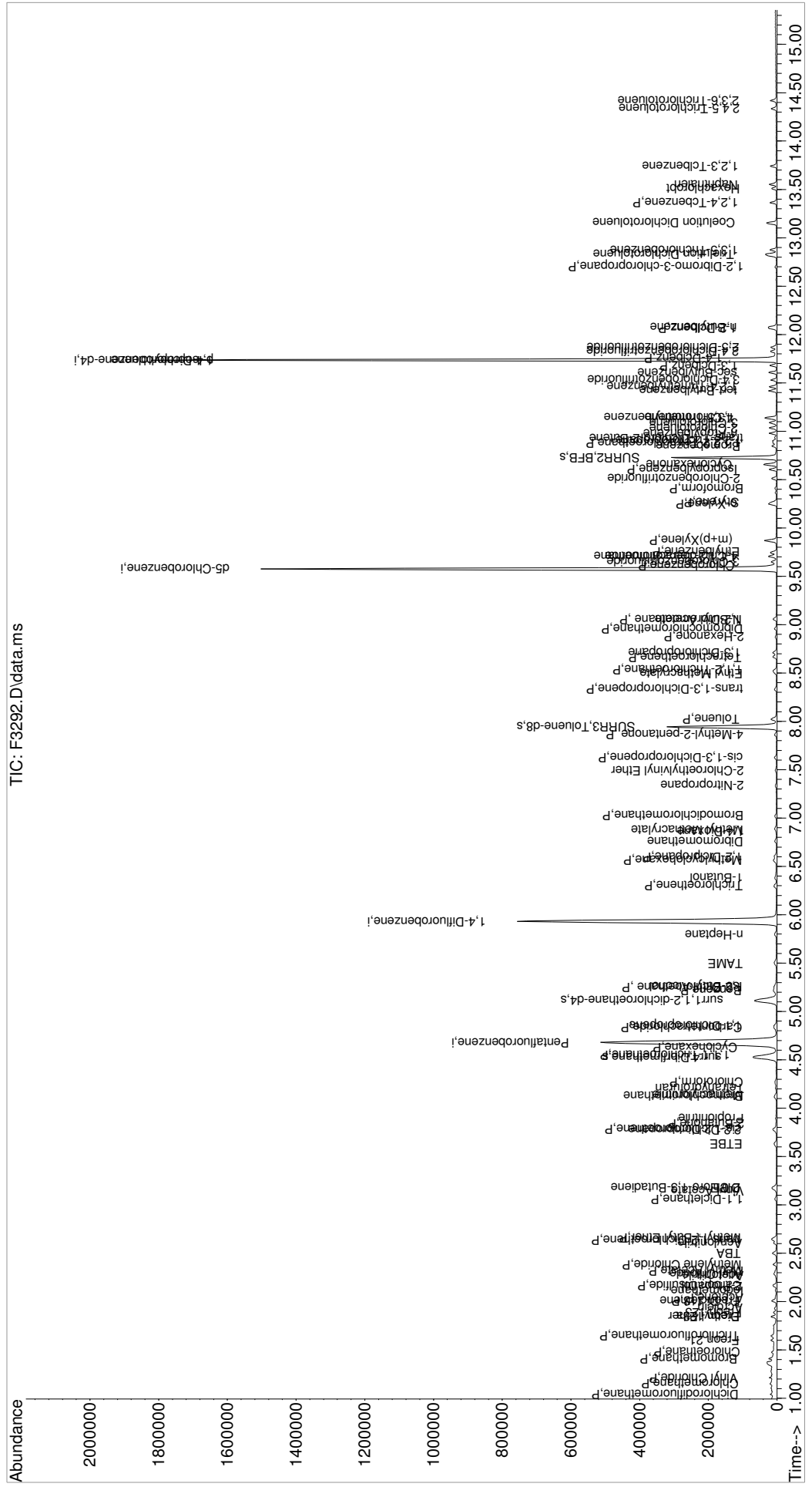
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	5699	0.52	ug/L	99
105) 1,4-Dclbenz	11.759	146	6641	0.58	ug/L	95
106) 2,4-Dichlorobenzotrifl...	11.826	214	3201	0.59	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.869	214	3760	0.61	ug/L	87
108) n-Butylbenzene	12.076	91	8423	0.55	ug/L	91
109) 1,2-Dclbenz	12.064	146	6402	0.58	ug/L	94
110) 1,2-Dibromo-3-chloropr...	12.704	157	905	0.42	ug/L #	79
111) Trielution Dichlorotol...	12.832	125	14894	1.62	ug/L	87
112) 1,3,5-Trichlorobenzene	12.875	180	4808	0.57	ug/L	95
113) Coelution Dichlorotoluene	13.155	125	10536	1.08	ug/L	94
114) 1,2,4-Tcbenzene	13.362	180	4296	0.56	ug/L #	79
115) Hexachlorobt	13.509	225	2259	0.65	ug/L	92
116) Naphthalen	13.551	128	12732	0.61	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	4638	0.61	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	3596	0.87	ug/L	97
119) 2,3,6-Trichlorotoluene	14.417	159	3244	0.80	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3292.D
 Acq On : 5 Feb 2021 2:45 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

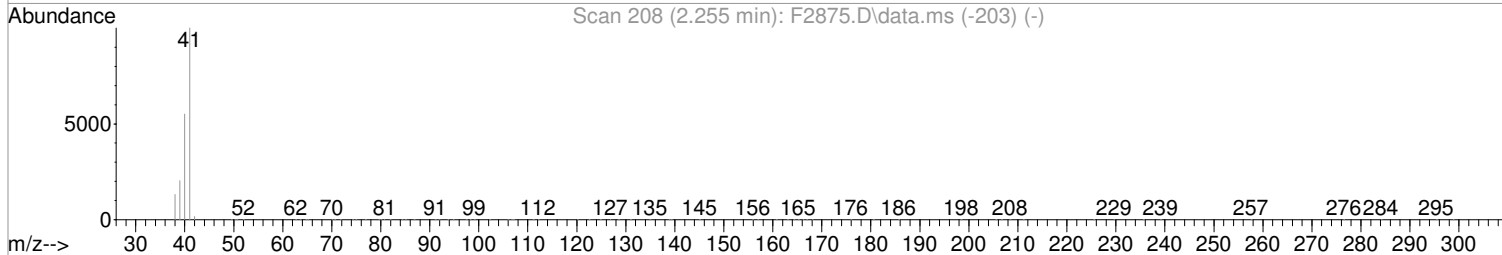
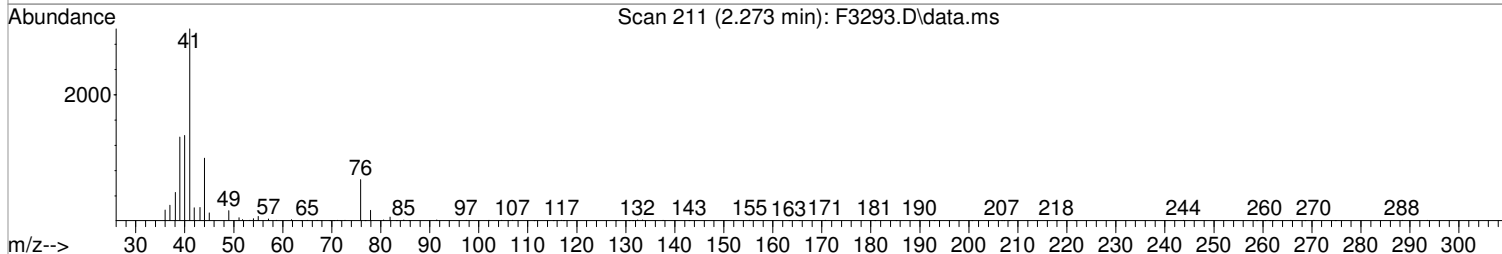
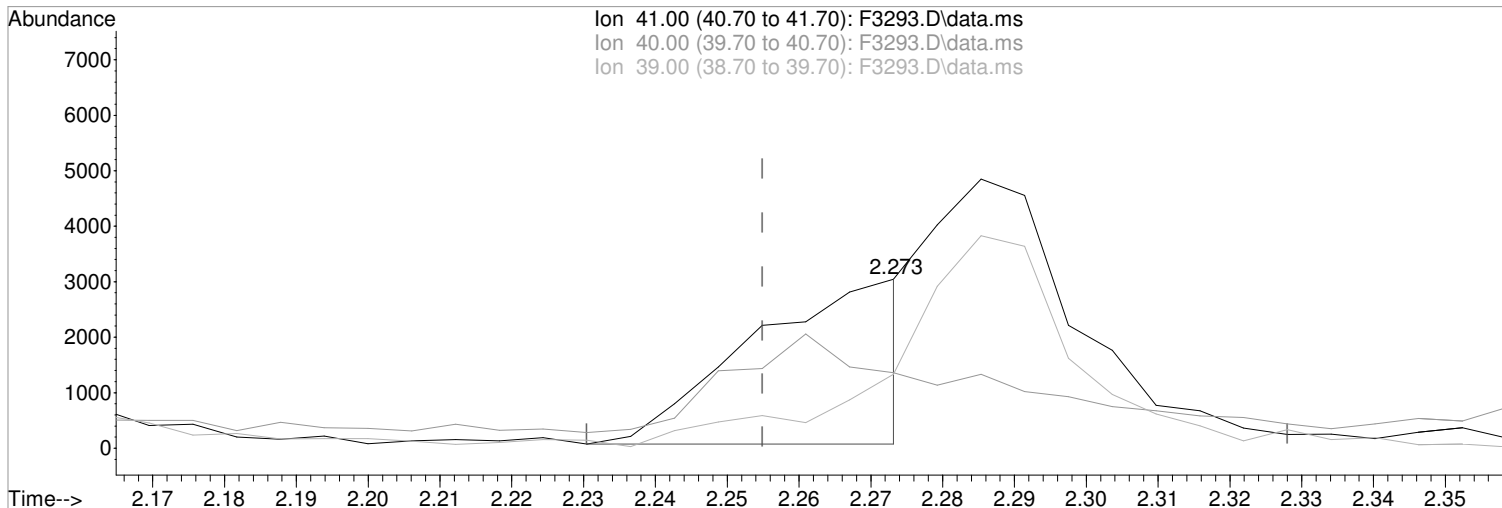
Quant Time: Feb 05 15:06:20 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3293.D
Acq On : 5 Feb 2021 3:08 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:30:37 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(19) Acetonitrile
2.273min (+0.018) 8.74 ug/L m
response 4499

Manual Integration:
After
Poor integration.

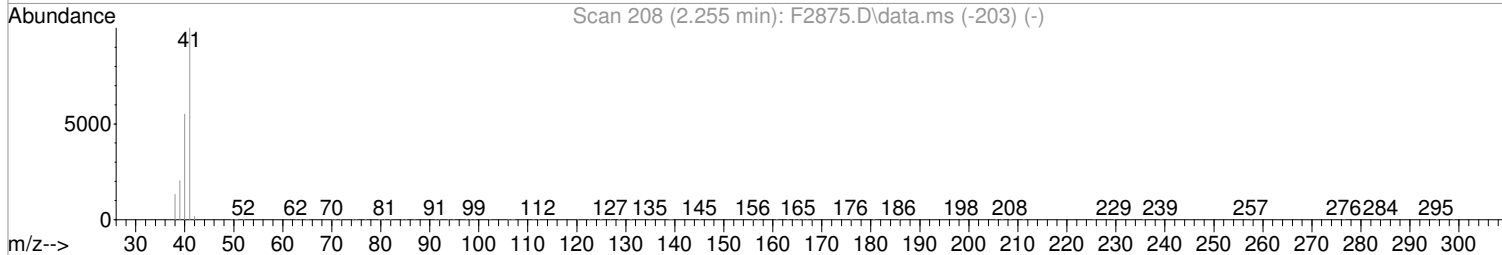
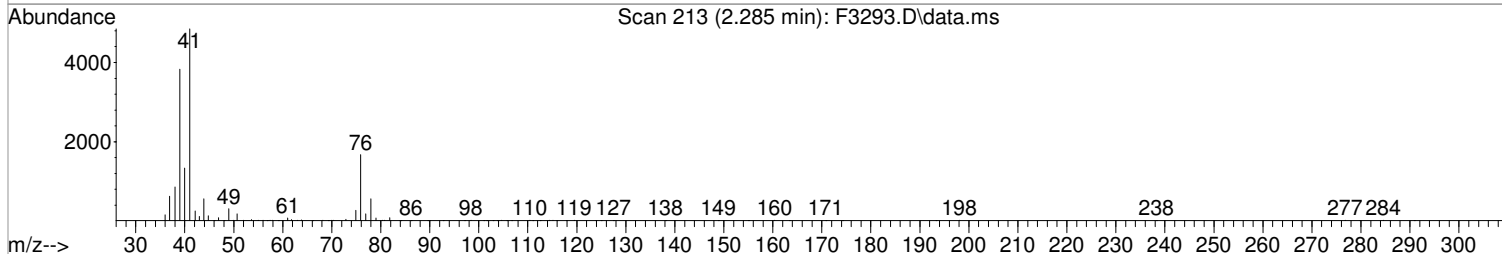
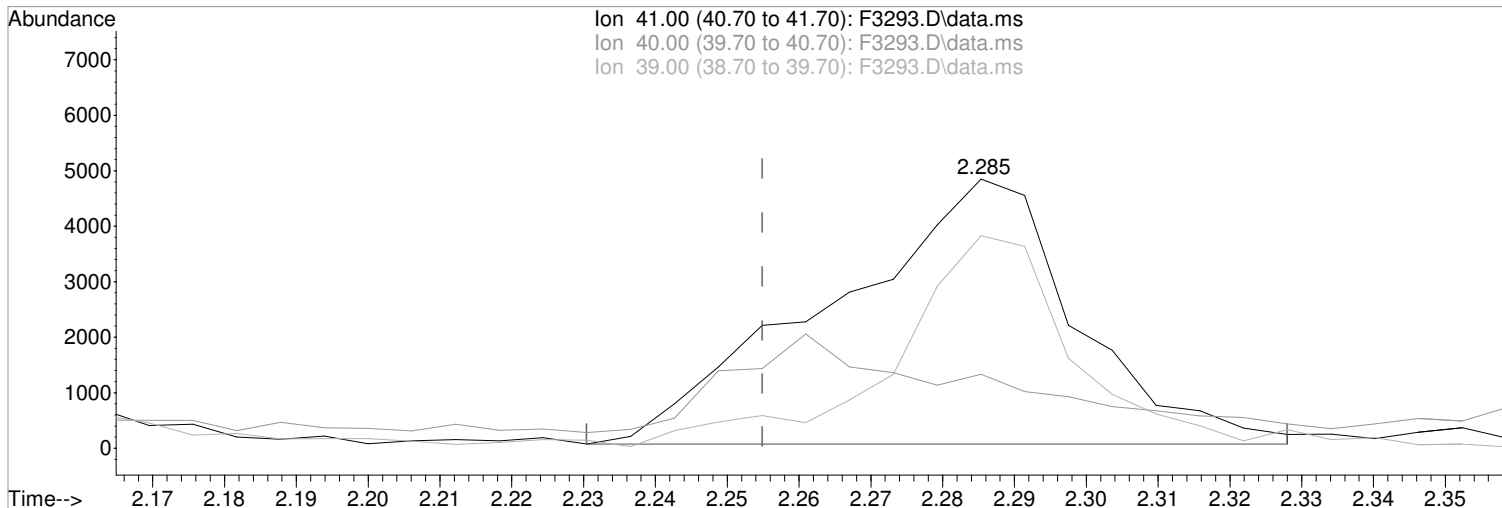
Ion	Exp%	Act%
41.00	100	100
40.00	54.10	44.68
39.00	22.40	43.82#
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3293.D
Acq On : 5 Feb 2021 3:08 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:30:37 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(19) Acetonitrile
2.285min (+0.030) 22.10 ug/L
response 11372

Manual Integration:
Before

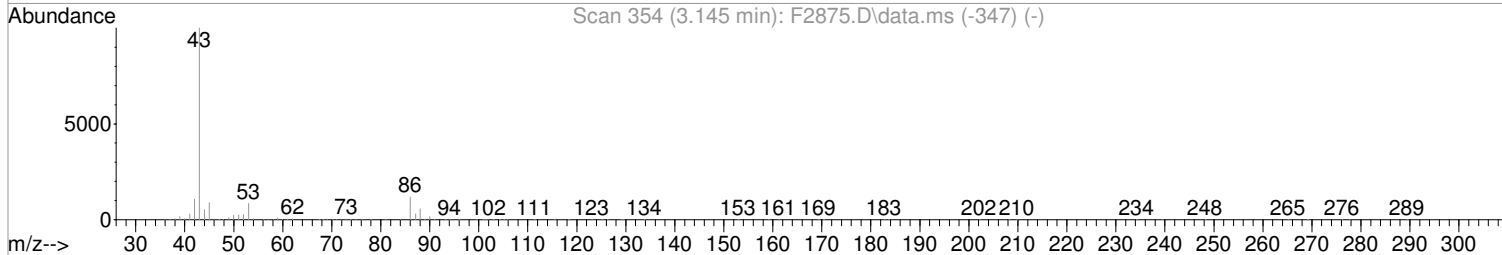
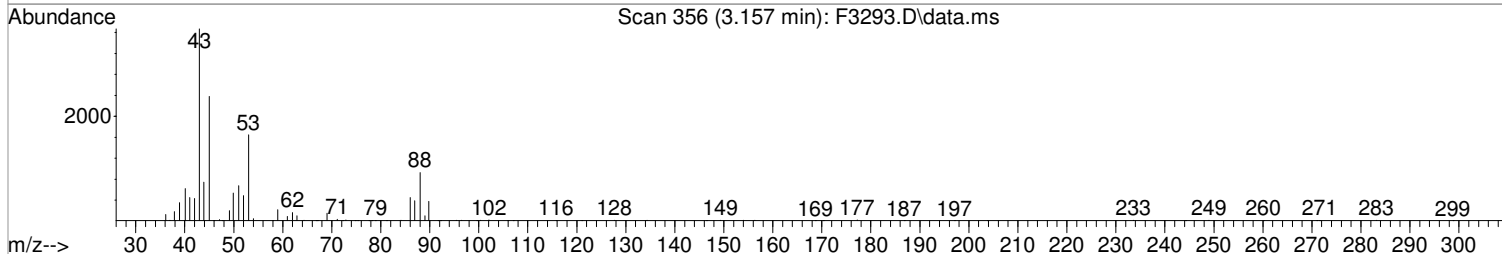
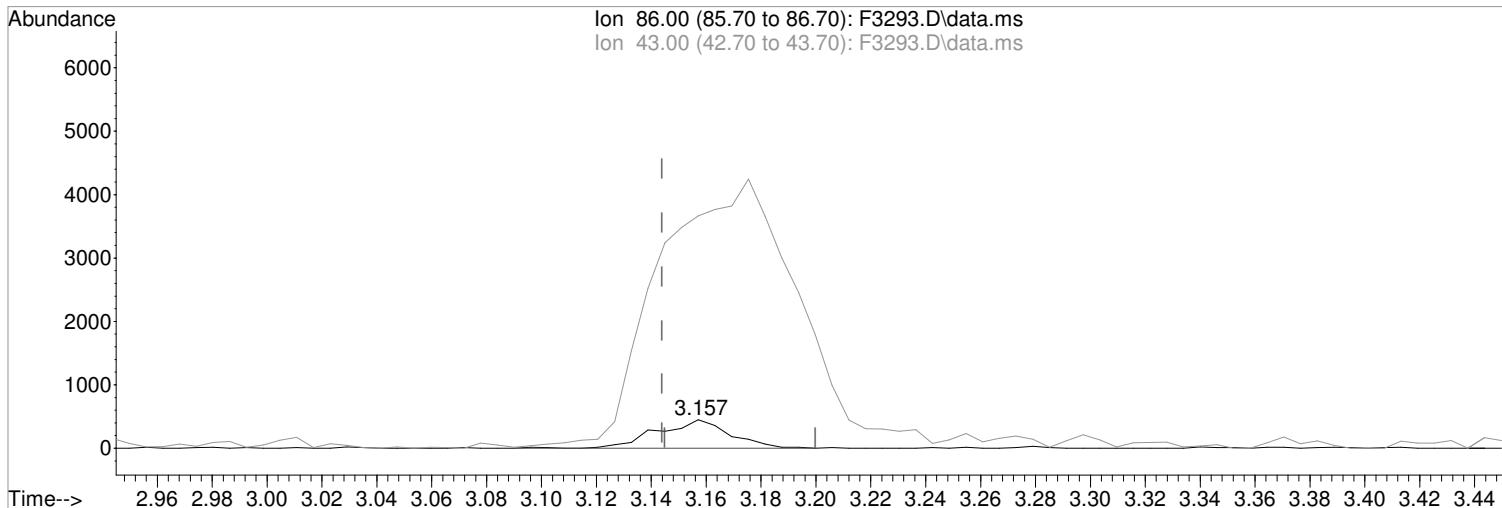
Ion	Exp%	Act%
41.00	100	100
40.00	54.10	27.45#
39.00	22.40	78.96#
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3293.D
Acq On : 5 Feb 2021 3:08 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:30:37 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(28) Vinyl Acetate
3.157min (+0.013) 1.23 ug/L m
response 836

Manual Integration:
After
Poor integration.

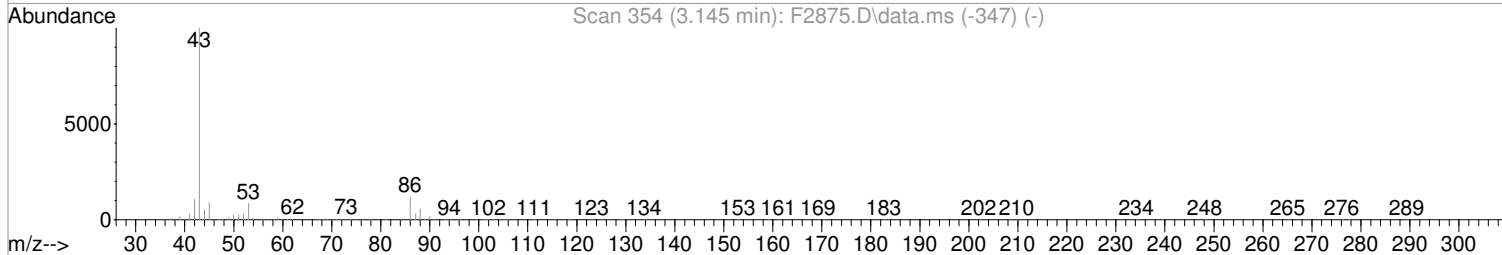
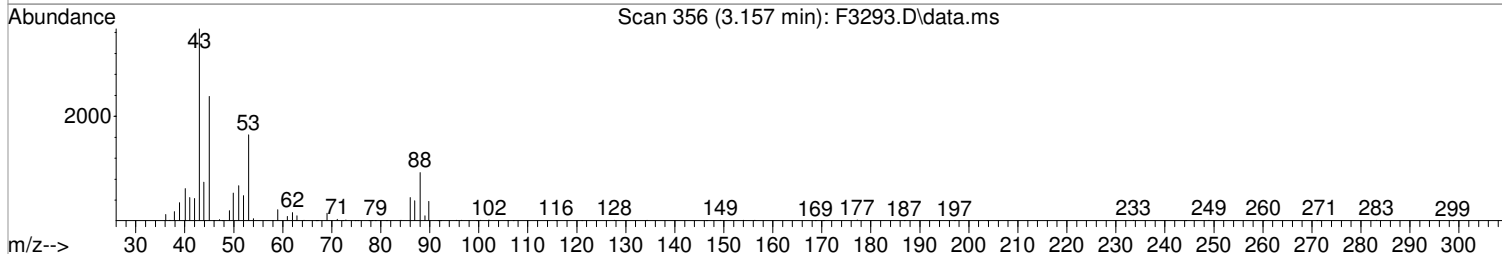
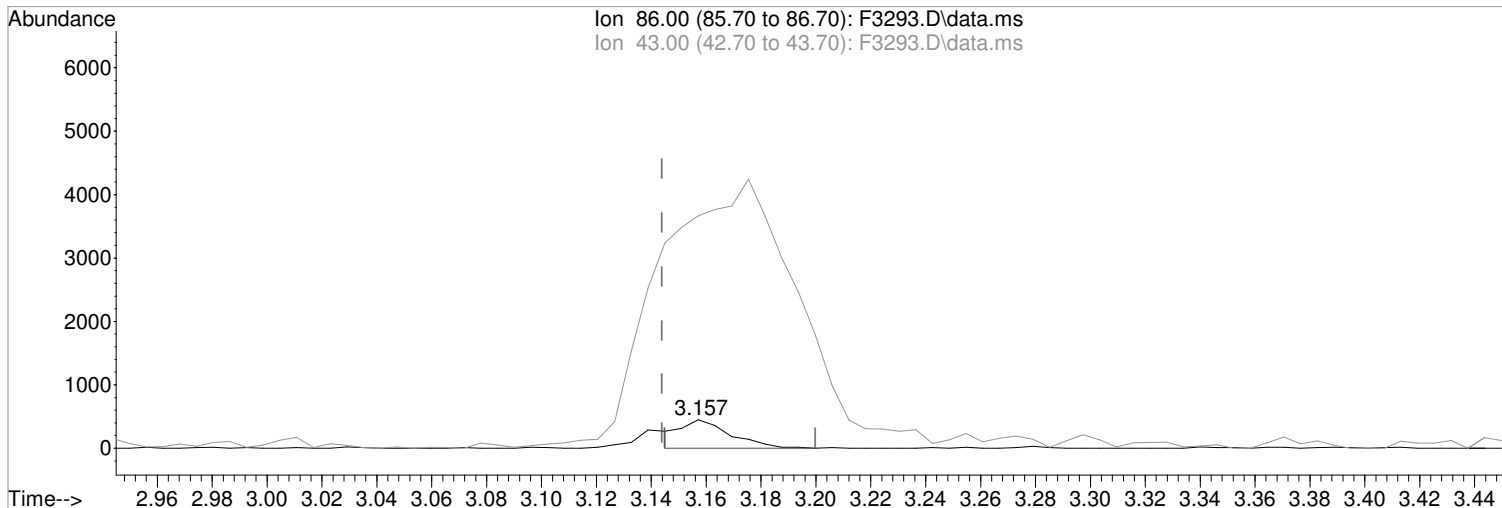
Ion	Exp%	Act%
86.00	100	100
43.00	847.20	818.53#
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3293.D
Acq On : 5 Feb 2021 3:08 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:30:37 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3293.D\data.ms

(28) Vinyl Acetate
3.157min (+0.013) 0.83 ug/L
response 563

Manual Integration:
Before

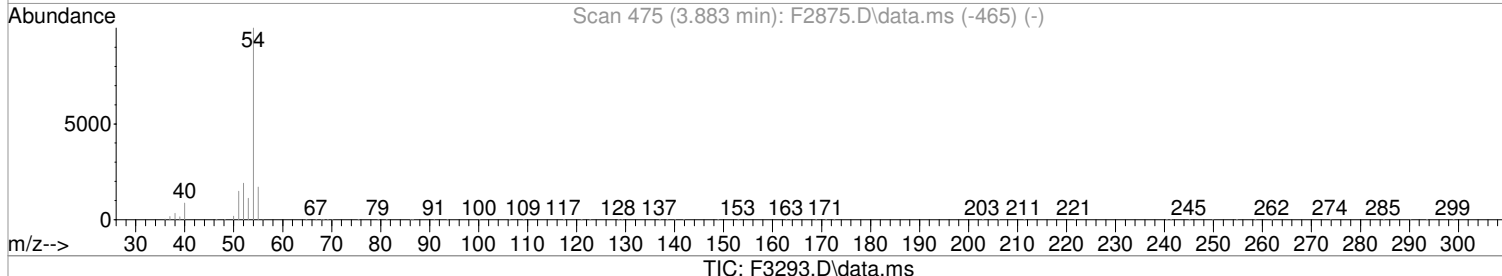
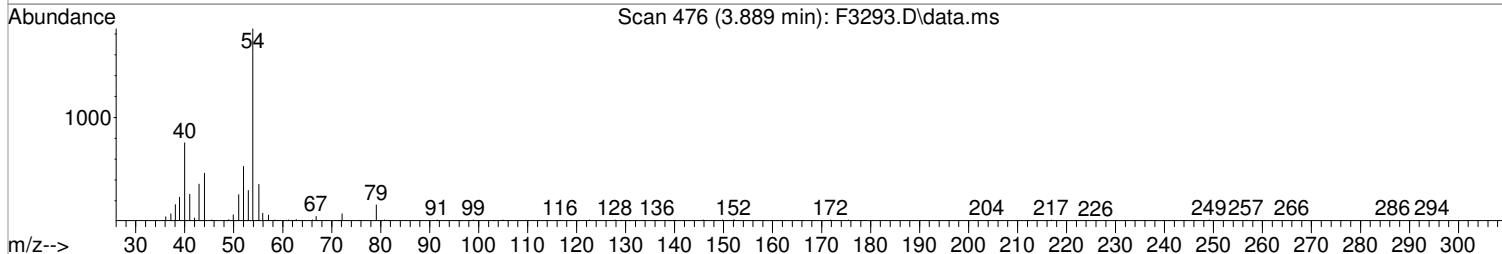
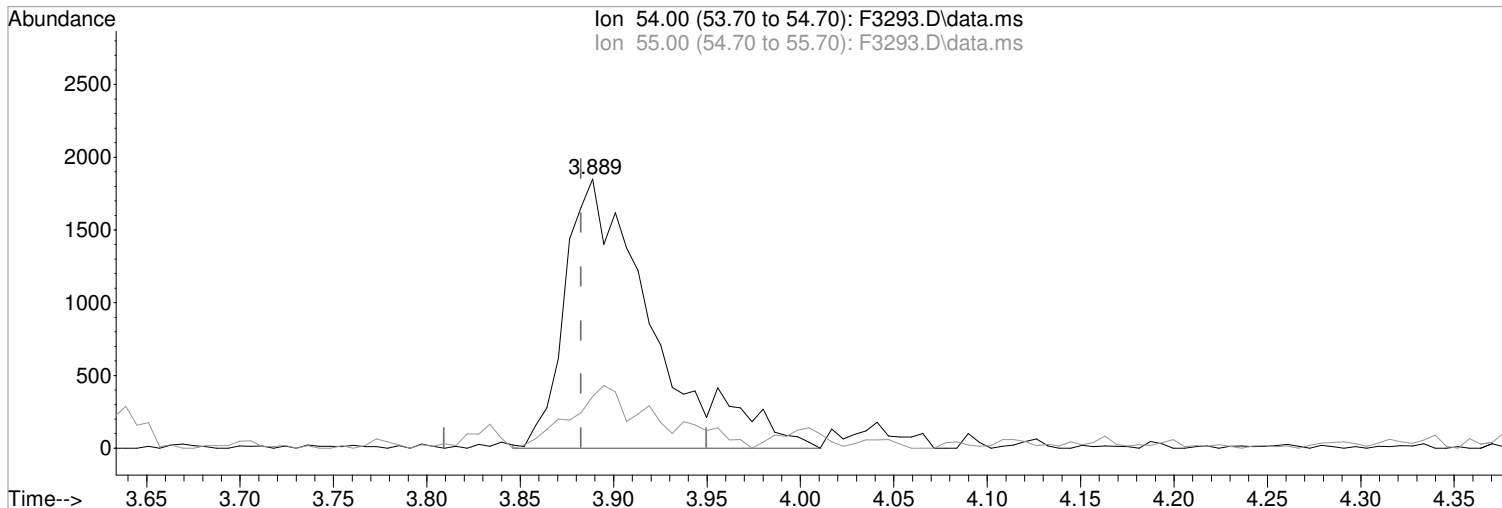
Ion	Exp%	Act%
86.00	100	100
43.00	847.20	818.53#
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3293.D
Acq On : 5 Feb 2021 3:08 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:30:37 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(35) Propionitrile
3.889min (+0.006) 5.64 ug/L m
response 5973

Manual Integration:

After

Poor integration.

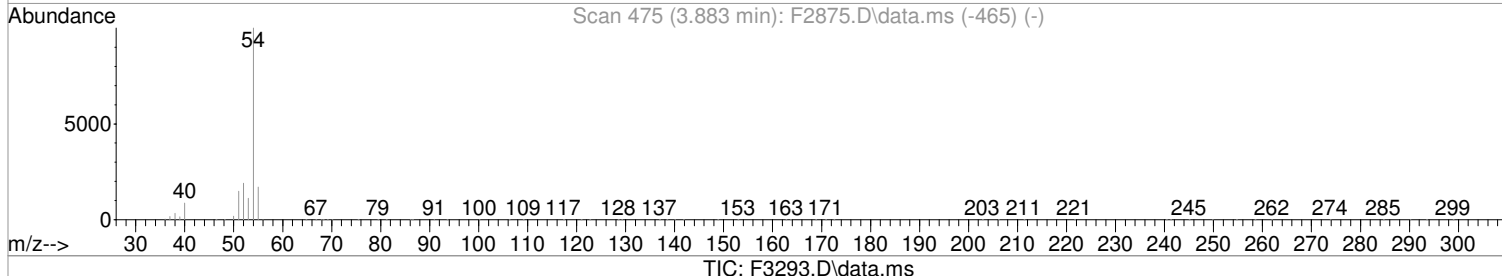
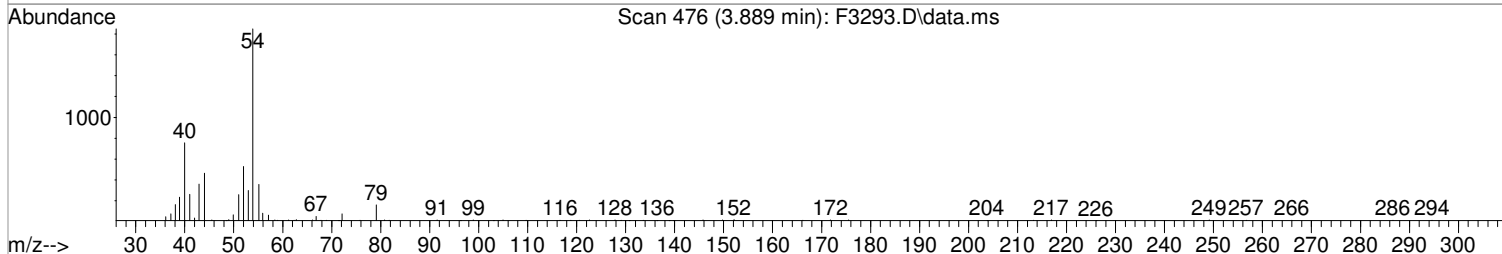
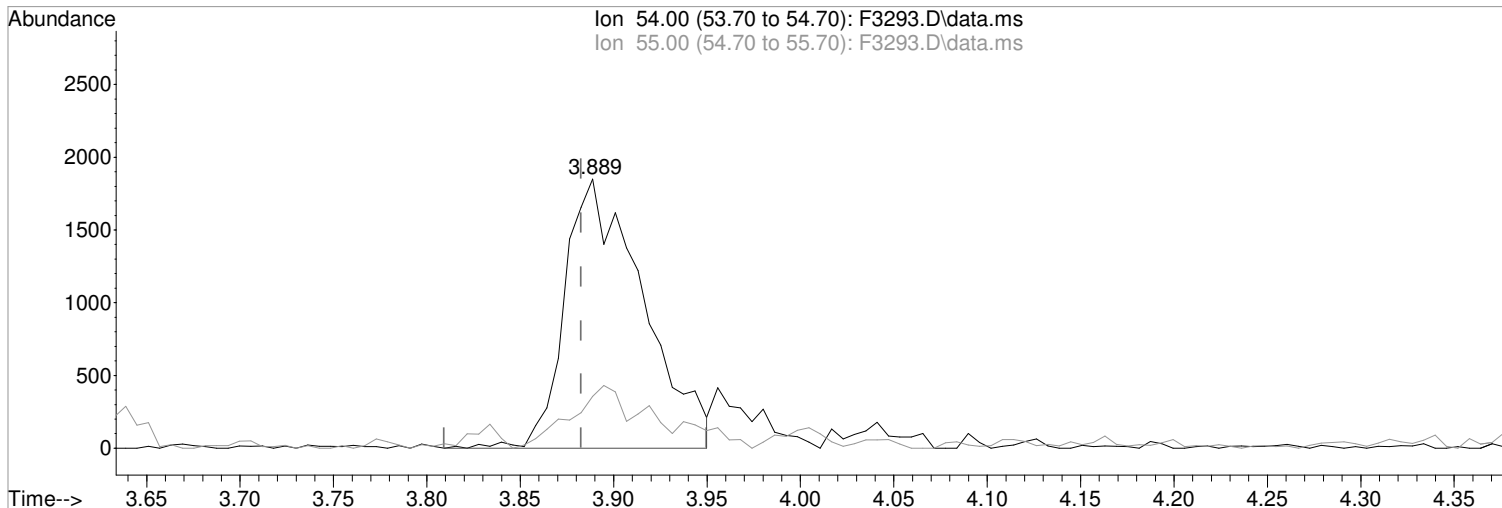
02/05/21

Ion	Exp%	Act%
54.00	100	100
55.00	17.60	19.25
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3293.D
Acq On : 5 Feb 2021 3:08 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:30:37 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(35) Propionitrile
3.889min (+0.006) 5.08 ug/L
response 5375

Manual Integration:
Before

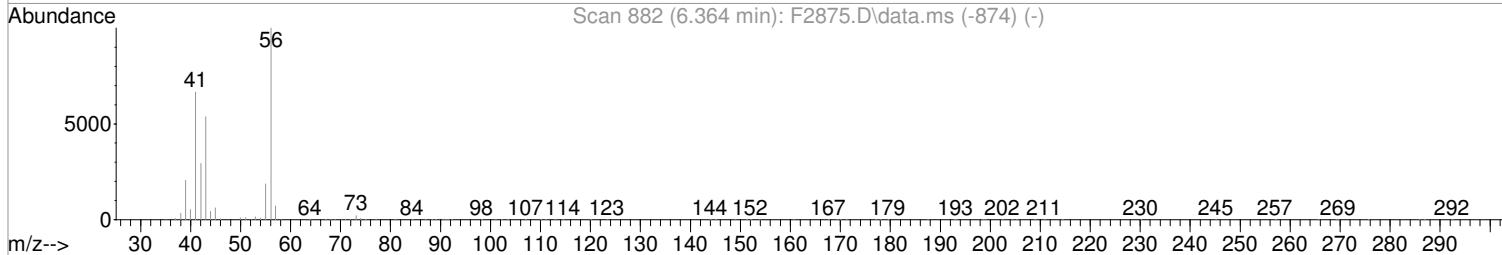
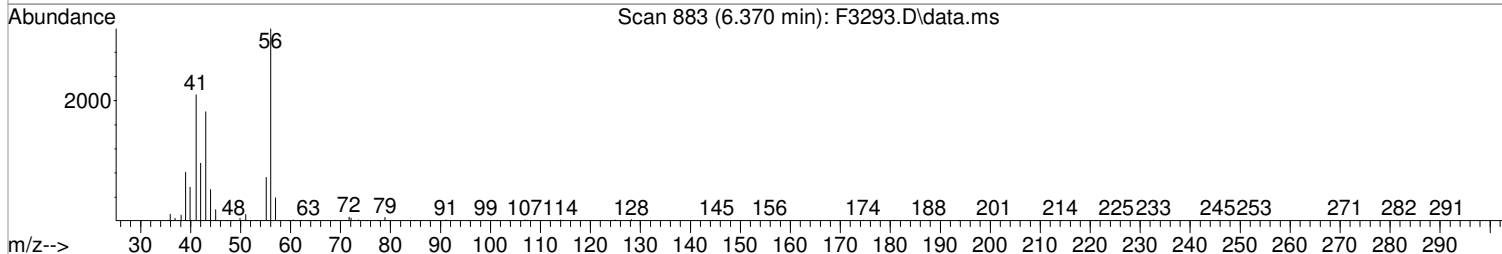
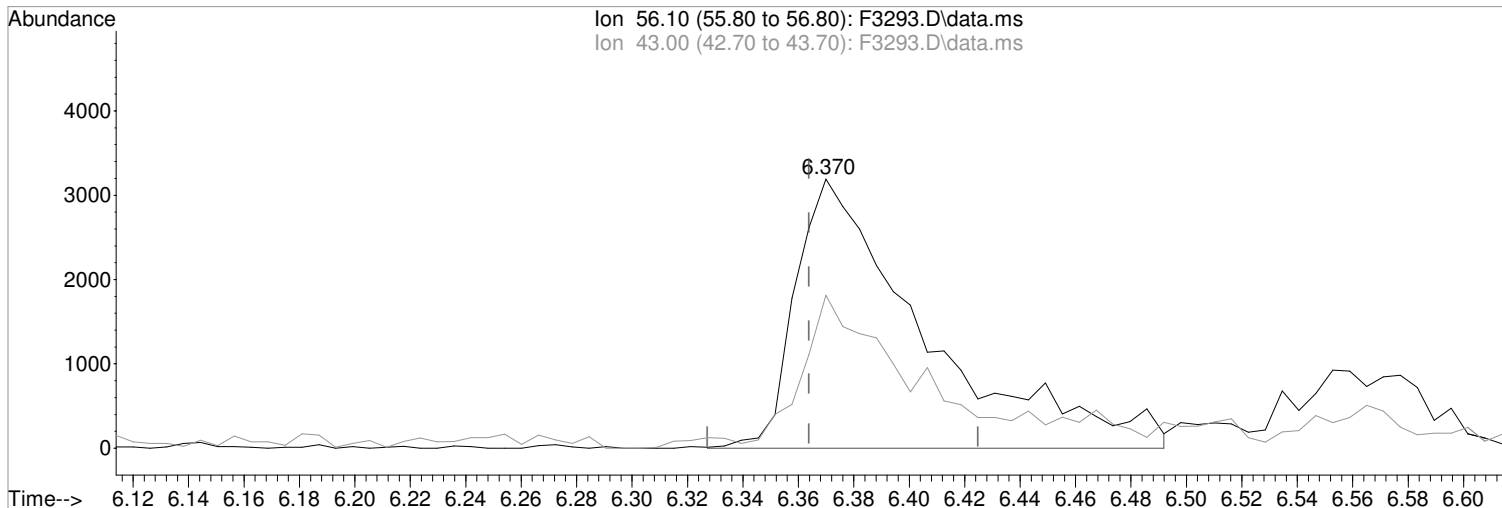
Ion	Exp%	Act%
54.00	100	100
55.00	17.60	19.25
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3293.D
Acq On : 5 Feb 2021 3:08 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:30:37 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3293.D\data.ms

(52) 1-Butanol
6.370min (+0.006) 42.49 ug/L m
response 10358

Manual Integration:
After
Poor integration.

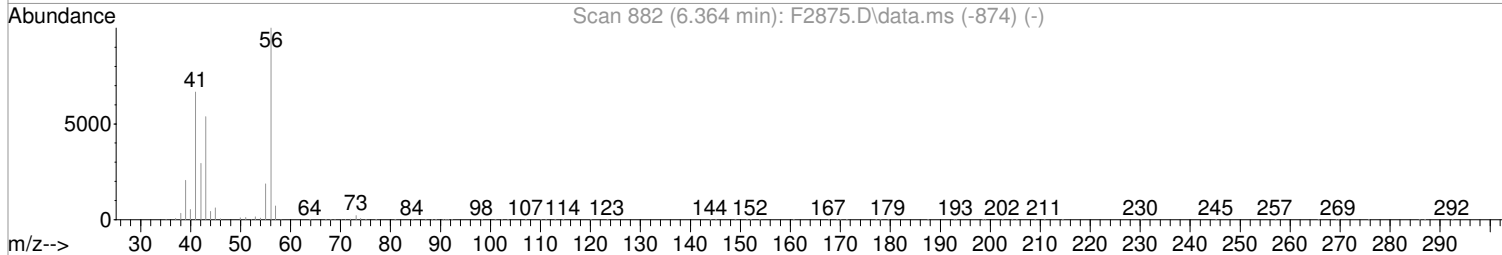
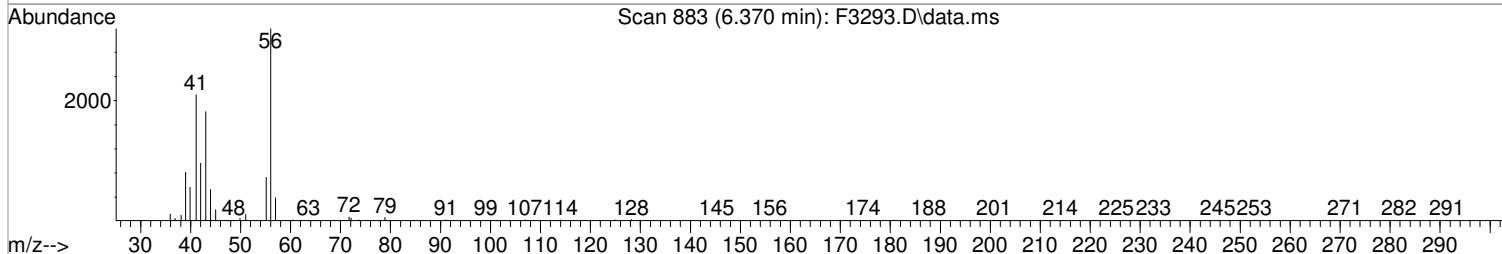
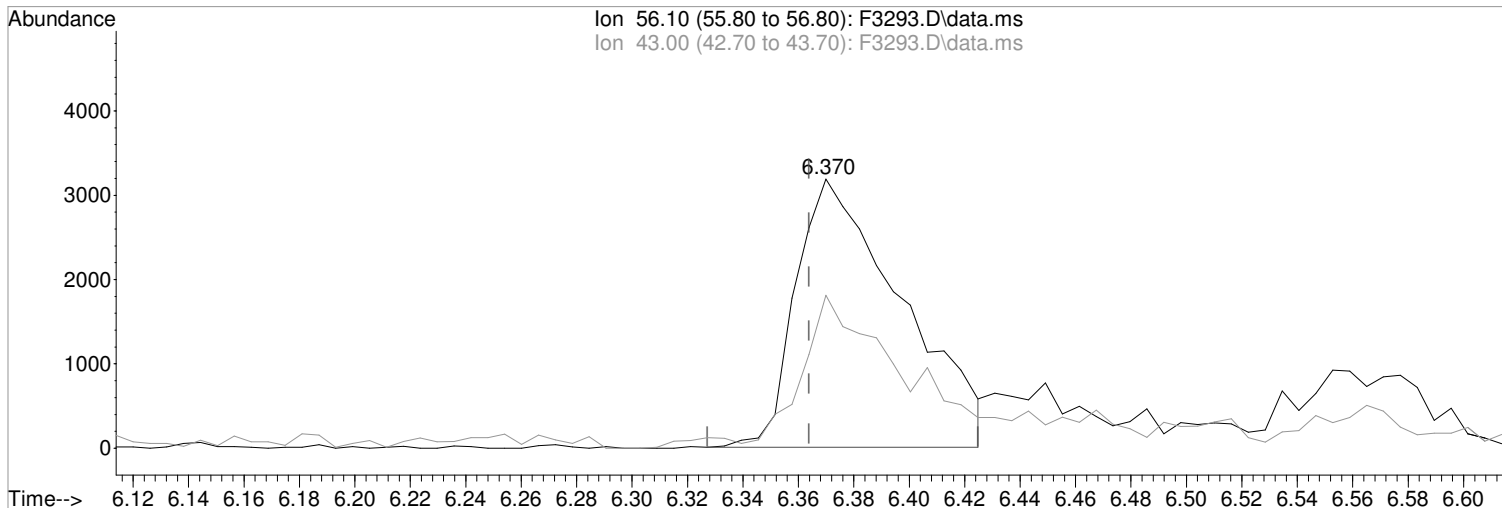
Ion	Exp%	Act%
56.10	100	100
43.00	54.00	56.87
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3293.D
Acq On : 5 Feb 2021 3:08 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 15:30:37 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3293.D\data.ms

(52) 1-Butanol
6.370min (+0.006) 34.59 ug/L
response 8432

Manual Integration:
Before

Ion	Exp%	Act%
56.10	100	100
43.00	54.00	56.87
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3293.D
 Acq On : 5 Feb 2021 3:08 pm
 Operator : F.NAEGLER
 Sample : 1.0 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 05 15:31:56 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	557467	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	772248	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	694361	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	369858	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	54676	10.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 116	Recovery	=	21.24%#
47) surr1,1,2-dichloroetha...	5.120	65	66456	11.85	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	23.70%#
64) SURR3,Toluene-d8	7.943	98	208035	10.94	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	21.88%#
69) SURR2,BFB	10.729	95	73856	10.39	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	20.78%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	5644	0.98	ug/L	86
3) Chloromethane	1.151	50	6309	1.25	ug/L	90
4) Vinyl Chloride	1.212	62	6106	1.07	ug/L	90
5) Bromomethane	1.407	94	7113	1.24	ug/L	89
6) Chloroethane	1.475	64	4202	1.03	ug/L	91
7) Freon 21	1.603	67	9381	1.01	ug/L	98
8) Trichlorofluoromethane	1.645	101	8432	1.00	ug/L	98
9) Diethyl Ether	1.846	59	4104	0.94	ug/L	88
10) Freon 123a	1.846	67	5178	0.91	ug/L	97
11) Freon 123	1.889	83	6084	0.94	ug/L	90
12) Acrolein	1.932	56	6034	5.14	ug/L	93
13) 1,1-Dicethene	2.005	96	3368	1.00	ug/L	96
14) Freon 113	2.017	101	4667	1.10	ug/L	93
15) Acetone	2.048	43	4077	1.88	ug/L	89
16) 2-Propanol	2.157	45	11803	21.21	ug/L	81
17) Iodomethane	2.115	142	4077	0.68	ug/L	92
18) Carbon Disulfide	2.170	76	10874	1.01	ug/L	97
19) Acetonitrile	2.273	41	4499m	8.74	ug/L	
20) Allyl Chloride	2.285	76	2360	1.07	ug/L	# 88
21) Methyl Acetate	2.310	43	6796	1.22	ug/L	97
22) Methylene Chloride	2.389	84	5177	1.07	ug/L	94
23) TBA	2.499	59	21607	21.75	ug/L	93
24) Acrylonitrile	2.602	53	12545	5.22	ug/L	93
25) Methyl-t-Butyl Ether	2.651	73	15933	1.07	ug/L	97
26) trans-1,2-Dichloroethene	2.639	96	4050	1.02	ug/L	94
27) 1,1-Dicethane	3.060	63	8153	1.09	ug/L	92
28) Vinyl Acetate	3.157	86	836m	1.23	ug/L	
29) DIPE	3.175	45	13819	1.13	ug/L	85
30) 2-Chloro-1,3-Butadiene	3.169	53	6175	1.01	ug/L	95
31) ETBE	3.633	59	14449	1.08	ug/L	93
32) 2,2-Dichloropropane	3.785	77	6932	1.01	ug/L	94
33) cis-1,2-Dichloroethene	3.779	96	5211	1.03	ug/L	87
34) 2-Butanone	3.834	43	5025	1.50	ug/L	91
35) Propionitrile	3.889	54	5973m	5.64	ug/L	
36) Bromochloromethane	4.114	130	3947	1.04	ug/L	86
37) Methacrylonitrile	4.126	67	2660	0.96	ug/L	91
38) Tetrahydrofuran	4.212	42	3120	1.47	ug/L	97
39) Chloroform	4.279	83	8202	1.01	ug/L	87
40) 1,1,1-Trichloroethane	4.541	97	7402	1.00	ug/L	93

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3293.D
 Acq On : 5 Feb 2021 3:08 pm
 Operator : F.NAEGLER
 Sample : 1.0 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 05 15:31:56 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	14134	1.02	ug/L	99
43) Cyclohexane	4.632	41	4871	1.37	ug/L	89
45) Carbontetrachloride	4.828	117	6558	1.01	ug/L #	83
46) 1,1-Dichloropropene	4.852	75	6124	1.07	ug/L	94
48) Benzene	5.218	78	18825	1.11	ug/L	87
49) 1,2-Dichloroethane	5.254	62	6679	1.05	ug/L	92
50) Iso-Butyl Alcohol	5.260	43	6693	18.14	ug/L	87
51) n-Heptane	5.803	43	5348	1.17	ug/L	82
52) 1-Butanol	6.370	56	10358m	42.49	ug/L	
53) Trichloroethene	6.297	130	5460	0.94	ug/L	81
54) Methylcyclohexane	6.559	55	6013	1.24	ug/L #	82
55) 1,2-Diclpropane	6.608	63	4880	1.13	ug/L	98
56) Dibromomethane	6.760	93	3574	1.00	ug/L #	86
57) 1,4-Dioxane	6.858	88	2794	23.38	ug/L	91
58) Methyl Methacrylate	6.888	69	4397	1.06	ug/L	88
59) Bromodichloromethane	7.022	83	6274	0.98	ug/L	100
60) 2-Nitropropane	7.333	41	3639	2.17	ug/L	83
61) 2-Chloroethylvinyl Ether	7.492	63	3187	1.04	ug/L	90
62) cis-1,3-Dichloropropene	7.626	75	7118	1.00	ug/L	93
63) 4-Methyl-2-pentanone	7.864	43	6757	1.07	ug/L	95
65) Toluene	8.022	91	20340	1.04	ug/L	91
66) trans-1,3-Dichloropropene	8.327	75	5905	0.87	ug/L	85
67) Ethyl Methacrylate	8.504	69	6896	0.99	ug/L	90
68) 1,1,2-Trichloroethane	8.522	97	5275	1.09	ug/L	92
71) Tetrachloroethene	8.668	164	4271	1.00	ug/L	87
72) 2-Hexanone	8.876	43	5691	1.23	ug/L	78
73) 1,3-Dichloropropane	8.711	76	8156	1.08	ug/L	98
74) Dibromochloromethane	8.961	129	4709	0.86	ug/L	87
75) N-Butyl Acetate	9.052	43	10482	1.28	ug/L	94
76) 1,2-Dibromoethane	9.058	107	4884	0.93	ug/L	85
77) 3-Chlorobenzotrifluoride	9.650	180	8085	0.99	ug/L	94
78) Chlorobenzene	9.607	112	14331	1.06	ug/L	90
79) 4-Chlorobenzotrifluoride	9.711	180	7242	1.00	ug/L	90
80) 1,1,1,2-Tetrachloroethane	9.705	131	4843	0.95	ug/L	86
81) Ethylbenzene	9.747	106	6966	1.04	ug/L	99
82) (m+p)Xylene	9.869	106	16842	1.99	ug/L	97
83) o-Xylene	10.247	106	7834	0.93	ug/L	93
84) Styrene	10.265	104	12931	0.92	ug/L	94
85) Bromoform	10.406	173	3525	0.81	ug/L	90
86) 2-Chlorobenzotrifluoride	10.509	180	7724	0.95	ug/L	94
87) Isopropylbenzene	10.601	105	20950	0.99	ug/L	93
88) Cyclohexanone	10.656	55	25590	19.67	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.936	53	1810	1.10	ug/L	79
91) 1,1,2,2-Tetrachloroethane	10.881	83	6705	1.06	ug/L	91
92) Bromobenzene	10.851	156	6068	0.96	ug/L	96
93) 1,2,3-Trichloropropane	10.900	110	2663	1.05	ug/L #	88
94) n-Propylbenzene	10.979	91	24082	1.03	ug/L	100
95) 2-Chlorotoluene	11.034	91	14791	1.02	ug/L	98
96) 3-Chlorotoluene	11.088	91	15031	1.01	ug/L	94
97) 4-Chlorotoluene	11.131	91	16888	1.02	ug/L	87
98) 1,3,5-Trimethylbenzene	11.143	105	17436	0.98	ug/L	91
99) tert-Butylbenzene	11.418	119	15687	1.02	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	17343	0.99	ug/L	94
101) 3,4-Dichlorobenzotrifl...	11.527	214	6703	1.06	ug/L	93
102) sec-Butylbenzene	11.607	105	21314	0.98	ug/L	99
103) p-Isopropyltoluene	11.741	119	17420	0.90	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3293.D
 Acq On : 5 Feb 2021 3:08 pm
 Operator : F.NAEGLER
 Sample : 1.0 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 05 15:31:56 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

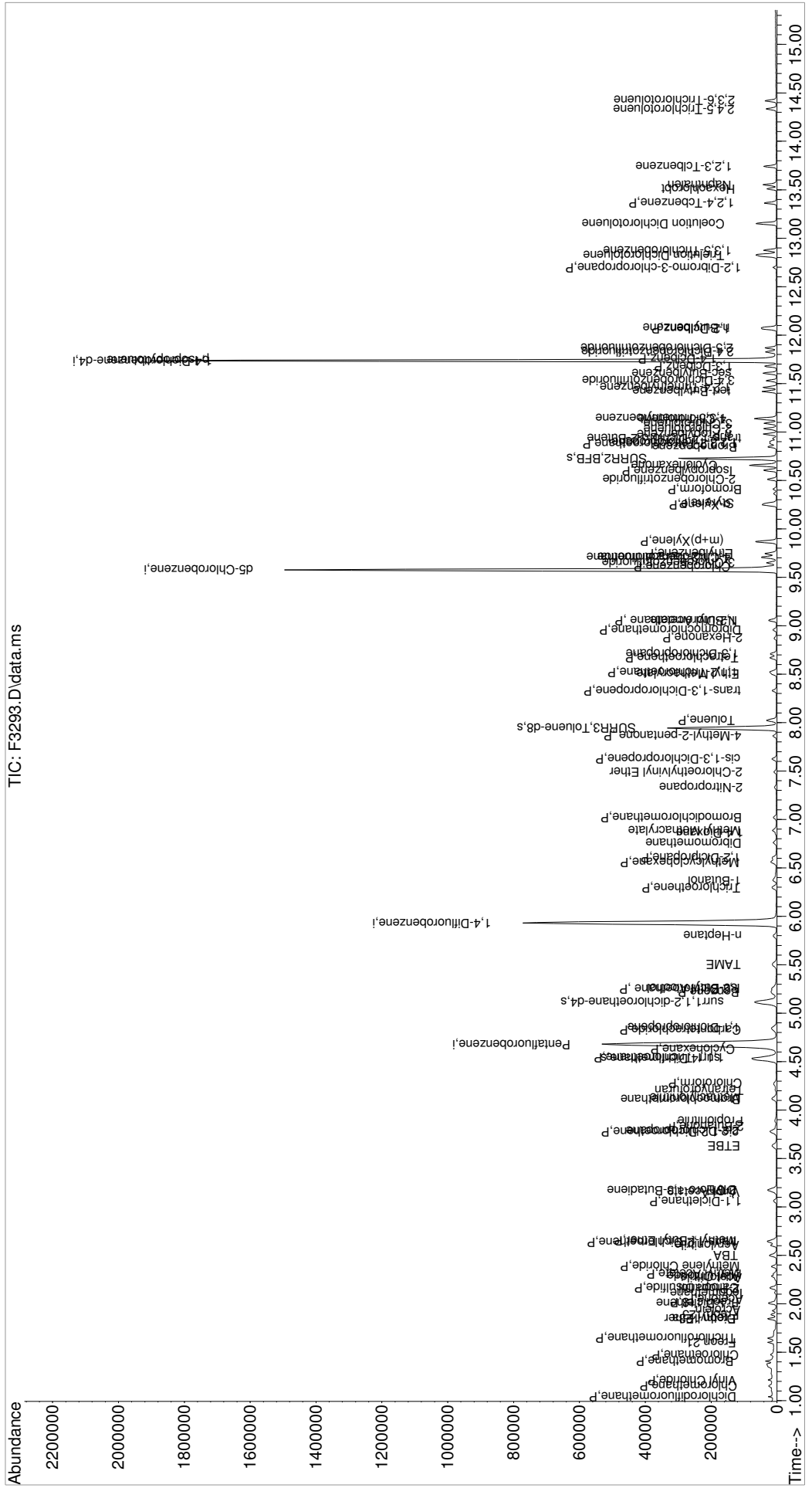
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	11861	1.04	ug/L	94
105) 1,4-Dclbenz	11.759	146	12490	1.05	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.826	214	6351	1.11	ug/L	90
107) 2,5-Dichlorobenzotrifl...	11.869	214	6659	1.04	ug/L	85
108) n-Butylbenzene	12.076	91	15828	0.99	ug/L	97
109) 1,2-Dclbenz	12.064	146	12423	1.08	ug/L	89
110) 1,2-Dibromo-3-chloropr...	12.698	157	2092	0.94	ug/L #	76
111) Trielution Dichlorotol...	12.826	125	28978	3.02	ug/L	99
112) 1,3,5-Trichlorobenzene	12.875	180	9643	1.10	ug/L	98
113) Coelution Dichlorotoluene	13.149	125	21376	2.10	ug/L	87
114) 1,2,4-Tcbenzene	13.369	180	9031	1.13	ug/L	94
115) Hexachlorobt	13.509	225	4352	1.20	ug/L	97
116) Naphthalen	13.551	128	26533	1.23	ug/L	96
117) 1,2,3-Tclbenzene	13.740	180	9826	1.23	ug/L	96
118) 2,4,5-Trichlorotoluene	14.332	159	6769	1.57	ug/L	85
119) 2,3,6-Trichlorotoluene	14.423	159	6455	1.53	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3293.D
 Acq On : 5 Feb 2021 3:08 pm
 Operator : F.NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

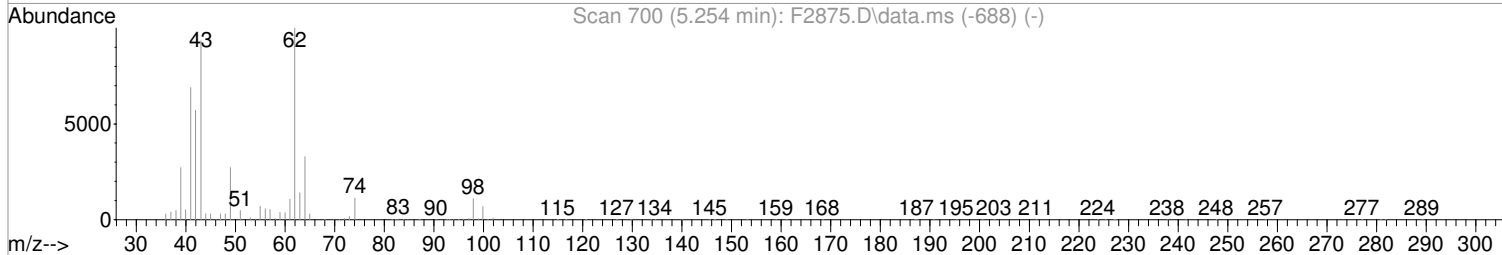
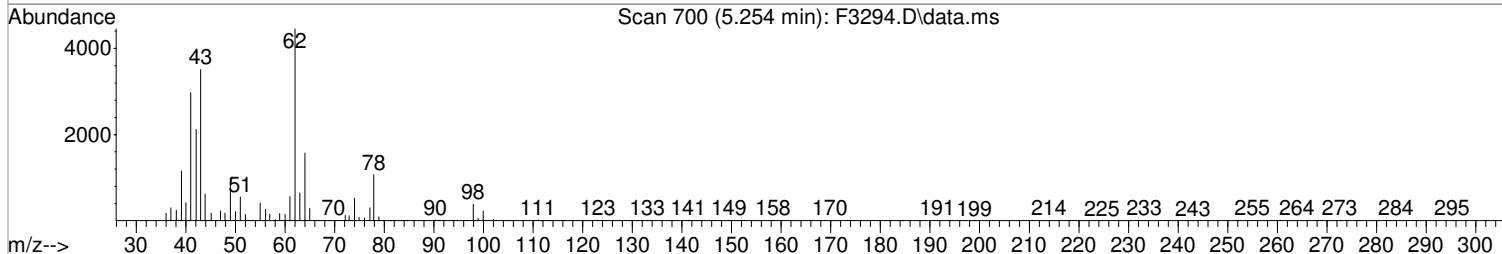
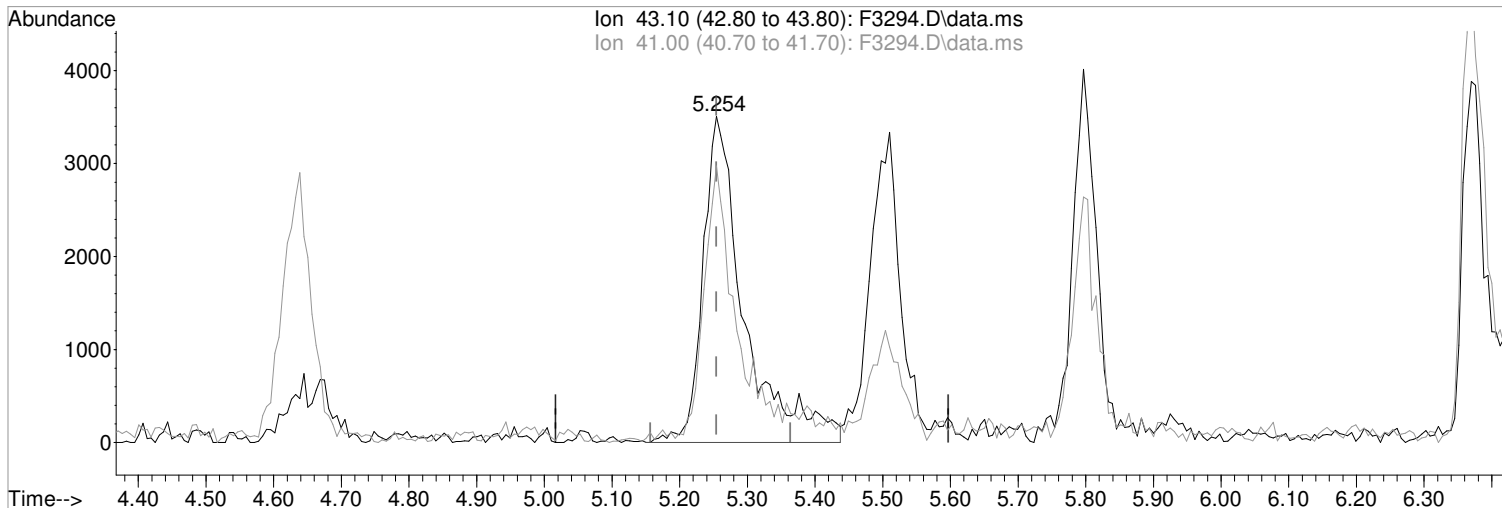
Quant Time: Feb 05 15:31:56 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3294.D
Acq On : 5 Feb 2021 3:30 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 16:04:26 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3294.D\data.ms

(50) Iso-Butyl Alcohol
5.254min (-0.000) 40.44 ug/L m
response 14856

Manual Integration:

After

Poor integration.

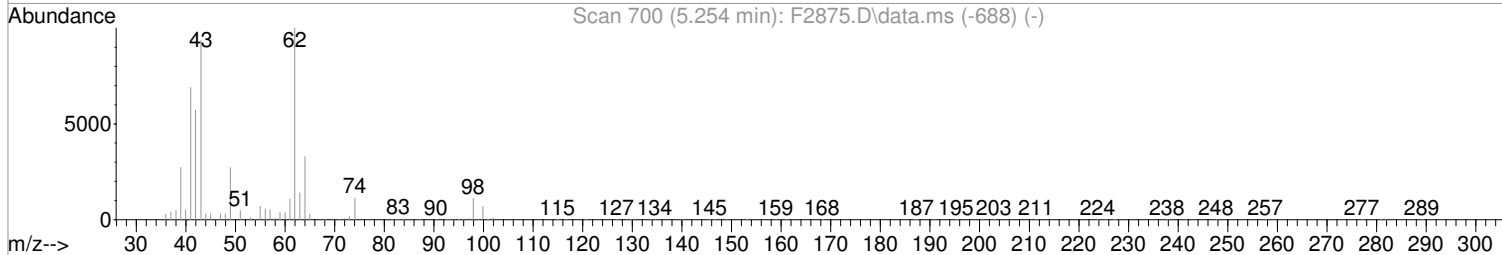
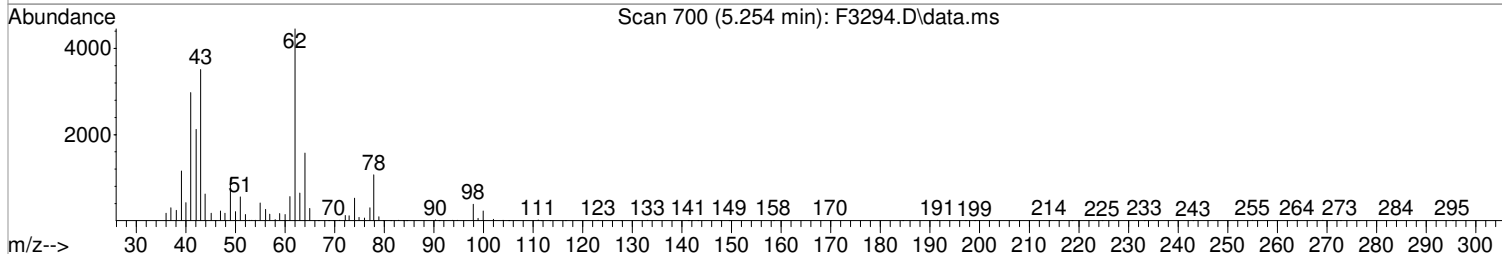
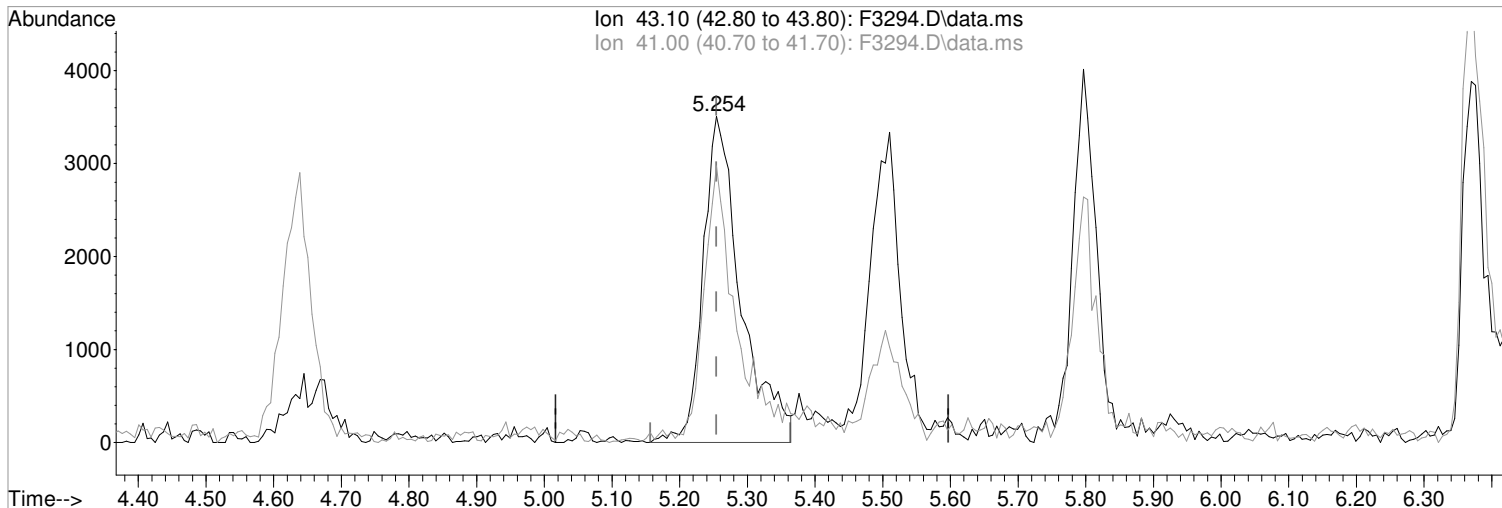
02/05/21

Ion	Exp%	Act%
43.10	100	100
41.00	74.00	84.75
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3294.D
Acq On : 5 Feb 2021 3:30 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 16:04:26 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



TIC: F3294.D\data.ms

(50) Iso-Butyl Alcohol
5.254min (-0.000) 37.03 ug/L
response 13602

Manual Integration:
Before

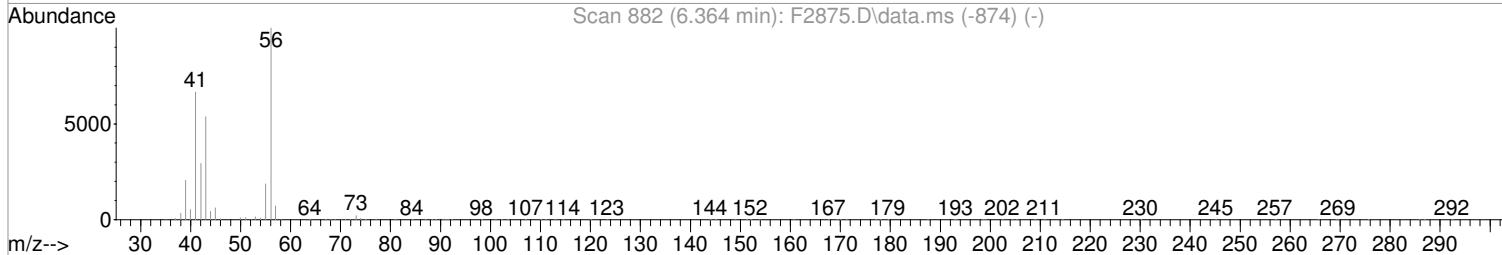
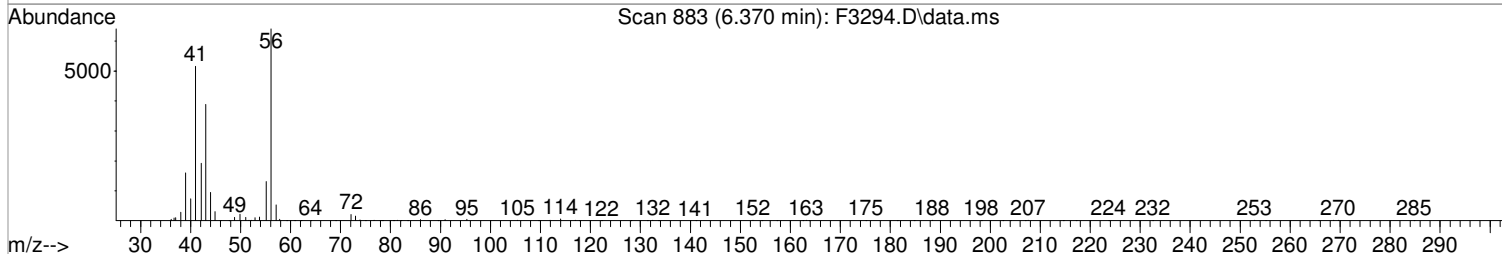
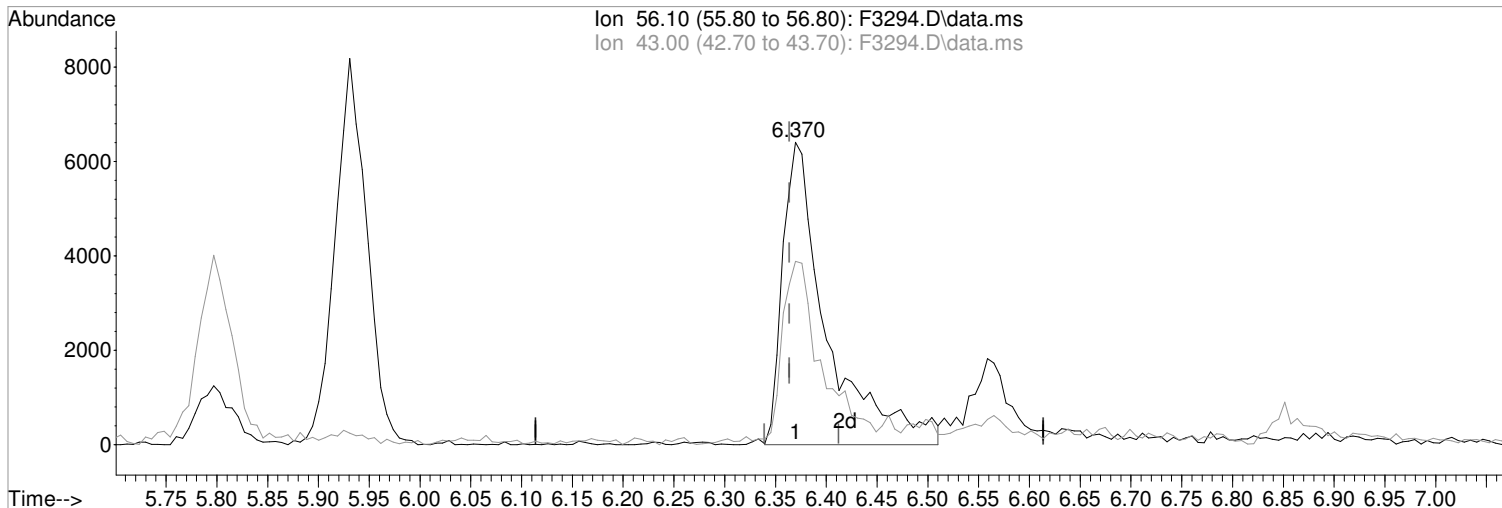
Ion	Exp%	Act%
43.10	100	100
41.00	74.00	84.75
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3294.D
 Acq On : 5 Feb 2021 3:30 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 16:04:26 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



TIC: F3294.D\data.ms

(52) 1-Butanol
 6.370min (+0.006) 80.62 ug/L m
 response 19568

Manual Integration:
 After
 Poor integration.

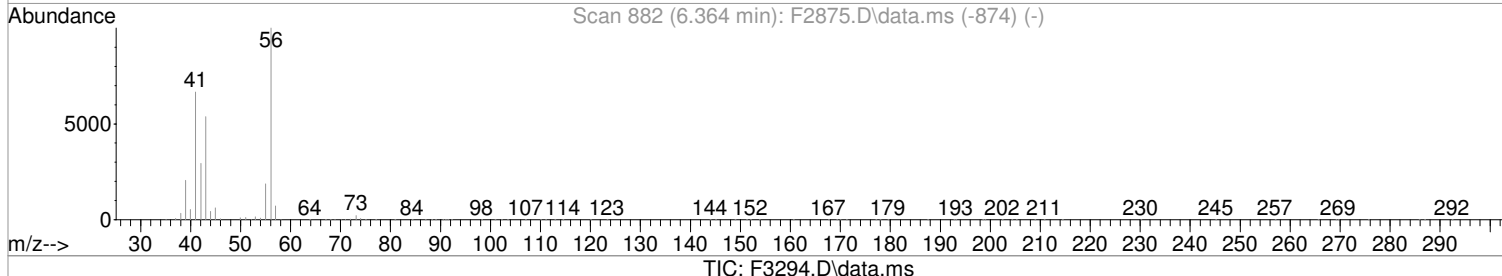
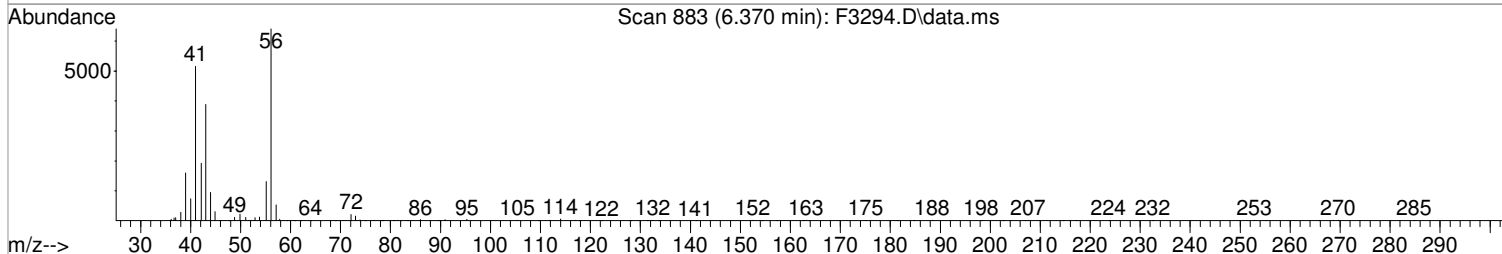
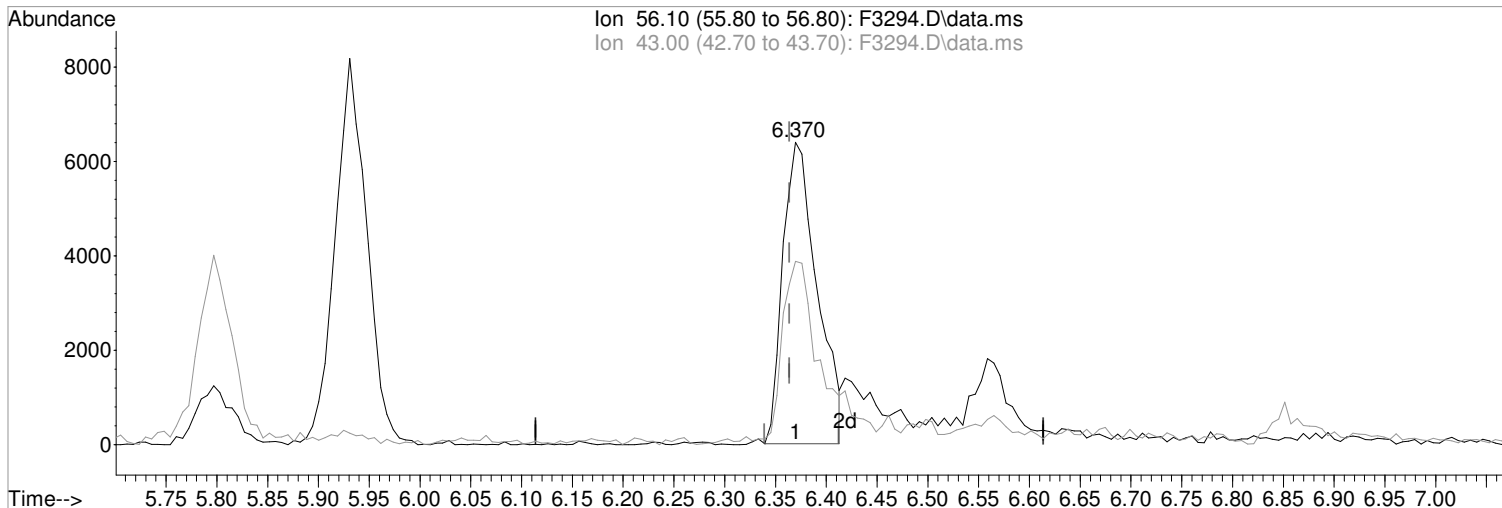
Ion	Exp%	Act%
56.10	100	100
43.00	54.00	60.60
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3294.D
Acq On : 5 Feb 2021 3:30 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 16:04:26 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(52) 1-Butanol
6.370min (+0.006) 61.68 ug/L
response 14972

Manual Integration:
Before

Ion	Exp%	Act%
56.10	100	100
43.00	54.00	60.60
0.00	0.00	0.00
0.00	0.00	0.00

02/05/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3294.D
 Acq On : 5 Feb 2021 3:30 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 16:05:31 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.681	168	553375	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.931	114	769000	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.576	117	696946	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.735	152	367807	50.00	ug/L	0.00	
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.529	113	53538	10.45	ug/L	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery =	20.90%#			
47) surr1,1,2-dichloroetha...	5.114	65	64715	11.59	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	23.18%#			
64) SURR3,Toluene-d8	7.943	98	202118	10.67	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	21.34%#			
69) SURR2,BFB	10.729	95	73926	10.44	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	20.88%#			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	9563	1.68	ug/L		96
3) Chloromethane	1.151	50	9911	1.98	ug/L		95
4) Vinyl Chloride	1.212	62	10407	1.83	ug/L		94
5) Bromomethane	1.407	94	11318	1.98	ug/L		83
6) Chloroethane	1.474	64	6760	1.67	ug/L		97
7) Freon 21	1.602	67	16716	1.80	ug/L		92
8) Trichlorofluoromethane	1.645	101	14665	1.76	ug/L		98
9) Diethyl Ether	1.846	59	7318	1.68	ug/L		93
10) Freon 123a	1.840	67	9857	1.75	ug/L		85
11) Freon 123	1.889	83	10916	1.70	ug/L		91
12) Acrolein	1.926	56	11818	10.15	ug/L		96
13) 1,1-Dicethene	2.005	96	5872	1.75	ug/L #		78
14) Freon 113	2.011	101	7570	1.80	ug/L		96
15) Acetone	2.047	43	5274	2.45	ug/L		92
16) 2-Propanol	2.157	45	24372	44.13	ug/L		99
17) Iodomethane	2.115	142	6532	1.10	ug/L		99
18) Carbon Disulfide	2.169	76	19633	1.84	ug/L		99
19) Acetonitrile	2.261	41	8495	16.63	ug/L		90
20) Allyl Chloride	2.285	76	4393	2.01	ug/L		93
21) Methyl Acetate	2.310	43	12518	2.27	ug/L		97
22) Methylene Chloride	2.389	84	9153	1.90	ug/L		95
23) TBA	2.499	59	41623	42.21	ug/L		94
24) Acrylonitrile	2.608	53	23024	9.66	ug/L		98
25) Methyl-t-Butyl Ether	2.651	73	27953	1.88	ug/L		97
26) trans-1,2-Dichloroethene	2.639	96	7156	1.81	ug/L		90
27) 1,1-Dicethane	3.059	63	13927	1.87	ug/L		90
28) Vinyl Acetate	3.151	86	1387	2.05	ug/L #		52
29) DIPE	3.175	45	24683	2.03	ug/L		89
30) 2-Chloro-1,3-Butadiene	3.169	53	11110	1.83	ug/L		97
31) ETBE	3.626	59	25171	1.89	ug/L		94
32) 2,2-Dichloropropane	3.779	77	12447	1.82	ug/L		91
33) cis-1,2-Dichloroethene	3.785	96	9071	1.81	ug/L		98
34) 2-Butanone	3.828	43	8262	2.48	ug/L		95
35) Propionitrile	3.882	54	10796	10.27	ug/L		94
36) Bromochloromethane	4.114	130	6379	1.70	ug/L		85
37) Methacrylonitrile	4.126	67	4927	1.78	ug/L #		83
38) Tetrahydrofuran	4.212	42	5592	2.65	ug/L		92
39) Chloroform	4.267	83	15315	1.89	ug/L		93
40) 1,1,1-Trichloroethane	4.541	97	13153	1.78	ug/L		97

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3294.D
 Acq On : 5 Feb 2021 3:30 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 16:05:31 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	25125	1.82	ug/L	92
43) Cyclohexane	4.638	41	8067	2.28	ug/L	82
45) Carbontetrachloride	4.840	117	11119	1.73	ug/L	94
46) 1,1-Dichloropropene	4.846	75	11090	1.95	ug/L	93
48) Benzene	5.212	78	32733	1.94	ug/L	98
49) 1,2-Dichloroethane	5.254	62	12581	1.99	ug/L	93
50) Iso-Butyl Alcohol	5.254	43	14856m	40.44	ug/L	
51) n-Heptane	5.797	43	10128	2.22	ug/L	79
52) 1-Butanol	6.370	56	19568m	80.62	ug/L	
53) Trichloroethene	6.291	130	9997	1.73	ug/L	90
54) Methylcyclohexane	6.559	55	10305	2.13	ug/L	89
55) 1,2-Diclpropane	6.601	63	7961	1.85	ug/L	94
56) Dibromomethane	6.760	93	6616	1.86	ug/L #	86
57) 1,4-Dioxane	6.845	88	4674	39.28	ug/L	94
58) Methyl Methacrylate	6.888	69	8088	1.95	ug/L	91
59) Bromodichloromethane	7.022	83	11567	1.82	ug/L	95
60) 2-Nitropropane	7.333	41	7656	4.59	ug/L #	79
61) 2-Chloroethylvinyl Ether	7.485	63	5991	1.96	ug/L	83
62) cis-1,3-Dichloropropene	7.626	75	13083	1.85	ug/L	92
63) 4-Methyl-2-pentanone	7.857	43	13259	2.10	ug/L	96
65) Toluene	8.022	91	36145	1.85	ug/L	100
66) trans-1,3-Dichloropropene	8.327	75	11679	1.73	ug/L	94
67) Ethyl Methacrylate	8.504	69	12290	1.77	ug/L	89
68) 1,1,2-Trichloroethane	8.528	97	8965	1.85	ug/L	96
71) Tetrachloroethene	8.668	164	8509	1.98	ug/L	91
72) 2-Hexanone	8.869	43	8970	1.94	ug/L	94
73) 1,3-Dichloropropane	8.711	76	15092	1.99	ug/L	86
74) Dibromochloromethane	8.961	129	8830	1.61	ug/L	96
75) N-Butyl Acetate	9.052	43	17908	2.17	ug/L	92
76) 1,2-Dibromoethane	9.058	107	9029	1.71	ug/L	93
77) 3-Chlorobenzotrifluoride	9.650	180	14687	1.79	ug/L	92
78) Chlorobenzene	9.607	112	25555	1.88	ug/L	96
79) 4-Chlorobenzotrifluoride	9.711	180	12925	1.77	ug/L	91
80) 1,1,1,2-Tetrachloroethane	9.705	131	8973	1.75	ug/L	96
81) Ethylbenzene	9.747	106	12037	1.79	ug/L	91
82) (m+p)Xylene	9.869	106	30102	3.54	ug/L	90
83) o-Xylene	10.247	106	14954	1.77	ug/L	98
84) Styrene	10.259	104	22635	1.61	ug/L	98
85) Bromoform	10.412	173	6481	1.49	ug/L	96
86) 2-Chlorobenzotrifluoride	10.509	180	14234	1.74	ug/L	87
87) Isopropylbenzene	10.607	105	37597	1.78	ug/L	99
88) Cyclohexanone	10.656	55	48916	37.46	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.930	53	3164	1.91	ug/L #	74
91) 1,1,2,2-Tetrachloroethane	10.881	83	12520	1.99	ug/L	94
92) Bromobenzene	10.845	156	11111	1.77	ug/L #	75
93) 1,2,3-Trichloropropane	10.899	110	4963	1.97	ug/L #	82
94) n-Propylbenzene	10.979	91	43326	1.86	ug/L	95
95) 2-Chlorotoluene	11.034	91	26109	1.80	ug/L	98
96) 3-Chlorotoluene	11.088	91	27385	1.84	ug/L	97
97) 4-Chlorotoluene	11.131	91	30914	1.88	ug/L	94
98) 1,3,5-Trimethylbenzene	11.143	105	31522	1.79	ug/L	98
99) tert-Butylbenzene	11.418	119	27399	1.79	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	31500	1.80	ug/L	96
101) 3,4-Dichlorobenzotrifl...	11.533	214	11390	1.80	ug/L	93
102) sec-Butylbenzene	11.607	105	38467	1.77	ug/L	95
103) p-Isopropyltoluene	11.735	119	33440	1.74	ug/L	92

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3294.D
 Acq On : 5 Feb 2021 3:30 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 05 16:05:31 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

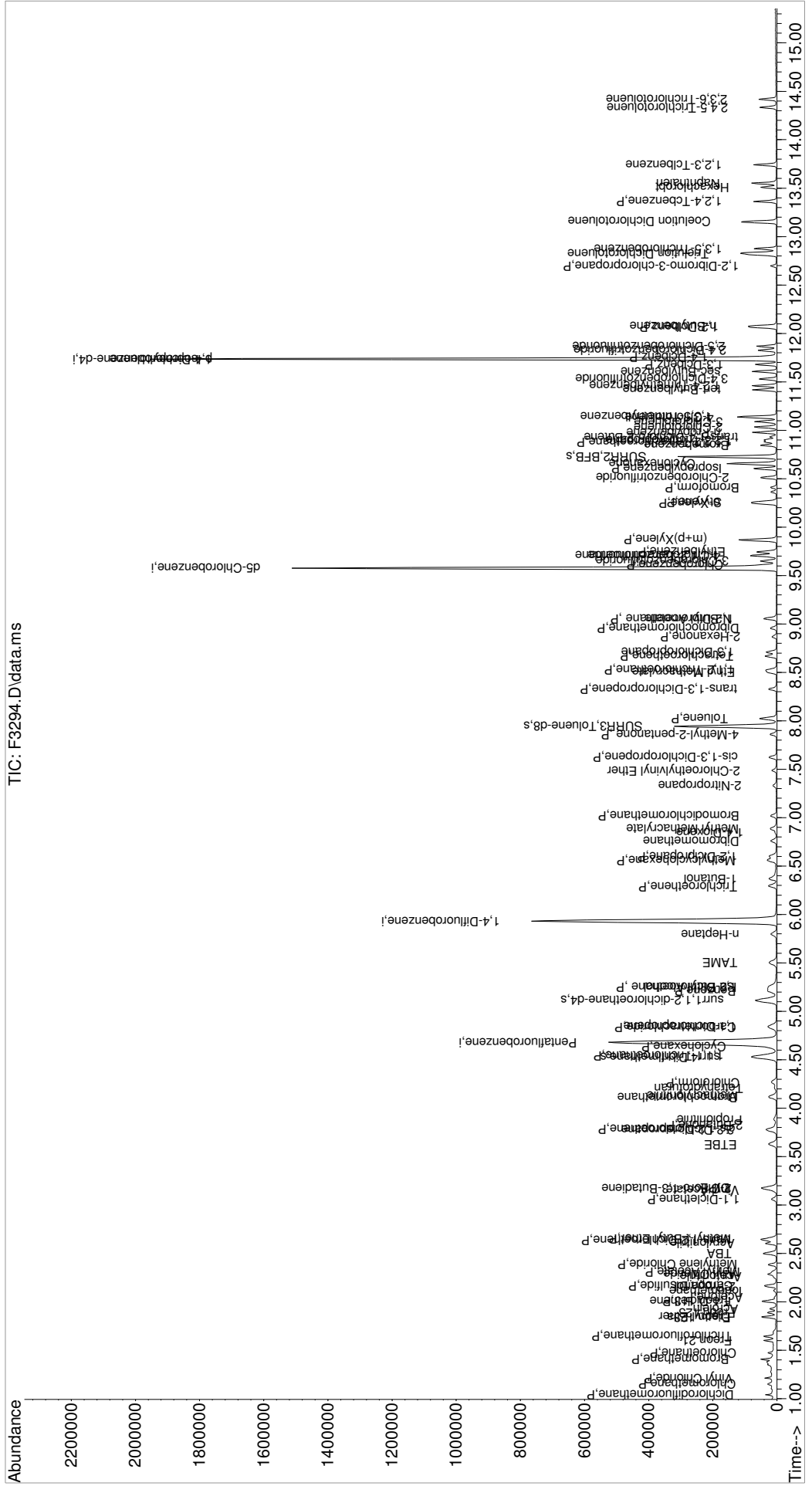
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	21182	1.87	ug/L	96
105) 1,4-Dclbenz	11.759	146	21948	1.86	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.826	214	10851	1.91	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.869	214	11768	1.85	ug/L	98
108) n-Butylbenzene	12.076	91	29043	1.83	ug/L	95
109) 1,2-Dclbenz	12.064	146	21422	1.88	ug/L	96
110) 1,2-Dibromo-3-chloropr...	12.698	157	3504	1.58	ug/L	85
111) Trielution Dichlorotol...	12.826	125	51935	5.44	ug/L	96
112) 1,3,5-Trichlorobenzene	12.875	180	17482	2.00	ug/L	93
113) Coelution Dichlorotoluene	13.155	125	39345	3.88	ug/L	97
114) 1,2,4-Tcbenzene	13.362	180	15915	1.99	ug/L	99
115) Hexachlorobt	13.509	225	7151	1.98	ug/L	93
116) Naphthalen	13.551	128	47395	2.21	ug/L	98
117) 1,2,3-Tclbenzene	13.740	180	16796	2.12	ug/L	96
118) 2,4,5-Trichlorotoluene	14.332	159	11017	2.57	ug/L	97
119) 2,3,6-Trichlorotoluene	14.417	159	10678	2.54	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3294.D
 Acq On : 5 Feb 2021 3:30 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 16:05:31 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3295.D
 Acq On : 5 Feb 2021 3:52 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 16:08:41 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.675	168	550797	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	731442	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	681120	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	364302	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	53945	11.07	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	22.14%#		
47) surr1,1,2-dichloroetha...	5.114	65	65544	12.34	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	24.68%#		
64) SURR3,Toluene-d8	7.943	98	199693	11.09	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	22.18%#		
69) SURR2,BFB	10.729	95	73372	10.90	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	21.80%#		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	28124	4.96	ug/L	99
3) Chloromethane	1.151	50	27271	5.46	ug/L	97
4) Vinyl Chloride	1.212	62	31580	5.58	ug/L	99
5) Bromomethane	1.401	94	25974	4.57	ug/L	99
6) Chloroethane	1.468	64	19338	4.81	ug/L	100
7) Freon 21	1.596	67	48813	5.29	ug/L	98
8) Trichlorofluoromethane	1.639	101	44707	5.39	ug/L	96
9) Diethyl Ether	1.840	59	21906	5.06	ug/L	92
10) Freon 123a	1.840	67	27420	4.89	ug/L	97
11) Freon 123	1.889	83	31992	4.99	ug/L	99
12) Acrolein	1.926	56	37511	32.35	ug/L	96
13) 1,1-Dicethene	2.005	96	17610	5.28	ug/L	95
14) Freon 113	2.011	101	22175	5.30	ug/L	94
15) Acetone	2.041	43	14672	6.84	ug/L	95
16) 2-Propanol	2.163	45	71270	129.64	ug/L	96
17) Iodomethane	2.115	142	23105	3.89	ug/L	98
18) Carbon Disulfide	2.169	76	54854	5.16	ug/L	99
19) Acetonitrile	2.255	41	22426	44.11	ug/L	99
20) Allyl Chloride	2.285	76	12878	5.91	ug/L	94
21) Methyl Acetate	2.310	43	36398	6.62	ug/L	98
22) Methylene Chloride	2.383	84	26024	5.42	ug/L	88
23) TBA	2.505	59	120433	122.71	ug/L	95
24) Acrylonitrile	2.602	53	73331	30.90	ug/L	96
25) Methyl-t-Butyl Ether	2.651	73	83136	5.63	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	20849	5.29	ug/L	88
27) 1,1-Dicethane	3.060	63	42392	5.73	ug/L	93
28) Vinyl Acetate	3.145	86	4489	6.66	ug/L #	64
29) DIPE	3.181	45	72468	6.00	ug/L	95
30) 2-Chloro-1,3-Butadiene	3.169	53	33630	5.57	ug/L	99
31) ETBE	3.627	59	72848	5.50	ug/L	96
32) 2,2-Dichloropropane	3.773	77	37079	5.44	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	26517	5.31	ug/L	93
34) 2-Butanone	3.822	43	22164	6.68	ug/L	96
35) Propionitrile	3.883	54	32835	31.39	ug/L	97
36) Bromochloromethane	4.108	130	19240	5.15	ug/L	86
37) Methacrylonitrile	4.120	67	14923	5.43	ug/L	95
38) Tetrahydrofuran	4.206	42	13186	6.27	ug/L	93
39) Chloroform	4.267	83	42795	5.31	ug/L	94
40) 1,1,1-Trichloroethane	4.547	97	38026	5.18	ug/L	93

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3295.D
 Acq On : 5 Feb 2021 3:52 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 16:08:41 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	70041	5.10	ug/L	93
43) Cyclohexane	4.626	41	23247	6.91	ug/L	94
45) Carbontetrachloride	4.827	117	32221	5.26	ug/L	96
46) 1,1-Dichloropropene	4.846	75	32057	5.93	ug/L	98
48) Benzene	5.212	78	94911	5.91	ug/L	96
49) 1,2-Dichloroethane	5.254	62	35542	5.92	ug/L	94
50) Iso-Butyl Alcohol	5.254	43	43133	123.44	ug/L	99
51) n-Heptane	5.797	43	24698	5.70	ug/L	96
52) 1-Butanol	6.364	56	59197	256.41	ug/L	95
53) Trichloroethene	6.297	130	27217	4.96	ug/L	92
54) Methylcyclohexane	6.559	55	27398	5.94	ug/L	96
55) 1,2-Diclpropane	6.602	63	22977	5.60	ug/L	93
56) Dibromomethane	6.754	93	18294	5.39	ug/L #	85
57) 1,4-Dioxane	6.845	88	13119	115.90	ug/L	95
58) Methyl Methacrylate	6.882	69	23249	5.89	ug/L	89
59) Bromodichloromethane	7.016	83	31984	5.30	ug/L	95
60) 2-Nitropropane	7.333	41	22024	13.89	ug/L	98
61) 2-Chloroethylvinyl Ether	7.486	63	17667	6.07	ug/L	97
62) cis-1,3-Dichloropropene	7.620	75	37567	5.58	ug/L	97
63) 4-Methyl-2-pentanone	7.857	43	37103	6.18	ug/L	98
65) Toluene	8.022	91	103338	5.57	ug/L	98
66) trans-1,3-Dichloropropene	8.327	75	35701	5.57	ug/L	97
67) Ethyl Methacrylate	8.498	69	37045	5.60	ug/L	90
68) 1,1,2-Trichloroethane	8.522	97	24597	5.35	ug/L	95
71) Tetrachloroethene	8.668	164	21892	5.22	ug/L	95
72) 2-Hexanone	8.863	43	28460	6.29	ug/L	96
73) 1,3-Dichloropropane	8.711	76	41498	5.59	ug/L	89
74) Dibromochloromethane	8.955	129	26049	4.87	ug/L	88
75) N-Butyl Acetate	9.052	43	52269	6.48	ug/L	93
76) 1,2-Dibromoethane	9.052	107	27981	5.44	ug/L	100
77) 3-Chlorobenzotrifluoride	9.650	180	42462	5.31	ug/L	97
78) Chlorobenzene	9.607	112	71434	5.39	ug/L	95
79) 4-Chlorobenzotrifluoride	9.711	180	37464	5.26	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	25978	5.19	ug/L	99
81) Ethylbenzene	9.747	106	35028	5.32	ug/L #	85
82) (m+p)Xylene	9.869	106	89481	10.77	ug/L	98
83) o-Xylene	10.247	106	43570	5.27	ug/L	88
84) Styrene	10.259	104	72413	5.27	ug/L	100
85) Bromoform	10.412	173	19743	4.64	ug/L	98
86) 2-Chlorobenzotrifluoride	10.515	180	42424	5.32	ug/L	96
87) Isopropylbenzene	10.607	105	112019	5.41	ug/L	98
88) Cyclohexanone	10.656	55	138276	108.37	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.930	53	9483	5.85	ug/L	92
91) 1,1,2,2-Tetrachloroethane	10.881	83	37796	6.05	ug/L	97
92) Bromobenzene	10.845	156	32821	5.29	ug/L	90
93) 1,2,3-Trichloropropane	10.899	110	13744	5.50	ug/L	89
94) n-Propylbenzene	10.979	91	127930	5.53	ug/L	98
95) 2-Chlorotoluene	11.034	91	79564	5.55	ug/L	100
96) 3-Chlorotoluene	11.088	91	80767	5.48	ug/L	98
97) 4-Chlorotoluene	11.131	91	88407	5.43	ug/L	98
98) 1,3,5-Trimethylbenzene	11.137	105	91883	5.26	ug/L	99
99) tert-Butylbenzene	11.418	119	81270	5.37	ug/L	100
100) 1,2,4-Trimethylbenzene	11.460	105	91392	5.28	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.534	214	32893	5.26	ug/L	95
102) sec-Butylbenzene	11.607	105	116523	5.42	ug/L	96
103) p-Isopropyltoluene	11.735	119	101677	5.35	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3295.D
 Acq On : 5 Feb 2021 3:52 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 05 16:08:41 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

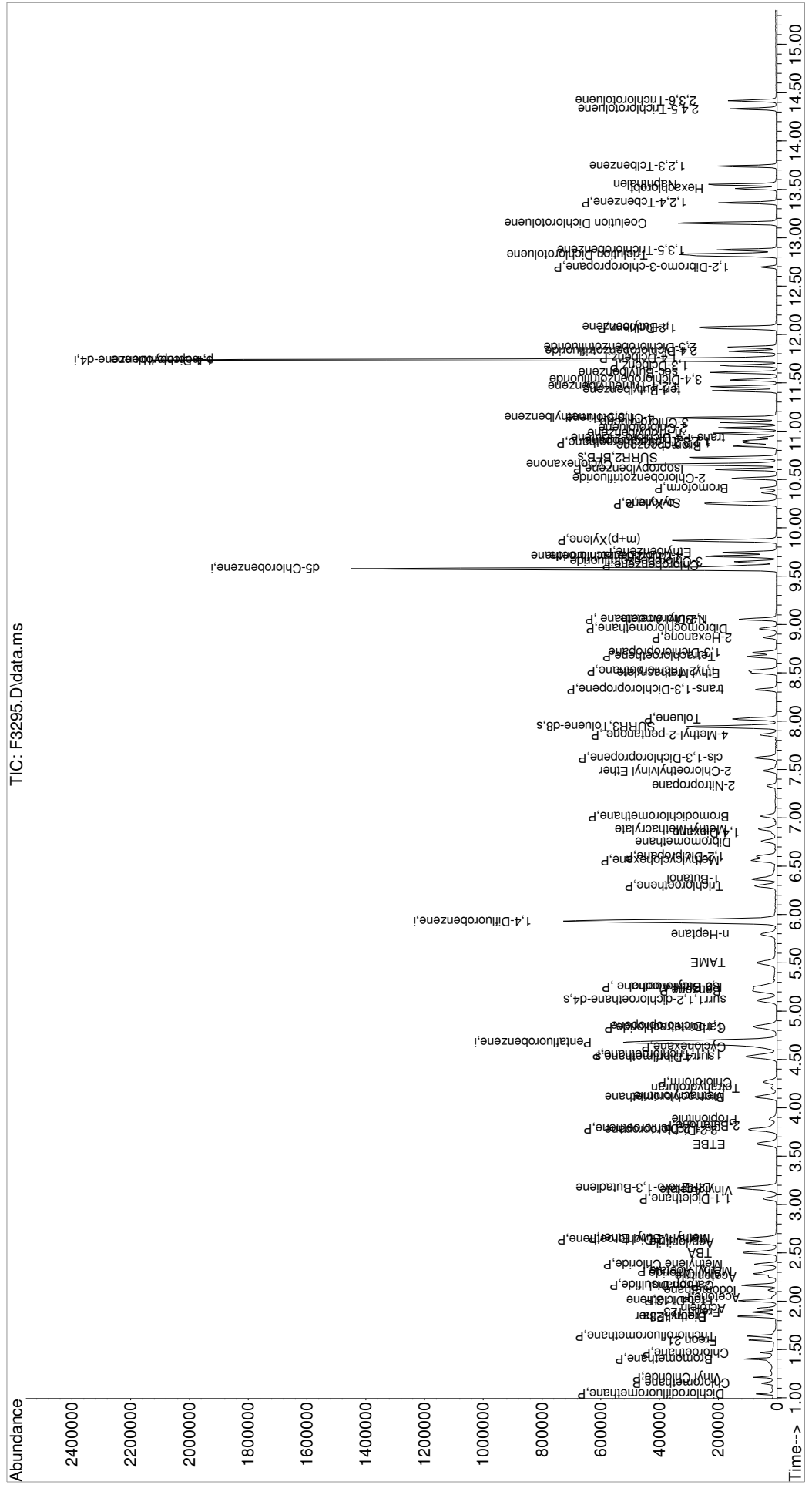
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	60324	5.36	ug/L	96
105) 1,4-Dclbenz	11.759	146	61853	5.28	ug/L	95
106) 2,4-Dichlorobenzotrifl...	11.826	214	31813	5.66	ug/L	95
107) 2,5-Dichlorobenzotrifl...	11.869	214	34818	5.53	ug/L	97
108) n-Butylbenzene	12.076	91	86597	5.52	ug/L	98
109) 1,2-Dclbenz	12.064	146	59976	5.31	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	11200	5.11	ug/L	87
111) Trielution Dichlorotol...	12.826	125	153430	16.24	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	47329	5.46	ug/L	99
113) Coelution Dichlorotoluene	13.149	125	111653	11.12	ug/L	93
114) 1,2,4-Tcbenzene	13.362	180	46700	5.91	ug/L	96
115) Hexachlorobt	13.509	225	20398	5.71	ug/L	96
116) Naphthalen	13.551	128	142915	6.72	ug/L	98
117) 1,2,3-Tclbenzene	13.740	180	49087	6.24	ug/L	99
118) 2,4,5-Trichlorotoluene	14.332	159	31437	7.40	ug/L	93
119) 2,3,6-Trichlorotoluene	14.417	159	30236	7.25	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3295.D
 Acq On : 5 Feb 2021 3:52 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 05 16:08:41 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3296.D
 Acq On : 5 Feb 2021 4:15 pm
 Operator : F.NAEGLER
 Sample : 20 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 06 09:08:25 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	558355	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	761776	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	694073	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	370447	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	93162	18.35	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	36.70%#		
47) surr1,1,2-dichloroetha...	5.114	65	110556	19.99	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	39.98%#		
64) SURR3,Toluene-d8	7.943	98	354232	18.89	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	37.78%#		
69) SURR2,BFB	10.729	95	130590	18.63	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	37.26%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	115789	20.14	ug/L	99
3) Chloromethane	1.151	50	104792	20.71	ug/L	98
4) Vinyl Chloride	1.212	62	117185	20.41	ug/L	99
5) Bromomethane	1.407	94	104762	18.17	ug/L	99
6) Chloroethane	1.474	64	70298	17.25	ug/L	98
7) Freon 21	1.602	67	186455	19.94	ug/L	97
8) Trichlorofluoromethane	1.645	101	162554	19.32	ug/L	100
9) Diethyl Ether	1.846	59	78510	17.88	ug/L	95
10) Freon 123a	1.846	67	102272	18.00	ug/L	99
11) Freon 123	1.889	83	124578	19.18	ug/L	99
12) Acrolein	1.926	56	138785	118.08	ug/L	98
13) 1,1-Dicethene	2.005	96	66109	19.53	ug/L	96
14) Freon 113	2.011	101	81071	19.10	ug/L	98
15) Acetone	2.041	43	48563	22.33	ug/L	98
16) 2-Propanol	2.157	45	253483	454.86	ug/L	98
17) Iodomethane	2.115	142	127796	21.24	ug/L	100
18) Carbon Disulfide	2.169	76	219331	20.35	ug/L	98
19) Acetonitrile	2.249	41	88482	171.67	ug/L	99
20) Allyl Chloride	2.285	76	47712	21.60	ug/L	91
21) Methyl Acetate	2.310	43	131818	23.64	ug/L	95
22) Methylene Chloride	2.383	84	93199	19.16	ug/L	92
23) TBA	2.499	59	442089	444.36	ug/L	96
24) Acrylonitrile	2.596	53	279688	116.24	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	315173	21.04	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	79084	19.79	ug/L	98
27) 1,1-Dicethane	3.059	63	155345	20.72	ug/L	97
28) Vinyl Acetate	3.139	86	19115	27.98	ug/L #	81
29) DIPE	3.175	45	282759	23.10	ug/L	92
30) 2-Chloro-1,3-Butadiene	3.169	53	132918	21.71	ug/L	95
31) ETBE	3.633	59	282905	21.06	ug/L	97
32) 2,2-Dichloropropane	3.773	77	138728	20.08	ug/L	100
33) cis-1,2-Dichloroethene	3.779	96	99370	19.64	ug/L	90
34) 2-Butanone	3.815	43	82690	24.59	ug/L	88
35) Propionitrile	3.876	54	125534	118.37	ug/L	98
36) Bromochloromethane	4.114	130	71622	18.90	ug/L #	81
37) Methacrylonitrile	4.120	67	59030	21.18	ug/L	91
38) Tetrahydrofuran	4.200	42	49644	23.28	ug/L	91
39) Chloroform	4.273	83	162987	19.95	ug/L	99
40) 1,1,1-Trichloroethane	4.541	97	142774	19.18	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3296.D
 Acq On : 5 Feb 2021 4:15 pm
 Operator : F.NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:08:25 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	284490	20.43	ug/L	96
43) Cyclohexane	4.632	41	90698	25.89	ug/L	97
45) Carbontetrachloride	4.834	117	125263	19.64	ug/L	98
46) 1,1-Dichloropropene	4.846	75	117265	20.83	ug/L	95
48) Benzene	5.212	78	356955	21.34	ug/L	95
49) 1,2-Dichloroethane	5.254	62	139428	22.30	ug/L	97
50) Iso-Butyl Alcohol	5.248	43	167662	460.71	ug/L	97
51) n-Heptane	5.797	43	101405	22.48	ug/L	95
52) 1-Butanol	6.358	56	260340	1082.75	ug/L	94
53) Trichloroethene	6.297	130	104916	18.38	ug/L	96
54) Methylcyclohexane	6.559	55	113917	23.73	ug/L	90
55) 1,2-Diclpropane	6.601	63	93966	21.98	ug/L	97
56) Dibromomethane	6.760	93	71911	20.36	ug/L	91
57) 1,4-Dioxane	6.839	88	51685	438.44	ug/L	96
58) Methyl Methacrylate	6.882	69	93907	22.84	ug/L	88
59) Bromodichloromethane	7.016	83	128486	20.43	ug/L	96
60) 2-Nitropropane	7.327	41	82800	50.15	ug/L	96
61) 2-Chloroethylvinyl Ether	7.485	63	77364	25.51	ug/L	89
62) cis-1,3-Dichloropropene	7.620	75	155262	22.16	ug/L	97
63) 4-Methyl-2-pentanone	7.857	43	153565	24.54	ug/L	95
65) Toluene	8.022	91	401737	20.79	ug/L	96
66) trans-1,3-Dichloropropene	8.327	75	147354	22.08	ug/L	97
67) Ethyl Methacrylate	8.497	69	153963	22.34	ug/L	83
68) 1,1,2-Trichloroethane	8.522	97	100306	20.95	ug/L	97
71) Tetrachloroethene	8.668	164	83856	19.62	ug/L	96
72) 2-Hexanone	8.863	43	113742	24.66	ug/L	98
73) 1,3-Dichloropropane	8.711	76	166575	22.02	ug/L	90
74) Dibromochloromethane	8.955	129	109585	20.09	ug/L	97
75) N-Butyl Acetate	9.052	43	203341	24.75	ug/L	94
76) 1,2-Dibromoethane	9.058	107	111139	21.19	ug/L	98
77) 3-Chlorobenzotrifluoride	9.650	180	171603	21.04	ug/L	99
78) Chlorobenzene	9.601	112	270805	20.04	ug/L	95
79) 4-Chlorobenzotrifluoride	9.711	180	152928	21.07	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	104314	20.43	ug/L	97
81) Ethylbenzene	9.741	106	138707	20.66	ug/L #	89
82) (m+p)Xylene	9.869	106	341541	40.33	ug/L	92
83) o-Xylene	10.247	106	171003	20.30	ug/L	99
84) Styrene	10.259	104	290392	20.74	ug/L	99
85) Bromoform	10.412	173	83829	19.33	ug/L	99
86) 2-Chlorobenzotrifluoride	10.509	180	169598	20.85	ug/L	97
87) Isopropylbenzene	10.607	105	428092	20.31	ug/L	99
88) Cyclohexanone	10.656	55	532665	409.66	ug/L	93
89) trans-1,4-Dichloro-2-B...	10.930	53	42222	25.57	ug/L	85
91) 1,1,2,2-Tetrachloroethane	10.881	83	155083	24.42	ug/L	97
92) Bromobenzene	10.845	156	128408	20.35	ug/L	90
93) 1,2,3-Trichloropropane	10.899	110	53370	21.00	ug/L	93
94) n-Propylbenzene	10.979	91	496814	21.13	ug/L	98
95) 2-Chlorotoluene	11.034	91	309720	21.26	ug/L	97
96) 3-Chlorotoluene	11.088	91	330849	22.09	ug/L	97
97) 4-Chlorotoluene	11.131	91	350345	21.14	ug/L	97
98) 1,3,5-Trimethylbenzene	11.143	105	363467	20.45	ug/L	99
99) tert-Butylbenzene	11.418	119	318382	20.69	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	370048	21.01	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.527	214	136474	21.45	ug/L	96
102) sec-Butylbenzene	11.607	105	456806	20.88	ug/L	98
103) p-Isopropyltoluene	11.735	119	401686	20.77	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3296.D
 Acq On : 5 Feb 2021 4:15 pm
 Operator : F.NAEGLER
 Sample : 20 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 06 09:08:25 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

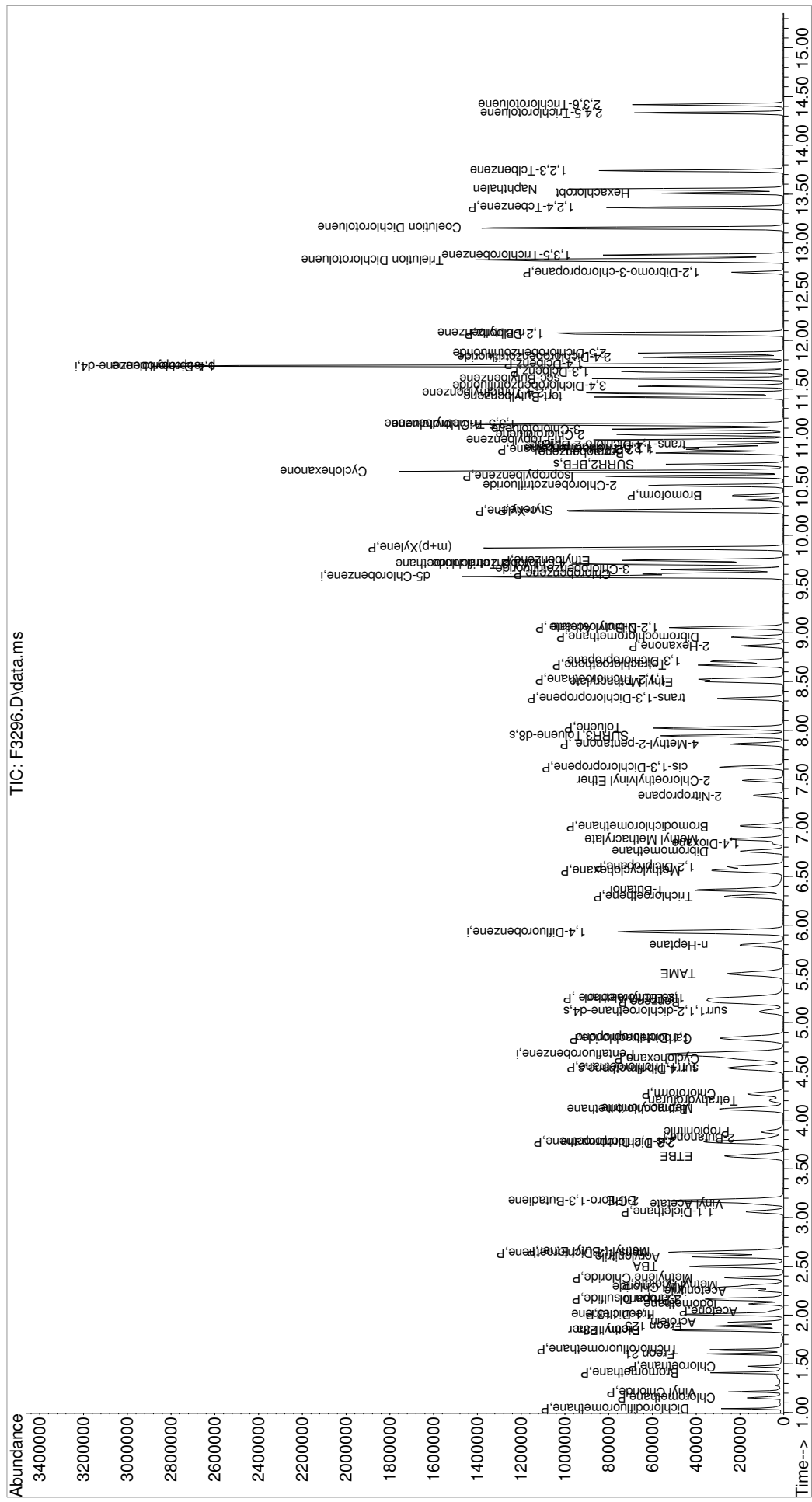
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	231274	20.22	ug/L	97
105) 1,4-Dclbenz	11.759	146	238178	20.00	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.826	214	125428	21.95	ug/L	95
107) 2,5-Dichlorobenzotrifl...	11.869	214	141279	22.07	ug/L	97
108) n-Butylbenzene	12.076	91	350667	21.97	ug/L	98
109) 1,2-Dclbenz	12.064	146	236218	20.57	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	48088	21.56	ug/L	94
111) Trielution Dichlorotol...	12.826	125	635849	66.18	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	190313	21.59	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	466530	45.71	ug/L	98
114) 1,2,4-Tcbenzene	13.362	180	188393	23.43	ug/L	100
115) Hexachlorobt	13.509	225	78494	21.60	ug/L	96
116) Naphthalen	13.551	128	582875	26.95	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	192627	24.08	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	137431	31.81	ug/L	98
119) 2,3,6-Trichlorotoluene	14.417	159	124665	29.41	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3296.D
 Acq On : 5 Feb 2021 4:15 pm
 Operator : F.NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1
 Quant Time: Feb 06 09:08:25 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Inst : MSVOA14



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3297.D
 Acq On : 5 Feb 2021 4:37 pm
 Operator : F.NAEGLER
 Sample : 50 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 06 09:09:21 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.681	168	569287	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.931	114	792623	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.577	117	718384	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.735	152	397123	50.00	ug/L	0.00	
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.529	113	266405	50.44	ug/L	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery	=	100.88%		
47) surr1,1,2-dichloroetha...	5.114	65	308431	53.60	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	107.20%		
64) SURR3,Toluene-d8	7.943	98	974328	49.92	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.84%		
69) SURR2,BFB	10.729	95	376783	51.65	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	103.30%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	293090	50.00	ug/L		98
3) Chloromethane	1.151	50	265898	51.55	ug/L		98
4) Vinyl Chloride	1.212	62	295385	50.45	ug/L		98
5) Bromomethane	1.401	94	193106	32.86	ug/L		99
6) Chloroethane	1.468	64	178332	42.92	ug/L		99
7) Freon 21	1.596	67	500583	52.52	ug/L		99
8) Trichlorofluoromethane	1.639	101	403072	46.99	ug/L		98
9) Diethyl Ether	1.846	59	214975	48.01	ug/L		96
10) Freon 123a	1.840	67	280358	48.41	ug/L		91
11) Freon 123	1.889	83	331407	50.04	ug/L		99
12) Acrolein	1.926	56	391098	326.35	ug/L		98
13) 1,1-Diclcethene	2.005	96	164695	47.73	ug/L		98
14) Freon 113	2.011	101	200061	46.23	ug/L		94
15) Acetone	2.041	43	137222	61.87	ug/L		98
16) 2-Propanol	2.163	45	755008	1328.80	ug/L		98
17) Iodomethane	2.115	142	389104	63.42	ug/L		99
18) Carbon Disulfide	2.169	76	601132	54.70	ug/L		99
19) Acetonitrile	2.249	41	264924	504.13	ug/L		98
20) Allyl Chloride	2.285	76	124836	55.42	ug/L		96
21) Methyl Acetate	2.310	43	379272	66.72	ug/L		97
22) Methylene Chloride	2.383	84	240229	48.43	ug/L		91
23) TBA	2.505	59	1284440	1266.24	ug/L		97
24) Acrylonitrile	2.596	53	788318	321.35	ug/L		99
25) Methyl-t-Butyl Ether	2.651	73	854086	55.93	ug/L		97
26) trans-1,2-Dichloroethene	2.639	96	196716	48.28	ug/L		99
27) 1,1-Diclcethane	3.060	63	395667	51.75	ug/L		98
28) Vinyl Acetate	3.145	86	49379	70.88	ug/L	#	70
29) DIPE	3.175	45	768086	61.54	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.169	53	361079	57.85	ug/L		97
31) ETBE	3.633	59	776878	56.72	ug/L		95
32) 2,2-Dichloropropane	3.773	77	348228	49.44	ug/L		97
33) cis-1,2-Dichloroethene	3.779	96	254026	49.24	ug/L		88
34) 2-Butanone	3.822	43	225720	65.84	ug/L		95
35) Propionitrile	3.876	54	347602	321.48	ug/L		100
36) Bromochloromethane	4.114	130	190298	49.24	ug/L	#	84
37) Methacrylonitrile	4.114	67	163624	57.58	ug/L		87
38) Tetrahydrofuran	4.200	42	139217	64.02	ug/L		93
39) Chloroform	4.267	83	417607	50.13	ug/L		98
40) 1,1,1-Trichloroethane	4.541	97	356617	46.98	ug/L		97

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3297.D
 Acq On : 5 Feb 2021 4:37 pm
 Operator : F.NAEGLER
 Sample : 50 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:09:21 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	786624	55.41	ug/L	95
43) Cyclohexane	4.632	41	237216	65.08	ug/L	98
45) Carbontetrachloride	4.834	117	313674	47.26	ug/L	99
46) 1,1-Dichloropropene	4.846	75	292057	49.85	ug/L	96
48) Benzene	5.212	78	895204	51.44	ug/L	97
49) 1,2-Dichloroethane	5.248	62	365255	56.14	ug/L	98
50) Iso-Butyl Alcohol	5.254	43	515456	1361.27	ug/L	97
51) n-Heptane	5.797	43	252603	53.81	ug/L	97
52) 1-Butanol	6.364	56	841582	3363.89	ug/L	95
53) Trichloroethene	6.297	130	263460	44.35	ug/L	96
54) Methylcyclohexane	6.559	55	306902	61.44	ug/L	93
55) 1,2-Diclpropane	6.602	63	245345	55.17	ug/L	97
56) Dibromomethane	6.760	93	194978	53.05	ug/L	96
57) 1,4-Dioxane	6.839	88	153039	1247.69	ug/L	97
58) Methyl Methacrylate	6.882	69	265563	62.08	ug/L	89
59) Bromodichloromethane	7.016	83	346140	52.91	ug/L	97
60) 2-Nitropropane	7.333	41	242447	141.14	ug/L	97
61) 2-Chloroethylvinyl Ether	7.486	63	218439	69.24	ug/L	96
62) cis-1,3-Dichloropropene	7.620	75	409496	56.17	ug/L	99
63) 4-Methyl-2-pentanone	7.857	43	431574	66.29	ug/L	95
65) Toluene	8.022	91	1004404	49.95	ug/L	97
66) trans-1,3-Dichloropropene	8.327	75	406509	58.54	ug/L	97
67) Ethyl Methacrylate	8.498	69	441279	61.53	ug/L	91
68) 1,1,2-Trichloroethane	8.522	97	268094	53.82	ug/L	97
71) Tetrachloroethene	8.668	164	202717	45.83	ug/L	98
72) 2-Hexanone	8.863	43	330795	69.30	ug/L	98
73) 1,3-Dichloropropane	8.705	76	445102	56.86	ug/L	91
74) Dibromochloromethane	8.961	129	304536	53.94	ug/L	97
75) N-Butyl Acetate	9.052	43	587004	69.02	ug/L	97
76) 1,2-Dibromoethane	9.052	107	305737	56.33	ug/L	96
77) 3-Chlorobenzotrifluoride	9.650	180	446908	52.94	ug/L	99
78) Chlorobenzene	9.607	112	692232	49.50	ug/L	96
79) 4-Chlorobenzotrifluoride	9.711	180	399754	53.22	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	274861	52.02	ug/L	99
81) Ethylbenzene	9.747	106	349738	50.32	ug/L	93
82) (m+p)Xylene	9.869	106	859821	98.09	ug/L	94
83) o-Xylene	10.247	106	433517	49.72	ug/L	95
84) Styrene	10.259	104	761617	52.55	ug/L	96
85) Bromoform	10.412	173	249746	55.64	ug/L	98
86) 2-Chlorobenzotrifluoride	10.515	180	442984	52.63	ug/L	99
87) Isopropylbenzene	10.607	105	1075955	49.31	ug/L	100
88) Cyclohexanone	10.656	55	1608309	1195.05	ug/L	93
89) trans-1,4-Dichloro-2-B...	10.930	53	126981	74.31	ug/L	90
91) 1,1,2,2-Tetrachloroethane	10.881	83	436868	64.18	ug/L	100
92) Bromobenzene	10.845	156	329426	48.70	ug/L	92
93) 1,2,3-Trichloropropane	10.899	110	148174	54.39	ug/L #	90
94) n-Propylbenzene	10.979	91	1260355	50.01	ug/L	98
95) 2-Chlorotoluene	11.034	91	784289	50.22	ug/L	97
96) 3-Chlorotoluene	11.088	91	881516	54.90	ug/L	97
97) 4-Chlorotoluene	11.131	91	903011	50.84	ug/L	97
98) 1,3,5-Trimethylbenzene	11.143	105	933728	49.01	ug/L	99
99) tert-Butylbenzene	11.418	119	790995	47.95	ug/L	100
100) 1,2,4-Trimethylbenzene	11.460	105	950657	50.35	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.534	214	366483	53.74	ug/L	99
102) sec-Butylbenzene	11.607	105	1143352	48.75	ug/L	99
103) p-Isopropyltoluene	11.735	119	1017826	49.09	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3297.D
 Acq On : 5 Feb 2021 4:37 pm
 Operator : F.NAEGLER
 Sample : 50 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 06 09:09:21 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

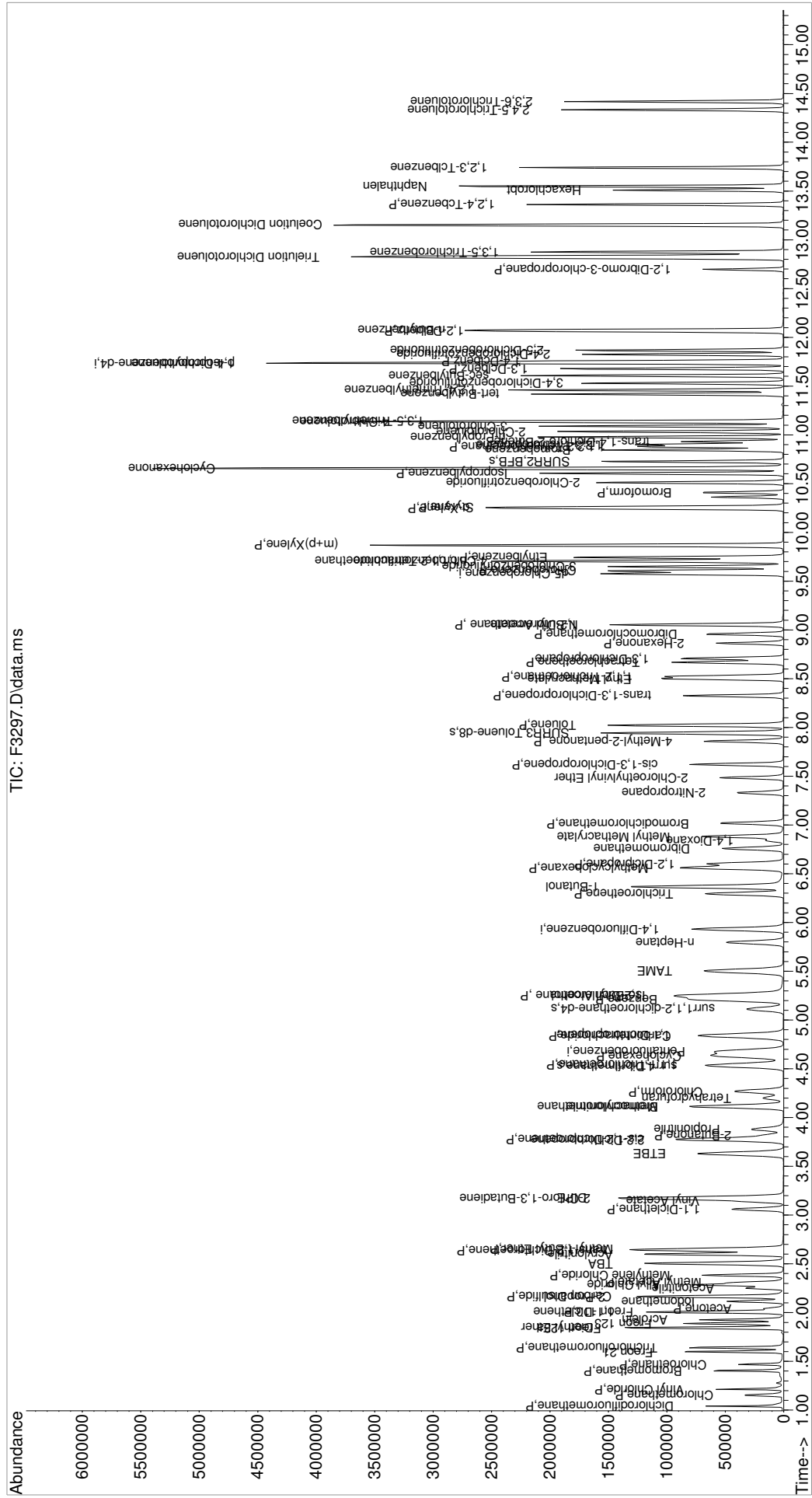
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	601096	49.03	ug/L	98
105) 1,4-Dclbenz	11.759	146	624543	48.93	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.826	214	335140	54.71	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.869	214	376056	54.79	ug/L	98
108) n-Butylbenzene	12.076	91	907836	53.05	ug/L	98
109) 1,2-Dclbenz	12.064	146	618543	50.26	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	144071	60.26	ug/L	96
111) Trielution Dichlorotol...	12.826	125	1711267	166.16	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	515529	54.54	ug/L	99
113) Coelution Dichlorotoluene	13.155	125	1281884	117.15	ug/L	97
114) 1,2,4-Tcbenzene	13.362	180	503168	58.38	ug/L	100
115) Hexachlorobt	13.509	225	209429	53.75	ug/L	99
116) Naphthalen	13.551	128	1624424	70.05	ug/L	100
117) 1,2,3-Tclbenzene	13.740	180	515562	60.13	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	371063	80.12	ug/L	97
119) 2,3,6-Trichlorotoluene	14.417	159	332877	73.26	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3297.D
 Acq On : 5 Feb 2021 4:37 pm
 Operator : F.NAEGLER
 Sample : 50 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:09:21 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3298.D
 Acq On : 5 Feb 2021 4:59 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 06 09:10:32 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	572681	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	807921	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	740098	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	417185	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.523	113	540275	100.35	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	200.70%#		
47) surr1,1,2-dichloroetha...	5.114	65	630270	107.46	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	214.92%#		
64) SURR3,Toluene-d8	7.943	98	2005869	100.83	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	201.66%#		
69) SURR2,BFB	10.729	95	786418	105.76	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	211.52%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	652261	110.61	ug/L	98
3) Chloromethane	1.151	50	582371	112.24	ug/L	100
4) Vinyl Chloride	1.212	62	644737	109.47	ug/L	99
5) Bromomethane	1.401	94	310442	52.51	ug/L	98
6) Chloroethane	1.462	64	386755	92.53	ug/L	98
7) Freon 21	1.596	67	980309	102.24	ug/L	100
8) Trichlorofluoromethane	1.633	101	897670	104.02	ug/L	99
9) Diethyl Ether	1.846	59	444068	98.58	ug/L	97
10) Freon 123a	1.840	67	544895	93.53	ug/L	93
11) Freon 123	1.889	83	646347	97.02	ug/L	99
12) Acrolein	1.926	56	803905	666.85	ug/L	98
13) 1,1-Dicethene	1.999	96	364864	105.12	ug/L	94
14) Freon 113	2.005	101	455348	104.61	ug/L	100
15) Acetone	2.041	43	289868	129.93	ug/L	97
16) 2-Propanol	2.176	45	1645098	2878.18	ug/L	97
17) Iodomethane	2.115	142	829939	134.46	ug/L	100
18) Carbon Disulfide	2.163	76	1234650	111.69	ug/L	99
19) Acetonitrile	2.255	41	461804	873.57	ug/L	98
20) Allyl Chloride	2.285	76	274365	121.09	ug/L	97
21) Methyl Acetate	2.310	43	773650	135.29	ug/L	97
22) Methylene Chloride	2.383	84	510182	102.24	ug/L	92
23) TBA	2.517	59	2757049	2701.88	ug/L	98
24) Acrylonitrile	2.602	53	1643124	665.83	ug/L	98
25) Methyl-t-Butyl Ether	2.651	73	1769895	115.22	ug/L	99
26) trans-1,2-Dichloroethene	2.633	96	438558	107.00	ug/L	94
27) 1,1-Dicethane	3.060	63	866960	112.72	ug/L	98
28) Vinyl Acetate	3.139	86	97353	138.92	ug/L #	64
29) DIPE	3.175	45	1557383	124.04	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.169	53	739657	117.80	ug/L	95
31) ETBE	3.633	59	1579652	114.65	ug/L	96
32) 2,2-Dichloropropane	3.773	77	765806	108.09	ug/L	98
33) cis-1,2-Dichloroethene	3.779	96	546744	105.34	ug/L	88
34) 2-Butanone	3.816	43	468324	135.80	ug/L	94
35) Propionitrile	3.883	54	730122	671.24	ug/L	100
36) Bromochloromethane	4.114	130	394369	101.44	ug/L #	87
37) Methacrylonitrile	4.114	67	340324	119.06	ug/L	88
38) Tetrahydrofuran	4.200	42	287555	131.45	ug/L	95
39) Chloroform	4.267	83	900064	107.41	ug/L	97
40) 1,1,1-Trichloroethane	4.541	97	793346	103.90	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3298.D
 Acq On : 5 Feb 2021 4:59 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 06 09:10:32 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	1580777	110.70	ug/L	95
43) Cyclohexane	4.632	41	463857	124.85	ug/L	99
45) Carbontetrachloride	4.834	117	709052	104.81	ug/L	99
46) 1,1-Dichloropropene	4.846	75	650857	108.99	ug/L	96
48) Benzene	5.205	78	1934481	109.05	ug/L	97
49) 1,2-Dichloroethane	5.248	62	756550	114.08	ug/L	97
50) Iso-Butyl Alcohol	5.266	43	1112553	2882.52	ug/L	97
51) n-Heptane	5.797	43	573744	119.91	ug/L	96
52) 1-Butanol	6.382	56	1829093	7172.65	ug/L	97
53) Trichloroethene	6.297	130	569467	94.04	ug/L	96
54) Methylcyclohexane	6.559	55	604278	118.68	ug/L	88
55) 1,2-Diclpropane	6.602	63	523845	115.56	ug/L	95
56) Dibromomethane	6.760	93	403136	107.60	ug/L	95
57) 1,4-Dioxane	6.845	88	315694	2525.04	ug/L	92
58) Methyl Methacrylate	6.882	69	545649	125.14	ug/L	87
59) Bromodichloromethane	7.016	83	740518	111.04	ug/L	96
60) 2-Nitropropane	7.333	41	503424	287.52	ug/L	99
61) 2-Chloroethylvinyl Ether	7.486	63	455284	141.57	ug/L	91
62) cis-1,3-Dichloropropene	7.620	75	873543	117.56	ug/L	99
63) 4-Methyl-2-pentanone	7.857	43	896038	135.03	ug/L	95
65) Toluene	8.022	91	2199849	107.33	ug/L	98
66) trans-1,3-Dichloropropene	8.327	75	859891	121.50	ug/L	98
67) Ethyl Methacrylate	8.498	69	920255	125.89	ug/L	87
68) 1,1,2-Trichloroethane	8.522	97	553147	108.93	ug/L	99
71) Tetrachloroethene	8.668	164	457286	100.34	ug/L	99
72) 2-Hexanone	8.863	43	703715	143.10	ug/L	96
73) 1,3-Dichloropropane	8.711	76	924564	114.63	ug/L	92
74) Dibromochloromethane	8.955	129	650903	111.90	ug/L	99
75) N-Butyl Acetate	9.052	43	1235890	141.06	ug/L	97
76) 1,2-Dibromoethane	9.052	107	625865	111.92	ug/L	97
77) 3-Chlorobenzotrifluoride	9.650	180	873957	100.49	ug/L	99
78) Chlorobenzene	9.607	112	1485155	103.09	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	785051	101.45	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	583873	107.26	ug/L	98
81) Ethylbenzene	9.747	106	771371	107.73	ug/L #	89
82) (m+p)Xylene	9.869	106	1907056	211.18	ug/L	94
83) o-Xylene	10.247	106	944137	105.10	ug/L	93
84) Styrene	10.259	104	1669983	111.85	ug/L	97
85) Bromoform	10.412	173	538905	116.53	ug/L	98
86) 2-Chlorobenzotrifluoride	10.515	180	882362	101.75	ug/L	100
87) Isopropylbenzene	10.607	105	2425191	107.88	ug/L	99
88) Cyclohexanone	10.662	55	3492237	2518.77	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.930	53	272374	154.72	ug/L	89
91) 1,1,2,2-Tetrachloroethane	10.881	83	927895	129.76	ug/L	99
92) Bromobenzene	10.845	156	712058	100.20	ug/L #	89
93) 1,2,3-Trichloropropane	10.899	110	307983	107.62	ug/L #	88
94) n-Propylbenzene	10.979	91	2874249	108.56	ug/L	97
95) 2-Chlorotoluene	11.034	91	1742177	106.18	ug/L	96
96) 3-Chlorotoluene	11.088	91	1809781	107.29	ug/L	95
97) 4-Chlorotoluene	11.131	91	2040031	109.32	ug/L	96
98) 1,3,5-Trimethylbenzene	11.143	105	2119922	105.92	ug/L	99
99) tert-Butylbenzene	11.418	119	1802880	104.03	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	2133648	107.58	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.534	214	734610	102.54	ug/L	99
102) sec-Butylbenzene	11.607	105	2628700	106.69	ug/L	98
103) p-Isopropyltoluene	11.735	119	2337292	107.30	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3298.D
 Acq On : 5 Feb 2021 4:59 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 06 09:10:32 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

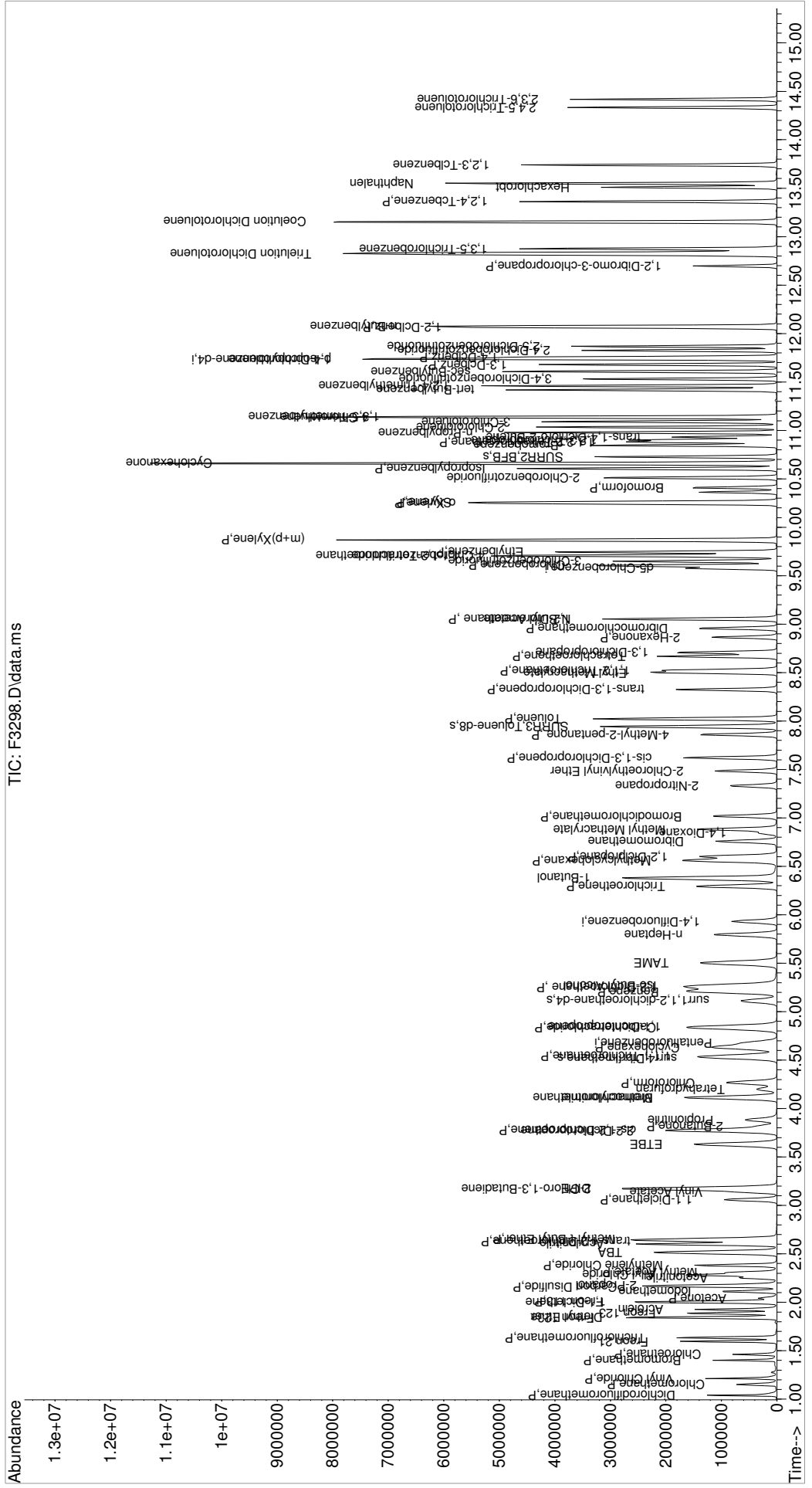
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	1321154	102.57	ug/L	98
105) 1,4-Dclbenz	11.759	146	1369332	102.11	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.826	214	692140	107.55	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.869	214	749768	103.99	ug/L	99
108) n-Butylbenzene	12.076	91	2097686	116.69	ug/L	98
109) 1,2-Dclbenz	12.064	146	1341908	103.79	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	310587	123.66	ug/L	93
111) Trielution Dichlorotol...	12.826	125	3580798	330.96	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	1060620	106.82	ug/L	100
113) Coelution Dichlorotoluene	13.155	125	2676145	232.81	ug/L	97
114) 1,2,4-Tcbenzene	13.362	180	1079810	119.27	ug/L	98
115) Hexachlorobt	13.509	225	460103	112.40	ug/L	99
116) Naphthalen	13.551	128	3445296	141.43	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	1086073	120.58	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	752898	154.74	ug/L	99
119) 2,3,6-Trichlorotoluene	14.417	159	675306	141.48	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3298.D
 Acq On : 5 Feb 2021 4:59 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

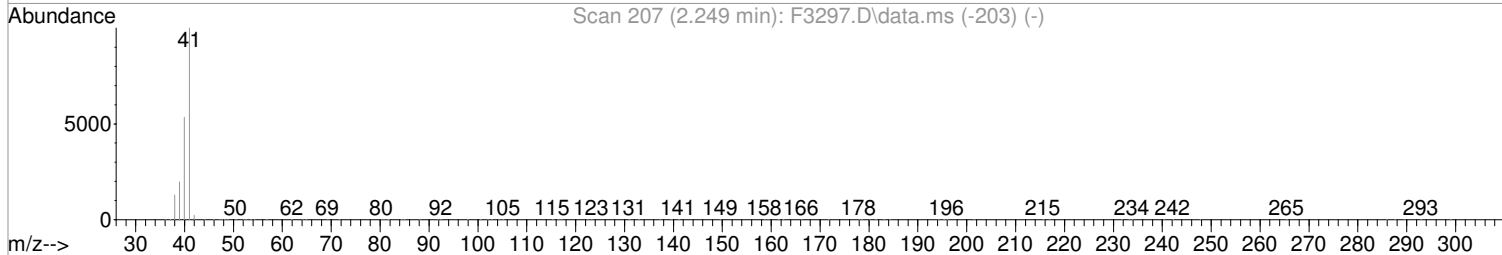
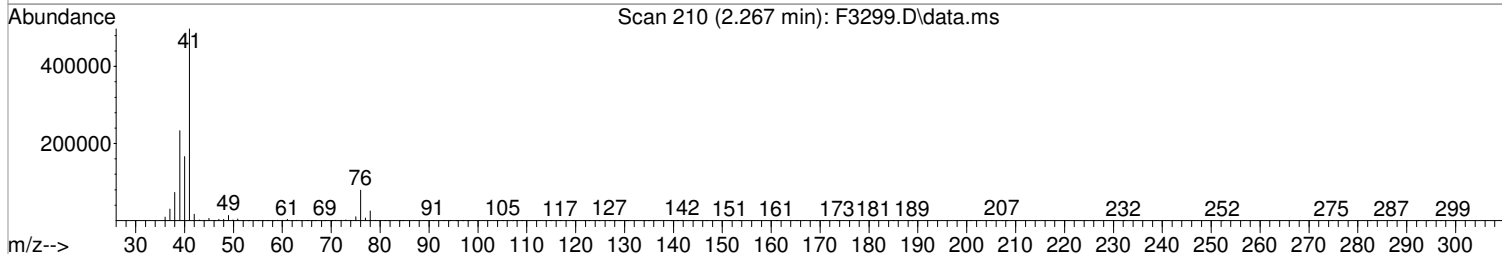
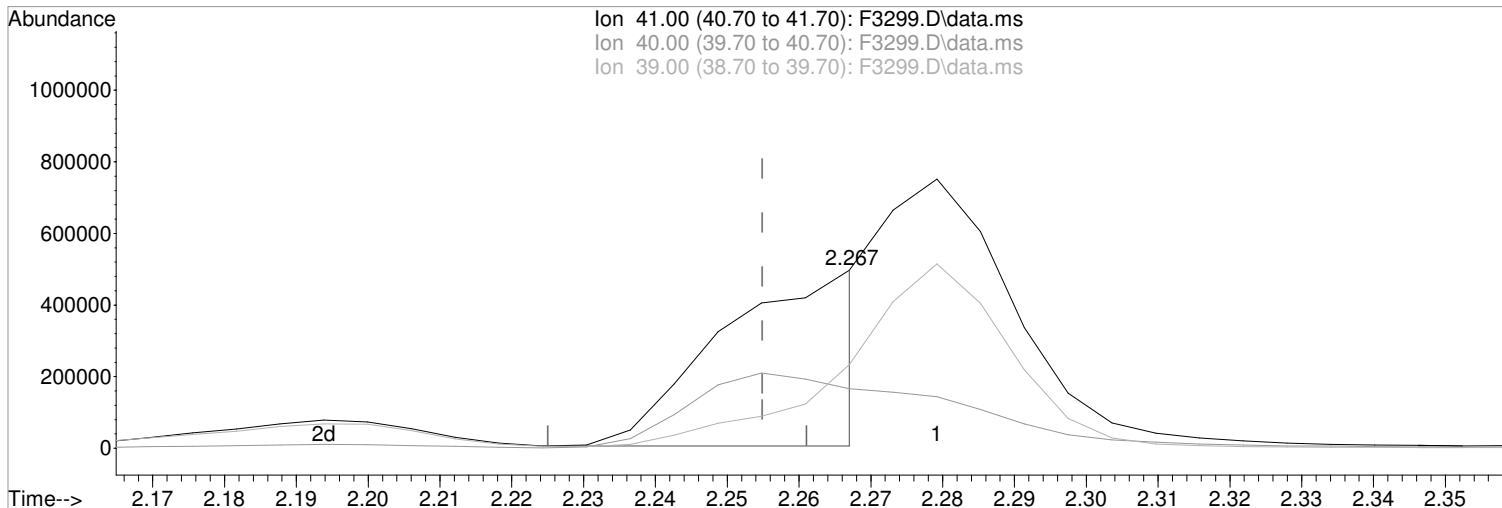
Quant Time: Feb 06 09:10:32 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3299.D
Acq On : 5 Feb 2021 5:22 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:11:53 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



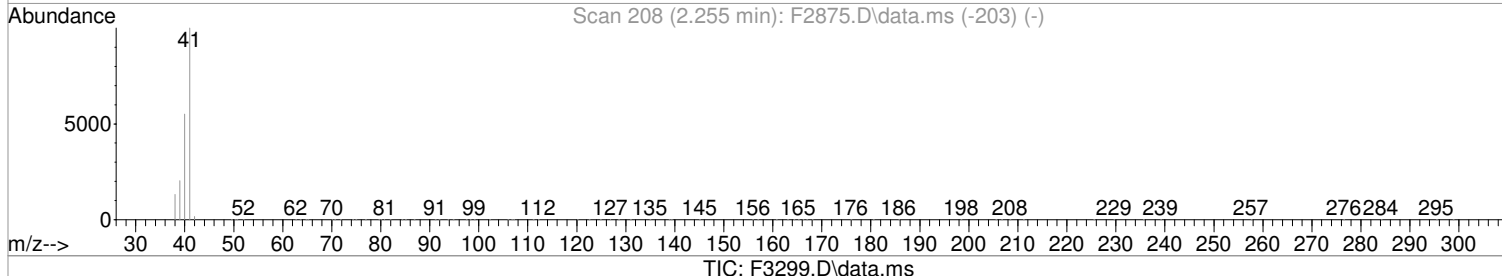
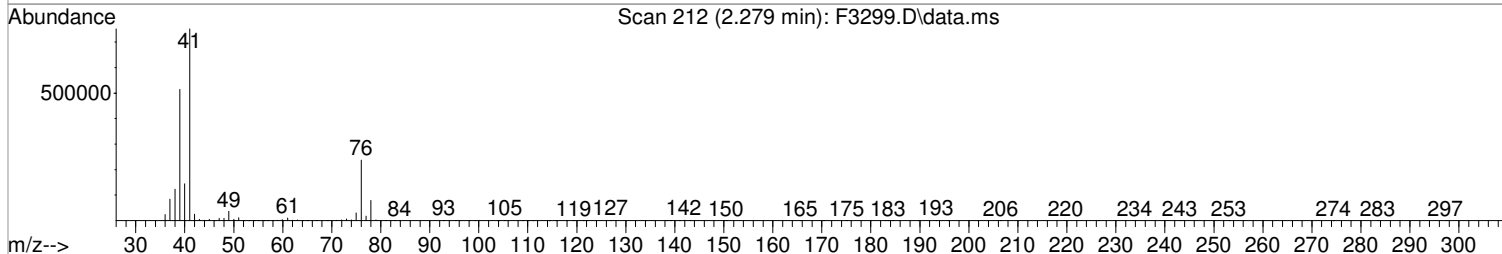
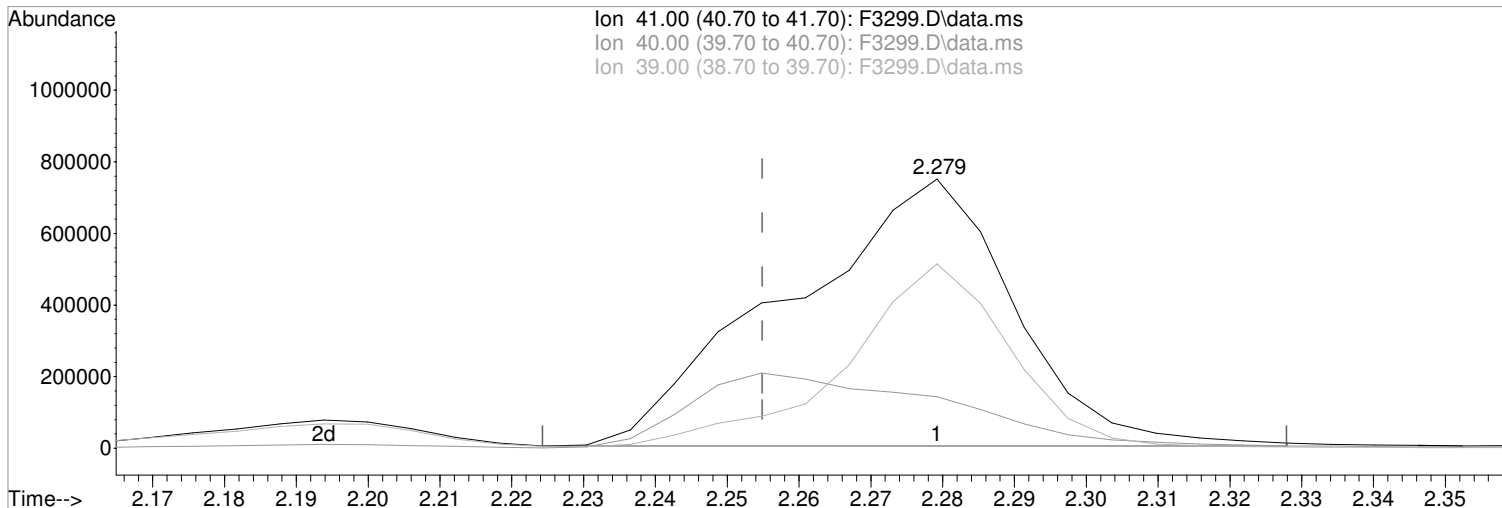
(19) Acetonitrile
2.267min (+0.012) 1315.70 ug/L m
response 674864
Ion Exp% Act%
41.00 100 100
40.00 54.10 33.39#
39.00 22.40 46.96#
0.00 0.00 0.00

Manual Integration:
After
Poor integration.
02/06/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3299.D
Acq On : 5 Feb 2021 5:22 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:11:35 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration



(19) Acetonitrile
2.279min (+0.024) 3190.23 ug/L
response 1636365

Manual Integration:
Before

Ion	Exp%	Act%
41.00	100	100
40.00	54.10	19.13#
39.00	22.40	68.49#
0.00	0.00	0.00

02/06/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3299.D
 Acq On : 5 Feb 2021 5:22 pm
 Operator : F.NAEGLER
 Sample : 150 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 06 09:20:41 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.675	168	555664	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	783073	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	724903	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	418127	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.523	113	1036700	198.67	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	397.34%#		
47) surr1,1,2-dichloroetha...	5.108	65	1204381	211.86	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	423.72%#		
64) SURR3,Toluene-d8	7.943	98	3864858	200.45	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	400.90%#		
69) SURR2,BFB	10.729	95	1542030	213.95	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	427.90%#		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.036	85	724070	126.55	ug/L	98
3) Chloromethane	1.151	50	681478	135.36	ug/L	98
4) Vinyl Chloride	1.212	62	709187	124.11	ug/L	100
5) Bromomethane	1.401	94	337664	58.86	ug/L	98
6) Chloroethane	1.456	64	208412	51.39	ug/L	98
7) Freon 21	1.590	67	1202323	129.23	ug/L	100
8) Trichlorofluoromethane	1.627	101	988225	118.02	ug/L	97
9) Diethyl Ether	1.846	59	542467	124.11	ug/L	95
10) Freon 123a	1.840	67	683042	120.83	ug/L	93
11) Freon 123	1.883	83	798966	123.61	ug/L	99
12) Acrolein	1.926	56	1027357	878.30	ug/L	100
13) 1,1-Diclcethene	1.999	96	415510	123.37	ug/L	99
14) Freon 113	1.999	101	492501	116.61	ug/L	99
15) Acetone	2.048	43	371626	171.68	ug/L	99
16) 2-Propanol	2.194	45	2238619	4036.52	ug/L	97
17) Iodomethane	2.108	142	1004388	167.71	ug/L	100
18) Carbon Disulfide	2.163	76	1581763	147.47	ug/L	99
19) Acetonitrile	2.267	41	674864m	1315.70	ug/L	
20) Allyl Chloride	2.279	76	328442	149.39	ug/L #	83
21) Methyl Acetate	2.310	43	1007152	181.52	ug/L	96
22) Methylene Chloride	2.383	84	605122	124.98	ug/L	93
23) TBA	2.541	59	3442098	3476.52	ug/L	98
24) Acrylonitrile	2.602	53	1977410	825.83	ug/L	98
25) Methyl-t-Butyl Ether	2.651	73	2129130	142.85	ug/L	98
26) trans-1,2-Dichloroethene	2.633	96	504601	126.88	ug/L	95
27) 1,1-Diclcethane	3.060	63	1011237	135.50	ug/L	97
28) Vinyl Acetate	3.139	86	124169	182.62	ug/L #	70
29) DIPE	3.175	45	1973033	161.96	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.163	53	942679	154.74	ug/L	94
31) ETBE	3.633	59	2001995	149.75	ug/L	96
32) 2,2-Dichloropropane	3.773	77	871814	126.82	ug/L	98
33) cis-1,2-Dichloroethene	3.773	96	637959	126.68	ug/L	85
34) 2-Butanone	3.822	43	597532	178.58	ug/L	94
35) Propionitrile	3.889	54	876554	830.55	ug/L	98
36) Bromochloromethane	4.114	130	467379	123.90	ug/L	88
37) Methacrylonitrile	4.114	67	401970	144.93	ug/L	86
38) Tetrahydrofuran	4.200	42	345489	162.77	ug/L	93
39) Chloroform	4.267	83	1051246	129.30	ug/L	99
40) 1,1,1-Trichloroethane	4.535	97	876648	118.33	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3299.D
 Acq On : 5 Feb 2021 5:22 pm
 Operator : F.NAEGLER
 Sample : 150 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 06 09:20:41 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	2006093	144.78	ug/L	94
43) Cyclohexane	4.632	41	565837	157.14	ug/L	100
45) Carbontetrachloride	4.827	117	775744	118.31	ug/L	98
46) 1,1-Dichloropropene	4.840	75	720377	124.46	ug/L	97
48) Benzene	5.205	78	2224601	129.38	ug/L	97
49) 1,2-Dichloroethane	5.248	62	906306	141.00	ug/L	97
50) Iso-Butyl Alcohol	5.291	43	1362510	3642.15	ug/L	99
51) n-Heptane	5.791	43	616005	132.83	ug/L	92
52) 1-Butanol	6.394	56	2430553	9833.67	ug/L	97
53) Trichloroethene	6.291	130	642538	109.48	ug/L	97
54) Methylcyclohexane	6.559	55	734210	148.77	ug/L	93
55) 1,2-Diclpropane	6.602	63	615361	140.05	ug/L	97
56) Dibromomethane	6.754	93	480211	132.24	ug/L	87
57) 1,4-Dioxane	6.851	88	389922	3217.70	ug/L	96
58) Methyl Methacrylate	6.882	69	657171	155.50	ug/L	89
59) Bromodichloromethane	7.016	83	876353	135.58	ug/L	96
60) 2-Nitropropane	7.333	41	600846	354.05	ug/L	97
61) 2-Chloroethylvinyl Ether	7.485	63	578214	185.50	ug/L	91
62) cis-1,3-Dichloropropene	7.620	75	1040511	144.47	ug/L	98
63) 4-Methyl-2-pentanone	7.863	43	1149638	178.75	ug/L	96
65) Toluene	8.022	91	2511742	126.43	ug/L	97
66) trans-1,3-Dichloropropene	8.327	75	1038363	151.37	ug/L	97
67) Ethyl Methacrylate	8.504	69	1117734	157.76	ug/L	93
68) 1,1,2-Trichloroethane	8.522	97	656332	133.35	ug/L	99
71) Tetrachloroethene	8.668	164	492263	110.28	ug/L	98
72) 2-Hexanone	8.869	43	907417	188.40	ug/L	98
73) 1,3-Dichloropropane	8.711	76	1091049	138.11	ug/L	92
74) Dibromochloromethane	8.961	129	770464	135.23	ug/L	99
75) N-Butyl Acetate	9.052	43	1614734	188.16	ug/L	96
76) 1,2-Dibromoethane	9.052	107	748599	136.67	ug/L	98
77) 3-Chlorobenzotrifluoride	9.650	180	1093423	128.36	ug/L	99
78) Chlorobenzene	9.607	112	1703342	120.71	ug/L	96
79) 4-Chlorobenzotrifluoride	9.711	180	984554	129.89	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	678404	127.24	ug/L	98
81) Ethylbenzene	9.747	106	850356	121.25	ug/L #	89
82) (m+p)Xylene	9.869	106	2131575	240.99	ug/L	91
83) o-Xylene	10.247	106	1063323	120.84	ug/L	94
84) Styrene	10.259	104	1933135	132.19	ug/L	97
85) Bromoform	10.412	173	654374	144.47	ug/L	100
86) 2-Chlorobenzotrifluoride	10.515	180	1116182	131.41	ug/L	99
87) Isopropylbenzene	10.607	105	2668004	121.17	ug/L	96
88) Cyclohexanone	10.662	55	4458814	3283.32	ug/L	88
89) trans-1,4-Dichloro-2-B...	10.930	53	337613	195.80	ug/L	99
91) 1,1,2,2-Tetrachloroethane	10.881	83	1133182	158.11	ug/L	87
92) Bromobenzene	10.845	156	825878	115.96	ug/L #	96
93) 1,2,3-Trichloropropane	10.906	110	372175	129.76	ug/L	96
94) n-Propylbenzene	10.979	91	3175320	119.66	ug/L	96
95) 2-Chlorotoluene	11.034	91	1971456	119.89	ug/L	96
96) 3-Chlorotoluene	11.088	91	2326133	137.60	ug/L	96
97) 4-Chlorotoluene	11.131	91	2316628	123.87	ug/L	98
98) 1,3,5-Trimethylbenzene	11.143	105	2349188	117.11	ug/L	98
99) tert-Butylbenzene	11.418	119	1979749	113.98	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	2410721	121.27	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.533	214	932155	129.82	ug/L	97
102) sec-Butylbenzene	11.607	105	2869297	116.20	ug/L	98
103) p-Isopropyltoluene	11.735	119	2581435	118.24	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3299.D
 Acq On : 5 Feb 2021 5:22 pm
 Operator : F.NAEGLER
 Sample : 150 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 06 09:20:41 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

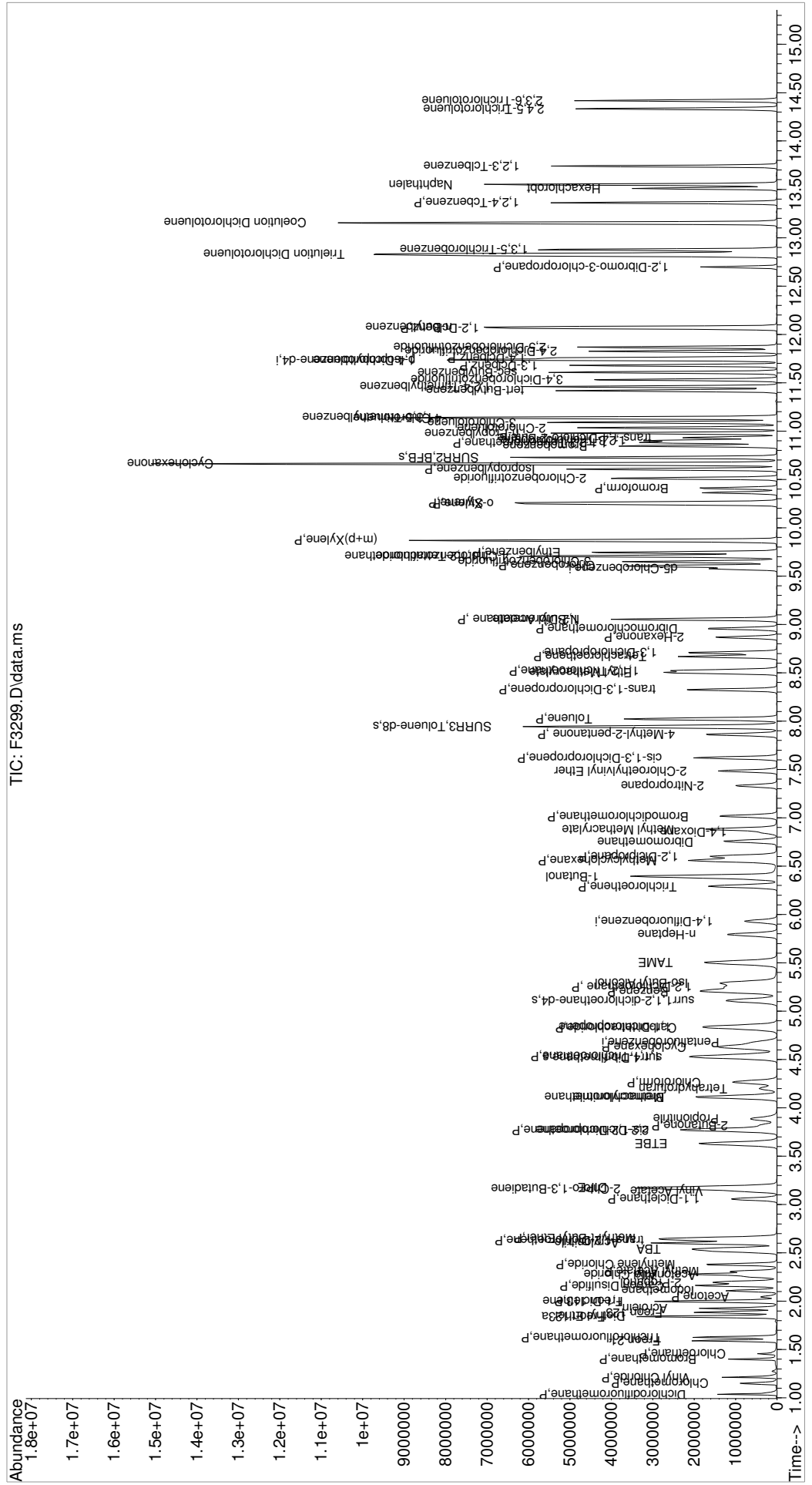
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	1533560	118.80	ug/L	98
105) 1,4-Dclbenz	11.759	146	1585479	117.96	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.826	214	884516	137.13	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	972129	134.52	ug/L	98
108) n-Butylbenzene	12.076	91	2321155	128.83	ug/L	97
109) 1,2-Dclbenz	12.064	146	1589126	122.63	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.698	157	375443	149.14	ug/L	93
111) Trielution Dichlorotol...	12.832	125	4671056	430.76	ug/L	96
112) 1,3,5-Trichlorobenzene	12.881	180	1364349	137.10	ug/L	99
113) Coelution Dichlorotoluene	13.155	125	3512025	304.83	ug/L	96
114) 1,2,4-Tcbenzene	13.362	180	1256150	138.43	ug/L	98
115) Hexachlorobt	13.509	225	503165	122.64	ug/L	98
116) Naphthalen	13.551	128	4085250	167.32	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	1283249	142.15	ug/L	97
118) 2,4,5-Trichlorotoluene	14.332	159	977386	200.43	ug/L	99
119) 2,3,6-Trichlorotoluene	14.417	159	860776	179.93	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3299.D
 Acq On : 5 Feb 2021 5:22 pm
 Operator : F.NAEGLER
 Sample : 150 PPB STD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:20:41 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
Data File : F3300.D
Acq On : 5 Feb 2021 5:44 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:13:09 2021
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Fri Jan 22 09:27:44 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	598834	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	843473	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	775520	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	439805	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	283845	50.50	ug/L	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	101.00%		
47) surr1,1,2-dichloroetha...	5.108	65	329948	53.89	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	107.78%		
64) SURR3,Toluene-d8	7.943	98	1041738	50.16	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	100.32%		
69) SURR2,BFB	10.729	95	416923	53.70	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	107.40%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	1195050	193.80	ug/L	98
3) Chloromethane	1.151	50	1074903	198.11	ug/L	98
4) Vinyl Chloride	1.212	62	1186977	192.74	ug/L	99
5) Bromomethane	1.401	94	548425	88.71	ug/L	99
6) Chloroethane	1.462	64	686896	157.16	ug/L	99
7) Freon 21	1.596	67	1814202	180.94	ug/L	99
8) Trichlorofluoromethane	1.639	101	1597249	177.00	ug/L	98
9) Diethyl Ether	1.846	59	806289	171.17	ug/L	97
10) Freon 123a	1.840	67	1052349	172.74	ug/L	93
11) Freon 123	1.889	83	1230355	176.62	ug/L	99
12) Acrolein	1.926	56	1472007	1167.72	ug/L	100
13) 1,1-Diclcethene	1.999	96	668669	184.23	ug/L	93
14) Freon 113	2.005	101	823312	180.88	ug/L	100
15) Acetone	2.042	43	519107	222.52	ug/L	99
16) 2-Propanol	2.176	45	2960451	4953.25	ug/L	97
17) Iodomethane	2.115	142	1563663	242.27	ug/L	100
18) Carbon Disulfide	2.163	76	2393659	207.08	ug/L	100
19) Acetonitrile	2.249	41	834214	1509.12	ug/L	97
20) Allyl Chloride	2.285	76	519155	219.11	ug/L	100
21) Methyl Acetate	2.304	43	1417398	237.04	ug/L	94
22) Methylene Chloride	2.383	84	938950	179.95	ug/L	93
23) TBA	2.517	59	4779733	4479.52	ug/L	97
24) Acrylonitrile	2.602	53	2900217	1123.91	ug/L	98
25) Methyl-t-Butyl Ether	2.651	73	3223050	200.65	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	805485	187.93	ug/L	97
27) 1,1-Diclcethane	3.060	63	1589451	197.63	ug/L	97
28) Vinyl Acetate	3.139	86	172813	235.84	ug/L #	61
29) DIPE	3.175	45	2891192	220.22	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.169	53	1406328	214.20	ug/L	95
31) ETBE	3.633	59	2917504	202.50	ug/L	95
32) 2,2-Dichloropropane	3.773	77	1390984	187.75	ug/L	98
33) cis-1,2-Dichloroethene	3.779	96	993796	183.11	ug/L	88
34) 2-Butanone	3.816	43	829191	229.94	ug/L	94
35) Propionitrile	3.883	54	1265593	1112.72	ug/L	100
36) Bromochloromethane	4.114	130	716555	176.27	ug/L #	87
37) Methacrylonitrile	4.114	67	601133	201.11	ug/L	86
38) Tetrahydrofuran	4.200	42	494868	216.34	ug/L	94
39) Chloroform	4.267	83	1633376	186.41	ug/L	99
40) 1,1,1-Trichloroethane	4.541	97	1420105	177.86	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3300.D
 Acq On : 5 Feb 2021 5:44 pm
 Operator : F.NAEGLER
 Sample : 200 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 06 09:13:09 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	2921282	195.63	ug/L	96
43) Cyclohexane	4.632	41	880084	226.90	ug/L	98
45) Carbontetrachloride	4.834	117	1276323	180.71	ug/L	99
46) 1,1-Dichloropropene	4.846	75	1177704	188.90	ug/L	97
48) Benzene	5.212	78	3506747	189.34	ug/L	96
49) 1,2-Dichloroethane	5.248	62	1380679	199.42	ug/L	96
50) Iso-Butyl Alcohol	5.273	43	1934466	4800.77	ug/L	100
51) n-Heptane	5.797	43	1029810	206.16	ug/L	93
52) 1-Butanol	6.388	56	3355326	12603.06	ug/L	97
53) Trichloroethene	6.297	130	1019215	161.22	ug/L	97
54) Methylcyclohexane	6.559	55	1148994	216.14	ug/L	89
55) 1,2-Diclpropane	6.602	63	953654	201.50	ug/L	96
56) Dibromomethane	6.754	93	729252	186.45	ug/L	86
57) 1,4-Dioxane	6.845	88	533444	4086.84	ug/L	94
58) Methyl Methacrylate	6.888	69	979759	215.23	ug/L	90
59) Bromodichloromethane	7.022	83	1359410	195.25	ug/L	98
60) 2-Nitropropane	7.333	41	896219	490.29	ug/L	99
61) 2-Chloroethylvinyl Ether	7.486	63	836229	249.07	ug/L	92
62) cis-1,3-Dichloropropene	7.620	75	1617297	208.47	ug/L	98
63) 4-Methyl-2-pentanone	7.857	43	1627395	234.91	ug/L	95
65) Toluene	8.022	91	4014436	187.60	ug/L	98
66) trans-1,3-Dichloropropene	8.327	75	1612124	218.18	ug/L	97
67) Ethyl Methacrylate	8.504	69	1671091	218.98	ug/L	91
68) 1,1,2-Trichloroethane	8.528	97	995323	187.75	ug/L	98
71) Tetrachloroethene	8.668	164	807440	169.08	ug/L	98
72) 2-Hexanone	8.869	43	1259158	244.36	ug/L	98
73) 1,3-Dichloropropane	8.711	76	1652523	195.53	ug/L	91
74) Dibromochloromethane	8.961	129	1196544	196.31	ug/L	98
75) N-Butyl Acetate	9.052	43	2264437	246.65	ug/L	96
76) 1,2-Dibromoethane	9.058	107	1137951	194.20	ug/L	97
77) 3-Chlorobenzotrifluoride	9.650	180	1639817	179.94	ug/L	98
78) Chlorobenzene	9.607	112	2714470	179.81	ug/L	96
79) 4-Chlorobenzotrifluoride	9.711	180	1471911	181.51	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	1065708	186.83	ug/L	98
81) Ethylbenzene	9.747	106	1372362	182.91	ug/L #	88
82) (m+p)Xylene	9.869	106	3486549	368.45	ug/L	91
83) o-Xylene	10.247	106	1717916	182.49	ug/L	94
84) Styrene	10.259	104	3087495	197.34	ug/L	95
85) Bromoform	10.412	173	991117	204.53	ug/L	98
86) 2-Chlorobenzotrifluoride	10.515	180	1644538	180.98	ug/L	99
87) Isopropylbenzene	10.607	105	4435378	188.29	ug/L	98
88) Cyclohexanone	10.662	55	6219273	4280.76	ug/L	95
89) trans-1,4-Dichloro-2-B...	10.930	53	490893	266.12	ug/L	88
91) 1,1,2,2-Tetrachloroethane	10.881	83	1665134	220.88	ug/L	99
92) Bromobenzene	10.845	156	1284919	171.52	ug/L #	86
93) 1,2,3-Trichloropropane	10.906	110	542375	179.78	ug/L	93
94) n-Propylbenzene	10.979	91	5199127	186.27	ug/L	96
95) 2-Chlorotoluene	11.034	91	3181942	183.96	ug/L	95
96) 3-Chlorotoluene	11.095	91	3407589	191.63	ug/L	97
97) 4-Chlorotoluene	11.137	91	3761261	191.20	ug/L	94
98) 1,3,5-Trimethylbenzene	11.143	105	3858860	182.89	ug/L	97
99) tert-Butylbenzene	11.418	119	3237601	177.20	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	3903239	186.68	ug/L	96
101) 3,4-Dichlorobenzotrifl...	11.534	214	1366573	180.93	ug/L	98
102) sec-Butylbenzene	11.607	105	4772656	183.75	ug/L	96
103) p-Isopropyltoluene	11.741	119	4203998	183.07	ug/L	100

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3300.D
 Acq On : 5 Feb 2021 5:44 pm
 Operator : F.NAEGLER
 Sample : 200 PPB STD Inst : MSVOA14
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 06 09:13:09 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration

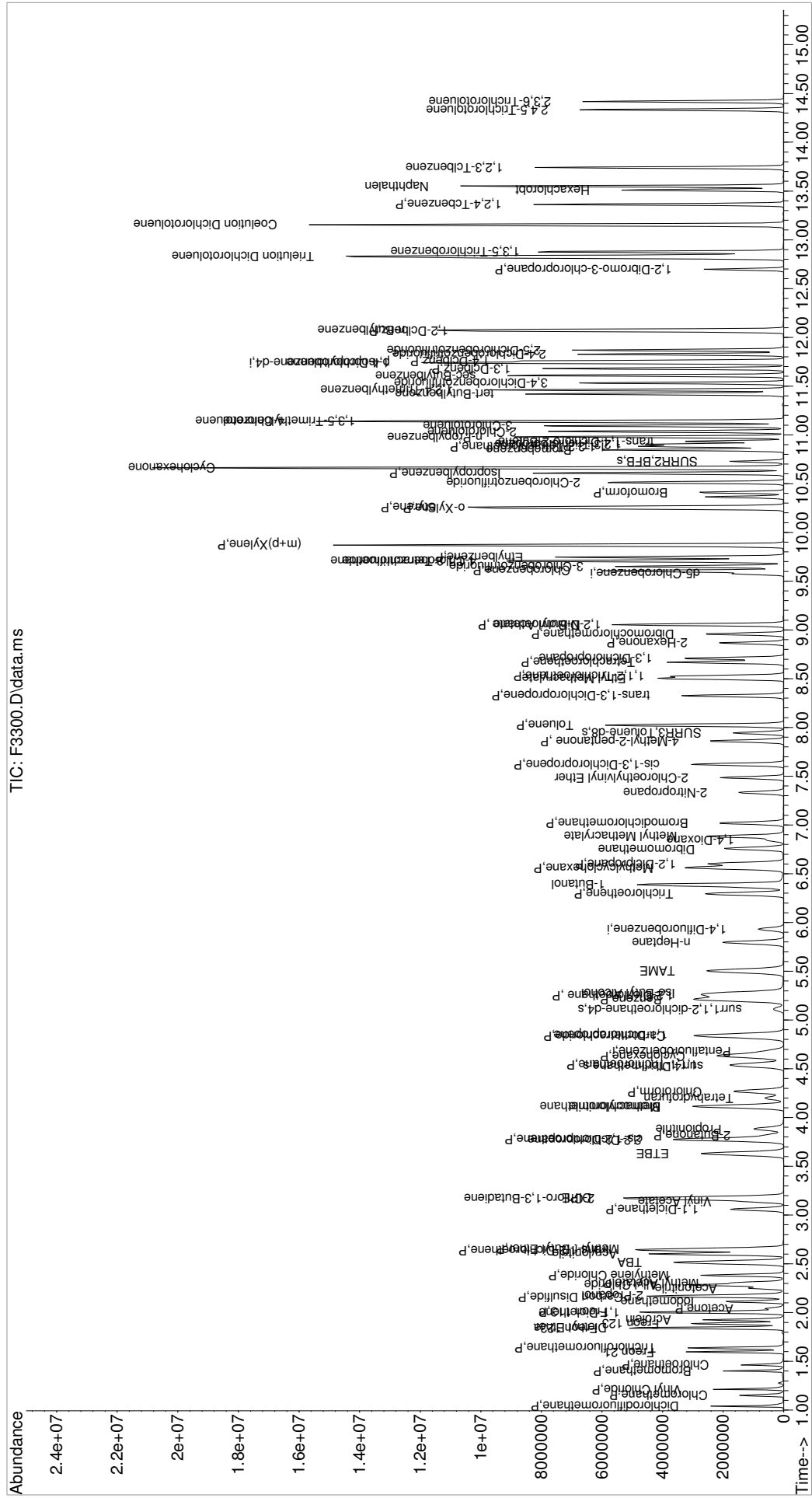
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	2401438	176.86	ug/L	98
105) 1,4-Dclbenz	11.759	146	2487954	175.99	ug/L	96
106) 2,4-Dichlorobenzotrifl...	11.826	214	1276211	188.11	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	1410729	185.59	ug/L	99
108) n-Butylbenzene	12.076	91	3777372	199.32	ug/L	98
109) 1,2-Dclbenz	12.064	146	2434197	178.58	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.698	157	550482	207.90	ug/L	94
111) Trielution Dichlorotol...	12.832	125	6671505	584.91	ug/L	95
112) 1,3,5-Trichlorobenzene	12.881	180	1950505	186.34	ug/L	99
113) Coelution Dichlorotoluene	13.155	125	4973468	410.41	ug/L	95
114) 1,2,4-Tcbenzene	13.362	180	1896073	198.66	ug/L	100
115) Hexachlorobt	13.509	225	788237	182.66	ug/L	99
116) Naphthalen	13.551	128	6053565	235.72	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	1905953	200.72	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	1369831	267.06	ug/L	96
119) 2,3,6-Trichlorotoluene	14.417	159	1215314	241.51	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\020521\
 Data File : F3300.D
 Acq On : 5 Feb 2021 5:44 pm
 Operator : F.NAEGLER
 Sample : 200 PPB STD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:13:09 2021
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Fri Jan 22 09:27:44 2021
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

1st *FJ* 02/06/21
 2nd *RL* 02/08/21

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3304.D
 Acq On : 5 Feb 2021 7:13 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:48:31 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 i	Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2 P	Dichlorodifluoromethane	50.000	53.930	-7.9	106	0.00
3 P	Chloromethane	50.000	55.201	-10.4	107	0.00
4 P	Vinyl Chloride	50.000	51.080	-2.2	104	0.00
5 P	Bromomethane	50.000	41.971	16.1	95	0.00
6 P	Chloroethane	50.000	47.120	5.8	105	0.00
7	Freon 21	50.000	43.496	13.0	83	0.00
8 P	Trichlorofluoromethane	50.000	52.564	-5.1	107	0.00
9	Diethyl Ether	50.000	51.963	-3.9	101	0.00
10	Freon 123a	50.000	52.641	-5.3	100	0.00
11	Freon 123	50.000	45.413	9.2	85	0.00
12	Acrolein	250.000	62.566	75.0#	23	0.00
13	1,1-Dicethene	50.000	61.736	-23.5#	127	0.00
14 P	Freon 113	50.000	50.280	-0.6	107	0.00
15 P	Acetone	50.000	51.507	-3.0	101	0.00
16	2-Propanol	1000.000	923.451	7.7	87	0.00
17	Iodomethane	50.000	44.480	11.0	80	0.00
18 P	Carbon Disulfide	50.000	44.638	10.7	85	0.00
19	Acetonitrile	250.000	282.396	-13.0	98	0.00
20	Allyl Chloride	50.000	49.864	0.3	99	0.00
21 P	Methyl Acetate	50.000	42.042	15.9	79	0.00
22 P	Methylene Chloride	50.000	49.530	0.9	103	0.00
23	TBA	1000.000	1053.509	-5.4	98	0.00
24	Acrylonitrile	250.000	274.562	-9.8	99	0.00
25 P	Methyl-t-Butyl Ether	50.000	52.909	-5.8	100	0.00
26 P	trans-1,2-Dichloroethene	50.000	57.770	-15.5	119	0.00
27 P	1,1-Dicethane	50.000	52.208	-4.4	107	0.00
28	Vinyl Acetate	50.000	56.398	-12.8	102	0.00
29	DIPE	50.000	55.009	-10.0	103	0.00
30	2-Chloro-1,3-Butadiene	50.000	45.966	8.1	87	0.00
31	ETBE	50.000	50.789	-1.6	95	0.00
32	2,2-Dichloropropane	50.000	50.120	-0.2	100	0.00
33 P	cis-1,2-Dichloroethene	50.000	54.875	-9.8	108	0.00
34 P	2-Butanone	50.000	51.572	-3.1	99	0.00
35	Propionitrile	250.000	271.741	-8.7	98	0.00
36	Bromochloromethane	50.000	51.950	-3.9	102	0.00
37	Methacrylonitrile	50.000	54.313	-8.6	98	0.00
38	Tetrahydrofuran	50.000	49.643	0.7	95	0.00
39 P	Chloroform	50.000	53.026	-6.1	106	0.00
40 P	1,1,1-Trichloroethane	50.000	51.907	-3.8	106	0.00
41	TAME	50.000	54.323	-8.6	101	0.00
42 i	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
43 P	Cyclohexane	50.000	44.741	10.5	87	0.00
44 s	surr4,Dibrflmethane	50.000	50.021	-0.0	101	0.00
45 P	Carbontetrachloride	50.000	51.476	-3.0	107	0.00
46	1,1-Dichloropropene	50.000	50.323	-0.6	106	0.00
47 s	surr1,1,2-dichloroethane-d4	50.000	49.778	0.4	103	0.00
48 P	Benzene	50.000	50.796	-1.6	105	0.00
49 P	1,2-Dichloroethane	50.000	51.014	-2.0	100	0.00
50	Iso-Butyl Alcohol	1000.000	1060.844	-6.1	97	0.00
51	n-Heptane	50.000	47.482	5.0	101	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3304.D
 Acq On : 5 Feb 2021 7:13 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 06 09:48:31 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	1-Butanol	2500.000	2453.717	1.9	92	0.00
53 P	Trichloroethene	50.000	51.024	-2.0	106	0.00
54 P	Methylcyclohexane	50.000	45.358	9.3	86	0.00
55 P	1,2-Diclp propane	50.000	52.503	-5.0	103	0.00
56	Dibromomethane	50.000	51.233	-2.5	98	0.00
57	1,4-Dioxane	1000.000	1030.216	-3.0	94	0.00
58	Methyl Methacrylate	50.000	54.436	-8.9	99	0.00
59 P	Bromodichloromethane	50.000	51.305	-2.6	99	0.00
60	2-Nitropropane	100.000	105.977	-6.0	97	0.00
61	2-Chloroethylvinyl Ether	50.000	53.570	-7.1	96	0.00
62 P	cis-1,3-Dichloropropene	50.000	52.045	-4.1	99	0.00
63 P	4-Methyl-2-pentanone	50.000	53.393	-6.8	100	0.00
64 s	SURR3,Toluene-d8	50.000	50.145	-0.3	103	0.00
65 P	Toluene	50.000	51.647	-3.3	106	0.00
66 P	trans-1,3-Dichloropropene	50.000	53.427	-6.9	98	0.00
67	Ethyl Methacrylate	50.000	56.847	-13.7	101	0.00
68 P	1,1,2-Trichloroethane	50.000	52.335	-4.7	102	0.00
69 s	SURR2,BFB	50.000	49.780	0.4	101	0.00
70 i	d5-Chlorobenzene	50.000	50.000	0.0	101	0.00
71 P	Tetrachloroethene	50.000	50.074	-0.1	107	0.00
72 P	2-Hexanone	50.000	55.026	-10.1	101	0.00
73	1,3-Dichloropropene	50.000	52.292	-4.6	99	0.00
74 P	Dibromochloromethane	50.000	56.223	-12.4	102	0.00
75	N-Butyl Acetate	50.000	48.873	2.3	91	0.00
76 P	1,2-Dibromoethane	50.000	54.309	-8.6	98	0.00
77	3-Chlorobenzotrifluoride	50.000	46.342	7.3	87	0.00
78 P	Chlorobenzene	50.000	52.356	-4.7	105	0.00
79	4-Chlorobenzotrifluoride	50.000	46.343	7.3	87	0.00
80	1,1,1,2-Tetrachloroethane	50.000	53.826	-7.7	102	0.00
81 P	Ethylbenzene	50.000	52.522	-5.0	105	0.00
82 P	(m+p)Xylene	100.000	105.061	-5.1	106	0.00
83 P	o-Xylene	50.000	53.573	-7.1	106	0.00
84 P	Styrene	50.000	53.906	-7.8	102	0.00
85 P	Bromoform	50.000	55.237	-10.5	97	0.00
86	2-Chlorobenzotrifluoride	50.000	46.765	6.5	88	0.00
87 P	Isopropylbenzene	50.000	53.262	-6.5	107	0.00
88	Cyclohexanone	1000.000	1112.485	-11.2	102	0.00
89	trans-1,4-Dichloro-2-Butene	50.000	54.890	-9.8	94	0.00
90 i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
91 P	1,1,2,2-Tetrachloroethane	50.000	53.382	-6.8	96	0.00
92	Bromobenzene	50.000	51.002	-2.0	100	0.00
93	1,2,3-Trichloropropene	50.000	50.176	-0.4	95	0.00
94	n-Propylbenzene	50.000	53.132	-6.3	107	0.00
95	2-Chlorotoluene	50.000	51.826	-3.7	104	0.00
96	3-Chlorotoluene	50.000	48.307	3.4	91	0.00
97	4-Chlorotoluene	50.000	51.659	-3.3	104	0.00
98	1,3,5-Trimethylbenzene	50.000	53.216	-6.4	105	0.00
99	tert-Butylbenzene	50.000	53.027	-6.1	108	0.00
100	1,2,4-Trimethylbenzene	50.000	53.442	-6.9	105	0.00
101	3,4-Dichlorobenzotrifluorid	50.000	45.269	9.5	86	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\020521\
 Data File : F3304.D
 Acq On : 5 Feb 2021 7:13 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV Inst : MSVOA14
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 06 09:48:31 2021
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W020521.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Sat Feb 06 09:15:32 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	sec-Butylbenzene	50.000	53.543	-7.1	108	0.00
103	p-Isopropyltoluene	50.000	52.892	-5.8	106	0.00
104 P	1,3-Dclbenz	50.000	51.135	-2.3	102	0.00
105 P	1,4-Dclbenz	50.000	49.823	0.4	101	0.00
106	2,4-Dichlorobenzotrifluorid	50.000	45.102	9.8	87	0.00
107	2,5-Dichlorobenzotrifluorid	50.000	46.636	6.7	89	0.00
108	n-Butylbenzene	50.000	53.420	-6.8	104	0.00
109 P	1,2-Dclbenz	50.000	49.885	0.2	100	0.00
110 P	1,2-Dibromo-3-chloropropane	50.000	54.748	-9.5	95	0.00
111	Trielution Dichlorotoluene	150.000	144.296	3.8	90	0.00
112	1,3,5-Trichlorobenzene	50.000	46.627	6.7	90	0.00
113	Coelution Dichlorotoluene	100.000	97.945	2.1	91	0.00
114 P	1,2,4-Tcbenzene	50.000	52.302	-4.6	98	0.00
115	Hexachlorobt	50.000	50.472	-0.9	101	0.00
116	Naphthalen	50.000	53.044	-6.1	96	0.00
117	1,2,3-Tclbenzene	50.000	49.876	0.2	95	0.00
118	2,4,5-Trichlorotoluene	50.000	49.302	1.4	91	0.00
119	2,3,6-Trichlorotoluene	50.000	48.169	3.7	91	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

ALS Group USA, Corp.

DBA ALS Environmental

QC/QC Report

Date Analyzed: 2/5/21 13:55

ICAL Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\020521\F3290.D
Instrument ID: R-MS-14

Analytical Method: 8260C/624.1

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	20.0	47757	PASS
75	95	30	60	50.7	121262	PASS
95	95	100	100	100.0	239317	PASS
96	95	5	9	6.5	15618	PASS
173	174	0	2	0.6	1352	PASS
174	95	50	120	88.9	212779	PASS
175	174	5	9	7.6	16225	PASS
176	174	95	101	96.0	204168	PASS
177	176	5	9	7.2	14731	PASS

Sample Name	Lab Code	File ID:	Date Analyzes: Q
ICALBLK	ICALBLK	I:\ACQUDATA\MSVOA14\DATA\020521\F3291.D	2/5/21 14:23
0.5 PPB STD	0.5 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3292.D	2/5/21 14:45
1.0 PPB STD	1.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3293.D	2/5/21 15:08
2.0 PPB STD	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3294.D	2/5/21 15:30
5.0 PPB STD	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3295.D	2/5/21 15:52
20 PPB STD	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3296.D	2/5/21 16:15
50 PPB STD	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3297.D	2/5/21 16:37
100 PPB STD	100 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3298.D	2/5/21 16:59
150 PPB STD	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\020521\F3299.D	2/5/21 17:22
200 PPB STD	200 PPB STD	I:\ACQUDATA\MSVOA14\DATA\020521\F3300.D	2/5/21 17:44
50 PPB ICV	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\020521\F3304.D	2/5/21 19:13

Analysis: 82600/624 Analyst: F. N. ... pH strips: --- Tune Method: W020521.M
 Date: 2/5/21 Balance ID: --- ResCl strips: --- Run Method: ↓
 Instr: M514 50 mL Class A used for dilution FV Syringes: 210903/77958 LIMS Run#: ---

Data Path: j:\acquadalmvsoe\InstID\Date

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	Bulk							F3287	Y	
2	↓							88	Y	
3	↓							89	Y	
1	TUNE							90	Y	
1	ICAL Bulk							91	Y	
2	0.5 ppb std							92	Y	
3	1.0							93	Y	
4	2.0							94	Y	
5	5.0							95	Y	
6	20							96	Y	
7	50							97	Y	
8	100							98	Y	
9	150							99	Y	
10	200							F3300	Y	
11	Bulk							01	Y	
12	↓							02	Y	
13	↓							03	Y	
14	50 ppb IOV							04	Y	
15	Bulk							05	Y	
16	↓							06	Y	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	20	50	100	150	200
1° T/Ga = 215384	10ul/1ml 5ul/50ul	10ul/5ml 20ul/10ml	20ul/10ml 5ul/50ul	50ul/50ul	2ul/50ul	5ul/50ul	10ul/50ul	15ul/50ul	20ul/50ul
1° HSL = 215356	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° FC = 215191	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° OCC = 214939	↓	↓	↓	↓	↓	↓	↓	↓	↓

All samples = 5 ml + 5 ul combined IS/Surr. 5 ml purged

Primary SEE ABOVE
 Primary
 Primary
 Primary

FR Secondary 200 : 215499
 T/Ga Secondary 50 : 215014
 HSL Secondary 50 : 214998
 OCC Secondary 50 : 215003
 Secondary

Combined IS/Surr
 Surrogate 50 : 215378
 Internal Std 50 : 215379
 Reagents:

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2102165
Calibration Date: 2/5/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC2100017
Instrument ID: R-MS-14

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2100017-01	0.5 PPB STD	I:\ACQUADATA\MSVOA14\Data\020521\F3292.D	02/05/2021 14:45
02	RC2100017-02	1.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\020521\F3293.D	02/05/2021 15:08
03	RC2100017-03	2.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\020521\F3294.D	02/05/2021 15:30
04	RC2100017-04	5.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\020521\F3295.D	02/05/2021 15:52
05	RC2100017-05	20 PPB STD	I:\ACQUADATA\MSVOA14\Data\020521\F3296.D	02/05/2021 16:15
06	RC2100017-06	50 PPB STD	I:\ACQUADATA\MSVOA14\Data\020521\F3297.D	02/05/2021 16:37
07	RC2100017-07	100 PPB STD	I:\ACQUADATA\MSVOA14\Data\020521\F3298.D	02/05/2021 16:59
08	RC2100017-08	150 PPB STD	I:\ACQUADATA\MSVOA14\Data\020521\F3299.D	02/05/2021 17:22
09	RC2100017-09	200 PPB STD	I:\ACQUADATA\MSVOA14\Data\020521\F3300.D	02/05/2021 17:44

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7346	02	1.000	0.6639	03	2.000	0.5942	04	5.000	0.6904
05	20.000	0.6393	06	50.000	0.6264	07	100.000	0.6927	08	150.000	0.5259
09	200.000	0.5929									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8182	02	1.000	0.7313	03	2.000	0.6292	04	5.000	0.7696
05	20.000	0.6955	06	50.000	0.695	07	100.000	0.7569	08	150.000	0.6066
09	200.000	0.6636									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3402	02	1.000	0.3021	03	2.000	0.2653	04	5.000	0.3197
05	20.000	0.296	06	50.000	0.2893	07	100.000	0.3186	08	150.000	0.2493
09	200.000	0.2792									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5016	05	20.000	0.4286	06	50.000	0.4754	07	100.000	0.4867
08	200.000	0.4923									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3688	05	20.000	0.3057	06	50.000	0.3361	07	100.000	0.3344
08	200.000	0.331									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3541	02	1.000	0.3075	03	2.000	0.3052	04	5.000	0.3214
05	20.000	0.302	06	50.000	0.2822	07	100.000	0.3089	08	150.000	0.2264
09	200.000	0.2603									

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2102165
Calibration Date: 2/5/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC2100017
Instrument ID: R-MS-14

Signal ID: 1

Analyte

Toluene-d8											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.365	05	20.000	1.163	06	50.000	1.229	07	100.000	1.241
08	200.000	1.234									

Trichloroethene (TCE)											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.39	02	1.000	0.3535	03	2.000	0.325	04	5.000	0.3721
05	20.000	0.3443	06	50.000	0.3324	07	100.000	0.3524	08	150.000	0.2735
09	200.000	0.3021									

Vinyl Chloride											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5972	02	1.000	0.5477	03	2.000	0.4702	04	5.000	0.5734
05	20.000	0.5247	06	50.000	0.5189	07	100.000	0.5629	08	150.000	0.4254
09	200.000	0.4955									

cis-1,2-Dichloroethene											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4208	02	1.000	0.4674	03	2.000	0.4098	04	5.000	0.4814
05	20.000	0.4449	06	50.000	0.4462	07	100.000	0.4774	08	150.000	0.3827
09	200.000	0.4149									

trans-1,2-Dichloroethene											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4055	02	1.000	0.3633	03	2.000	0.3233	04	5.000	0.3785
05	20.000	0.3541	06	50.000	0.3455	07	100.000	0.3829	08	150.000	0.3027
09	200.000	0.3363									

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2102165
Calibration Date: 2/5/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC2100017
Instrument ID: R-MS-14

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	9.9	20	0.64	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	9.7	20	0.7073	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	9.7	20	0.2955	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	6.0	20	0.4769	
Dibromofluoromethane	SURR	Average RF	% RSD	6.7	20	0.3352	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	12.4	20	0.2965	0.200
Toluene-d8	SURR	Average RF	% RSD	5.9	20	1.246	
Trichloroethene (TCE)	TRG	Average RF	% RSD	10.5	20	0.3384	0.200
Vinyl Chloride	TRG	Average RF	% RSD	10.3	20	0.524	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	7.7	20	0.4384	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	9.0	20	0.3547	0.100

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2102165
Calibration Date: 2/5/2021

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC2100017
Instrument ID: R-MS-14

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2100017-10	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\020521\F3304.D	02/05/2021 19:13

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	51.9	6.4E-1	6.644E-1	3.81	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	52.2	7.073E-1	7.386E-1	4.42	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	61.7	2.955E-1	3.649E-1	23.47	±30	Average RF
Tetrachloroethene (PCE)	50.0	50.1	2.965E-1	2.969E-1	0.148	±30	Average RF
Trichloroethene (TCE)	50.0	51.0	3.384E-1	3.453E-1	2.05	±30	Average RF
Vinyl Chloride	50.0	51.1	5.24E-1	5.353E-1	2.16	±30	Average RF
cis-1,2-Dichloroethene	50.0	54.9	4.384E-1	4.811E-1	9.75	±30	Average RF
trans-1,2-Dichloroethene	50.0	57.8	3.547E-1	4.098E-1	15.54	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	49.8	4.769E-1	4.748E-1	-0.440	±30	Average RF
Dibromofluoromethane	50.0	50.0	3.352E-1	3.353E-1	0.043	±30	Average RF
Toluene-d8	50.0	50.1	1.246E0	1.25E0	0.291	±30	Average RF

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2102165
Date Analyzed: 03/11/21 10:50

**Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved**

Analysis Method: 8260C
File ID: I:\ACQUADATA\MSVOA14\Data\031121\F4070.D\
Signal ID: 1

Calibration Date: 2/5/2021
Calibration ID: RC2100017
Analysis Lot: 715721
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	50.5	0.64	0.6465	1.0	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	52.2	0.7073	0.738	4.3	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	52.1	0.2955	0.3082	4.3	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	48.1	0.2965	0.2849	-3.9	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.4	0.3384	0.3479	2.8	NA	±20	Average RF
Vinyl Chloride	50.0	53.0	0.524	0.5551	5.9	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	54.4	0.4384	0.4766	8.7	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	52.7	0.3547	0.374	5.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	51.5	0.4769	0.4915	3.1	NA	±20	Average RF
Dibromofluoromethane	50.0	50.0	0.3352	0.3354	0.1	NA	±20	Average RF
Toluene-d8	50.0	52.0	1.2464	1.297	4.1	NA	±20	Average RF

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:715721
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\031121\F4069.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	10:18:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4070.D\	Continuing Calibration Verification	RQ2102511-02	3/11/2021	10:50:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4072.D\	Lab Control Sample	RQ2102511-03	3/11/2021	12:00:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4073.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	12:22:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4074.D\	Method Blank	RQ2102511-05	3/11/2021	12:54:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4075.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	13:17:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4076.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	13:39:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4077.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	14:01:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4078.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	14:24:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4079.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	14:46:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4080.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	15:08:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4081.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	15:31:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4082.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	15:53:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4083.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	16:15:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4084.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	16:38:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4085.D\	MW-16 030921	R2102165-004	3/11/2021	17:00:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4086.D\	DUP-030921	R2102165-007	3/11/2021	17:22:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4087.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	17:45:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4088.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	18:07:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4089.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	18:29:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4090.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	18:51:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4091.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	19:14:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4093.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	19:58:00	

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2102165

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:715721
Instrument ID:R-MS-14

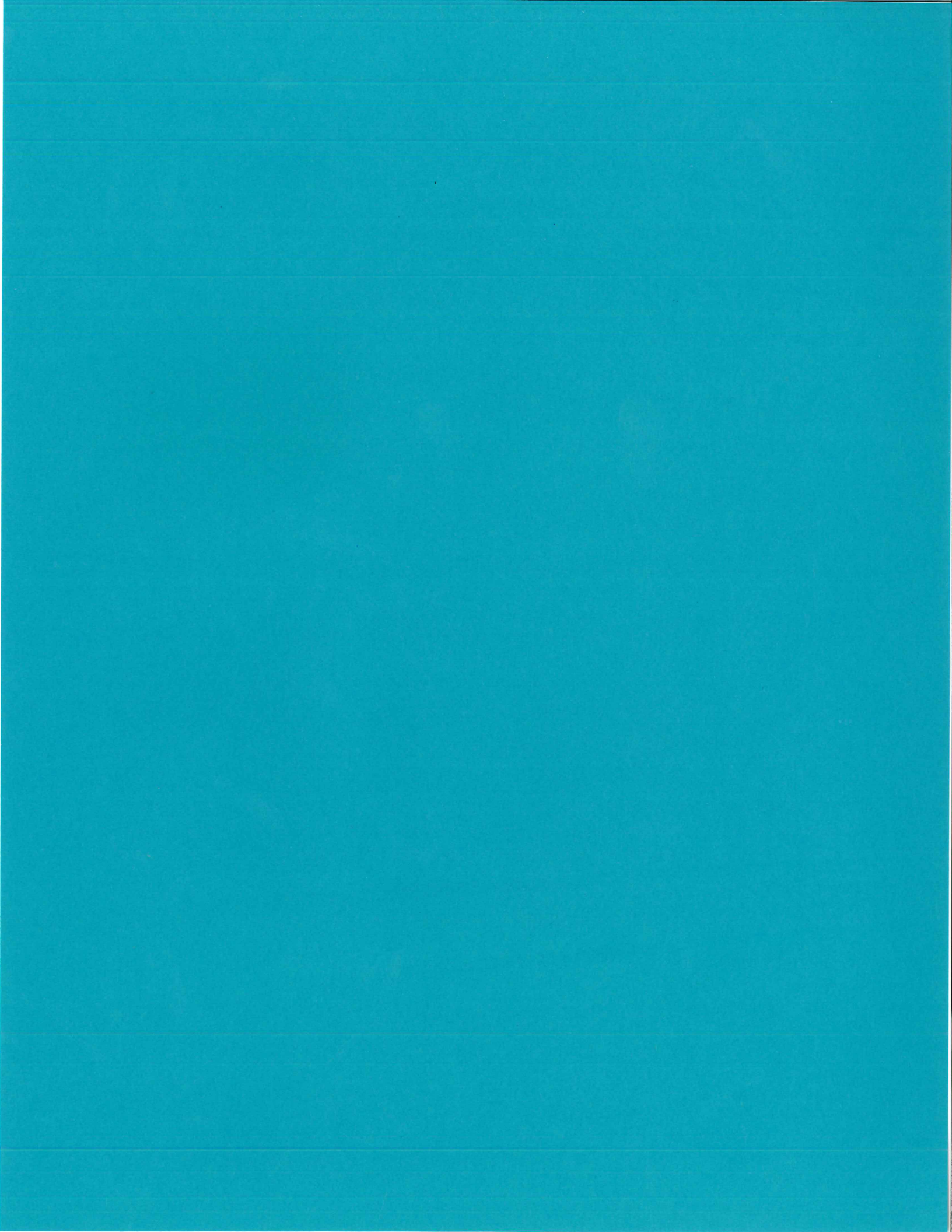
Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\031121\F4094.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	20:21:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4095.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	20:43:00	
I:\ACQUDATA\MSVOA14\Data\031121\F4096.D\	ZZZZZZZ	ZZZZZZZ	3/11/2021	21:06:00	

Analysis: 82601624 Analyst: F. V. Eagle pH strips: 222420 Tune Method: W020521.M
 Date: 3/11/21 Balance ID: --- ResCl strips: 0914206 Run Method: ---
 Instr: MS14 50 mL Class A used for dilution FV Syringes: 210903 | 71958 LIMS Run#: 715721

Data Path: j:\acq\data\msvoa\InstID\Date

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BK							F4067	Y	
2	BK							68	Y	
3	TUNE							70	Y	
1	CEV							71	(N)	
2	LOS-VUP							72	Y	
2	LOS-VUP							73	Y	
3	LOS-EK							74	Y	
4	MBL-VUP							75	Y	
5	R2102168-003	1.0		13189	2	1	(6)	76	Y	+ TICs
6	↓	-001		↓	↓	1	(7)	77	Y	↓
7	R2102113-002	1.0		15891	2	1	(7)	78	Y	
8	↓	-003		↓	↓	1	(6)	79	Y	Rot 1, 250
9	↓	-003	5/50mL	16102	↓	1	(6)	80	Y	(DL)
10	R2102170-004	1.0	7/250mL	11868	2	1	(6)	81	Y	
11	↓	-003		↓	↓	1	(6)	82	Y	
12	R2102193-006	1.0		19116	2	1	(6)	83	Y	
13	↓	-007		↓	↓	1	(6)	84	Y	
14	↓	-011		↓	↓	1	(7)	85	Y	
15	R2102165-004	1.0		7979	4	1	(7)	86	Y	
16	↓	-007		↓	↓	1	(7)	87	Y	
17	R2102197-010	1.0		13976	2	1	(7)	88	Y	
18	↓	-003		↓	↓	1	(7)	89	Y	
19	↓	-005		↓	↓	1	(7)	90	Y	
20	↓	-007		↓	↓	1	(7)	91	Y	
21	↓	-008		↓	↓	1	(7)	92	Y	
22	↓	-009		↓	↓	1	(7)	93	Y	
23	R2102194-001	1.0	10/50mL	9893	2	1	(7)	94	Y	Rot 1
24	↓	-002		↓	↓	1	(7)	95	Y	
25	R2102168-001M	1.0		13189	2	2	(7)	96	Y	
26	↓	-001M5D		↓	↓	3	(7)	97	Y	
27	BK							98	Y	
28	↓								Y	

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged
 FR Secondary 200 : 215477 - 5uL
 TK6 Secondary 500 : 215497 - 2uL
 HSL Secondary : 215698 - ---
 OCE Secondary : 215498 - ---
 G/L Secondary 200 : 215511 - 5uL
 TK6 Primary 500 : 215467 - 5uL
 HSL Primary : 215694 - ---
 FR Primary : 215476 - ---
 OCE Primary : 214939 - ---
 Primary : ---





September 29, 2021

Service Request No:R2109484

Ms. Sarah MacCarter
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

Laboratory Results for: Dover Binghamton

Dear Ms.MacCarter,

Enclosed are the results of the sample(s) submitted to our laboratory September 15, 2021
For your reference, these analyses have been assigned our service request number **R2109484**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: Verina Consulting Group, LLC
Project: Dover Binghamton
Sample Matrix: Water

Service Request: R2109484
Date Received: 09/15/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 09/15/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

A handwritten signature in black ink, appearing to read "Samantha", is written over a horizontal line.

Approved by _____

Date 09/29/2021



SAMPLE DETECTION SUMMARY

CLIENT ID: TMP-A-091421 Lab ID: R2109484-002

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.41	J	0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.83	J	0.20	1.0	ug/L	8260C

CLIENT ID: MW-11-091421 Lab ID: R2109484-004

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.71	J	0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.46	J	0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	0.21	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	0.32	J	0.23	1.0	ug/L	8260C

CLIENT ID: MW-13-091421 Lab ID: R2109484-005

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene (TCE)	0.29	J	0.20	1.0	ug/L	8260C

CLIENT ID: MW-10-091421 Lab ID: R2109484-007

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	1.9		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.74	J	0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.81	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	14		0.20	1.0	ug/L	8260C
Vinyl Chloride	0.25	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	3.4		0.23	1.0	ug/L	8260C

CLIENT ID: MW-9-091421 Lab ID: R2109484-008

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.60	J	0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.31	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	20		0.20	1.0	ug/L	8260C

CLIENT ID: MW-17-091421 Lab ID: R2109484-009

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	3.4		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	36		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	5.1		0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.61	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	74		0.20	1.0	ug/L	8260C
Vinyl Chloride	30		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	200		0.23	1.0	ug/L	8260C
trans-1,2-Dichloroethene	5.0		0.20	1.0	ug/L	8260C

CLIENT ID: MW-8-091421 Lab ID: R2109484-010

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	2.4	J	0.50	2.5	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	3.3		0.50	2.5	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-8-091421 **Lab ID: R2109484-010**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethene (1,1-DCE)	5.9		0.50	2.5	ug/L	8260C
Trichloroethene (TCE)	630	D	1.0	5.0	ug/L	8260C
Vinyl Chloride	10		0.50	2.5	ug/L	8260C
cis-1,2-Dichloroethene	700	D	1.2	5.0	ug/L	8260C
trans-1,2-Dichloroethene	9.7		0.50	2.5	ug/L	8260C

CLIENT ID: MW-16-091421 **Lab ID: R2109484-011**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	24		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	32		0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.52	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	80		0.20	1.0	ug/L	8260C
Vinyl Chloride	0.24	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	130		0.23	1.0	ug/L	8260C
trans-1,2-Dichloroethene	5.0		0.20	1.0	ug/L	8260C

CLIENT ID: Dup-091421 **Lab ID: R2109484-012**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	24		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	30		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	75		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	120		0.23	1.0	ug/L	8260C
trans-1,2-Dichloroethene	4.6		0.20	1.0	ug/L	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2109484-001	DMW-3-091421	9/14/2021	0945
R2109484-002	TMP-A-091421	9/14/2021	1005
R2109484-003	Trip Blank-091421	9/14/2021	
R2109484-004	MW-11-091421	9/14/2021	1040
R2109484-005	MW-13-091421	9/14/2021	1110
R2109484-006	FB-091421	9/14/2021	1130
R2109484-007	MW-10-091421	9/14/2021	1210
R2109484-008	MW-9-091421	9/14/2021	1215
R2109484-009	MW-17-091421	9/14/2021	1245
R2109484-010	MW-8-091421	9/14/2021	1355
R2109484-011	MW-16-091421	9/14/2021	1455
R2109484-012	Dup-091421	9/14/2021	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

060995

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name Dover Binghamton		Project Number 5101.0003		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																			
Project Manager Sarah MacCarter		Report CC		PRESERVATIVE																			
Company/Address 1011 US Highway 22 Suite 302 Bridgewater, NJ 08807				NUMBER OF CONTAINERS	GC/MS VOAs • 8280 • 828 • CLP • 8270 • 825	GC/MS SVOCs • 8021 • 801/802	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS TOTAL (List in comments below)	METALS DISSOLVED (List in comments below)										Preservative Key 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____			
Phone # 908.864.4400		Email smaccarter@vcg-11c.com																			REMARKS/ ALTERNATE DESCRIPTION		
Sampler's Signature		Sampler's Printed Name																					
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX																		
DMW-3-091421		9/14/21	0945	GW	3	✓																	
TMP-A-091421		9-14-21	1005	GW	1	✓																	
Trip/Blank-091421		9-14-21	-	TR		X																	
MLW-11-091421	*	9-14-21	1040	GW		X																	Sodium thio added
MLW-13-091421			1110	GW		X																	
FB-091421			1130	FB		X																	
MW-10-091421			1210	GW		X																	
MW-9-091421			1215	GW		X																	TD = MW-9-091421
MW-17-091421			1245	GW		X																	
MS-091421			1245	GW	✓	X																	
MSD-091421		9/14-21	1245	GW	3	X																	
SPECIAL INSTRUCTIONS/COMMENTS Metals - SPL VOCs = PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, 1,1-DCA, 1,1,1-TCA + vinyl chloride.						TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day ___ 5 day ___ <input checked="" type="checkbox"/> Standard (10 business days-No Surcharge)						REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata <input checked="" type="checkbox"/> Yes ___ No						INVOICE INFORMATION PO # 5101.0003 BILL TO:					
See QAPP <input type="checkbox"/>																							
STATE WHERE SAMPLES WERE COLLECTED NY																							
RELINQUISHED BY S. MacCarter		RECEIVED BY [Signature]		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY	
Signature S. MacCarter		Signature [Signature]		Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
Firm Verina		Firm [Signature]		Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm	
Date/Time 9/14/21 17:00		Date/Time 9/15/21 0805		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	

R2109484 5
 Verina Consulting Group, LLC
 Dover Binghamton



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

060999

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax)

PAGE 2 OF 2

Project Name Dover-Binghamton		Project Number 5101.0003		ANALYSIS REQUESTED (Include Method Number and Container Preservative)														
Project Manager Sarah MacCarter		Report CC		PRESERVATIVE + +														
Company/Address Verina Consulting Group 1011 US Hwy 20, Suite 302 Bridgewater, NJ 08807				NUMBER OF CONTAINERS	GC/MS VOCs • 8280 • 824 • CLP • 8270 • 825	GC/MS SVOCs • 8021 • 801/802	PESTICIDES • 8091 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)								Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other
Phone # 908-864-4400		Email smaccarter@vcg-llc.com																
Sampler's Signature		Sampler's Printed Name																
REMARKS/ ALTERNATE DESCRIPTION																		

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX	3	X
		DATE	TIME			
MW-8		9/14/21	13:55	GW	3	X
MW-16	X	9/14/21	14:55	GW	3	X
DUP-091421	X	9/14/21	-	GW	3	X

SPECIAL INSTRUCTIONS/COMMENTS
 Metals: **SSPL VOCs = PCB, TCE, cis-DCB, trans-1,2-DCB, 1,1-DCB, 1,1-DCA, 1,1,1-TCA + Vinyl chloride.**

TURNAROUND REQUIREMENTS
 RUSH (SURCHARGES APPLY)
 1 day 2 day 3 day
 4 day 5 day
 Standard (10 business days-No Surcharge)
 REQUESTED REPORT DATE

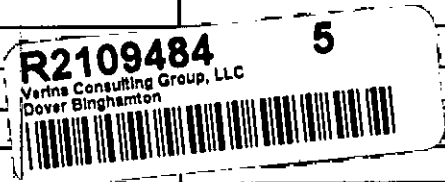
REPORT REQUIREMENTS
 I. Results Only
 II. Results + QC Summaries (LCS, DUP, MS/SD as required)
 III. Results + QC and Calibration Summaries
 IV. Data Validation Report with Raw Data
 Edata Yes ___ No

INVOICE INFORMATION
 PO #
 BILL TO:

See QAPP

STATE WHERE SAMPLES WERE COLLECTED **NY**

RELINQUISHED BY S. MacCarter	RECEIVED BY Greg Leto	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm Verina	Firm ACS	Firm	Firm	Firm	Firm
Date/Time 9/14/21 7:00	Date/Time 9/15/21 10:05	Date/Time	Date/Time	Date/Time	Date/Time





Cooler Receipt and Preservation Check Form

Project/Client FRC Verina Folder Number _____

Cooler received on 9/15/21 by: @

COURIER: ALS UPS PEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice <u>Gel packs</u> present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 9/15/21 Time: 0810 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.0</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Roe by e on 9/15/21 at NR20
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 9/14/21 Time: 0858 by: @

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 1-027-008 2596

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: @
PC Secondary Review: ms 9/20/21

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2109484-001.01	8260C	9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1743	R-001-S12 / KRUEST	
		9/21/2021	1212	In Lab / KRUEST	
		9/21/2021	1222	R-001-S12 / KRUEST	
R2109484-001.02		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-001.03		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-002.01	8260C	9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1743	R-001-S12 / KRUEST	
		9/21/2021	1212	In Lab / KRUEST	
		9/21/2021	1222	R-001-S12 / KRUEST	
R2109484-002.02		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-002.03		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-003.01	8260C	9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1743	R-001-S12 / KRUEST	
		9/21/2021	1212	In Lab / KRUEST	
		9/21/2021	1222	R-001-S12 / KRUEST	
R2109484-003.02		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2109484-003.03					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-004.01					
	8260C				
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1253	In Lab / KRUEST	
		9/20/2021	1453	R-001-S12 / KRUEST	
R2109484-004.02					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-004.03					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-005.01					
	8260C				
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1743	R-001-S12 / KRUEST	
		9/21/2021	1212	In Lab / KRUEST	
		9/21/2021	1222	R-001-S12 / KRUEST	
R2109484-005.02					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-005.03					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-006.01					
	8260C				
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1743	R-001-S12 / KRUEST	
R2109484-006.02					
		9/16/2021	0856	SMO / GLAFORCE	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-006.03		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-007.01	8260C	9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1743	R-001-S12 / KRUEST	
		9/21/2021	1212	In Lab / KRUEST	
		9/21/2021	1222	R-001-S12 / KRUEST	
R2109484-007.02		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-007.03		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-008.01	8260C	9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1743	R-001-S12 / KRUEST	
		9/21/2021	1212	In Lab / KRUEST	
		9/21/2021	1223	R-001-S12 / KRUEST	
R2109484-008.02		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-008.03		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-009.01	8260C	9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1253	In Lab / KRUEST	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		9/20/2021	1453	R-001-S12 / KRUEST	
R2109484-009.02					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-009.03					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-009.04					
		9/16/2021	0857	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-009.05					
		9/16/2021	0857	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-009.06					
		9/16/2021	0857	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-009.07					
		9/16/2021	0857	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-009.08					
		9/16/2021	0857	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-009.09					
		9/16/2021	0857	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-010.01					
	8260C,8260C				
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1743	R-001-S12 / KRUEST	
		9/21/2021	1212	In Lab / KRUEST	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C,8260C	9/21/2021	1223	R-001-S12 / KRUEST	
R2109484-010.02					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/22/2021	1150	In Lab / KRUEST	
		9/22/2021	1257	R-001-S12 / KRUEST	
R2109484-010.03					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-011.01					
	8260C	9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1253	In Lab / KRUEST	
		9/20/2021	1453	R-001-S12 / KRUEST	
R2109484-011.02					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-011.03					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-012.01					
	8260C	9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
		9/20/2021	1253	In Lab / KRUEST	
		9/20/2021	1453	R-001-S12 / KRUEST	
R2109484-012.02					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	
R2109484-012.03					
		9/16/2021	0856	SMO / GLAFORCE	
		9/16/2021	0857	R-001 / GLAFORCE	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed (>100% Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484

Sample Name: DMW-3-091421
Lab Code: R2109484-001
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: TMP-A-091421
Lab Code: R2109484-002
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: Trip Blank-091421
Lab Code: R2109484-003
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-11-091421
Lab Code: R2109484-004
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-13-091421
Lab Code: R2109484-005
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484

Sample Name: FB-091421
Lab Code: R2109484-006
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-10-091421
Lab Code: R2109484-007
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-9-091421
Lab Code: R2109484-008
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-17-091421
Lab Code: R2109484-009
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-8-091421
Lab Code: R2109484-010
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484

Sample Name: MW-8-091421
Lab Code: R2109484-010.R01
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-16-091421
Lab Code: R2109484-011
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: Dup-091421
Lab Code: R2109484-012
Sample Matrix: Water

Date Collected: 09/14/21
Date Received: 09/15/21

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 09:45
Date Received: 09/15/21 08:05

Sample Name: DMW-3-091421
Lab Code: R2109484-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/21/21 18:22	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 18:22	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 18:22	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 18:22	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/21/21 18:22	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 18:22	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 18:22	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 18:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/21/21 18:22	
Dibromofluoromethane	105	80 - 116	09/21/21 18:22	
Toluene-d8	109	87 - 121	09/21/21 18:22	

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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 10:05
Date Received: 09/15/21 08:05

Sample Name: TMP-A-091421
Lab Code: R2109484-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.41 J	1.0	0.20	1	09/21/21 18:44	
1,1-Dichloroethane (1,1-DCA)	0.83 J	1.0	0.20	1	09/21/21 18:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 18:44	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 18:44	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/21/21 18:44	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 18:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 18:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 18:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/21/21 18:44	
Dibromofluoromethane	103	80 - 116	09/21/21 18:44	
Toluene-d8	108	87 - 121	09/21/21 18:44	

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21
Date Received: 09/15/21 08:05

Sample Name: Trip Blank-091421
Lab Code: R2109484-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/21/21 17:39	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 17:39	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 17:39	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 17:39	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/21/21 17:39	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 17:39	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 17:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 17:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/21/21 17:39	
Dibromofluoromethane	104	80 - 116	09/21/21 17:39	
Toluene-d8	109	87 - 121	09/21/21 17:39	

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 11:10
Date Received: 09/15/21 08:05

Sample Name: MW-13-091421
Lab Code: R2109484-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/21/21 19:06	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 19:06	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 19:06	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 19:06	
Trichloroethene (TCE)	0.29 J	1.0	0.20	1	09/21/21 19:06	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 19:06	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 19:06	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 19:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	09/21/21 19:06	
Dibromofluoromethane	107	80 - 116	09/21/21 19:06	
Toluene-d8	109	87 - 121	09/21/21 19:06	

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 11:30
Date Received: 09/15/21 08:05

Sample Name: FB-091421
Lab Code: R2109484-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/21/21 18:00	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 18:00	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 18:00	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 18:00	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/21/21 18:00	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 18:00	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 18:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 18:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	09/21/21 18:00	
Dibromofluoromethane	106	80 - 116	09/21/21 18:00	
Toluene-d8	111	87 - 121	09/21/21 18:00	

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 12:10
Date Received: 09/15/21 08:05

Sample Name: MW-10-091421
Lab Code: R2109484-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.9	1.0	0.20	1	09/21/21 19:28	
1,1-Dichloroethane (1,1-DCA)	0.74 J	1.0	0.20	1	09/21/21 19:28	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 19:28	
Tetrachloroethene (PCE)	0.81 J	1.0	0.21	1	09/21/21 19:28	
Trichloroethene (TCE)	14	1.0	0.20	1	09/21/21 19:28	
Vinyl Chloride	0.25 J	1.0	0.20	1	09/21/21 19:28	
cis-1,2-Dichloroethene	3.4	1.0	0.23	1	09/21/21 19:28	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 19:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	09/21/21 19:28	
Dibromofluoromethane	106	80 - 116	09/21/21 19:28	
Toluene-d8	110	87 - 121	09/21/21 19:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 12:15
Date Received: 09/15/21 08:05

Sample Name: MW-9-091421
Lab Code: R2109484-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.60 J	1.0	0.20	1	09/21/21 19:49	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 19:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 19:49	
Tetrachloroethene (PCE)	0.31 J	1.0	0.21	1	09/21/21 19:49	
Trichloroethene (TCE)	20	1.0	0.20	1	09/21/21 19:49	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 19:49	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 19:49	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 19:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/21/21 19:49	
Dibromofluoromethane	106	80 - 116	09/21/21 19:49	
Toluene-d8	108	87 - 121	09/21/21 19:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 12:45
Date Received: 09/15/21 08:05

Sample Name: MW-17-091421
Lab Code: R2109484-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.4	1.0	0.20	1	09/20/21 18:16	
1,1-Dichloroethane (1,1-DCA)	36	1.0	0.20	1	09/20/21 18:16	
1,1-Dichloroethene (1,1-DCE)	5.1	1.0	0.20	1	09/20/21 18:16	
Tetrachloroethene (PCE)	0.61 J	1.0	0.21	1	09/20/21 18:16	
Trichloroethene (TCE)	74	1.0	0.20	1	09/20/21 18:16	
Vinyl Chloride	30	1.0	0.20	1	09/20/21 18:16	
cis-1,2-Dichloroethene	200	1.0	0.23	1	09/20/21 18:16	
trans-1,2-Dichloroethene	5.0	1.0	0.20	1	09/20/21 18:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/20/21 18:16	
Dibromofluoromethane	106	80 - 116	09/20/21 18:16	
Toluene-d8	106	87 - 121	09/20/21 18:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 13:55
Date Received: 09/15/21 08:05

Sample Name: MW-8-091421
Lab Code: R2109484-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.4 J	2.5	0.50	2.5	09/21/21 20:11	
1,1-Dichloroethane (1,1-DCA)	3.3	2.5	0.50	2.5	09/21/21 20:11	
1,1-Dichloroethene (1,1-DCE)	5.9	2.5	0.50	2.5	09/21/21 20:11	
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	09/21/21 20:11	
Trichloroethene (TCE)	630 D	5.0	1.0	5	09/22/21 19:43	
Vinyl Chloride	10	2.5	0.50	2.5	09/21/21 20:11	
cis-1,2-Dichloroethene	700 D	5.0	1.2	5	09/22/21 19:43	
trans-1,2-Dichloroethene	9.7	2.5	0.50	2.5	09/21/21 20:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	09/21/21 20:11	
Dibromofluoromethane	107	80 - 116	09/21/21 20:11	
Toluene-d8	107	87 - 121	09/21/21 20:11	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 10:40
Date Received: 09/15/21 08:05

Sample Name: MW-11-091421
Lab Code: R2109484-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.71 J	1.0	0.20	1	09/20/21 18:38	
1,1-Dichloroethane (1,1-DCA)	0.46 J	1.0	0.20	1	09/20/21 18:38	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/20/21 18:38	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/20/21 18:38	
Trichloroethene (TCE)	0.21 J	1.0	0.20	1	09/20/21 18:38	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/20/21 18:38	
cis-1,2-Dichloroethene	0.32 J	1.0	0.23	1	09/20/21 18:38	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/20/21 18:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/20/21 18:38	
Dibromofluoromethane	108	80 - 116	09/20/21 18:38	
Toluene-d8	111	87 - 121	09/20/21 18:38	

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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 14:55
Date Received: 09/15/21 08:05

Sample Name: MW-16-091421
Lab Code: R2109484-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	24	1.0	0.20	1	09/20/21 16:49	
1,1-Dichloroethane (1,1-DCA)	32	1.0	0.20	1	09/20/21 16:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/20/21 16:49	
Tetrachloroethene (PCE)	0.52 J	1.0	0.21	1	09/20/21 16:49	
Trichloroethene (TCE)	80	1.0	0.20	1	09/20/21 16:49	
Vinyl Chloride	0.24 J	1.0	0.20	1	09/20/21 16:49	
cis-1,2-Dichloroethene	130	1.0	0.23	1	09/20/21 16:49	
trans-1,2-Dichloroethene	5.0	1.0	0.20	1	09/20/21 16:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	09/20/21 16:49	
Dibromofluoromethane	109	80 - 116	09/20/21 16:49	
Toluene-d8	109	87 - 121	09/20/21 16:49	

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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21
Date Received: 09/15/21 08:05

Sample Name: Dup-091421
Lab Code: R2109484-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	24	1.0	0.20	1	09/20/21 18:59	
1,1-Dichloroethane (1,1-DCA)	30	1.0	0.20	1	09/20/21 18:59	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/20/21 18:59	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/20/21 18:59	
Trichloroethene (TCE)	75	1.0	0.20	1	09/20/21 18:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/20/21 18:59	
cis-1,2-Dichloroethene	120	1.0	0.23	1	09/20/21 18:59	
trans-1,2-Dichloroethene	4.6	1.0	0.20	1	09/20/21 18:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/20/21 18:59	
Dibromofluoromethane	109	80 - 116	09/20/21 18:59	
Toluene-d8	107	87 - 121	09/20/21 18:59	



QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
DMW-3-091421	R2109484-001	103	105	109
TMP-A-091421	R2109484-002	103	103	108
Trip Blank-091421	R2109484-003	105	104	109
MW-13-091421	R2109484-005	106	107	109
FB-091421	R2109484-006	107	106	111
MW-10-091421	R2109484-007	106	106	110
MW-9-091421	R2109484-008	105	106	108
MW-17-091421	R2109484-009	102	106	106
MW-8-091421	R2109484-010	104	107	107
Method Blank	RQ2111589-06	103	106	109
Method Blank	RQ2111654-04	106	106	110
Method Blank	RQ2111750-04	103	105	109
Lab Control Sample	RQ2111589-03	106	109	110
Lab Control Sample	RQ2111654-03	104	104	108
Lab Control Sample	RQ2111750-03	106	108	110
MW-17-091421 MS	RQ2111589-07	106	108	110
MW-17-091421 DMS	RQ2111589-08	111	111	112

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21
Date Received: 09/15/21
Date Analyzed: 09/20/21
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-17-091421
Lab Code: R2109484-009
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2111589-07			Duplicate Matrix Spike RQ2111589-08			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	3.4	59.4	50.0	112	58.2	50.0	110	74-127	2	30
1,1-Dichloroethane (1,1-DCA)	36	89.7	50.0	107	89.7	50.0	107	74-132	<1	30
1,1-Dichloroethene (1,1-DCE)	5.1	61.5	50.0	113	59.5	50.0	109	71-118	3	30
Tetrachloroethene (PCE)	0.61 J	49.1	50.0	97	50.5	50.0	100	72-125	3	30
Trichloroethene (TCE)	74	136	50.0	122	133	50.0	117	74-122	2	30
Vinyl Chloride	30	91.1	50.0	122	89.6	50.0	119	74-159	2	30
cis-1,2-Dichloroethene	200	269 E	50.0	139 *	264 E	50.0	129 *	77-127	2	30
trans-1,2-Dichloroethene	5.0	62.9	50.0	116	60.6	50.0	111	73-118	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/20/21 12:50
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ2111589-06
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-12
File ID:I:\ACQUADATA\msvoa12\Data\092021\K6859.D\
Analysis Lot:739267

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2111589-03	I:\ACQUADATA\msvoa12\Data\092021\K6855.D\	09/20/21 11:15
MW-17-091421	R2109484-009	I:\ACQUADATA\msvoa12\Data\092021\K6874.D\	09/20/21 18:16
MW-17-091421MS	RQ2111589-07	I:\ACQUADATA\msvoa12\Data\092021\K6881.D\	09/20/21 20:48
MW-17-091421DMS	RQ2111589-08	I:\ACQUADATA\msvoa12\Data\092021\K6882.D\	09/20/21 21:10

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/21/21 12:34
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ2111654-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUADATA\msvoa12\Data\092121\K6918.D\
Analysis Lot: 739434

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2111654-03	I:\ACQUADATA\msvoa12\Data\092121\K6915.D\	09/21/21 11:16
Trip Blank-091421	R2109484-003	I:\ACQUADATA\msvoa12\Data\092121\K6932.D\	09/21/21 17:39
FB-091421	R2109484-006	I:\ACQUADATA\msvoa12\Data\092121\K6933.D\	09/21/21 18:00
DMW-3-091421	R2109484-001	I:\ACQUADATA\msvoa12\Data\092121\K6934.D\	09/21/21 18:22
TMP-A-091421	R2109484-002	I:\ACQUADATA\msvoa12\Data\092121\K6935.D\	09/21/21 18:44
MW-13-091421	R2109484-005	I:\ACQUADATA\msvoa12\Data\092121\K6936.D\	09/21/21 19:06
MW-10-091421	R2109484-007	I:\ACQUADATA\msvoa12\Data\092121\K6937.D\	09/21/21 19:28
MW-9-091421	R2109484-008	I:\ACQUADATA\msvoa12\Data\092121\K6938.D\	09/21/21 19:49
MW-8-091421	R2109484-010	I:\ACQUADATA\msvoa12\Data\092121\K6939.D\	09/21/21 20:11

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/22/21 12:27
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ2111750-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-12
File ID:I:\ACQUADATA\msvoa12\Data\092221\K6979.D\
Analysis Lot:739610

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2111750-03	I:\ACQUADATA\msvoa12\Data\092221\K6975.D\	09/22/21 10:50
MW-8-091421	R2109484-010	I:\ACQUADATA\msvoa12\Data\092221\K6999.D\	09/22/21 19:43

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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111589-06

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/20/21 12:50	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/20/21 12:50	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/20/21 12:50	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/20/21 12:50	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/20/21 12:50	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/20/21 12:50	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/20/21 12:50	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/20/21 12:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/20/21 12:50	
Dibromofluoromethane	106	80 - 116	09/20/21 12:50	
Toluene-d8	109	87 - 121	09/20/21 12:50	

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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111654-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/21/21 12:34	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 12:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 12:34	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 12:34	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/21/21 12:34	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 12:34	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 12:34	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 12:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	09/21/21 12:34	
Dibromofluoromethane	106	80 - 116	09/21/21 12:34	
Toluene-d8	110	87 - 121	09/21/21 12:34	

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111750-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/22/21 12:27	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/22/21 12:27	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/22/21 12:27	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/22/21 12:27	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/22/21 12:27	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/22/21 12:27	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/22/21 12:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/22/21 12:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/22/21 12:27	
Dibromofluoromethane	105	80 - 116	09/22/21 12:27	
Toluene-d8	109	87 - 121	09/22/21 12:27	

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/20/21 11:15
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ2111589-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUADATA\msvoa12\Data\092021\K6855.D\
Analysis Lot: 739267

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2111589-06	I:\ACQUADATA\msvoa12\Data\092021\K6859.D\	09/20/21 12:50
MW-17-091421	R2109484-009	I:\ACQUADATA\msvoa12\Data\092021\K6874.D\	09/20/21 18:16
MW-17-091421MS	RQ2111589-07	I:\ACQUADATA\msvoa12\Data\092021\K6881.D\	09/20/21 20:48
MW-17-091421DMS	RQ2111589-08	I:\ACQUADATA\msvoa12\Data\092021\K6882.D\	09/20/21 21:10

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/21/21 11:16
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ2111654-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUADATA\msvoa12\Data\092121\K6915.D\
Analysis Lot: 739434

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2111654-04	I:\ACQUADATA\msvoa12\Data\092121\K6918.D\	09/21/21 12:34
Trip Blank-091421	R2109484-003	I:\ACQUADATA\msvoa12\Data\092121\K6932.D\	09/21/21 17:39
FB-091421	R2109484-006	I:\ACQUADATA\msvoa12\Data\092121\K6933.D\	09/21/21 18:00
DMW-3-091421	R2109484-001	I:\ACQUADATA\msvoa12\Data\092121\K6934.D\	09/21/21 18:22
TMP-A-091421	R2109484-002	I:\ACQUADATA\msvoa12\Data\092121\K6935.D\	09/21/21 18:44
MW-13-091421	R2109484-005	I:\ACQUADATA\msvoa12\Data\092121\K6936.D\	09/21/21 19:06
MW-10-091421	R2109484-007	I:\ACQUADATA\msvoa12\Data\092121\K6937.D\	09/21/21 19:28
MW-9-091421	R2109484-008	I:\ACQUADATA\msvoa12\Data\092121\K6938.D\	09/21/21 19:49
MW-8-091421	R2109484-010	I:\ACQUADATA\msvoa12\Data\092121\K6939.D\	09/21/21 20:11

ALS Group USA, Corp.

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/22/21 10:50
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ2111750-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-12
File ID:I:\ACQUADATA\msvoa12\Data\092221\K6975.D\
Analysis Lot:739610

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2111750-04	I:\ACQUADATA\msvoa12\Data\092221\K6979.D\	09/22/21 12:27
MW-8-091421	R2109484-010	I:\ACQUADATA\msvoa12\Data\092221\K6999.D\	09/22/21 19:43

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/20/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2111589-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.2	20.0	111	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	22.6	20.0	113	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.1	20.0	116	71-118
Tetrachloroethene (PCE)	8260C	20.2	20.0	101	72-125
Trichloroethene (TCE)	8260C	21.1	20.0	105	74-122
Vinyl Chloride	8260C	25.5	20.0	128	74-159
cis-1,2-Dichloroethene	8260C	22.8	20.0	114	80-121
trans-1,2-Dichloroethene	8260C	22.8	20.0	114	73-118

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/21/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2111654-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.2	20.0	91	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	19.8	20.0	99	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.3	20.0	91	71-118
Tetrachloroethene (PCE)	8260C	16.1	20.0	80	72-125
Trichloroethene (TCE)	8260C	17.6	20.0	88	74-122
Vinyl Chloride	8260C	21.8	20.0	109	74-159
cis-1,2-Dichloroethene	8260C	19.3	20.0	97	80-121
trans-1,2-Dichloroethene	8260C	20.1	20.0	101	73-118

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/22/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2111750-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.7	20.0	104	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	22.1	20.0	111	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	21.5	20.0	107	71-118
Tetrachloroethene (PCE)	8260C	20.3	20.0	102	72-125
Trichloroethene (TCE)	8260C	20.5	20.0	103	74-122
Vinyl Chloride	8260C	24.8	20.0	124	74-159
cis-1,2-Dichloroethene	8260C	21.1	20.0	105	80-121
trans-1,2-Dichloroethene	8260C	22.3	20.0	112	73-118

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dba ALS Environmental

QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/20/21 10:20

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\092021\K6853.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 739267

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.71	37992	Pass
75	95	30	60	50.72	103000	Pass
95	95	100	100	100.00	203077	Pass
96	95	5	9	6.72	13641	Pass
173	174	0	2	1.02	1305	Pass
174	95	50	120	62.76	127453	Pass
175	174	5	9	7.88	10042	Pass
176	174	95	101	100.50	128085	Pass
177	176	5	9	6.65	8523	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2111589-02	I:\ACQUADATA\msvoa12\Data\092021\K6854.D\	09/20/21 10:49	
Lab Control Sample	RQ2111589-03	I:\ACQUADATA\msvoa12\Data\092021\K6855.D\	09/20/21 11:15	
Method Blank	RQ2111589-06	I:\ACQUADATA\msvoa12\Data\092021\K6859.D\	09/20/21 12:50	
MW-17-091421	R2109484-009	I:\ACQUADATA\msvoa12\Data\092021\K6874.D\	09/20/21 18:16	
MW-17-091421	RQ2111589-07	I:\ACQUADATA\msvoa12\Data\092021\K6881.D\	09/20/21 20:48	
MW-17-091421	RQ2111589-08	I:\ACQUADATA\msvoa12\Data\092021\K6882.D\	09/20/21 21:10	

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/21/21 10:00

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\092121\K6913.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 739434

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	17.92	35909	Pass
75	95	30	60	49.39	98979	Pass
95	95	100	100	100.00	200405	Pass
96	95	5	9	6.58	13177	Pass
173	174	0	2	0.75	1048	Pass
174	95	50	120	69.73	139739	Pass
175	174	5	9	8.13	11360	Pass
176	174	95	101	95.62	133619	Pass
177	176	5	9	6.71	8962	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2111654-02	I:\ACQUADATA\msvoa12\Data\092121\K6914.D\	09/21/21 10:38	
Lab Control Sample	RQ2111654-03	I:\ACQUADATA\msvoa12\Data\092121\K6915.D\	09/21/21 11:16	
Method Blank	RQ2111654-04	I:\ACQUADATA\msvoa12\Data\092121\K6918.D\	09/21/21 12:34	
Trip Blank-091421	R2109484-003	I:\ACQUADATA\msvoa12\Data\092121\K6932.D\	09/21/21 17:39	
FB-091421	R2109484-006	I:\ACQUADATA\msvoa12\Data\092121\K6933.D\	09/21/21 18:00	
DMW-3-091421	R2109484-001	I:\ACQUADATA\msvoa12\Data\092121\K6934.D\	09/21/21 18:22	
TMP-A-091421	R2109484-002	I:\ACQUADATA\msvoa12\Data\092121\K6935.D\	09/21/21 18:44	
MW-13-091421	R2109484-005	I:\ACQUADATA\msvoa12\Data\092121\K6936.D\	09/21/21 19:06	
MW-10-091421	R2109484-007	I:\ACQUADATA\msvoa12\Data\092121\K6937.D\	09/21/21 19:28	
MW-9-091421	R2109484-008	I:\ACQUADATA\msvoa12\Data\092121\K6938.D\	09/21/21 19:49	
MW-8-091421	R2109484-010	I:\ACQUADATA\msvoa12\Data\092121\K6939.D\	09/21/21 20:11	

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QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/22/21 09:43

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\092221\K6973.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 739610

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	17.00	36112	Pass
75	95	30	60	48.40	102787	Pass
95	95	100	100	100.00	212373	Pass
96	95	5	9	6.21	13195	Pass
173	174	0	2	1.00	1459	Pass
174	95	50	120	69.04	146632	Pass
175	174	5	9	7.81	11458	Pass
176	174	95	101	97.94	143608	Pass
177	176	5	9	6.66	9561	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2111750-02	I:\ACQUADATA\msvoa12\Data\092221\K6974.D\	09/22/21 10:21	
Lab Control Sample	RQ2111750-03	I:\ACQUADATA\msvoa12\Data\092221\K6975.D\	09/22/21 10:50	
Method Blank	RQ2111750-04	I:\ACQUADATA\msvoa12\Data\092221\K6979.D\	09/22/21 12:27	
MW-8-091421	R2109484-010	I:\ACQUADATA\msvoa12\Data\092221\K6999.D\	09/22/21 19:43	

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/20/21 10:49

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\092021\K6854.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2111589-02
Analysis Lot:739267
Signal ID:1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	266,850	11.83	594,319	6.52	535,832	9.80
Upper Limit ==>	533,700	12.00	1,188,638	6.69	1,071,664	9.97
Lower Limit ==>	133,425	11.66	297,160	6.35	267,916	9.63

Associated Analyses

Lab Control Sample	RQ2111589-03	255448	11.83	600762	6.52	548587	9.80
Method Blank	RQ2111589-06	236422	11.84	570060	6.53	507486	9.80
MW-17-091421	R2109484-009	244156	11.83	604391	6.52	529466	9.80
MW-17-091421MS	RQ2111589-07	258441	11.83	587523	6.52	535446	9.80
MW-17-091421DMS	RQ2111589-08	264958	11.84	591029	6.52	543355	9.80

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/20/21 10:49

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\092021\K6854.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2111589-02
Analysis Lot:739267
Signal ID:1

	Pentafluorobenzene	
	Area	RT
Result ==>	350,395	5.45
Upper Limit ==>	700,790	5.62
Lower Limit ==>	175,198	5.28

Associated Analyses

Lab Control Sample	RQ2111589-03	358809	5.44
Method Blank	RQ2111589-06	332177	5.46
MW-17-091421	R2109484-009	346817	5.44
MW-17-091421MS	RQ2111589-07	348998	5.45
MW-17-091421DMS	RQ2111589-08	355529	5.44

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/21/21 10:38

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\092121\K6914.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2111654-02
Analysis Lot:739434
Signal ID:1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	260,217	11.83	589,644	6.52	538,006	9.80
Upper Limit ==>	520,434	12.00	1,179,288	6.69	1,076,012	9.97
Lower Limit ==>	130,109	11.66	294,822	6.35	269,003	9.63

Associated Analyses

Lab Control Sample	RQ2111654-03	261058	11.84	607947	6.52	549833	9.80
Method Blank	RQ2111654-04	246861	11.83	578497	6.52	528579	9.80
Trip Blank-091421	R2109484-003	243030	11.83	573896	6.52	522393	9.80
FB-091421	R2109484-006	234290	11.84	555407	6.53	500564	9.80
DMW-3-091421	R2109484-001	235674	11.83	563575	6.52	513418	9.80
TMP-A-091421	R2109484-002	233922	11.83	578813	6.52	518633	9.80
MW-13-091421	R2109484-005	236226	11.84	562454	6.53	501422	9.80
MW-10-091421	R2109484-007	239451	11.83	565612	6.53	503543	9.80
MW-9-091421	R2109484-008	237617	11.83	577348	6.52	503395	9.80
MW-8-091421	R2109484-010	240977	11.84	579685	6.52	516010	9.80

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/21/21 10:38

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\092121\K6914.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2111654-02
Analysis Lot:739434
Signal ID:1

	Pentafluorobenzene	
	Area	RT
Result ==>	346,831	5.44
Upper Limit ==>	693,662	5.61
Lower Limit ==>	173,416	5.27

Associated Analyses

Lab Control Sample	RQ2111654-03	354416	5.44
Method Blank	RQ2111654-04	337706	5.44
Trip Blank-091421	R2109484-003	339822	5.45
FB-091421	R2109484-006	334250	5.46
DMW-3-091421	R2109484-001	328401	5.46
TMP-A-091421	R2109484-002	338556	5.45
MW-13-091421	R2109484-005	336905	5.45
MW-10-091421	R2109484-007	329642	5.45
MW-9-091421	R2109484-008	331577	5.45
MW-8-091421	R2109484-010	340421	5.44

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/22/21 10:21

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\092221\K6974.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2111750-02
Analysis Lot:739610
Signal ID:1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5		
	Area	RT	Area	RT	Area	RT	
Result ==>	260,225	11.83	585,323	6.52	526,667	9.80	
Upper Limit ==>	520,450	12.00	1,170,646	6.69	1,053,334	9.97	
Lower Limit ==>	130,113	11.66	292,662	6.35	263,334	9.63	
Associated Analyses							
Lab Control Sample	RQ2111750-03	255149	11.83	595140	6.52	536039	9.80
Method Blank	RQ2111750-04	241703	11.84	564192	6.53	510415	9.80
MW-8-091421	R2109484-010	237394	11.84	568435	6.52	513543	9.80

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/22/21 10:21

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\092221\K6974.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2111750-02
Analysis Lot:739610
Signal ID:1

	Pentafluorobenzene	
	Area	RT
Result ==>	345,827	5.45
Upper Limit ==>	691,654	5.62
Lower Limit ==>	172,914	5.28

Associated Analyses

Lab Control Sample	RQ2111750-03	350089	5.44
Method Blank	RQ2111750-04	340234	5.46
MW-8-091421	R2109484-010	345916	5.46

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
MW-11-091421	R2109484-004	105	108	111
MW-16-091421	R2109484-011	106	109	109
Dup-091421	R2109484-012	101	109	107
Method Blank	RQ2111589-05	105	107	110
Lab Control Sample	RQ2111589-04	106	106	109

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/20/21 12:28
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Method Blank
Lab Code: RQ2111589-05
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-12
File ID:I:\ACQUADATA\msvoa12\Data\092021\K6858.D\
Analysis Lot:739267

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2111589-04	I:\ACQUADATA\msvoa12\Data\092021\K6856.D\	09/20/21 11:36
MW-16-091421	R2109484-011	I:\ACQUADATA\msvoa12\Data\092021\K6870.D\	09/20/21 16:49
MW-11-091421	R2109484-004	I:\ACQUADATA\msvoa12\Data\092021\K6875.D\	09/20/21 18:38
Dup-091421	R2109484-012	I:\ACQUADATA\msvoa12\Data\092021\K6876.D\	09/20/21 18:59

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111589-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/20/21 12:28	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/20/21 12:28	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/20/21 12:28	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/20/21 12:28	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/20/21 12:28	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/20/21 12:28	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/20/21 12:28	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/20/21 12:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/20/21 12:28	
Dibromofluoromethane	107	80 - 116	09/20/21 12:28	
Toluene-d8	110	87 - 121	09/20/21 12:28	

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/20/21 11:36
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Lab Control Sample
Lab Code: RQ2111589-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUADATA\msvoa12\Data\092021\K6856.D\
Analysis Lot: 739267

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2111589-05	I:\ACQUADATA\msvoa12\Data\092021\K6858.D\	09/20/21 12:28
MW-16-091421	R2109484-011	I:\ACQUADATA\msvoa12\Data\092021\K6870.D\	09/20/21 16:49
MW-11-091421	R2109484-004	I:\ACQUADATA\msvoa12\Data\092021\K6875.D\	09/20/21 18:38
Dup-091421	R2109484-012	I:\ACQUADATA\msvoa12\Data\092021\K6876.D\	09/20/21 18:59

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Analyzed: 09/20/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/L
Basis:NA

Lab Control Sample
RQ2111589-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.5	20.0	108	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	22.2	20.0	111	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	21.9	20.0	110	71-118
Tetrachloroethene (PCE)	8260C	19.3	20.0	97	72-125
Trichloroethene (TCE)	8260C	20.2	20.0	101	74-122
Vinyl Chloride	8260C	25.3	20.0	127	74-159
cis-1,2-Dichloroethene	8260C	21.0	20.0	105	80-121
trans-1,2-Dichloroethene	8260C	22.0	20.0	110	73-118

ALS Group USA, Corp.
dba ALS Environmental

QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/20/21 10:20

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa12\Data\092021\K6853.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 739267

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.71	37992	Pass
75	95	30	60	50.72	103000	Pass
95	95	100	100	100.00	203077	Pass
96	95	5	9	6.72	13641	Pass
173	174	0	2	1.02	1305	Pass
174	95	50	120	62.76	127453	Pass
175	174	5	9	7.88	10042	Pass
176	174	95	101	100.50	128085	Pass
177	176	5	9	6.65	8523	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2111589-02	I:\ACQUADATA\msvoa12\Data\092021\K6854.D\	09/20/21 10:49	
Lab Control Sample	RQ2111589-04	I:\ACQUADATA\msvoa12\Data\092021\K6856.D\	09/20/21 11:36	
Method Blank	RQ2111589-05	I:\ACQUADATA\msvoa12\Data\092021\K6858.D\	09/20/21 12:28	
MW-16-091421	R2109484-011	I:\ACQUADATA\msvoa12\Data\092021\K6870.D\	09/20/21 16:49	
MW-11-091421	R2109484-004	I:\ACQUADATA\msvoa12\Data\092021\K6875.D\	09/20/21 18:38	
Dup-091421	R2109484-012	I:\ACQUADATA\msvoa12\Data\092021\K6876.D\	09/20/21 18:59	

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/20/21 10:49

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa12\Data\092021\K6854.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2111589-02
Analysis Lot:739267
Signal ID:1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	266,850	11.83	594,319	6.52	535,832	9.80
Upper Limit ==>	533,700	12.00	1,188,638	6.69	1,071,664	9.97
Lower Limit ==>	133,425	11.66	297,160	6.35	267,916	9.63

Associated Analyses

Lab Control Sample	RQ2111589-04	262329	11.83	607537	6.52	539453	9.80
Method Blank	RQ2111589-05	245599	11.84	581553	6.52	527405	9.80
MW-16-091421	R2109484-011	242801	11.83	583785	6.52	515919	9.80
MW-11-091421	R2109484-004	238722	11.83	562096	6.53	508114	9.80
Dup-091421	R2109484-012	244837	11.83	584760	6.52	509733	9.80

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484
Date Analyzed:09/20/21 10:49

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa12\Data\092021\K6854.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ2111589-02
Analysis Lot:739267
Signal ID:1

	Pentafluorobenzene	
	Area	RT
Result ==>	350,395	5.45
Upper Limit ==>	700,790	5.62
Lower Limit ==>	175,198	5.28

Associated Analyses

Lab Control Sample	RQ2111589-04	353538	5.44
Method Blank	RQ2111589-05	354067	5.44
MW-16-091421	R2109484-011	343367	5.44
MW-11-091421	R2109484-004	337908	5.46
Dup-091421	R2109484-012	342518	5.45



Raw Data

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 09:45
Date Received: 09/15/21 08:05

Sample Name: DMW-3-091421
Lab Code: R2109484-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/21/21 18:22	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 18:22	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 18:22	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 18:22	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/21/21 18:22	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 18:22	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 18:22	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 18:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/21/21 18:22	
Dibromofluoromethane	105	80 - 116	09/21/21 18:22	
Toluene-d8	109	87 - 121	09/21/21 18:22	

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 10:05
Date Received: 09/15/21 08:05

Sample Name: TMP-A-091421
Lab Code: R2109484-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.41 J	1.0	0.20	1	09/21/21 18:44	
1,1-Dichloroethane (1,1-DCA)	0.83 J	1.0	0.20	1	09/21/21 18:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 18:44	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 18:44	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/21/21 18:44	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 18:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 18:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 18:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/21/21 18:44	
Dibromofluoromethane	103	80 - 116	09/21/21 18:44	
Toluene-d8	108	87 - 121	09/21/21 18:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21
Date Received: 09/15/21 08:05

Sample Name: Trip Blank-091421
Lab Code: R2109484-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/21/21 17:39	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 17:39	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 17:39	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 17:39	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/21/21 17:39	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 17:39	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 17:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 17:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/21/21 17:39	
Dibromofluoromethane	104	80 - 116	09/21/21 17:39	
Toluene-d8	109	87 - 121	09/21/21 17:39	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 11:10
Date Received: 09/15/21 08:05

Sample Name: MW-13-091421
Lab Code: R2109484-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/21/21 19:06	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 19:06	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 19:06	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 19:06	
Trichloroethene (TCE)	0.29 J	1.0	0.20	1	09/21/21 19:06	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 19:06	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 19:06	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 19:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	09/21/21 19:06	
Dibromofluoromethane	107	80 - 116	09/21/21 19:06	
Toluene-d8	109	87 - 121	09/21/21 19:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 11:30
Date Received: 09/15/21 08:05

Sample Name: FB-091421
Lab Code: R2109484-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/21/21 18:00	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 18:00	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 18:00	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/21/21 18:00	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/21/21 18:00	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 18:00	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 18:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 18:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	09/21/21 18:00	
Dibromofluoromethane	106	80 - 116	09/21/21 18:00	
Toluene-d8	111	87 - 121	09/21/21 18:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 12:10
Date Received: 09/15/21 08:05

Sample Name: MW-10-091421
Lab Code: R2109484-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.9	1.0	0.20	1	09/21/21 19:28	
1,1-Dichloroethane (1,1-DCA)	0.74 J	1.0	0.20	1	09/21/21 19:28	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 19:28	
Tetrachloroethene (PCE)	0.81 J	1.0	0.21	1	09/21/21 19:28	
Trichloroethene (TCE)	14	1.0	0.20	1	09/21/21 19:28	
Vinyl Chloride	0.25 J	1.0	0.20	1	09/21/21 19:28	
cis-1,2-Dichloroethene	3.4	1.0	0.23	1	09/21/21 19:28	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 19:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	09/21/21 19:28	
Dibromofluoromethane	106	80 - 116	09/21/21 19:28	
Toluene-d8	110	87 - 121	09/21/21 19:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 12:15
Date Received: 09/15/21 08:05

Sample Name: MW-9-091421
Lab Code: R2109484-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.60 J	1.0	0.20	1	09/21/21 19:49	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/21/21 19:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/21/21 19:49	
Tetrachloroethene (PCE)	0.31 J	1.0	0.21	1	09/21/21 19:49	
Trichloroethene (TCE)	20	1.0	0.20	1	09/21/21 19:49	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/21/21 19:49	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/21/21 19:49	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/21/21 19:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/21/21 19:49	
Dibromofluoromethane	106	80 - 116	09/21/21 19:49	
Toluene-d8	108	87 - 121	09/21/21 19:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 12:45
Date Received: 09/15/21 08:05

Sample Name: MW-17-091421
Lab Code: R2109484-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.4	1.0	0.20	1	09/20/21 18:16	
1,1-Dichloroethane (1,1-DCA)	36	1.0	0.20	1	09/20/21 18:16	
1,1-Dichloroethene (1,1-DCE)	5.1	1.0	0.20	1	09/20/21 18:16	
Tetrachloroethene (PCE)	0.61 J	1.0	0.21	1	09/20/21 18:16	
Trichloroethene (TCE)	74	1.0	0.20	1	09/20/21 18:16	
Vinyl Chloride	30	1.0	0.20	1	09/20/21 18:16	
cis-1,2-Dichloroethene	200	1.0	0.23	1	09/20/21 18:16	
trans-1,2-Dichloroethene	5.0	1.0	0.20	1	09/20/21 18:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/20/21 18:16	
Dibromofluoromethane	106	80 - 116	09/20/21 18:16	
Toluene-d8	106	87 - 121	09/20/21 18:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 13:55
Date Received: 09/15/21 08:05

Sample Name: MW-8-091421
Lab Code: R2109484-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.4 J	2.5	0.50	2.5	09/21/21 20:11	
1,1-Dichloroethane (1,1-DCA)	3.3	2.5	0.50	2.5	09/21/21 20:11	
1,1-Dichloroethene (1,1-DCE)	5.9	2.5	0.50	2.5	09/21/21 20:11	
Tetrachloroethene (PCE)	2.5 U	2.5	0.53	2.5	09/21/21 20:11	
Trichloroethene (TCE)	630 D	5.0	1.0	5	09/22/21 19:43	
Vinyl Chloride	10	2.5	0.50	2.5	09/21/21 20:11	
cis-1,2-Dichloroethene	700 D	5.0	1.2	5	09/22/21 19:43	
trans-1,2-Dichloroethene	9.7	2.5	0.50	2.5	09/21/21 20:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	09/21/21 20:11	
Dibromofluoromethane	107	80 - 116	09/21/21 20:11	
Toluene-d8	107	87 - 121	09/21/21 20:11	

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6934.D
 Acq On : 21 Sep 2021 6:22 pm
 Operator : K.Ruest
 Sample : R2109484-001|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 21 18:37:45 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

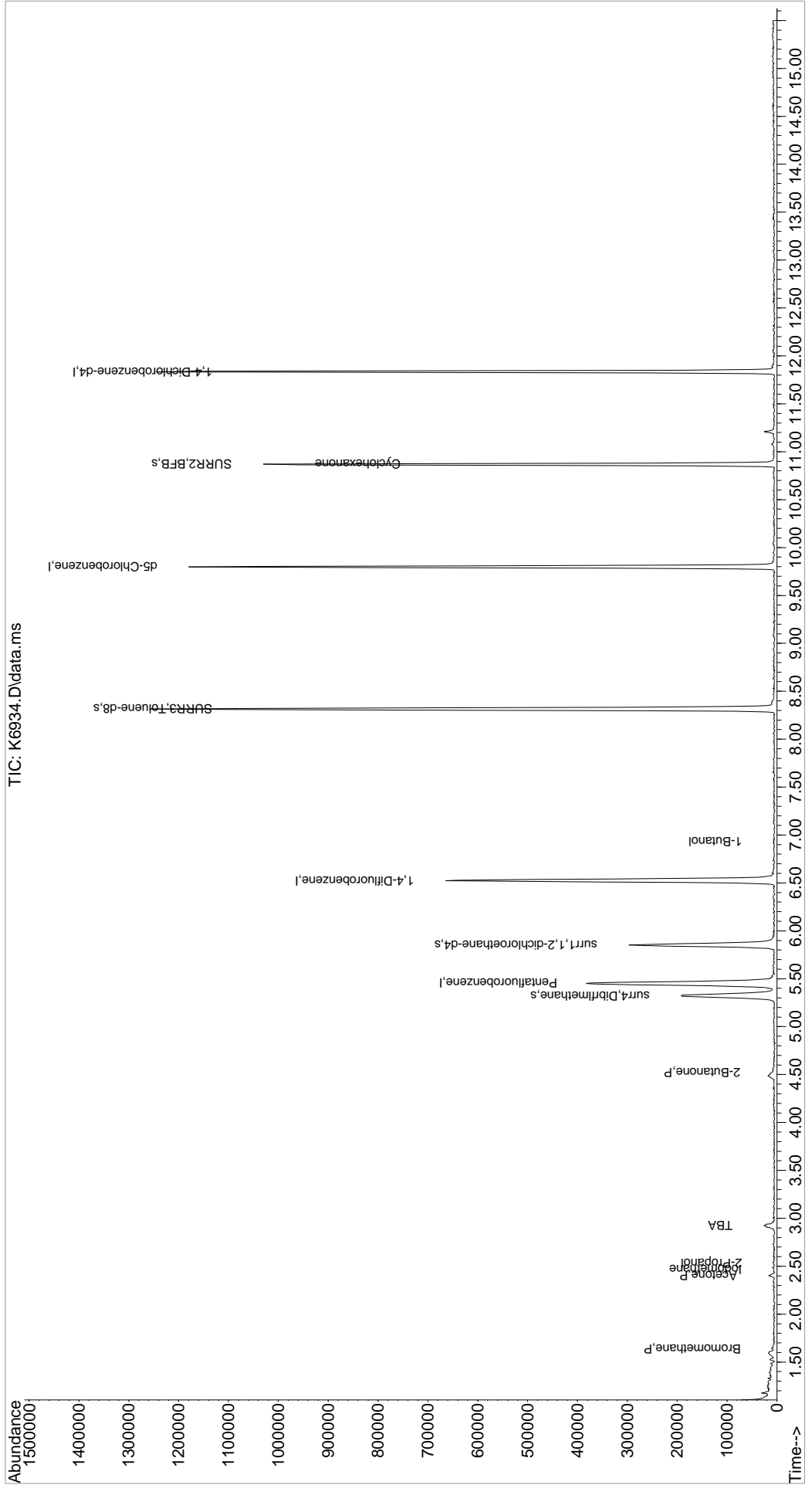
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	328401	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.523	114	563575	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	513418	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	235674	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	160798	52.41	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	104.82%	
48) surr1,1,2-dichloroetha...	5.852	65	236431	53.00	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	106.00%	
65) SURR3,Toluene-d8	8.315	98	784029	54.37	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	108.74%	
70) SURR2,BFB	10.870	95	295493	51.62	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	103.24%	
Target Compounds						
5) Bromomethane	1.640	94	1409	0.49	ppb	Qvalue # 53
15) Acetone	2.402	43	9505	3.03	ppb	94
16) 2-Propanol	2.530	45	2165	5.08	ppb	88
17) Iodomethane	2.469	142	225	1.42	ppb	# 60
23) TBA	2.926	59	11731	15.83	ppb	58
35) 2-Butanone	4.523	43	926	0.33	ppb	77
53) 1-Butanol	6.931	56	473	2.26	ppb	# 25
90) Cyclohexanone	10.876	55	581	0.68	ppb	# 58

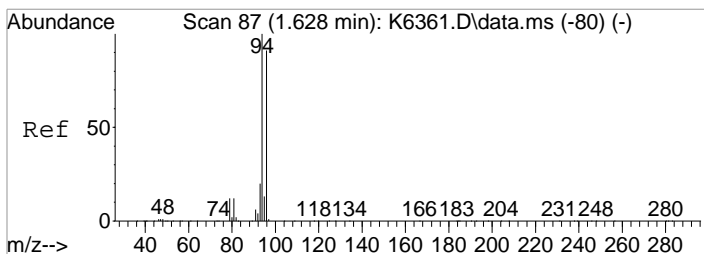
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092121\
Data File : K6934.D
Acq On : 21 Sep 2021 6:22 pm
Operator : K.Ruest
Sample : R2109484-001|1.0
Misc : VERINA 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

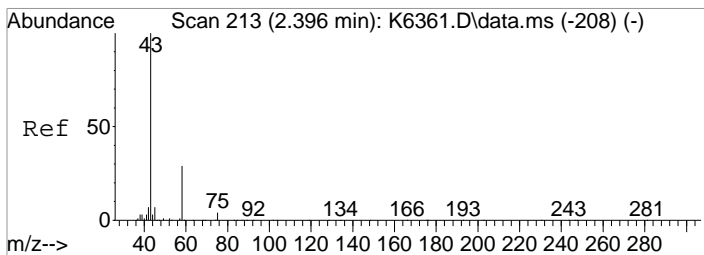
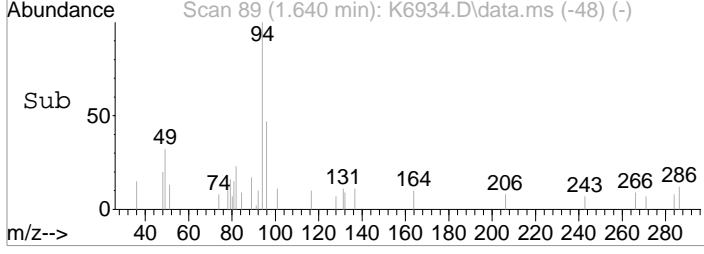
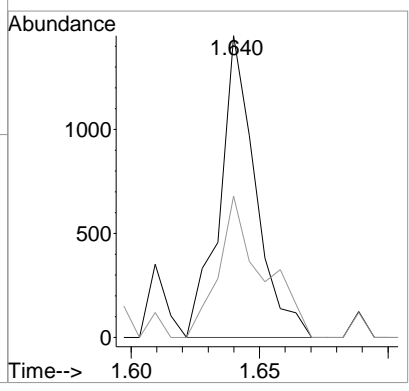
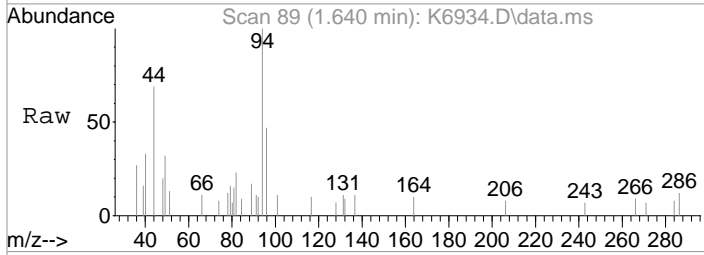
Quant Time: Sep 21 18:37:45 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration





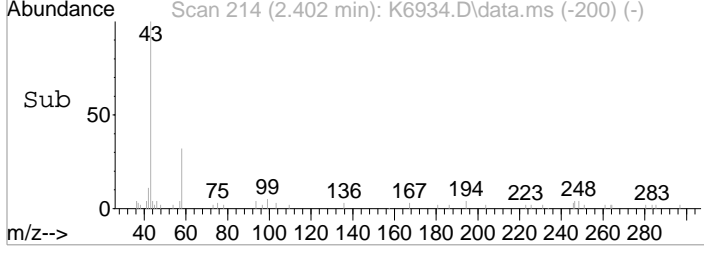
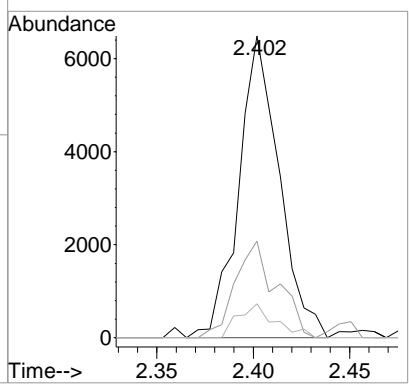
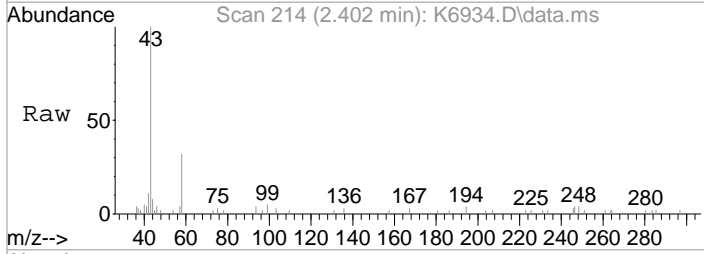
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 Bromomethane
 Concen: 0.49 ppb
 RT: 1.640 min Scan# 89
 Delta R.T. 0.024 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

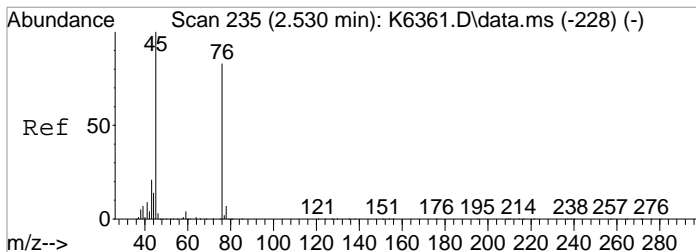
Tgt Ion	Resp	Lower	Upper
94	1409		
94	100		
96	46.8	71.0	111.0#



#15
 Acetone
 Concen: 3.03 ppb
 RT: 2.402 min Scan# 214
 Delta R.T. 0.013 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

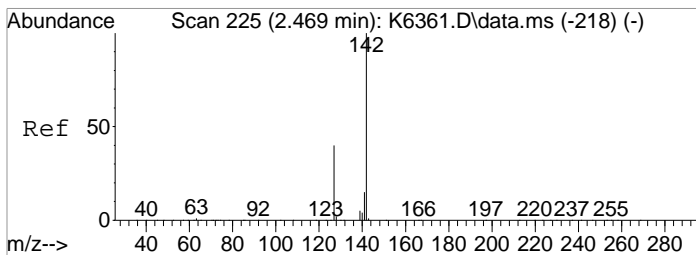
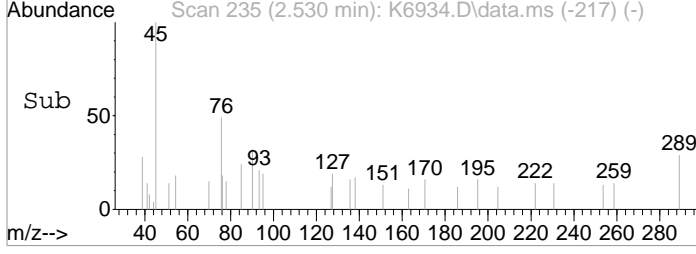
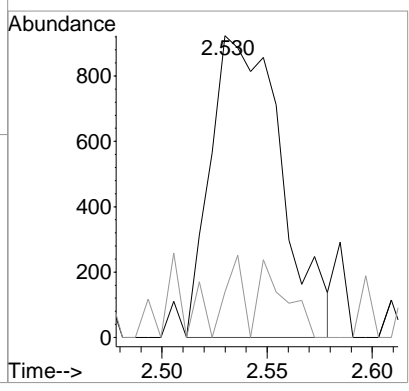
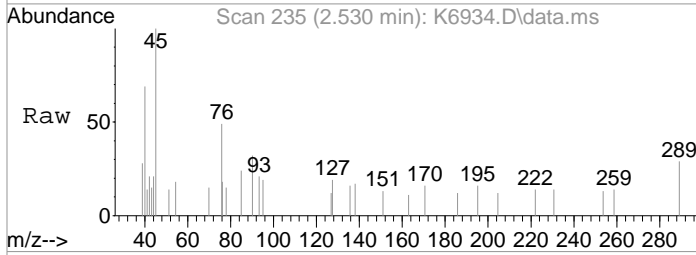
Tgt Ion	Resp	Lower	Upper
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43	100		
58	32.1	9.6	49.6
42	11.3	0.0	27.7





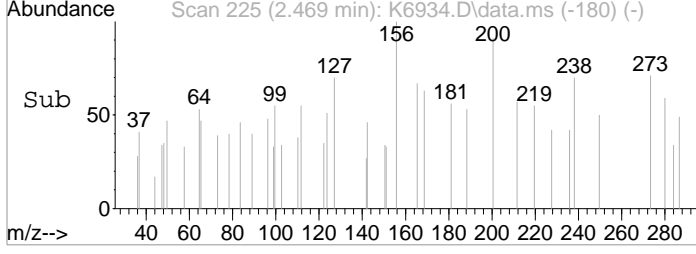
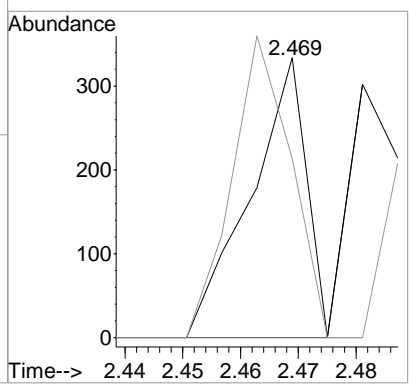
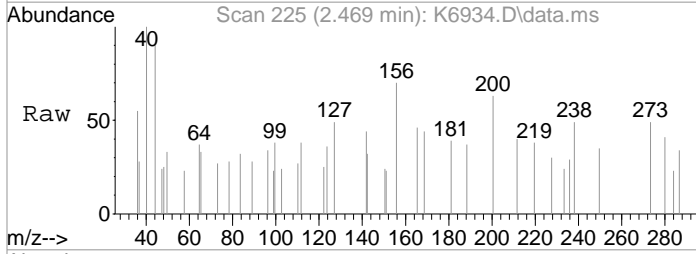
#16
 2-Propanol
 Concen: 5.08 ppb
 RT: 2.530 min Scan# 235
 Delta R.T. -0.000 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

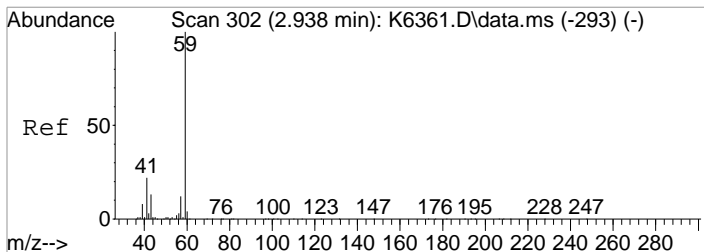
Tgt Ion	Resp	Lower	Upper
45	100		
43	15.0	0.6	40.6



#17
 Iodomethane
 Concen: 1.42 ppb
 RT: 2.469 min Scan# 225
 Delta R.T. 0.013 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

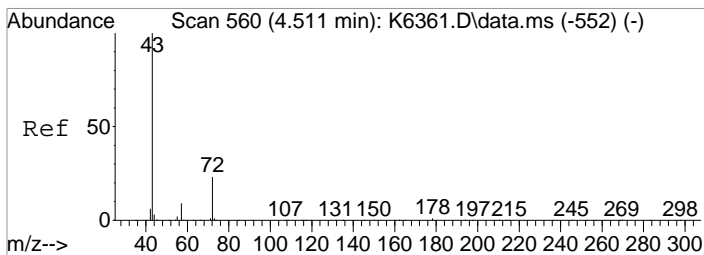
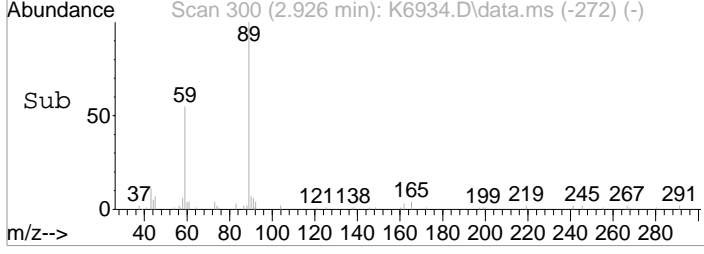
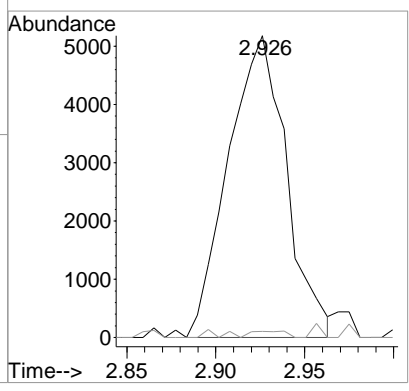
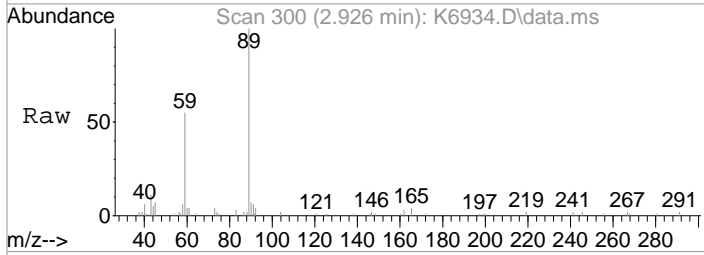
Tgt Ion	Resp	Lower	Upper
142	100		
127	64.1	19.6	59.6#





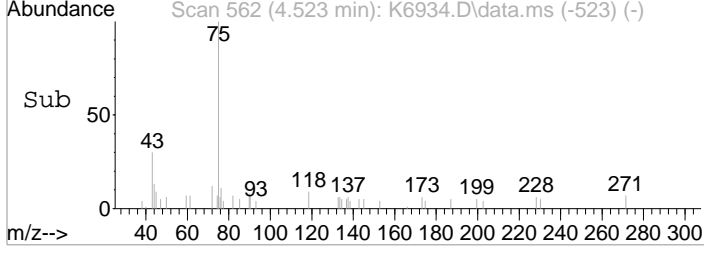
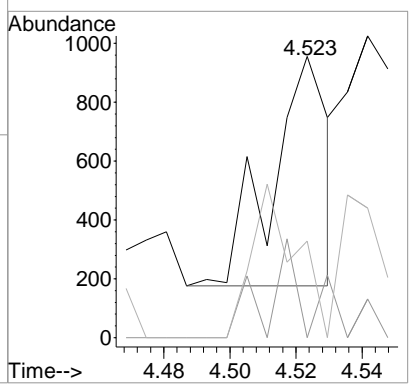
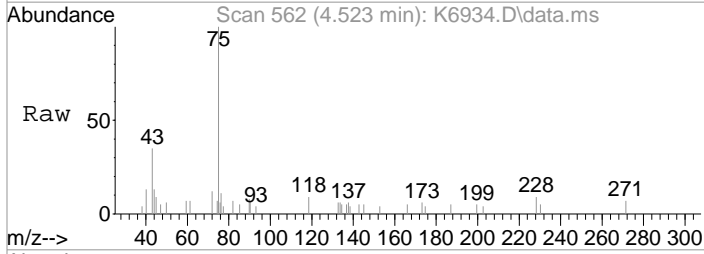
#23
 TBA
 Concen: 15.83 ppb
 RT: 2.926 min Scan# 300
 Delta R.T. -0.018 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

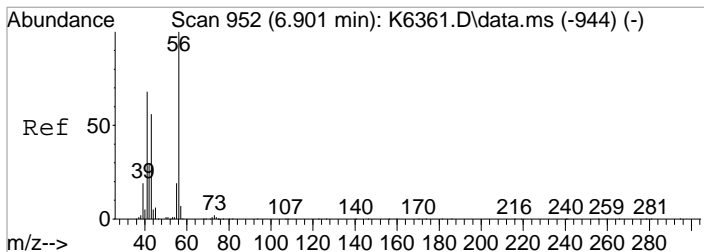
Tgt Ion	Resp	Lower	Upper
59	11731		
41	2.0	1.8	41.8



#35
 2-Butanone
 Concen: 0.33 ppb
 RT: 4.523 min Scan# 562
 Delta R.T. 0.012 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

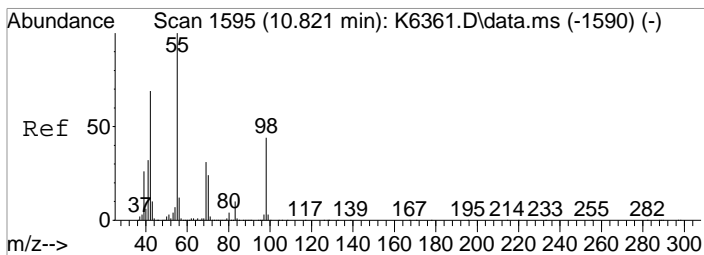
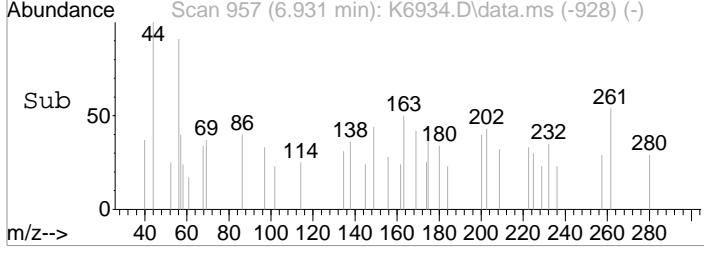
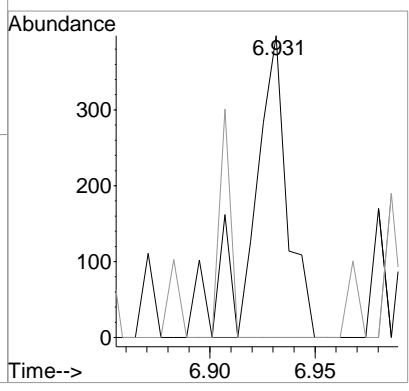
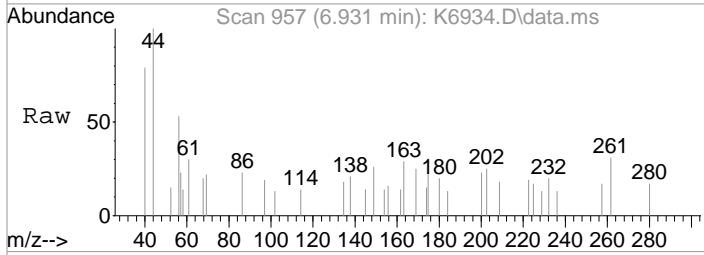
Tgt Ion	Resp	Lower	Upper
43	926		
57	0.0	0.0	28.6
72	34.3	3.4	43.4





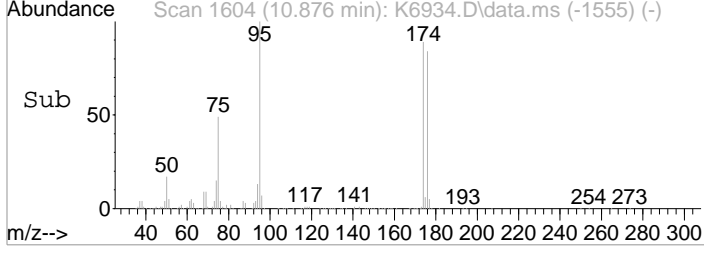
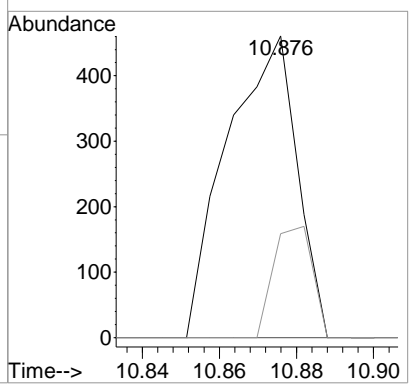
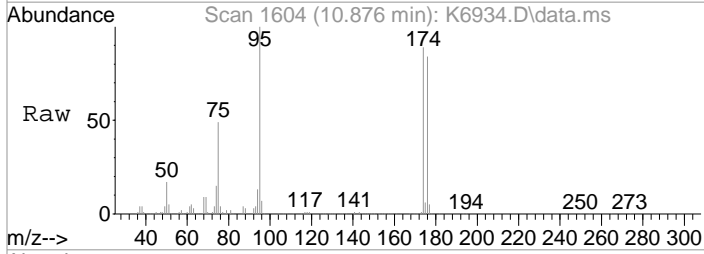
#53
 1-Butanol
 Concen: 2.26 ppb
 RT: 6.931 min Scan# 957
 Delta R.T. 0.024 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

Tgt Ion	Resp	Lower	Upper
56	100		
43	0.0	34.0	74.0#



#90
 Cyclohexanone
 Concen: 0.68 ppb
 RT: 10.876 min Scan# 1604
 Delta R.T. 0.049 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

Tgt Ion	Resp	Lower	Upper
55	100		
42	34.5	49.1	89.1#



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6934.D
 Acq On : 21 Sep 2021 6:22 pm
 Operator : K.Ruest
 Sample : R2109484-001|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 22 15:07:49 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

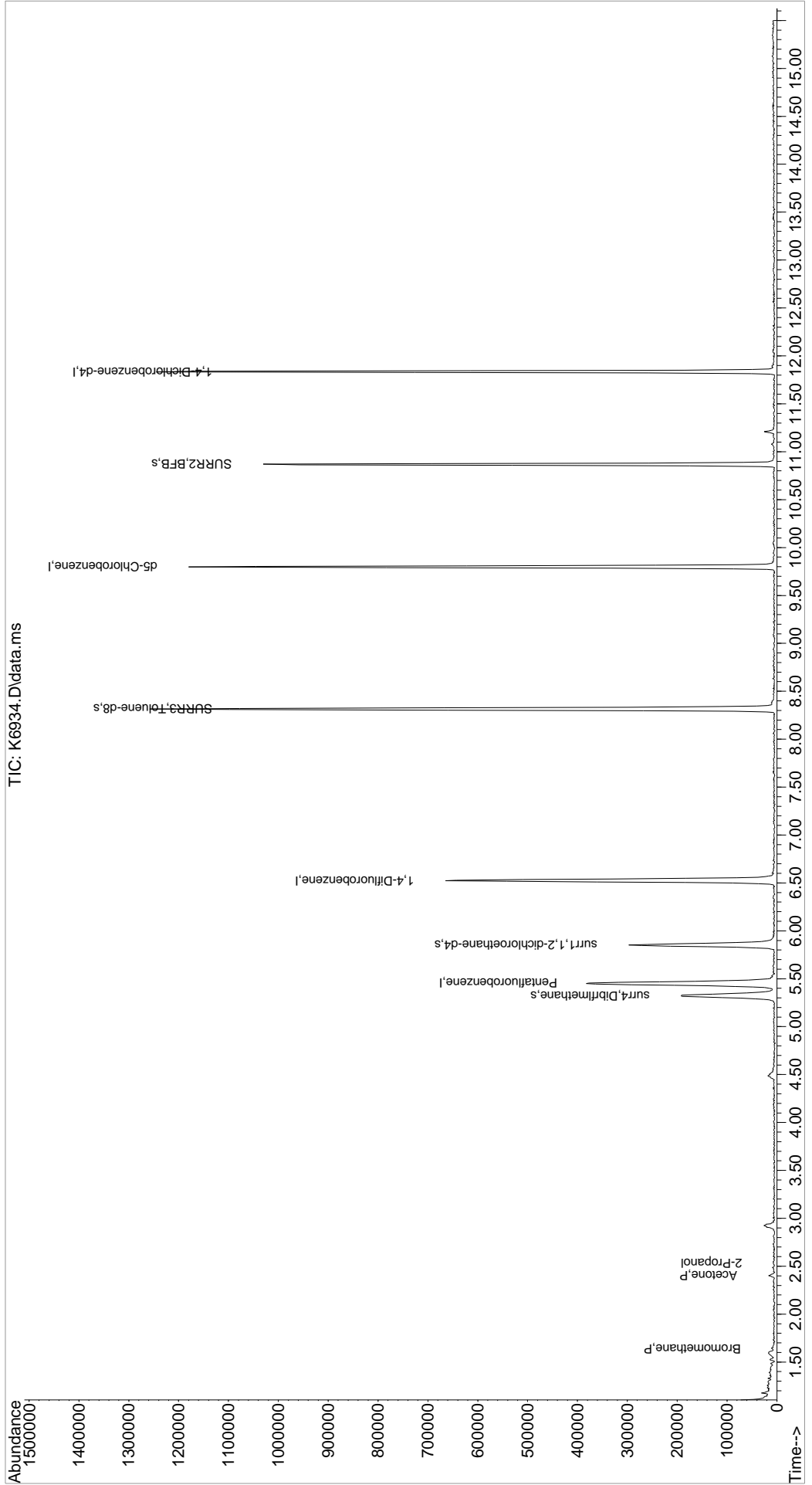
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	328401	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.523	114	563575	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	513418	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	235674	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	160798	52.41	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	104.82%	
48) surr1,1,2-dichloroetha...	5.852	65	236431	53.00	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	106.00%	
65) SURR3,Toluene-d8	8.315	98	784029	54.37	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	108.74%	
70) SURR2,BFB	10.870	95	295493	51.62	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	103.24%	
Target Compounds						
5) Bromomethane	1.640	94	1409	0.49	ppb	Qvalue # 53
15) Acetone	2.402	43	9505	3.03	ppb	94
16) 2-Propanol	2.530	45	2165	5.08	ppb	88

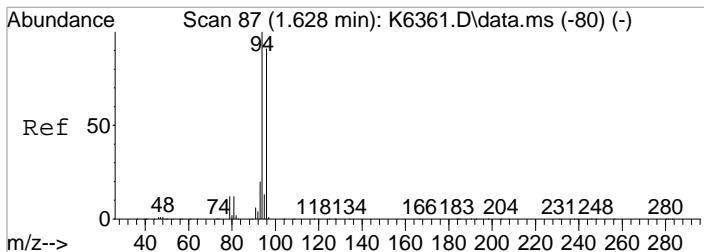
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092121\
Data File : K6934.D
Acq On : 21 Sep 2021 6:22 pm
Operator : K.Ruest
Sample : R2109484-001|1.0
Misc : VERINA 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

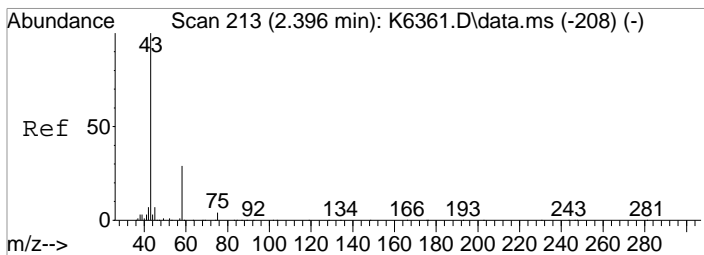
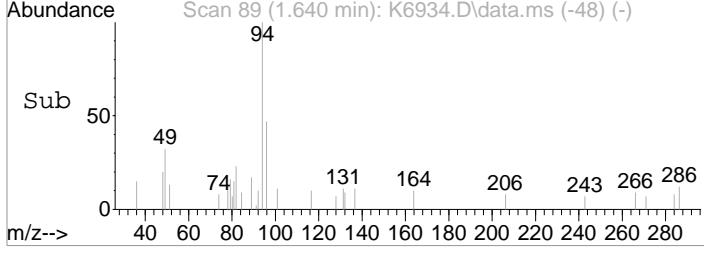
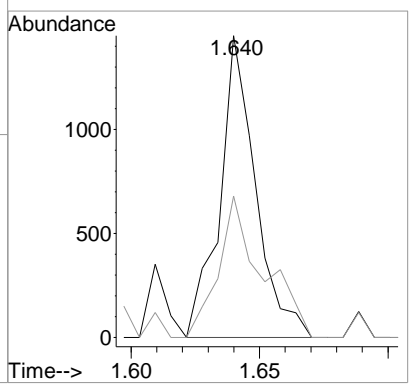
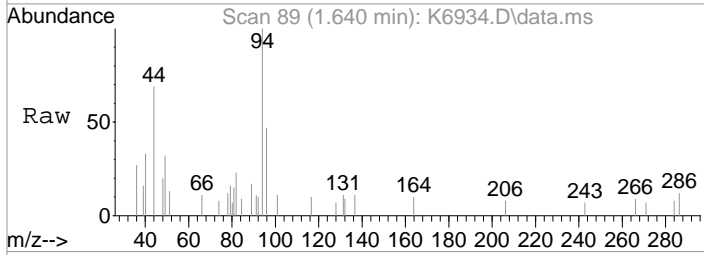
Quant Time: Sep 22 15:07:49 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration





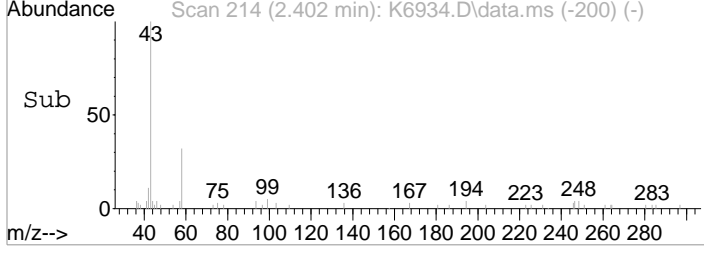
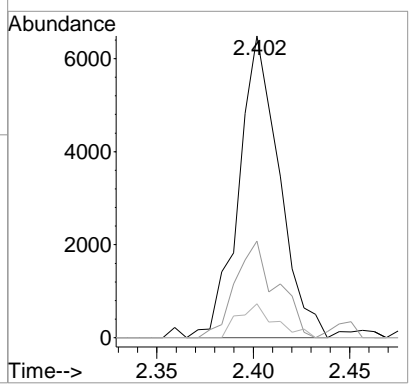
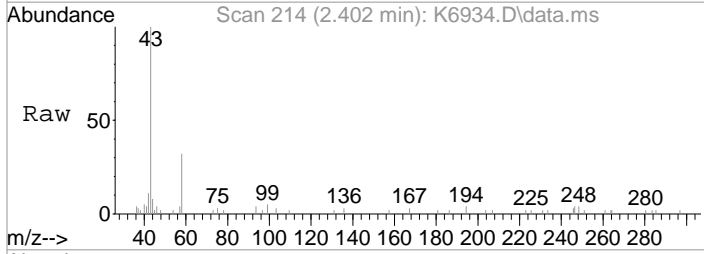
#5
 Bromomethane
 Concen: 0.49 ppb
 RT: 1.640 min Scan# 89
 Delta R.T. 0.024 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

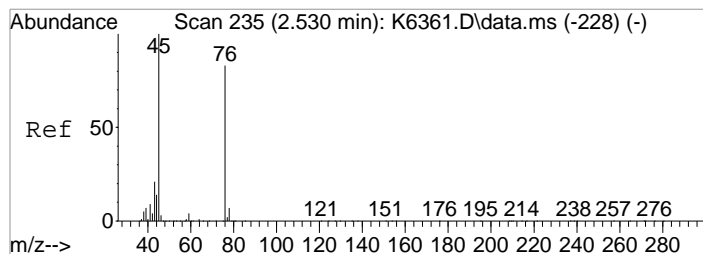
Tgt Ion	Resp	Lower	Upper
94	100		
96	46.8	71.0	111.0#



#15
 Acetone
 Concen: 3.03 ppb
 RT: 2.402 min Scan# 214
 Delta R.T. 0.013 min
 Lab File: K6934.D
 Acq: 21 Sep 2021 6:22 pm

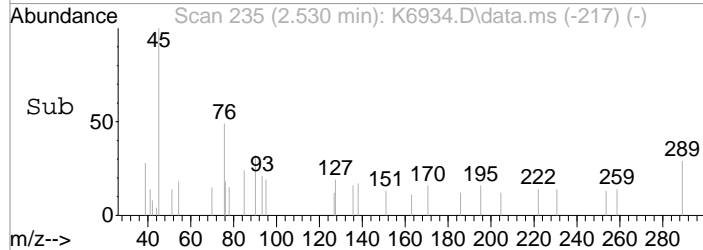
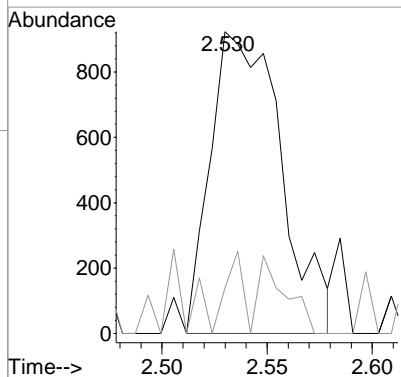
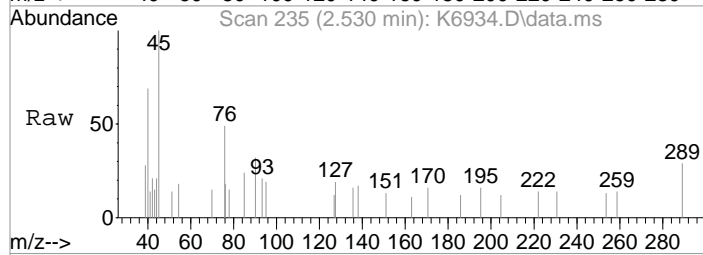
Tgt Ion	Resp	Lower	Upper
43	100		
58	32.1	9.6	49.6
42	11.3	0.0	27.7





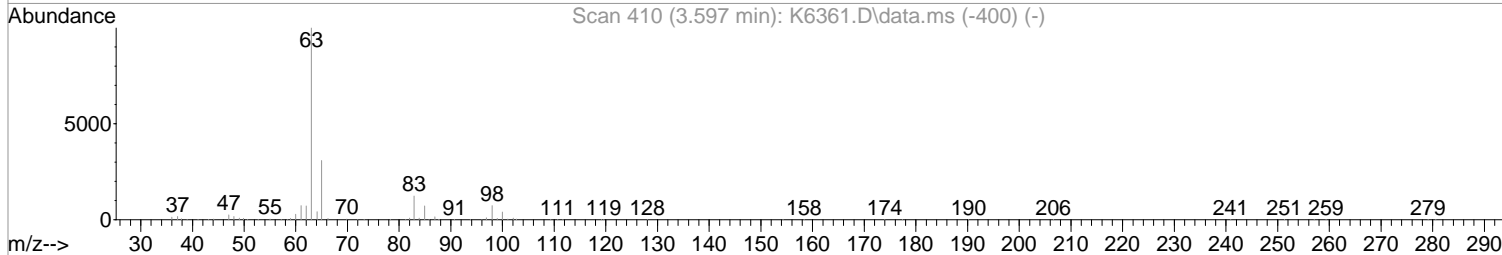
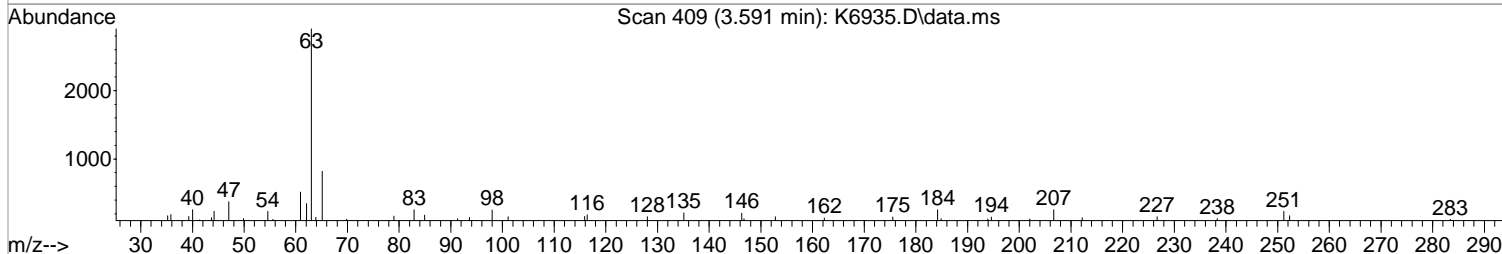
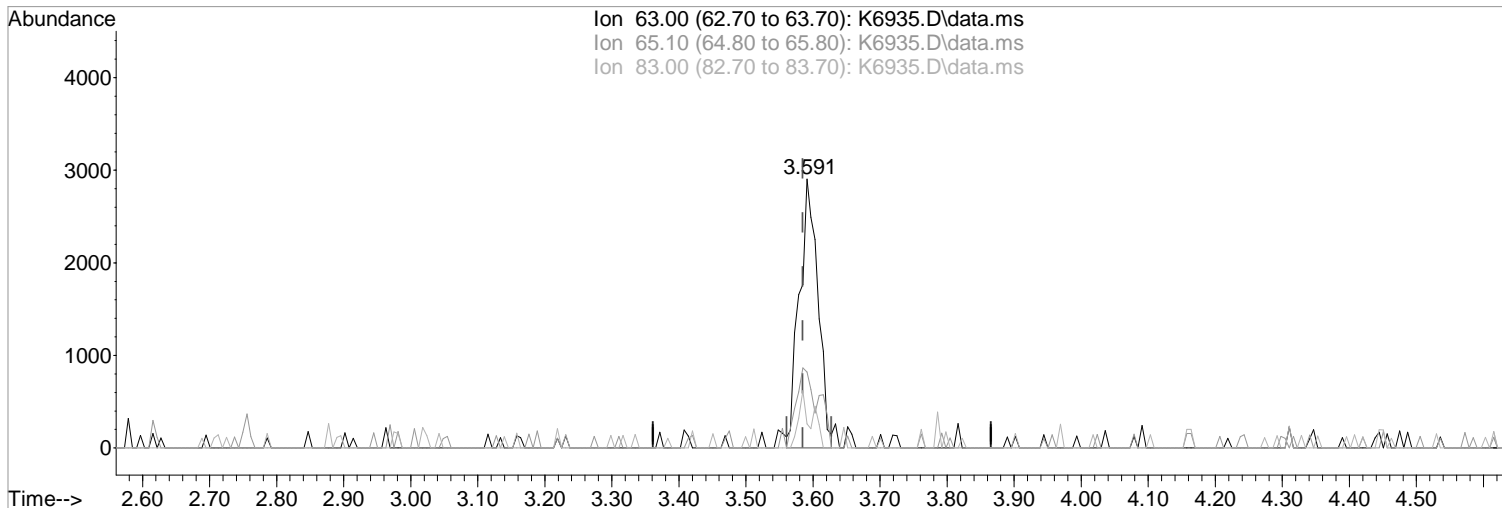
#16
2-Propanol
Concen: 5.08 ppb
RT: 2.530 min Scan# 235
Delta R.T. -0.000 min
Lab File: K6934.D
Acq: 21 Sep 2021 6:22 pm

Tgt Ion: 45 Resp: 2165
Ion Ratio Lower Upper
45 100
43 15.0 0.6 40.6



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6935.D
Acq On : 21 Sep 2021 6:44 pm
Operator : K.Ruest
Sample : R2109484-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 22 09:26:50 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(28) 1,1-Dicethane (P)
3.591min (+0.006) 0.83 ppb m
response 5597

Manual Integration:

After

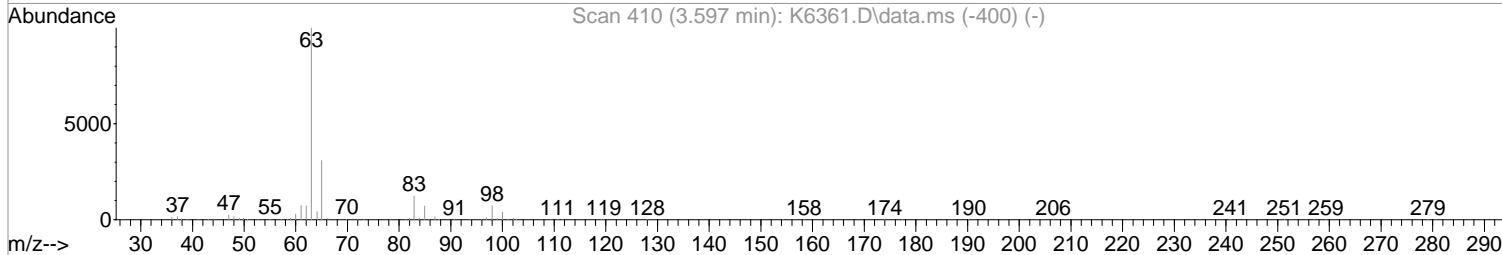
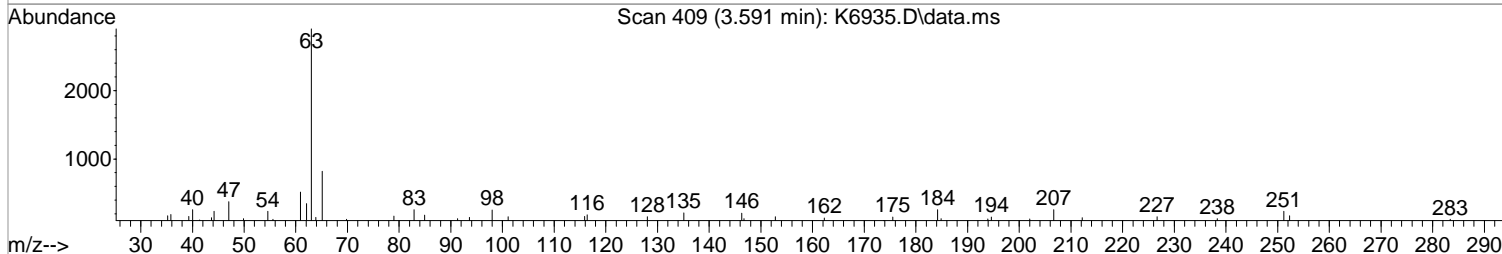
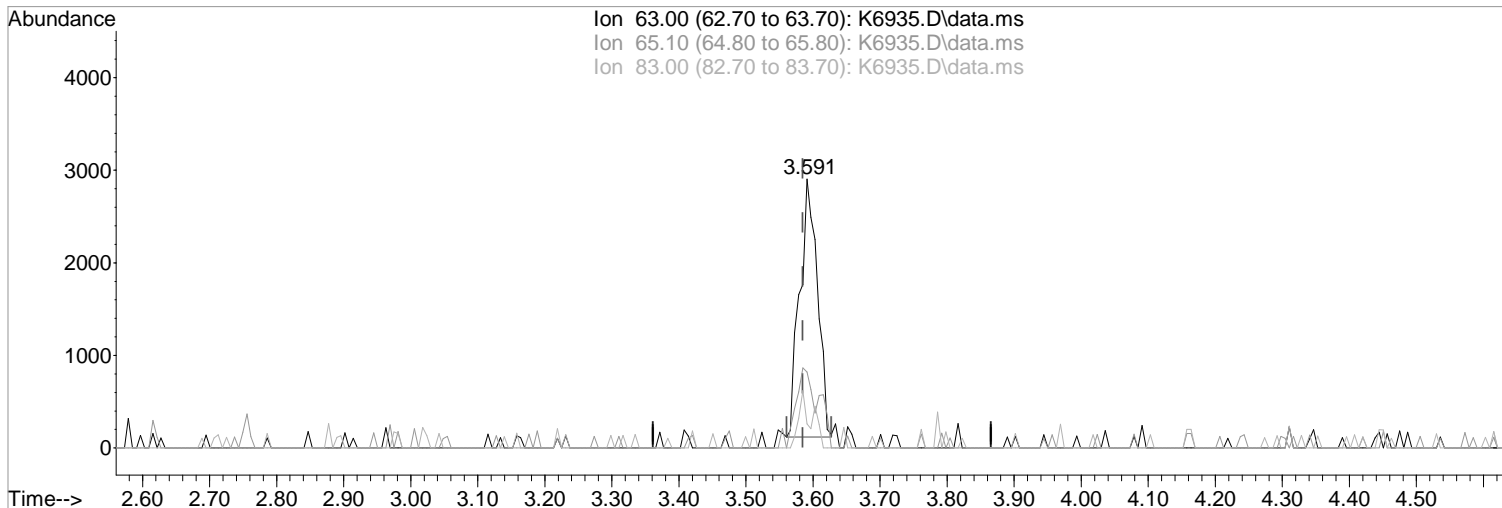
Poor integration.

09/22/21

Ion	Exp%	Act%
63.00	100	100
65.10	30.80	28.26
83.00	12.30	8.98
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6935.D
Acq On : 21 Sep 2021 6:44 pm
Operator : K.Ruest
Sample : R2109484-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 22 09:26:50 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(28) 1,1-Dicethane (P)
3.591min (+0.006) 0.75 ppb
response 5115

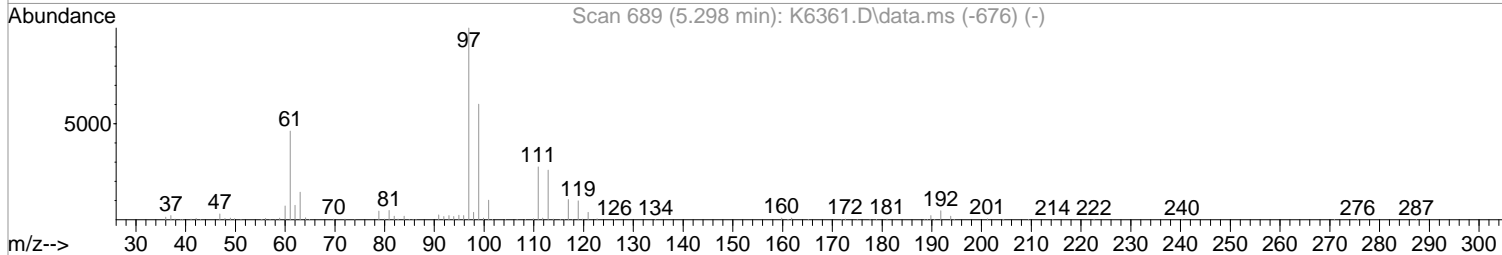
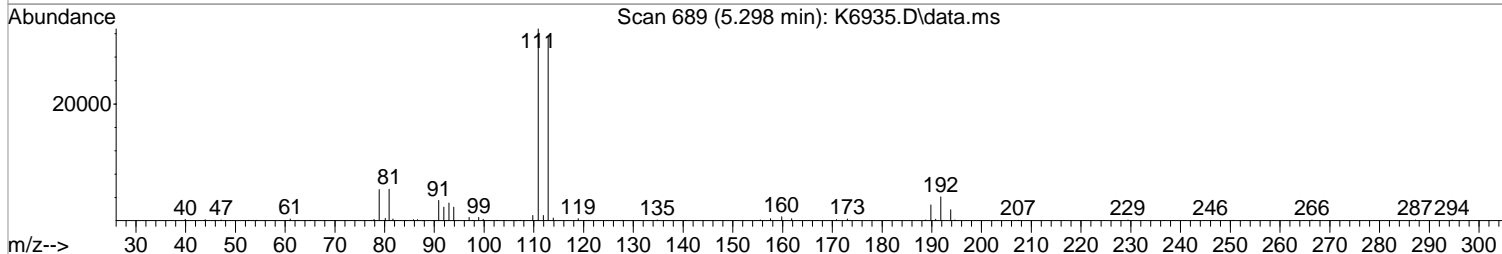
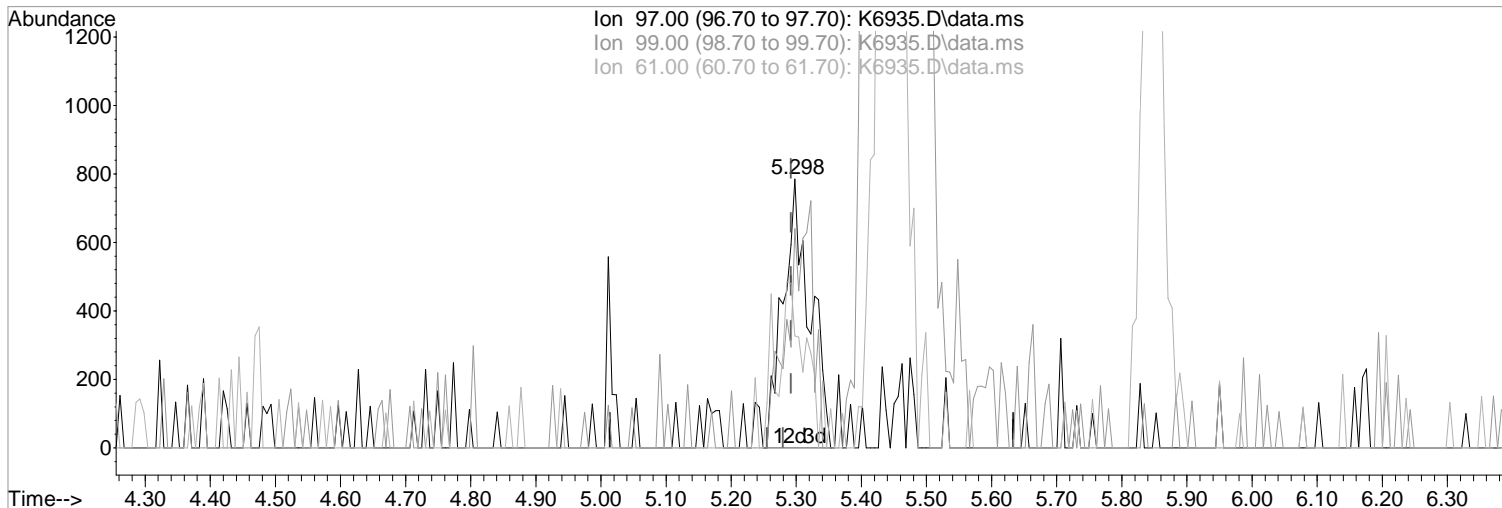
Manual Integration:
Before

Ion	Exp%	Act%
63.00	100	100
65.10	30.80	28.26
83.00	12.30	8.98
0.00	0.00	0.00

09/22/21

Data Path : I:\ACQUDATA\msvoal2\Data\092121\
Data File : K6935.D
Acq On : 21 Sep 2021 6:44 pm
Operator : K.Ruest
Sample : R2109484-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 22 09:26:50 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.298min (+0.006) 0.41 ppb m

response 2232

Ion	Exp%	Act%
97.00	100	100
99.00	60.30	98.46#
61.00	46.20	50.31
0.00	0.00	0.00

Manual Integration:

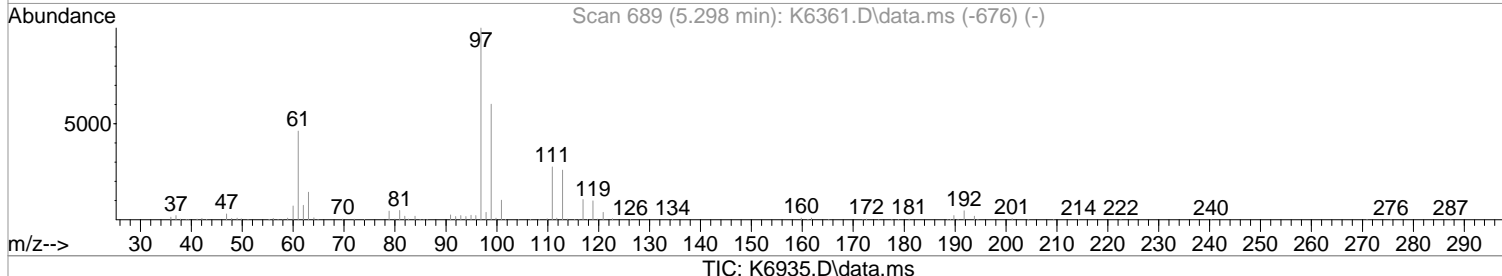
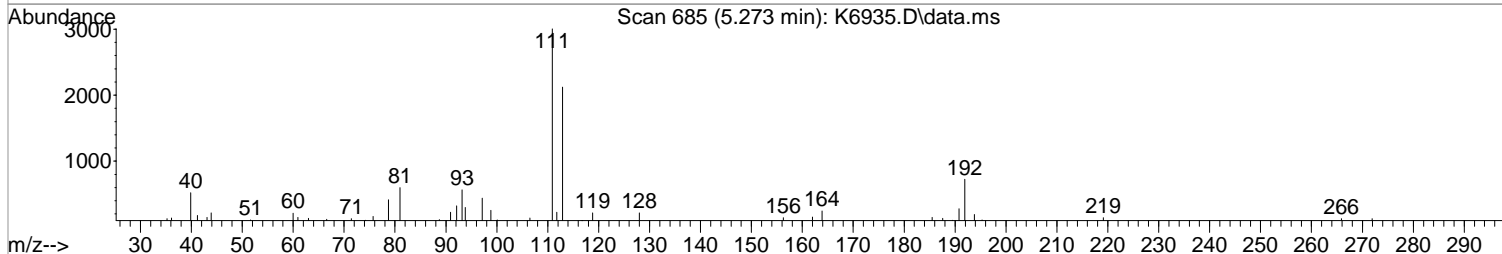
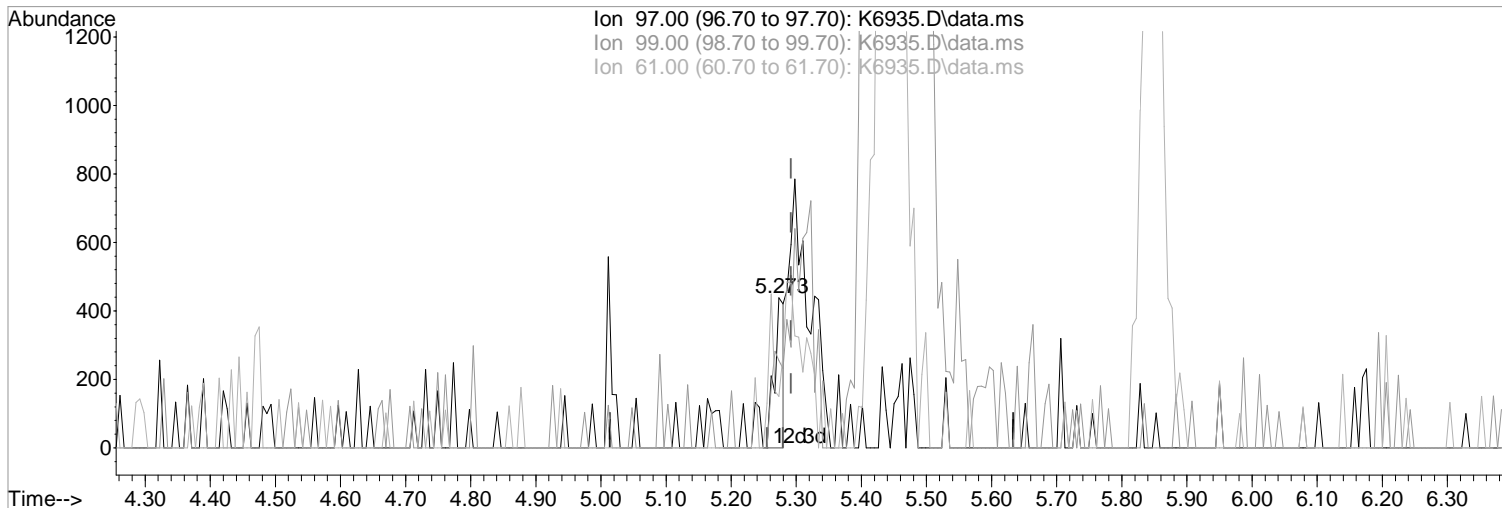
After

Split Peak

09/22/21

Data Path : I:\ACQUDATA\msvoal2\Data\092121\
Data File : K6935.D
Acq On : 21 Sep 2021 6:44 pm
Operator : K.Ruest
Sample : R2109484-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 22 09:26:50 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

Manual Integration:

5.273min (-0.018) 0.08 ppb

Before

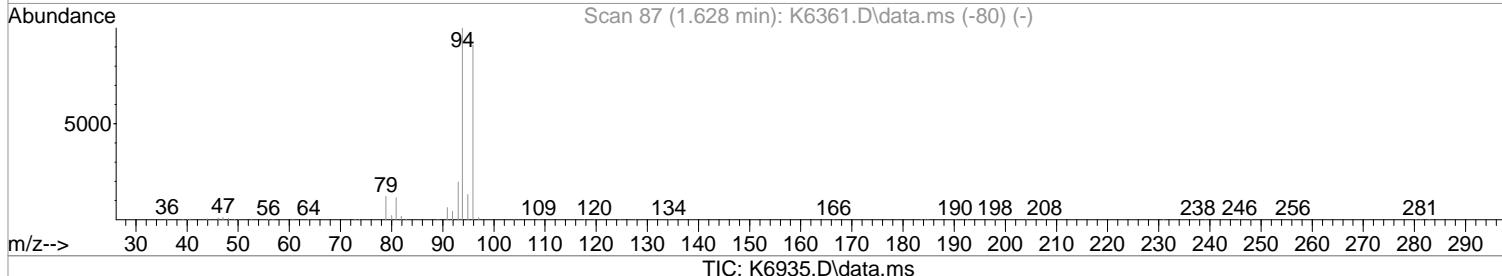
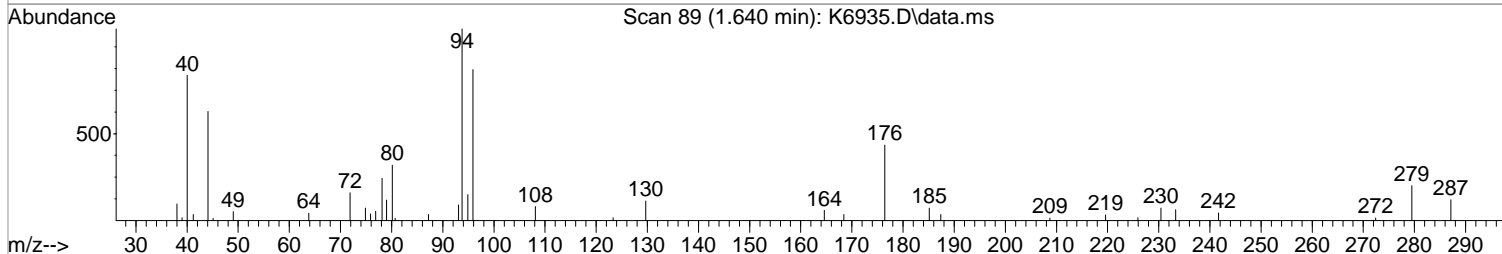
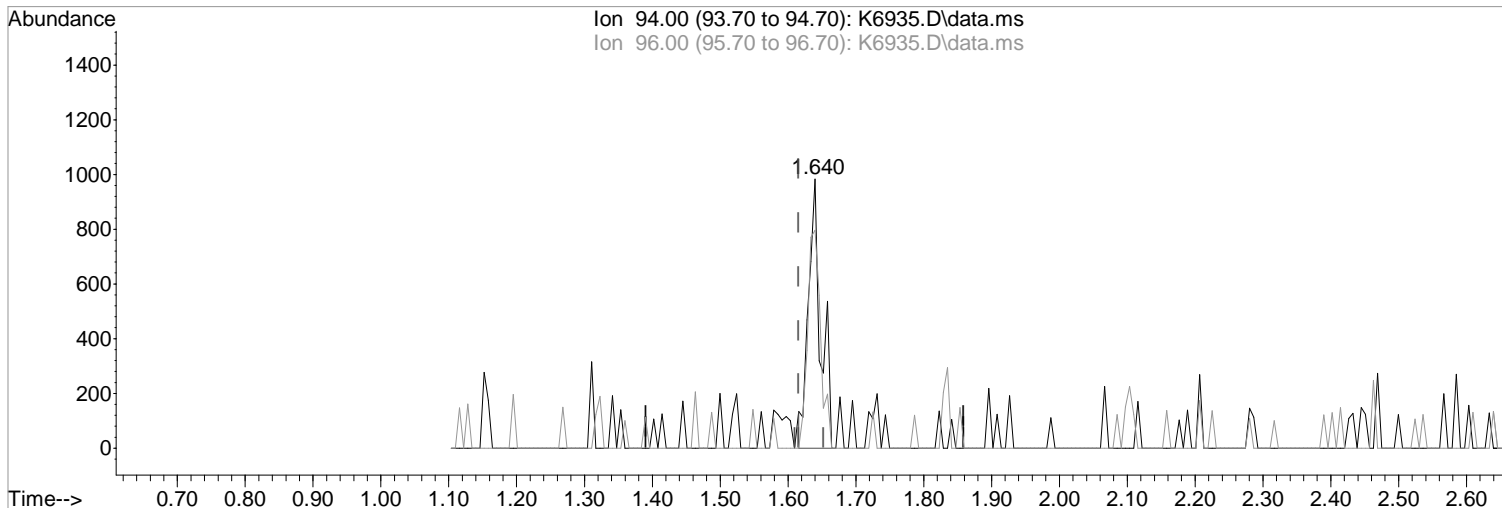
response 449

Ion	Exp%	Act%
97.00	100	100
99.00	60.30	58.22
61.00	46.20	34.25
0.00	0.00	0.00

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6935.D
Acq On : 21 Sep 2021 6:44 pm
Operator : K.Ruest
Sample : R2109484-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 22 09:26:50 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.640min (+0.024) 0.41 ppb m
response 1235

Manual Integration:

After

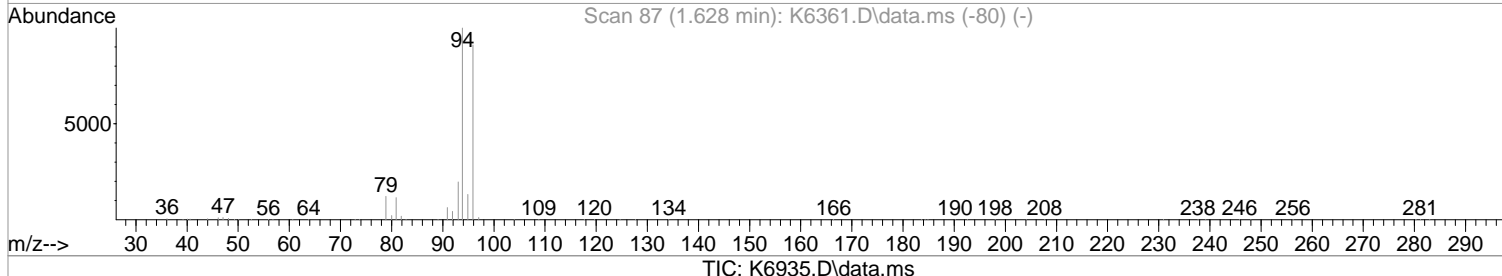
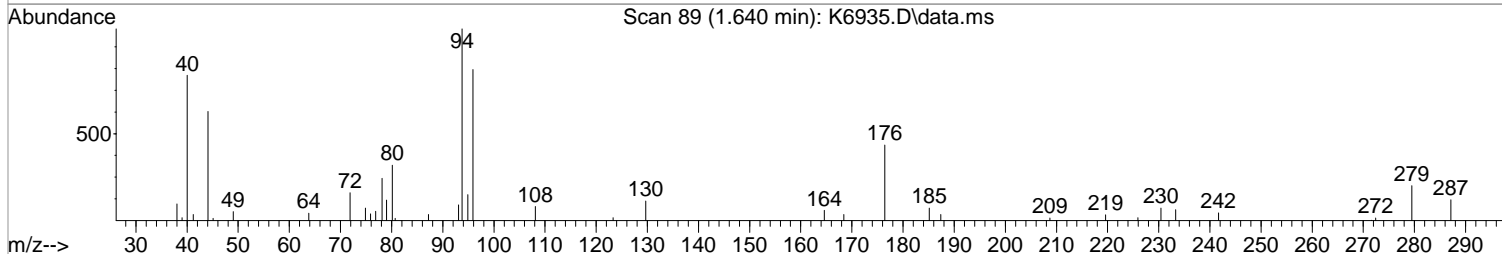
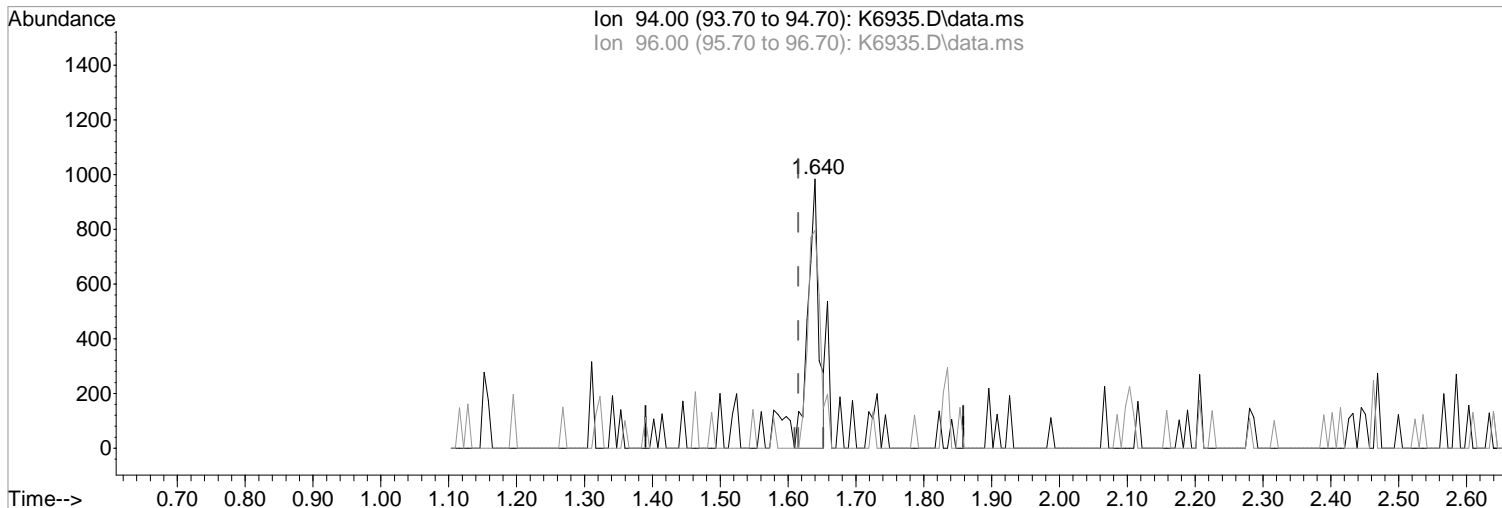
Poor integration.

09/22/21

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	80.98
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6935.D
 Acq On : 21 Sep 2021 6:44 pm
 Operator : K.Ruest
 Sample : R2109484-002|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 22 09:26:50 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration



(5) Bromomethane (P)
 1.640min (+0.024) 0.36 ppb
 response 1088

Manual Integration:

Before

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	80.98
0.00	0.00	0.00
0.00	0.00	0.00

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6935.D
 Acq On : 21 Sep 2021 6:44 pm
 Operator : K.Ruest
 Sample : R2109484-002|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 22 15:10:24 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

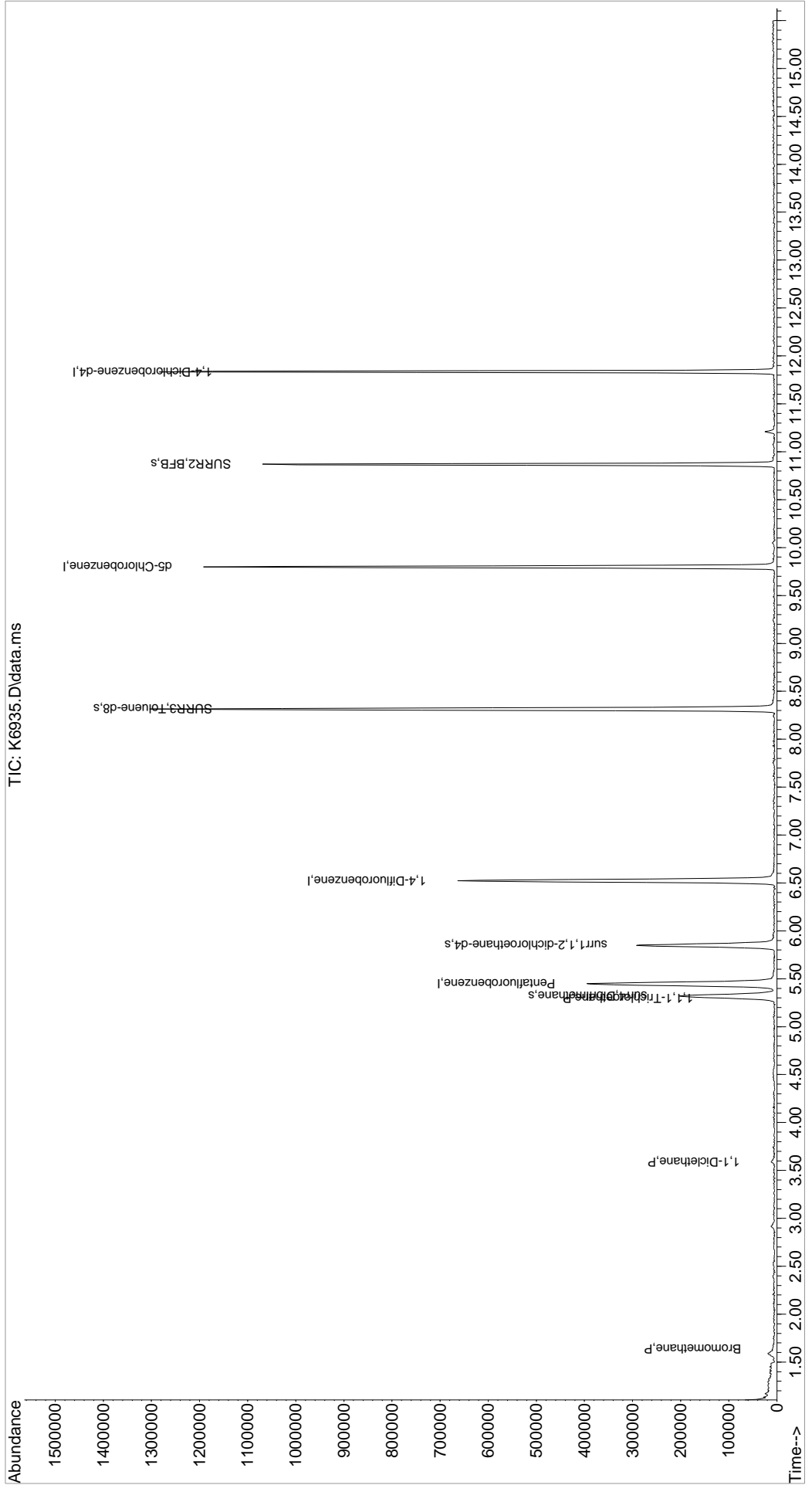
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	338556	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	578813	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	518633	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	233922	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	163048	51.75	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	103.50%	
48) surr1,1,2-dichloroetha...	5.853	65	246486	53.80	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	107.60%	
65) SURR3,Toluene-d8	8.316	98	798482	53.91	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	107.82%	
70) SURR2,BFB	10.870	95	302558	51.46	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	102.92%	
Target Compounds						
5) Bromomethane	1.640	94	1235m	0.41	ppb	Qvalue
15) Acetone	2.396	43	3584	Below	Cal	97
28) 1,1-Diclcethane	3.591	63	5597m	0.83	ppb	
41) 1,1,1-Trichloroethane	5.298	97	2232m	0.41	ppb	

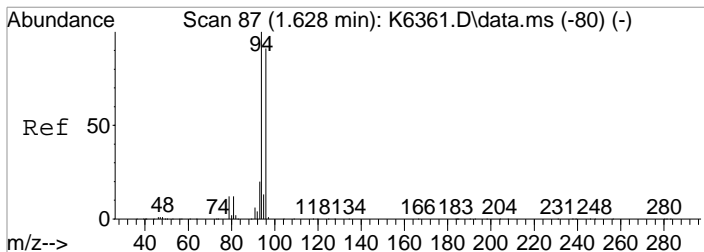
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092121\
 Data File : K6935.D
 Acq On : 21 Sep 2021 6:44 pm
 Operator : K.Ruest
 Sample : R2109484-002|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

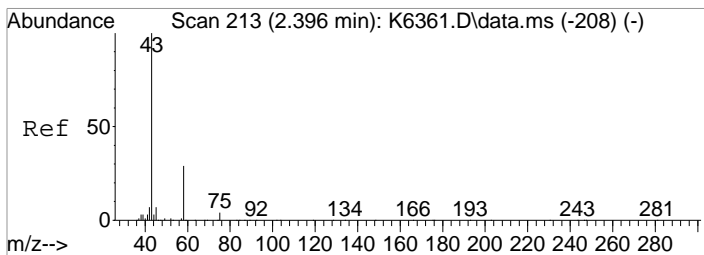
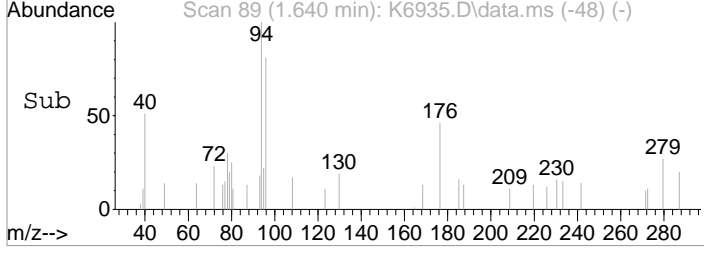
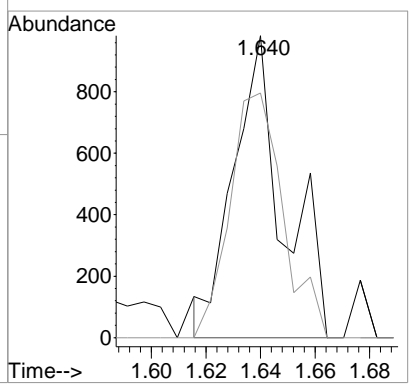
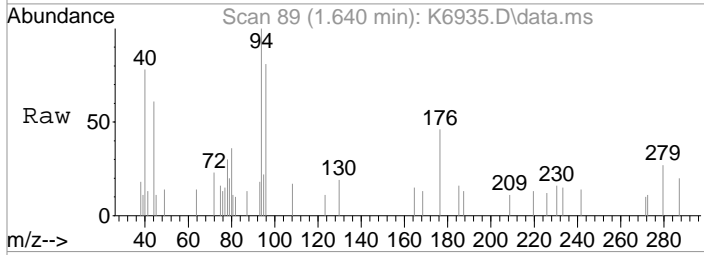
Quant Time: Sep 22 15:10:24 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





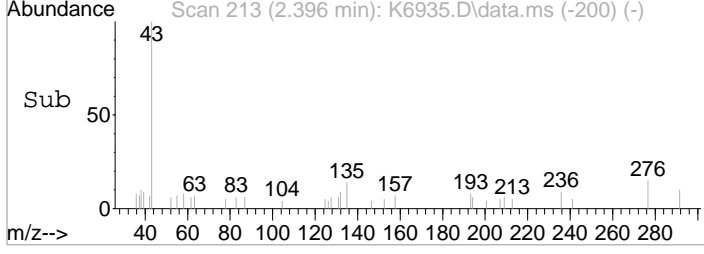
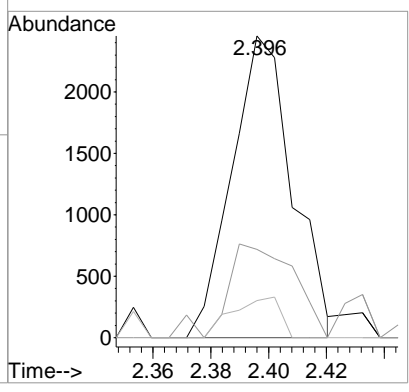
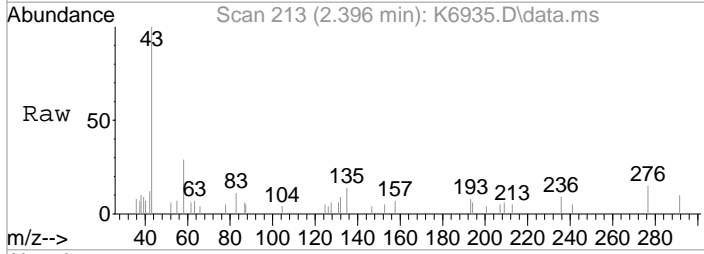
#5
 Bromomethane
 Concen: 0.41 ppb m
 RT: 1.640 min Scan# 89
 Delta R.T. 0.024 min
 Lab File: K6935.D
 Acq: 21 Sep 2021 6:44 pm

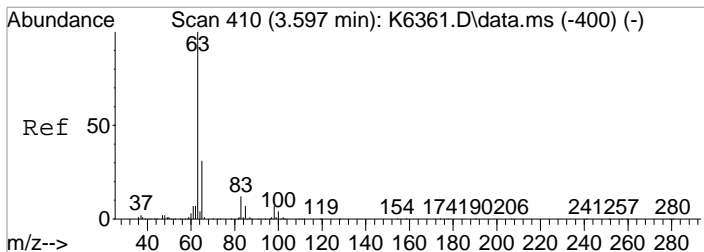
Tgt Ion	Resp	Lower	Upper
94	100		
96	81.0	71.0	111.0



#15
 Acetone
 Concen: Below Cal
 RT: 2.396 min Scan# 213
 Delta R.T. 0.007 min
 Lab File: K6935.D
 Acq: 21 Sep 2021 6:44 pm

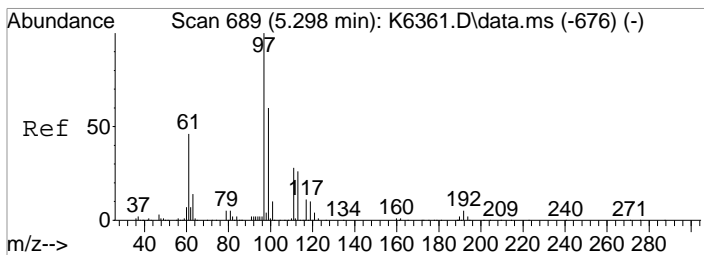
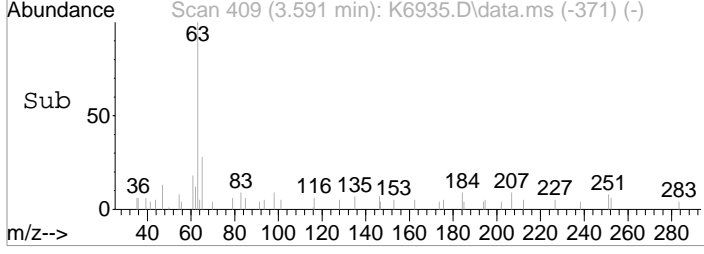
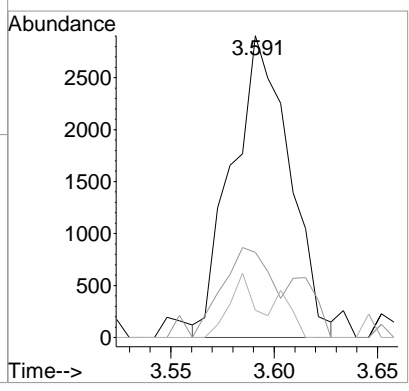
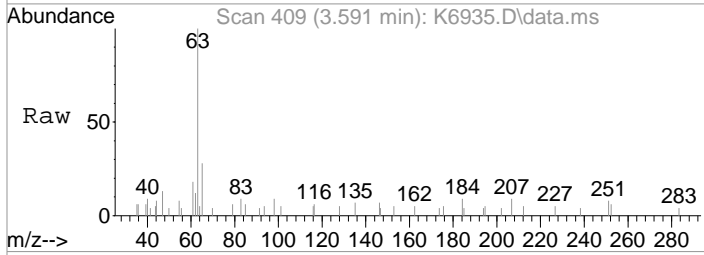
Tgt Ion	Resp	Lower	Upper
43	100		
58	29.2	9.6	49.6
42	12.3	0.0	27.7





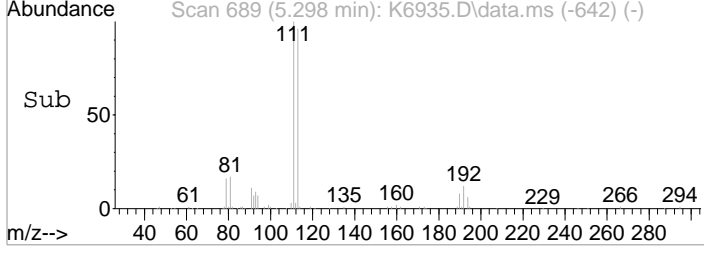
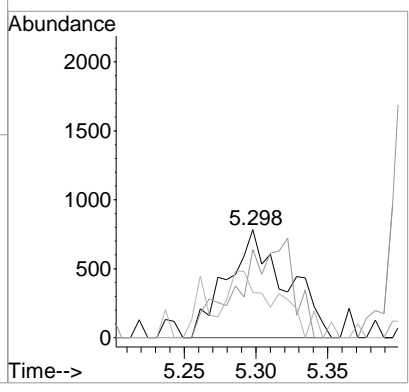
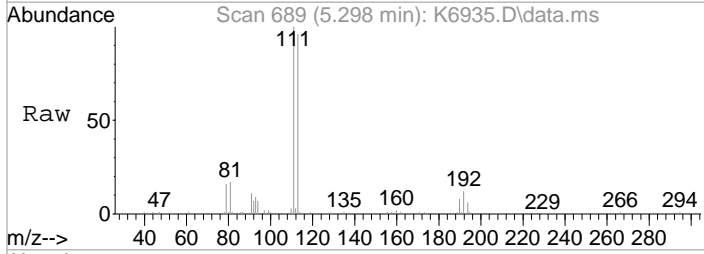
#28
 1,1-Dicloroethane
 Concen: 0.83 ppb m
 RT: 3.591 min Scan# 409
 Delta R.T. 0.006 min
 Lab File: K6935.D
 Acq: 21 Sep 2021 6:44 pm

Tgt Ion	Resp	Lower	Upper
63	100		
65	28.3	10.8	50.8
83	9.0	0.0	32.3



#41
 1,1,1-Trichloroethane
 Concen: 0.41 ppb m
 RT: 5.298 min Scan# 689
 Delta R.T. 0.006 min
 Lab File: K6935.D
 Acq: 21 Sep 2021 6:44 pm

Tgt Ion	Resp	Lower	Upper
97	100		
99	98.5	40.3	80.3#
61	50.3	26.2	66.2



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6932.D
 Acq On : 21 Sep 2021 5:39 pm
 Operator : K.Ruest
 Sample : R2109484-003|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 22 15:03:14 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

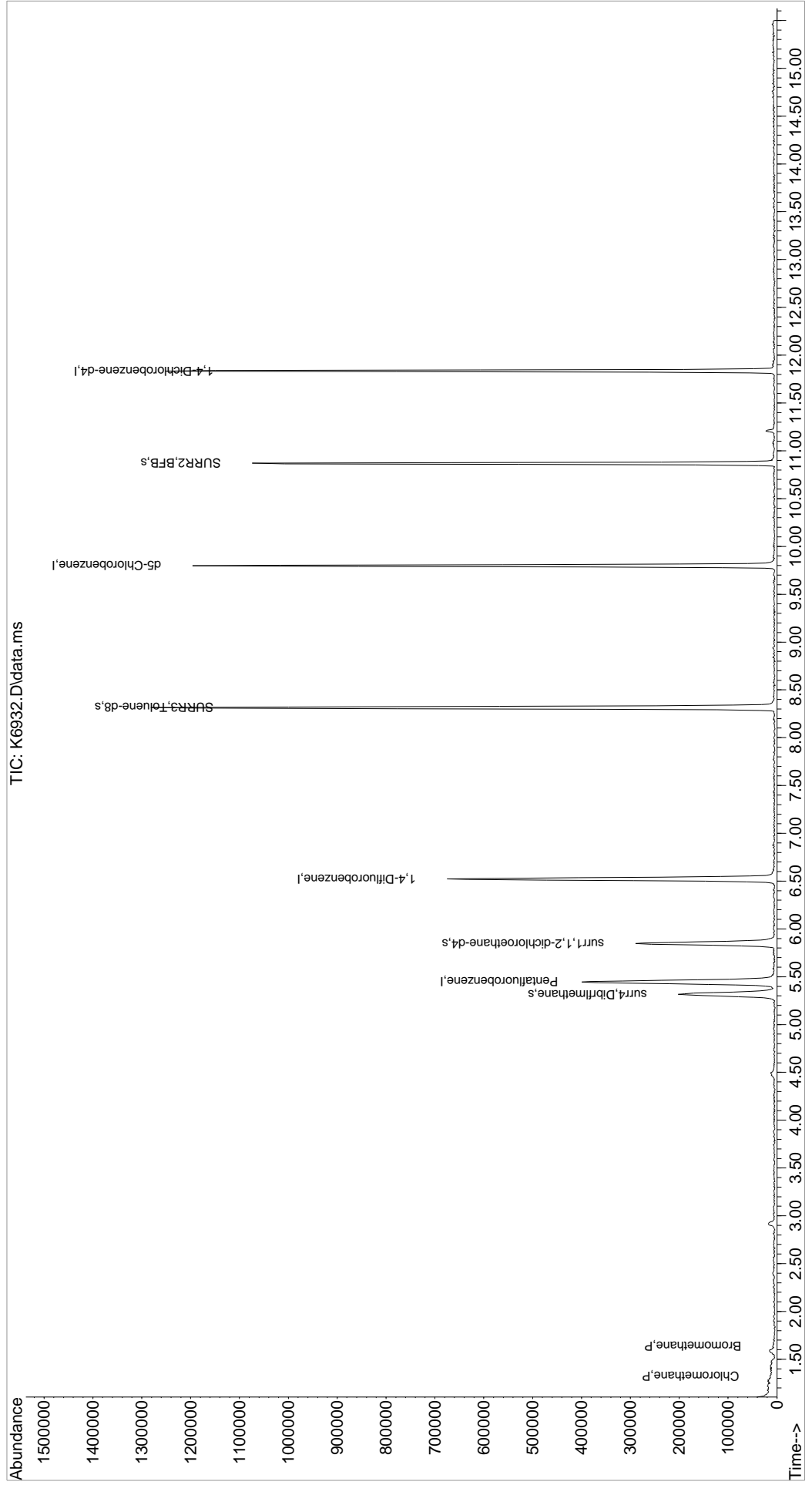
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	339822	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	573896	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	522393	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	243030	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	162752	52.09	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	104.18%	
48) surr1,1,2-dichloroetha...	5.847	65	249789	54.98	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	109.96%	
65) SURR3,Toluene-d8	8.316	98	802624	54.66	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	109.32%	
70) SURR2,BFB	10.870	95	305872	52.47	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	104.94%	
Target Compounds						
3) Chloromethane	1.323	50	1141	0.29	ppb	97
5) Bromomethane	1.634	94	1079	0.36	ppb	94
15) Acetone	2.390	43	3153	Below	Cal	82

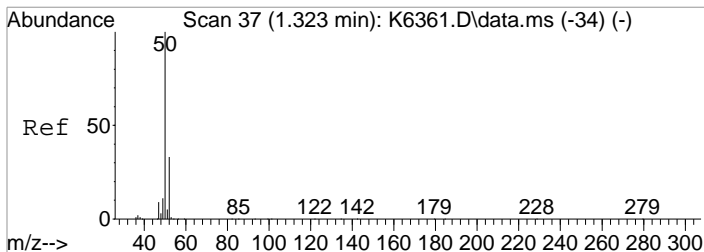
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092121\
Data File : K6932.D
Acq On : 21 Sep 2021 5:39 pm
Operator : K.Ruest
Sample : R2109484-003|1.0
Misc : VERINA 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

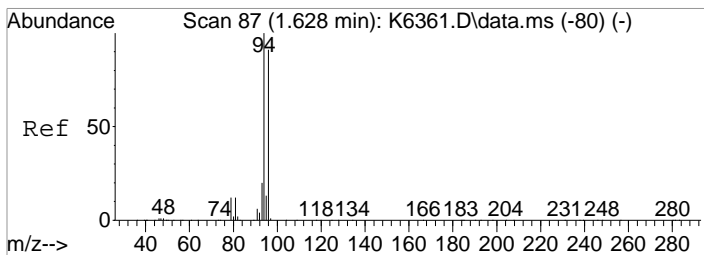
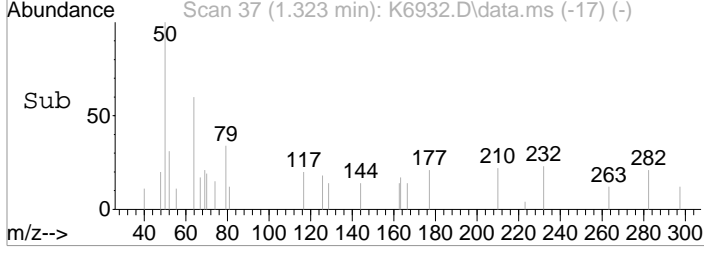
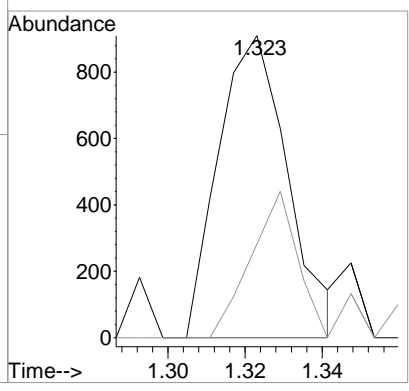
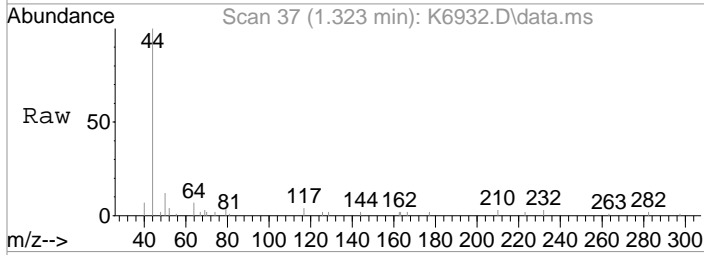
Quant Time: Sep 22 15:03:14 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration





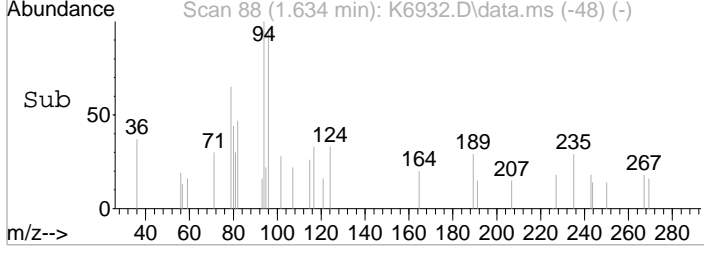
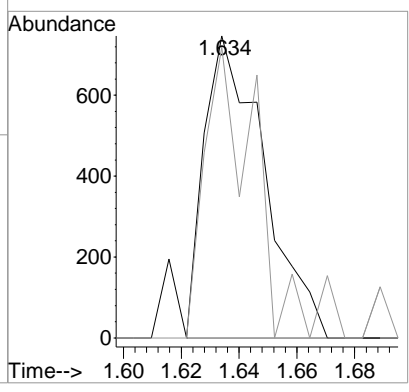
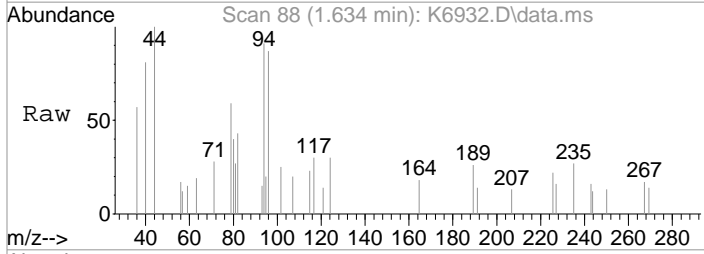
#3
 Chloromethane
 Concen: 0.29 ppb
 RT: 1.323 min Scan# 37
 Delta R.T. 0.006 min
 Lab File: K6932.D
 Acq: 21 Sep 2021 5:39 pm

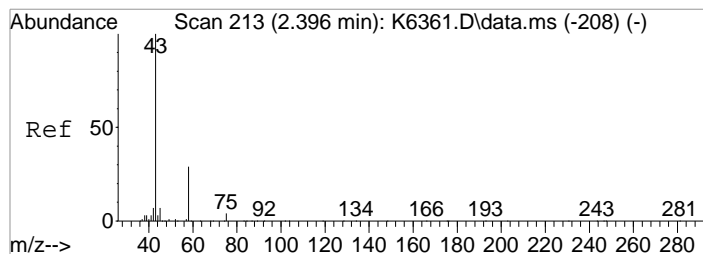
Tgt Ion	Resp	Lower	Upper
50	1141	100	100
52	31.0	12.7	52.7



#5
 Bromomethane
 Concen: 0.36 ppb
 RT: 1.634 min Scan# 88
 Delta R.T. 0.018 min
 Lab File: K6932.D
 Acq: 21 Sep 2021 5:39 pm

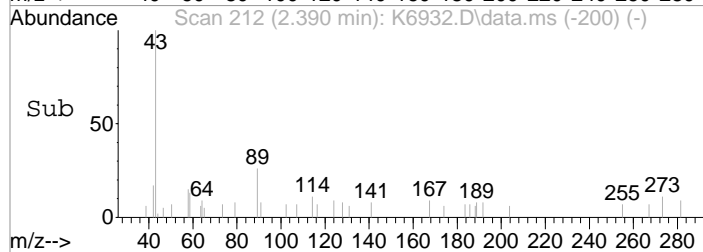
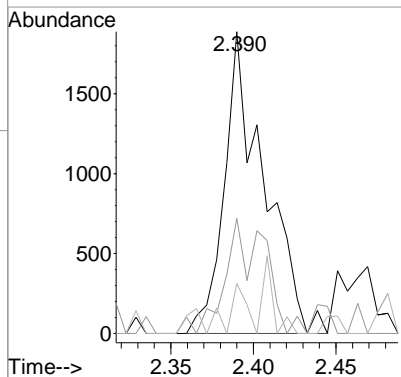
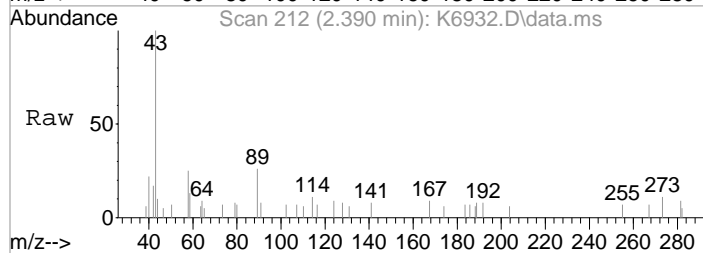
Tgt Ion	Resp	Lower	Upper
94	1079	100	100
96	96.3	71.0	111.0





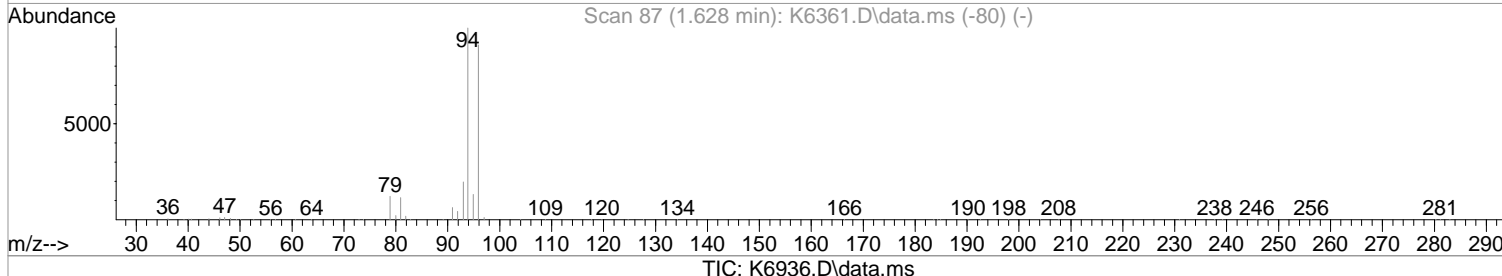
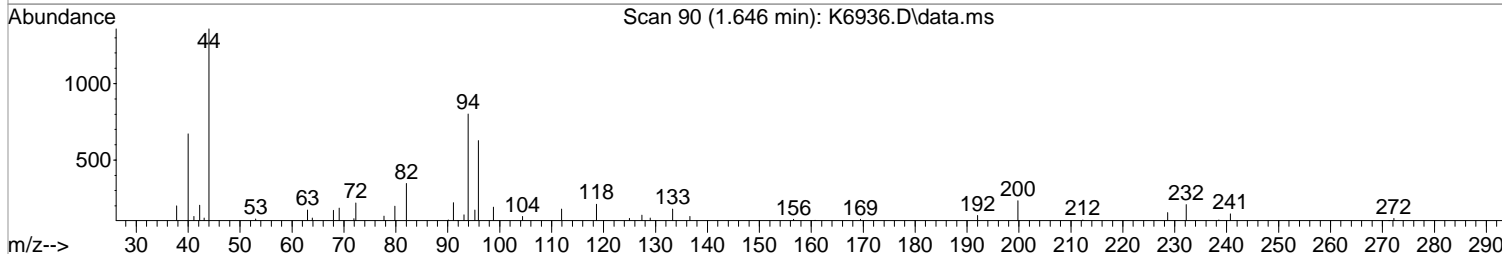
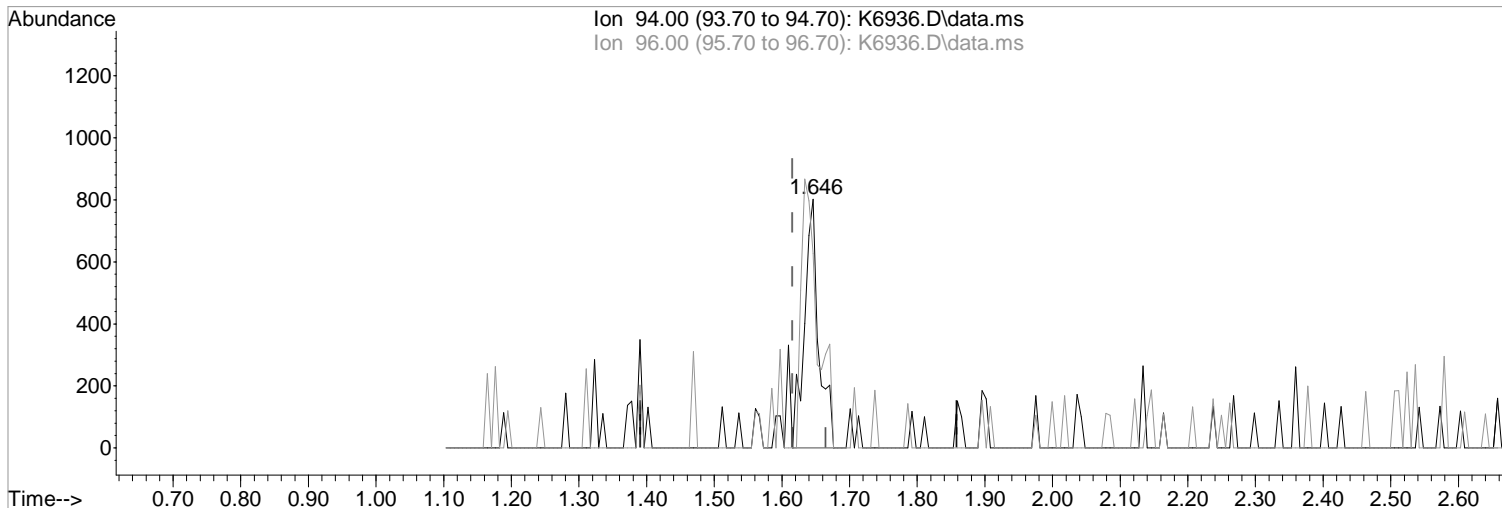
#15
 Acetone
 Concen: Below Cal
 RT: 2.390 min Scan# 212
 Delta R.T. 0.001 min
 Lab File: K6932.D
 Acq: 21 Sep 2021 5:39 pm

Tgt Ion	Resp	Lower	Upper
43	3153		
58	38.2	9.6	49.6
42	16.5	0.0	27.7



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6936.D
Acq On : 21 Sep 2021 7:06 pm
Operator : K.Ruest
Sample : R2109484-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 22 09:27:55 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(5) Bromomethane (P)

1.646min (+0.030) 0.40 ppb m
response 1179

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	78.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

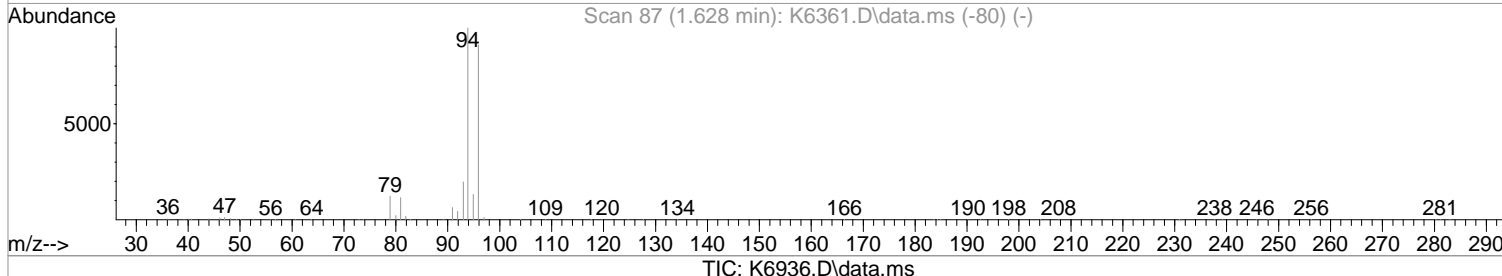
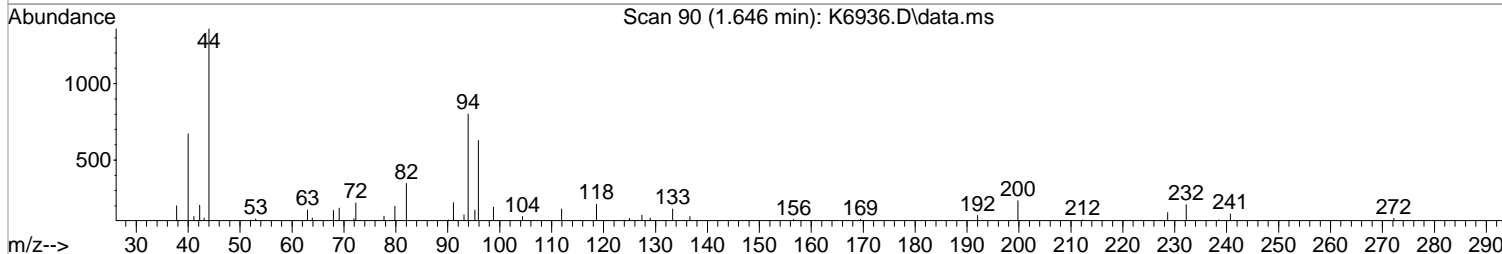
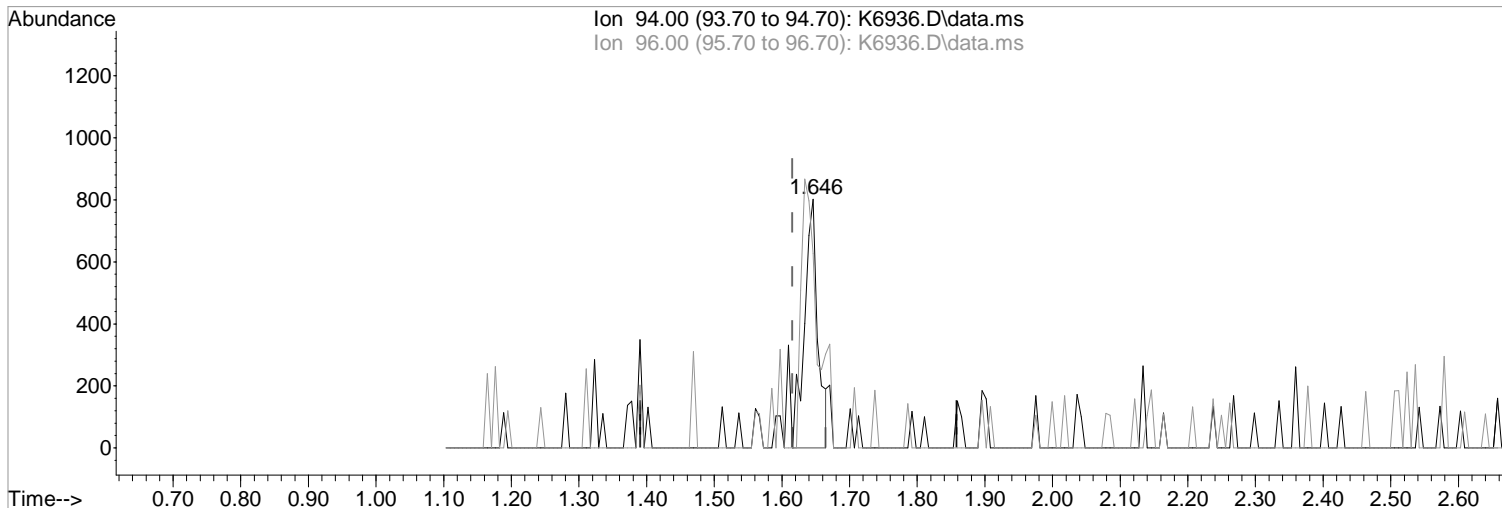
After

Poor integration.

09/22/21

Data Path : I:\ACQUDATA\msvoal2\Data\092121\
Data File : K6936.D
Acq On : 21 Sep 2021 7:06 pm
Operator : K.Ruest
Sample : R2109484-005|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 22 09:27:55 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.646min (+0.030) 0.37 ppb
response 1105

Manual Integration:

Before

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	78.18
0.00	0.00	0.00
0.00	0.00	0.00

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6936.D
 Acq On : 21 Sep 2021 7:06 pm
 Operator : K.Ruest
 Sample : R2109484-005|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 22 15:12:23 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

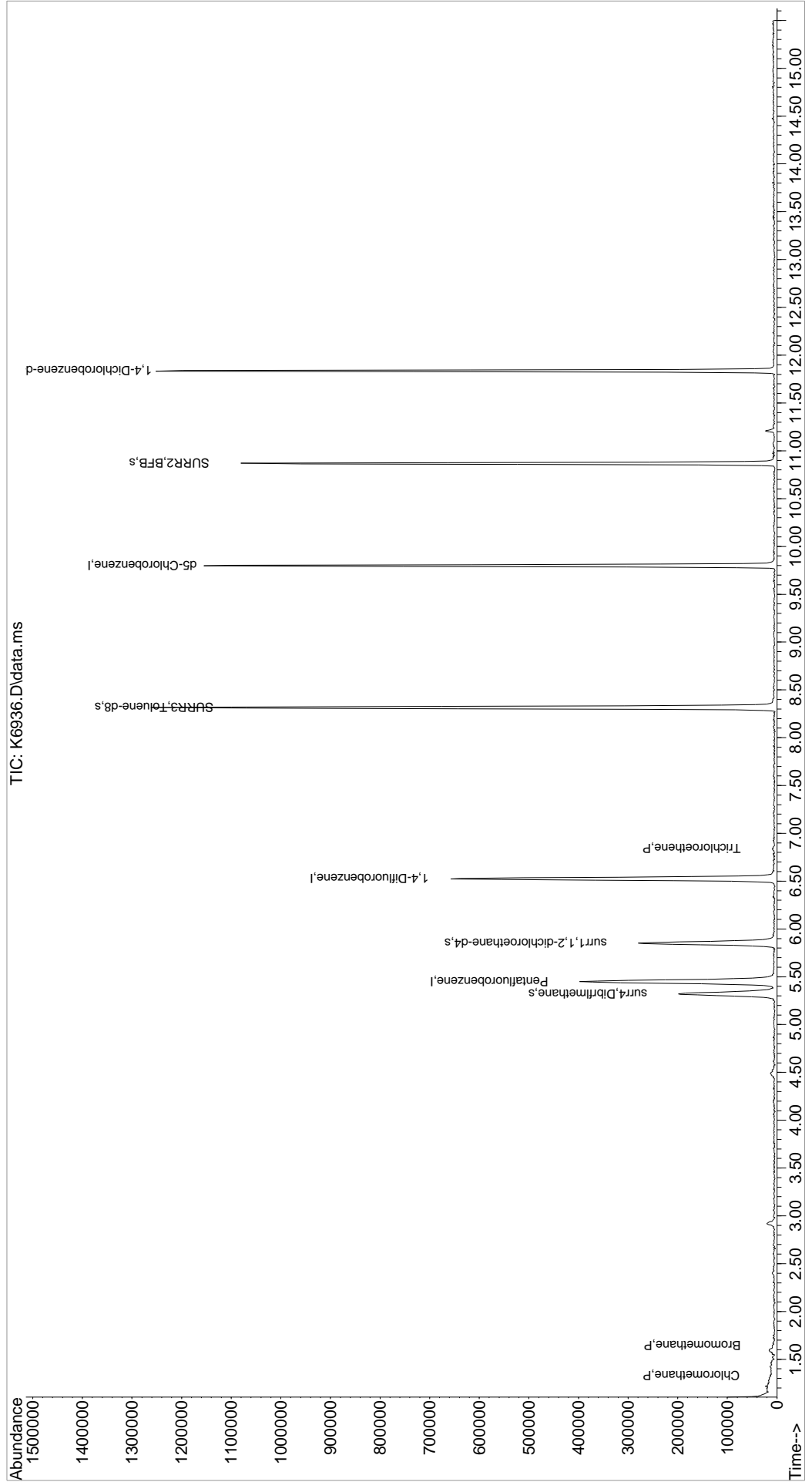
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	336905	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	562454	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	501422	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	236226	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	164479	53.72	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	107.44%	
48) surr1,1,2-dichloroetha...	5.852	65	241212	54.18	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.36%	
65) SURR3,Toluene-d8	8.315	98	786272	54.63	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	109.26%	
70) SURR2,BFB	10.870	95	301453	52.77	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	105.54%	
Target Compounds						
3) Chloromethane	1.329	50	1185	0.30	ppb	Qvalue 91
5) Bromomethane	1.646	94	1179m	0.40	ppb	
15) Acetone	2.402	43	2747	Below	Cal	88
54) Trichloroethene	6.840	130	1134	0.29	ppb #	61

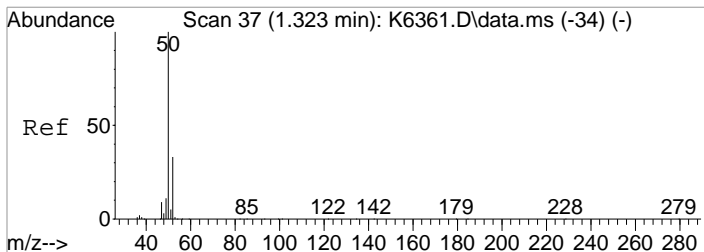
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092121\
Data File : K6936.D
Acq On : 21 Sep 2021 7:06 pm
Operator : K.Ruest
Sample : R2109484-005|1.0
Misc : VERINA 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA-12

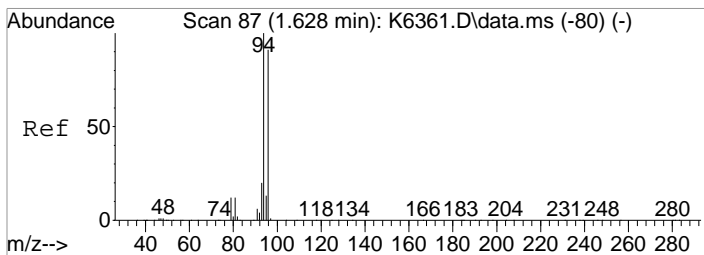
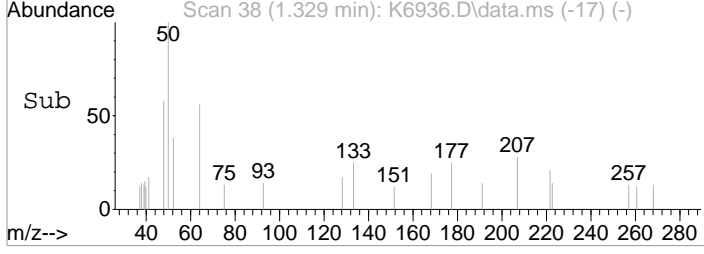
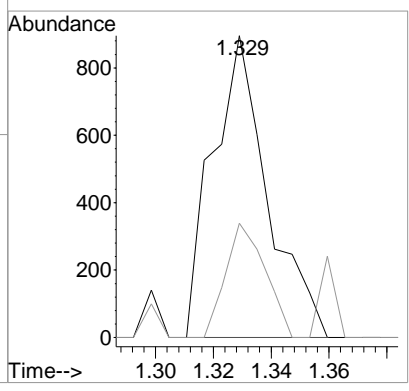
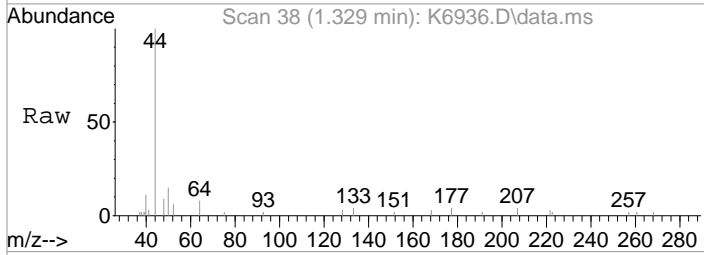
Quant Time: Sep 22 15:12:23 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration





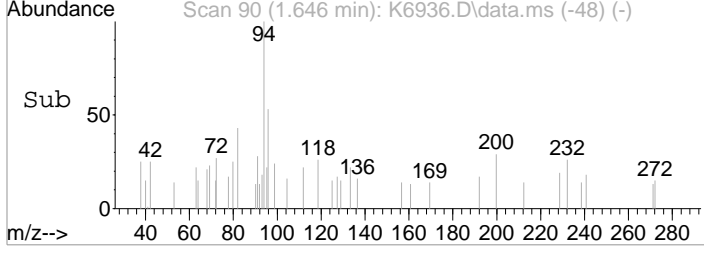
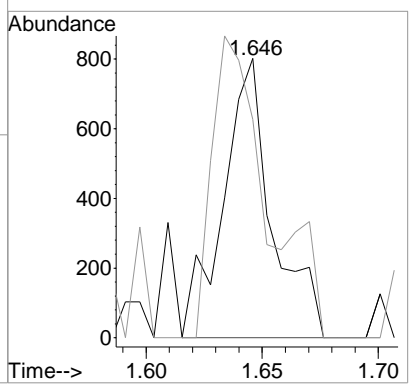
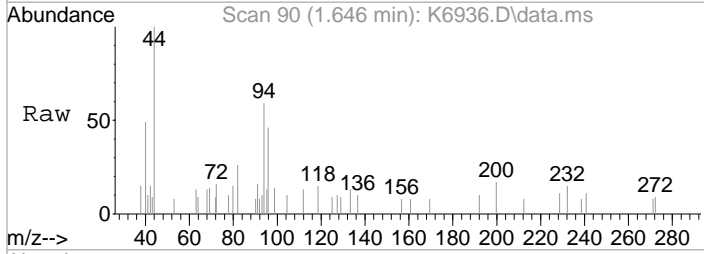
#3
 Chloromethane
 Concen: 0.30 ppb
 RT: 1.329 min Scan# 38
 Delta R.T. 0.012 min
 Lab File: K6936.D
 Acq: 21 Sep 2021 7:06 pm

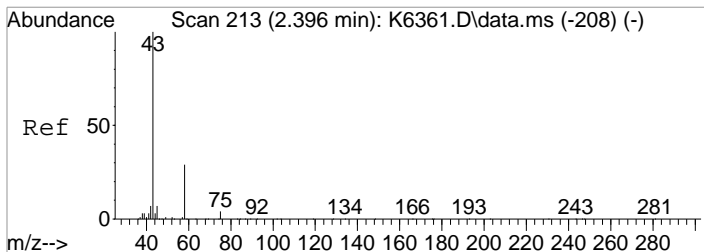
Tgt Ion	Resp	Lower	Upper
50	1185		
52	37.8	12.7	52.7



#5
 Bromomethane
 Concen: 0.40 ppb m
 RT: 1.646 min Scan# 90
 Delta R.T. 0.030 min
 Lab File: K6936.D
 Acq: 21 Sep 2021 7:06 pm

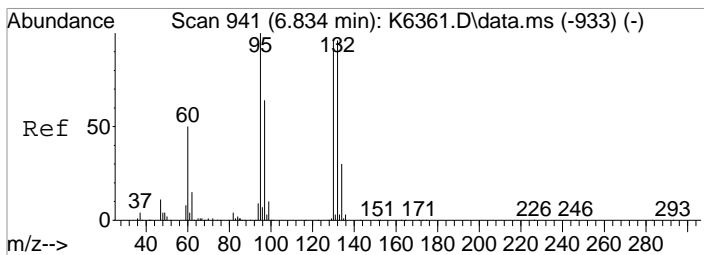
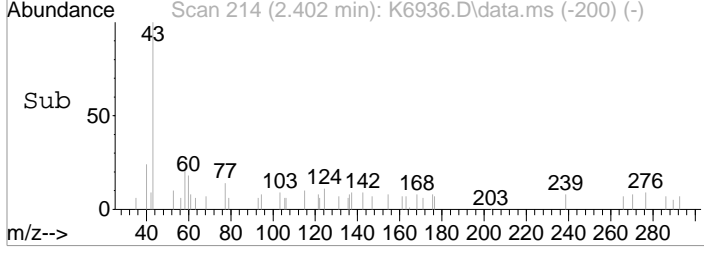
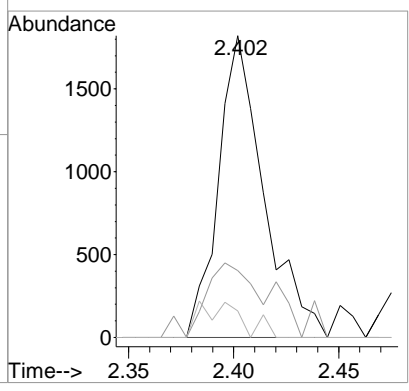
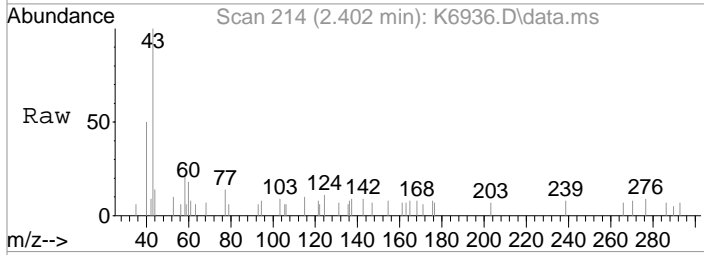
Tgt Ion	Resp	Lower	Upper
94	1179		
96	78.2	71.0	111.0





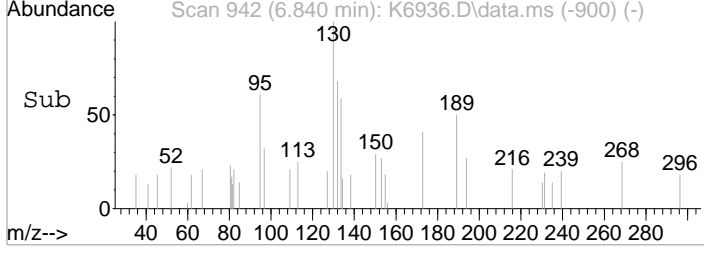
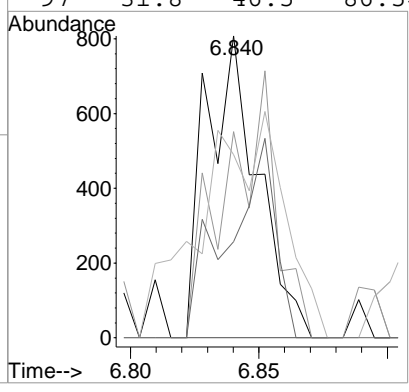
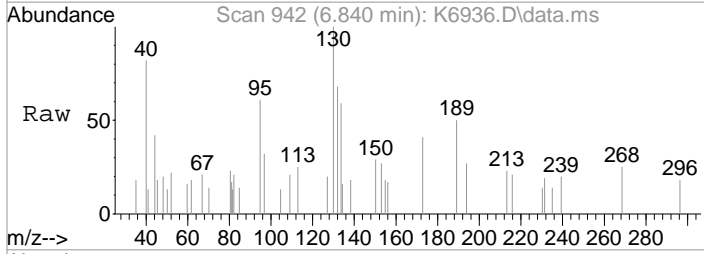
#15
 Acetone
 Concen: Below Cal
 RT: 2.402 min Scan# 214
 Delta R.T. 0.013 min
 Lab File: K6936.D
 Acq: 21 Sep 2021 7:06 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	22.2	9.6	49.6
42	8.8	0.0	27.7



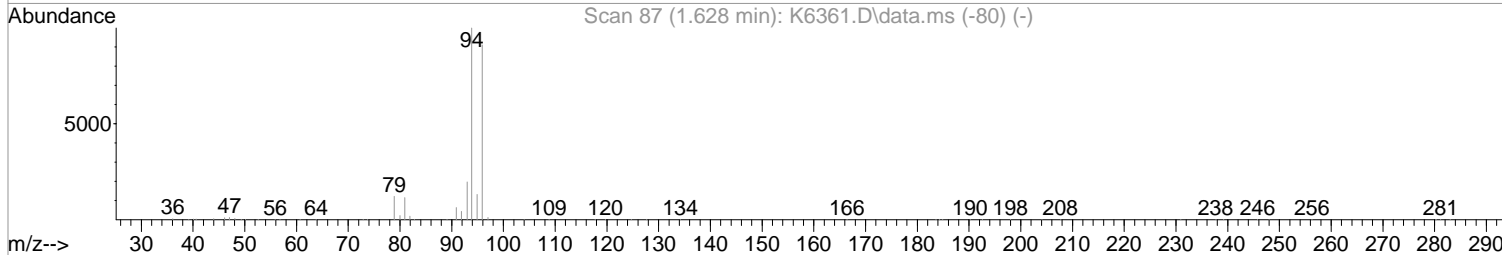
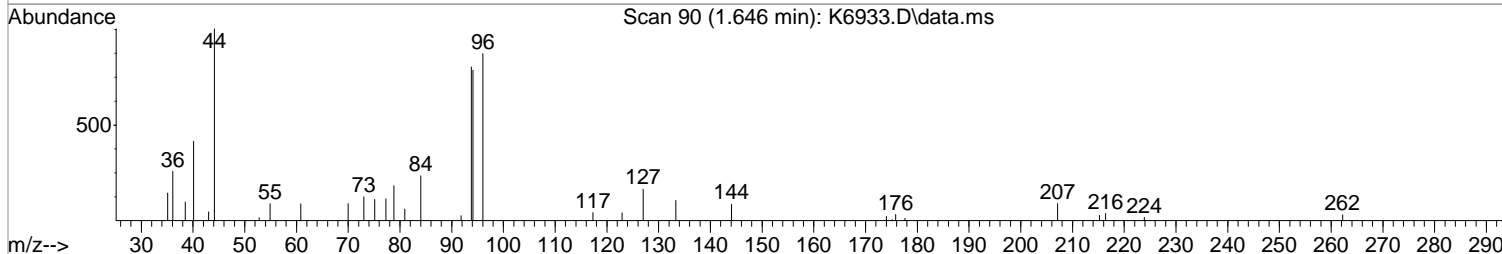
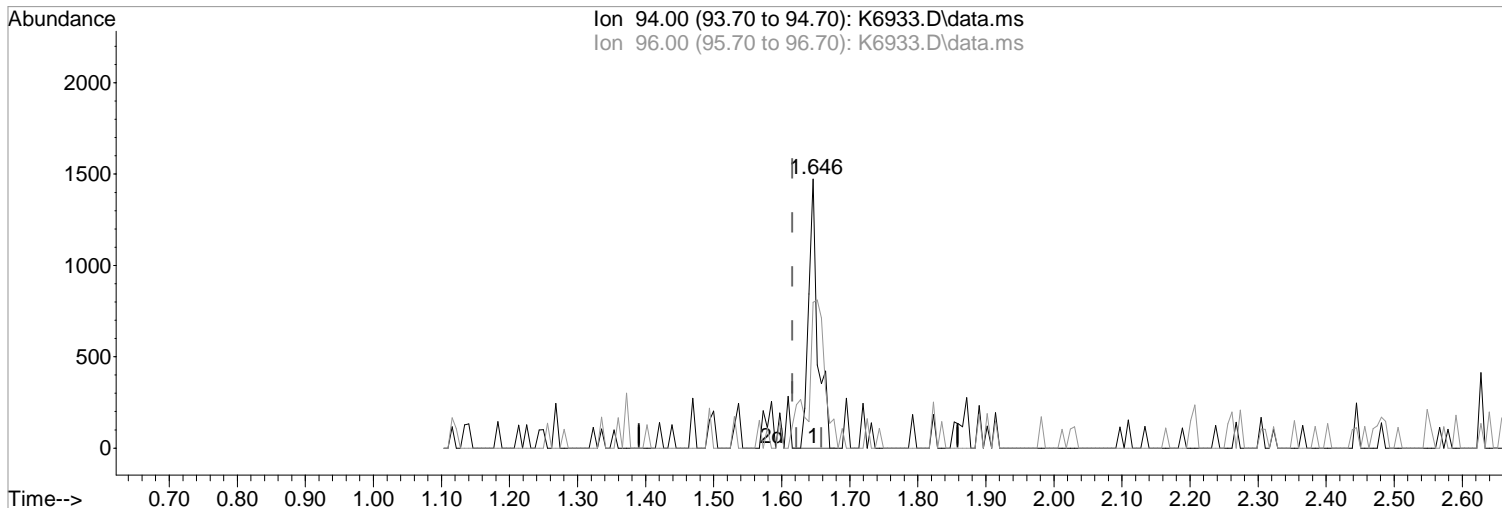
#54
 Trichloroethene
 Concen: 0.29 ppb
 RT: 6.840 min Scan# 942
 Delta R.T. 0.006 min
 Lab File: K6936.D
 Acq: 21 Sep 2021 7:06 pm

Tgt Ion	Resp	Lower	Upper
130	100		
132	68.3	79.7	119.7#
95	60.6	83.8	123.8#
97	31.8	46.5	86.5#



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6933.D
 Acq On : 21 Sep 2021 6:00 pm
 Operator : K.Ruest
 Sample : R2109484-006|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 21 18:16:00 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration



(5) Bromomethane (P)

1.646min (+0.031) 0.47 ppb m

response 1378

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	107.54
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

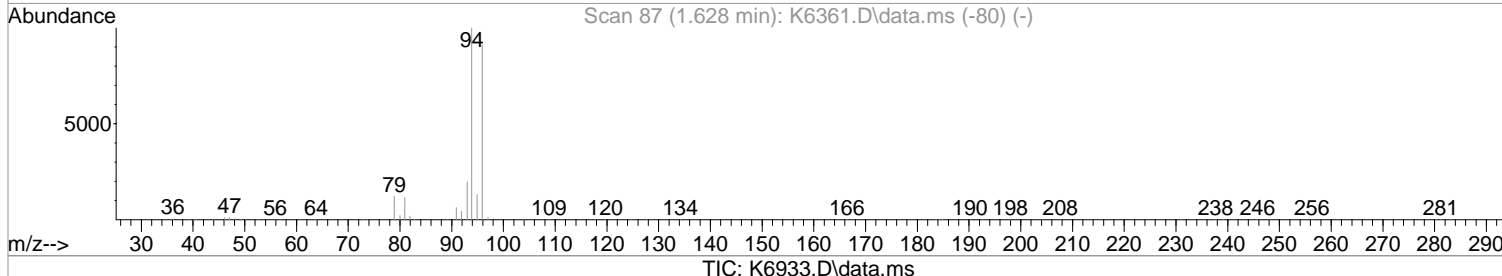
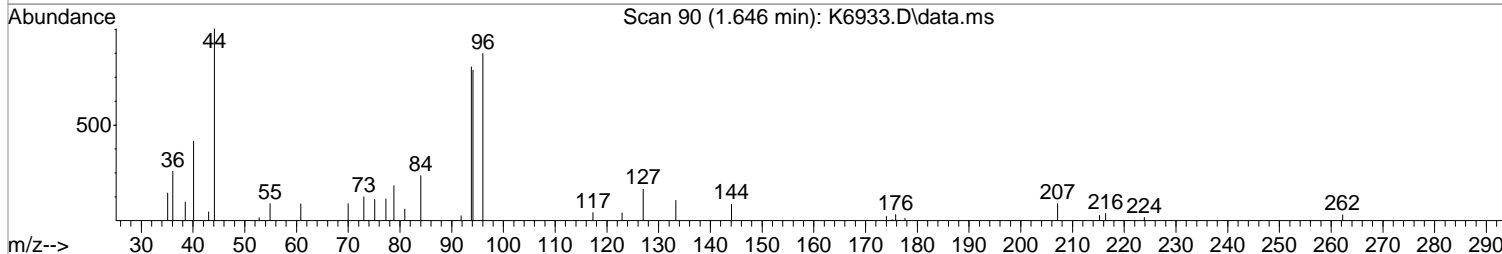
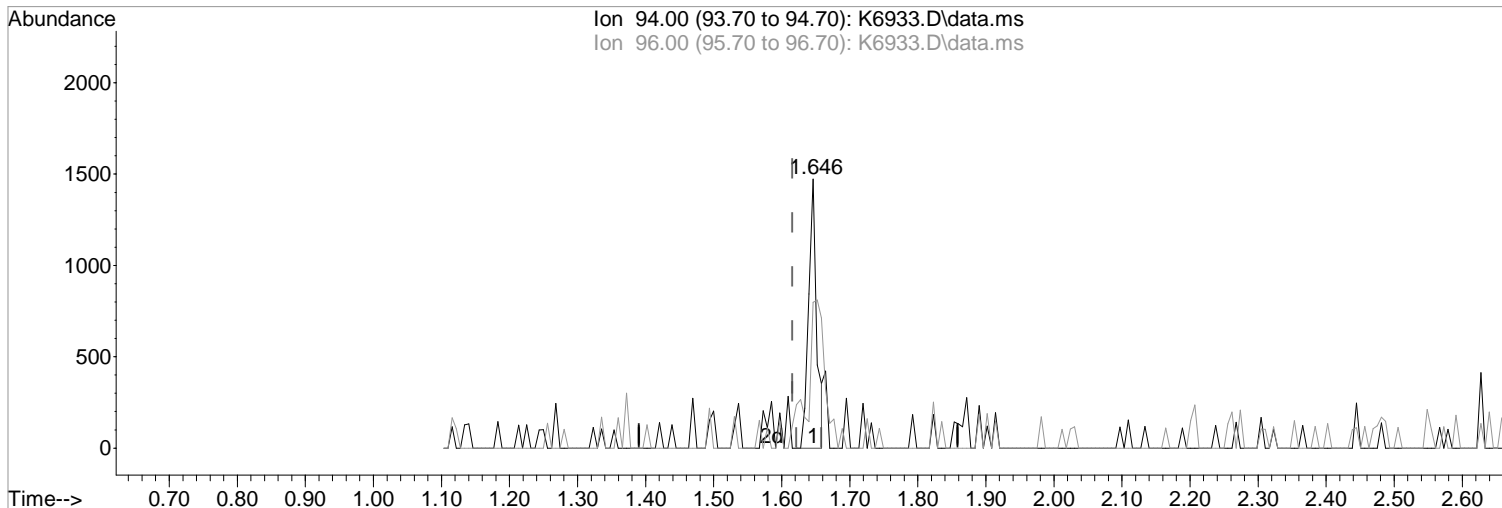
After

Split Peak

09/22/21

Data Path : I:\ACQUDATA\msvoal2\Data\092121\
Data File : K6933.D
Acq On : 21 Sep 2021 6:00 pm
Operator : K.Ruest
Sample : R2109484-006|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 21 18:16:00 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.646min (+0.031) 0.41 ppb
response 1223

Manual Integration:

Before

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	54.24#
0.00	0.00	0.00
0.00	0.00	0.00

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6933.D
 Acq On : 21 Sep 2021 6:00 pm
 Operator : K.Ruest
 Sample : R2109484-006|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 22 15:06:18 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

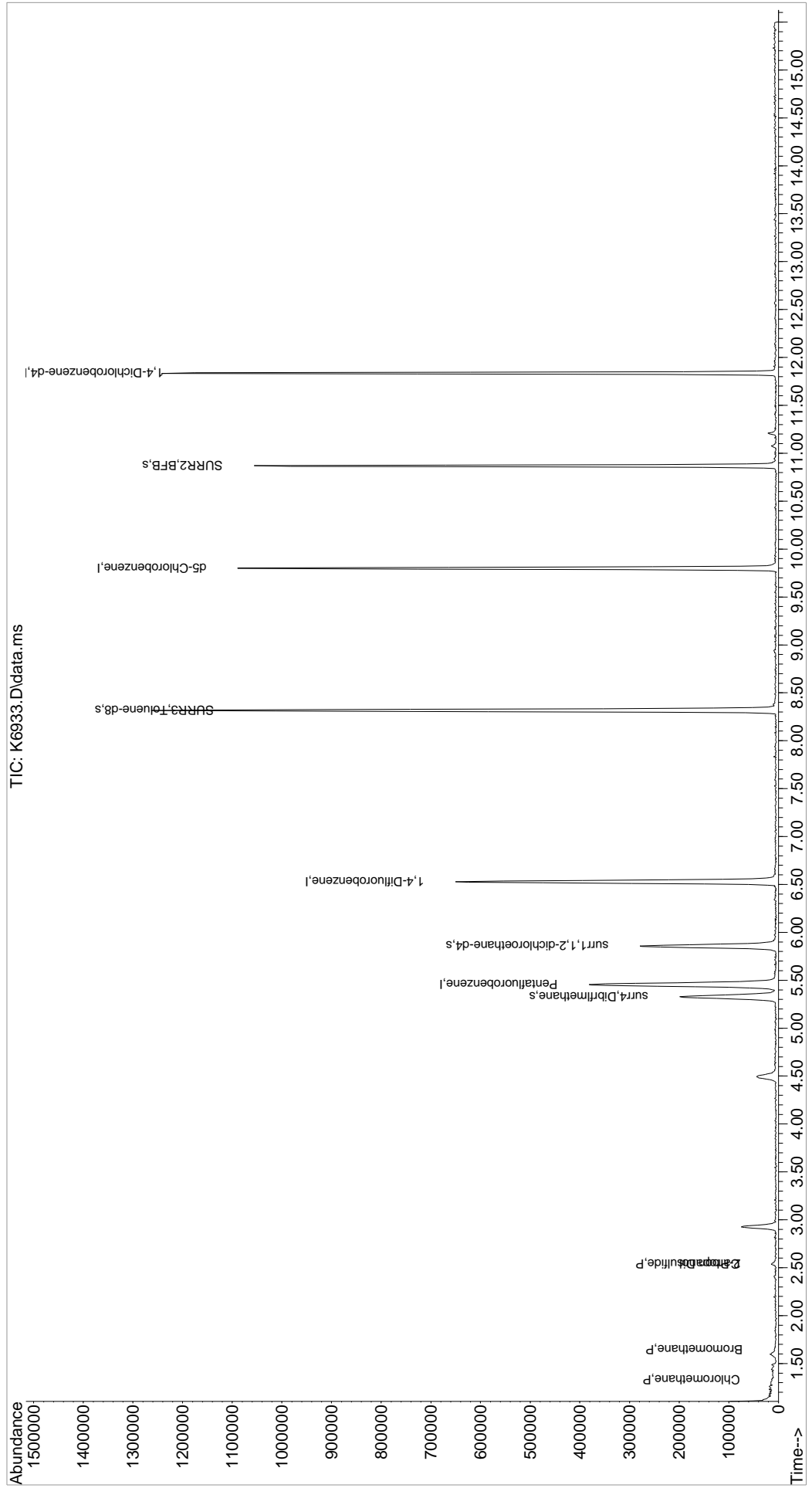
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	334250	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.529	114	555407	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	500564	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	234290	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.328	113	159506	52.75	ppb	0.01
Spiked Amount	50.000	Range 80 - 116	Recovery	=	105.50%	
48) surr1,1,2-dichloroetha...	5.859	65	237352	53.99	ppb	0.01
Spiked Amount	50.000	Range 73 - 125	Recovery	=	107.98%	
65) SURR3,Toluene-d8	8.316	98	785548	55.27	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	110.54%	
70) SURR2,BFB	10.870	95	301512	53.45	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	106.90%	
Target Compounds						
3) Chloromethane	1.335	50	963	0.25	ppb	82
5) Bromomethane	1.646	94	1378m	0.47	ppb	
15) Acetone	2.408	43	3356	Below	Cal	86
16) 2-Propanol	2.542	45	7093	16.35	ppb	83
18) Carbon Disulfide	2.536	76	2476	0.31	ppb	78

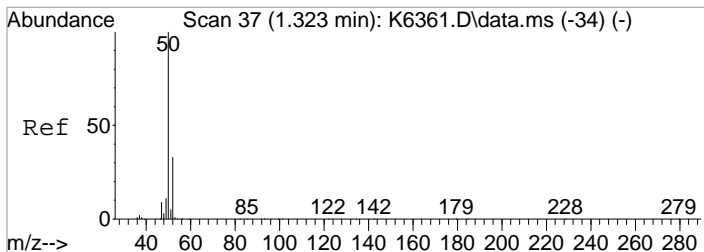
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6933.D
 Acq On : 21 Sep 2021 6:00 pm
 Operator : K.Ruest
 Sample : R2109484-006|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA-12

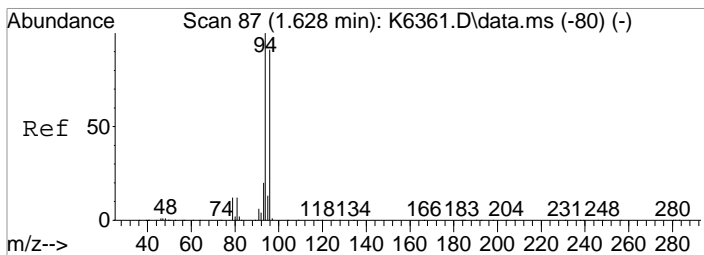
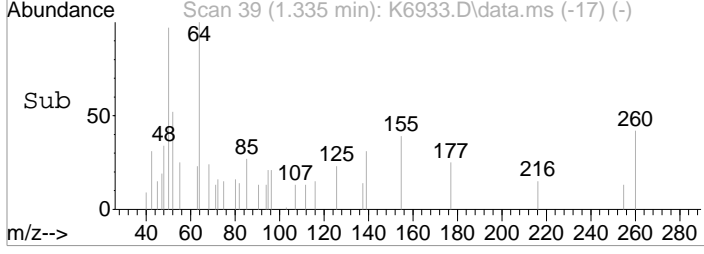
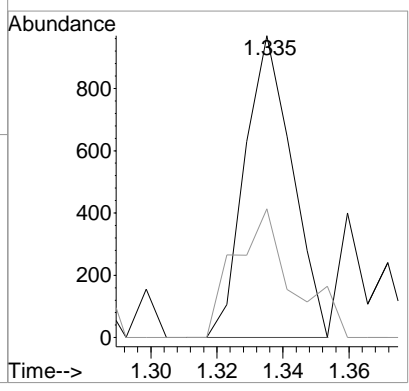
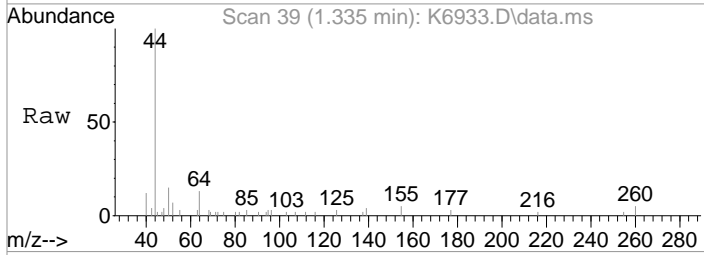
Quant Time: Sep 22 15:06:18 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





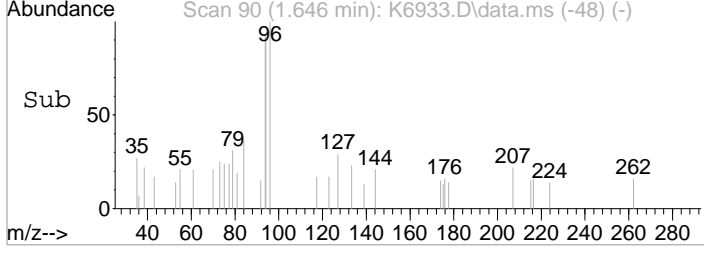
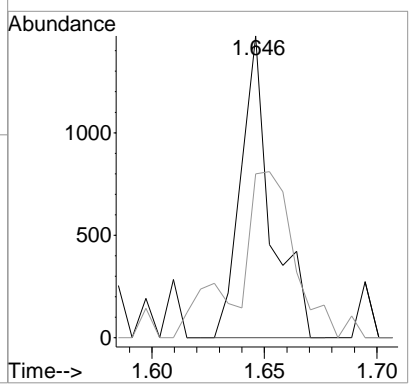
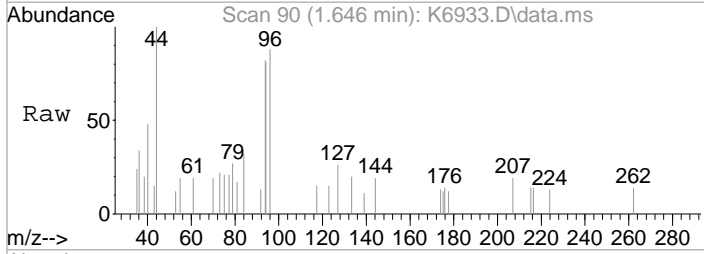
#3
 Chloromethane
 Concen: 0.25 ppb
 RT: 1.335 min Scan# 39
 Delta R.T. 0.018 min
 Lab File: K6933.D
 Acq: 21 Sep 2021 6:00 pm

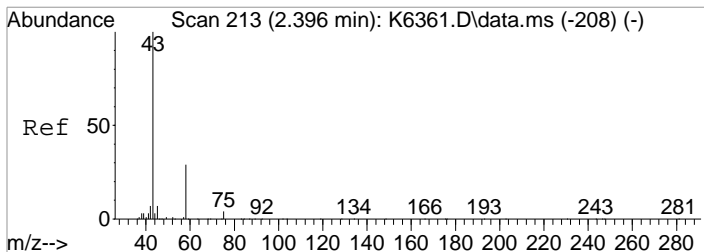
Tgt Ion	Resp	Lower	Upper
50	100		
52	42.6	12.7	52.7



#5
 Bromomethane
 Concen: 0.47 ppb m
 RT: 1.646 min Scan# 90
 Delta R.T. 0.031 min
 Lab File: K6933.D
 Acq: 21 Sep 2021 6:00 pm

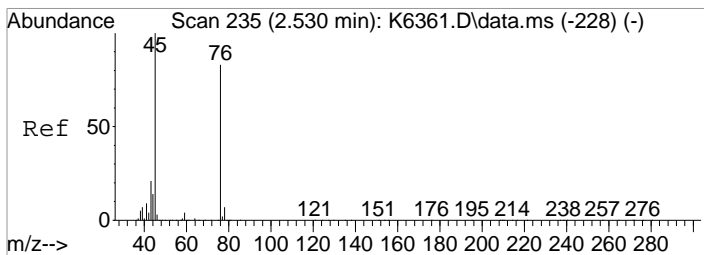
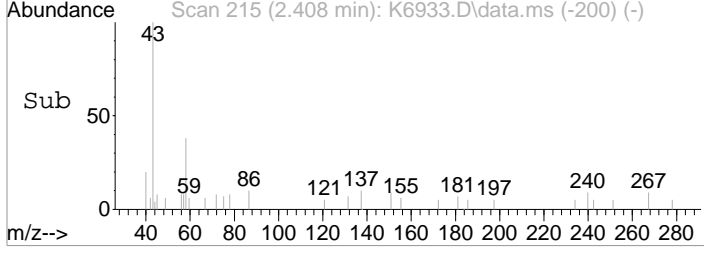
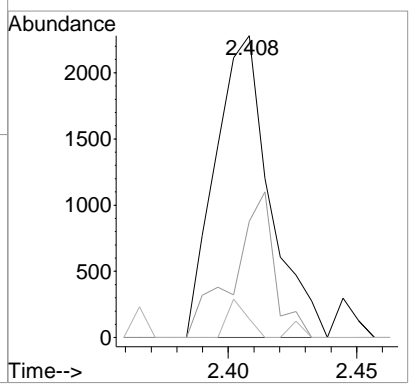
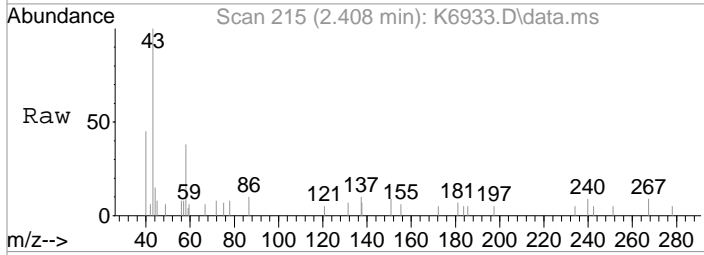
Tgt Ion	Resp	Lower	Upper
94	100		
96	107.5	71.0	111.0





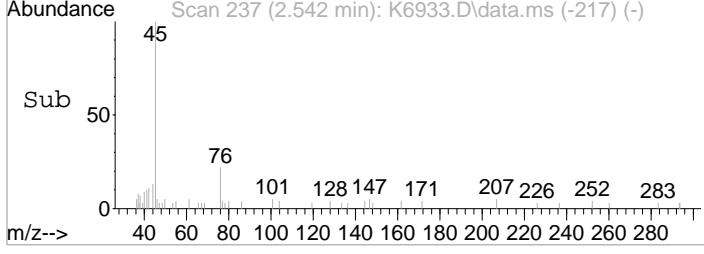
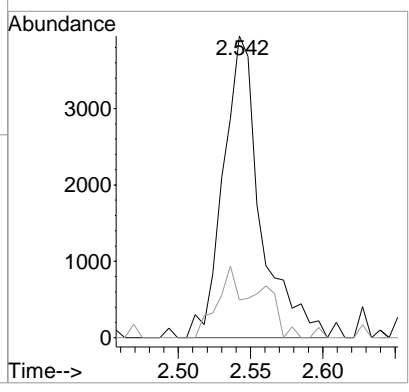
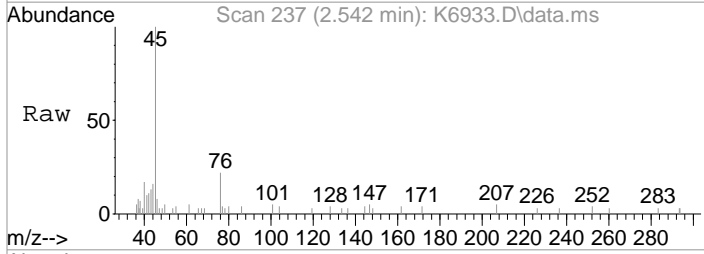
#15
 Acetone
 Concen: Below Cal
 RT: 2.408 min Scan# 215
 Delta R.T. 0.019 min
 Lab File: K6933.D
 Acq: 21 Sep 2021 6:00 pm

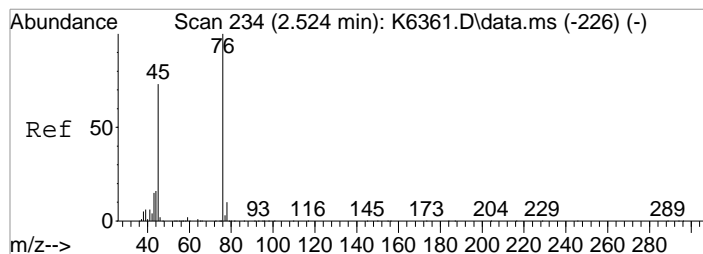
Tgt Ion	Resp	Lower	Upper
43	3356		
58	38.4	9.6	49.6
42	6.2	0.0	27.7



#16
 2-Propanol
 Concen: 16.35 ppb
 RT: 2.542 min Scan# 237
 Delta R.T. 0.012 min
 Lab File: K6933.D
 Acq: 21 Sep 2021 6:00 pm

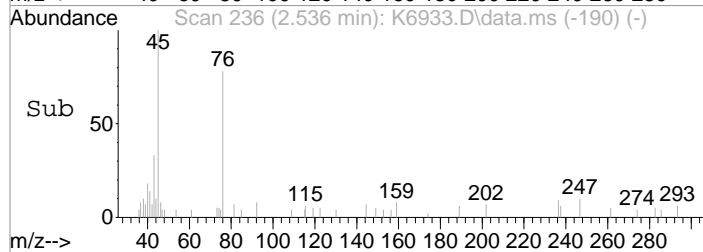
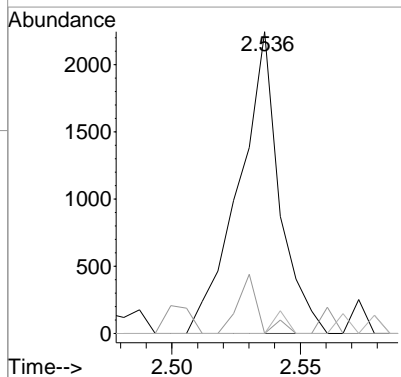
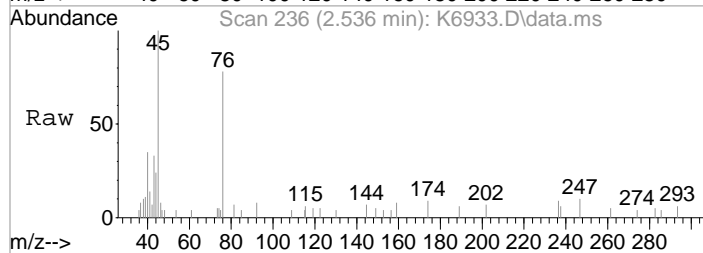
Tgt Ion	Resp	Lower	Upper
45	7093		
43	12.5	0.6	40.6





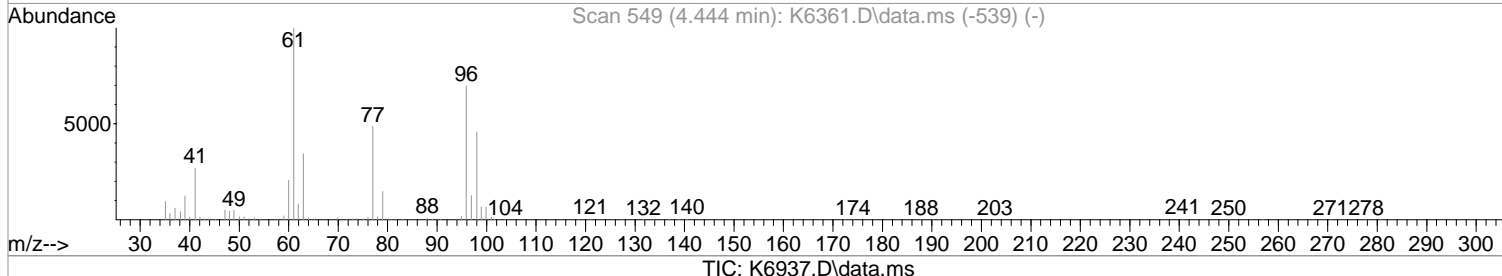
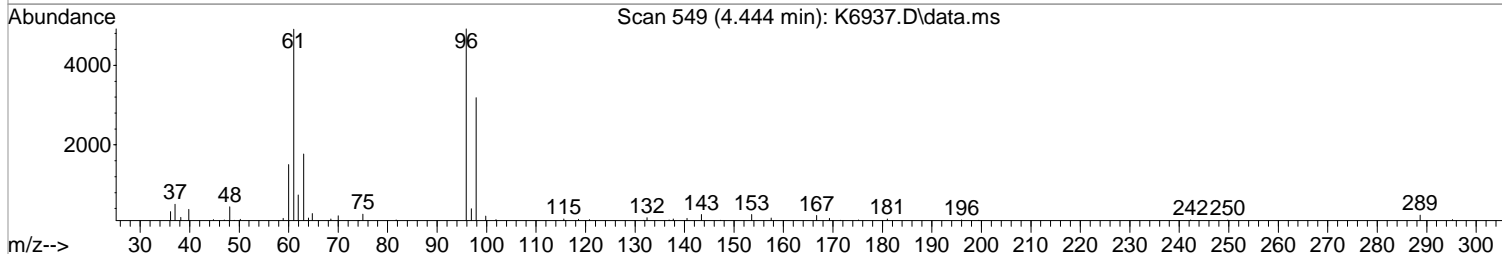
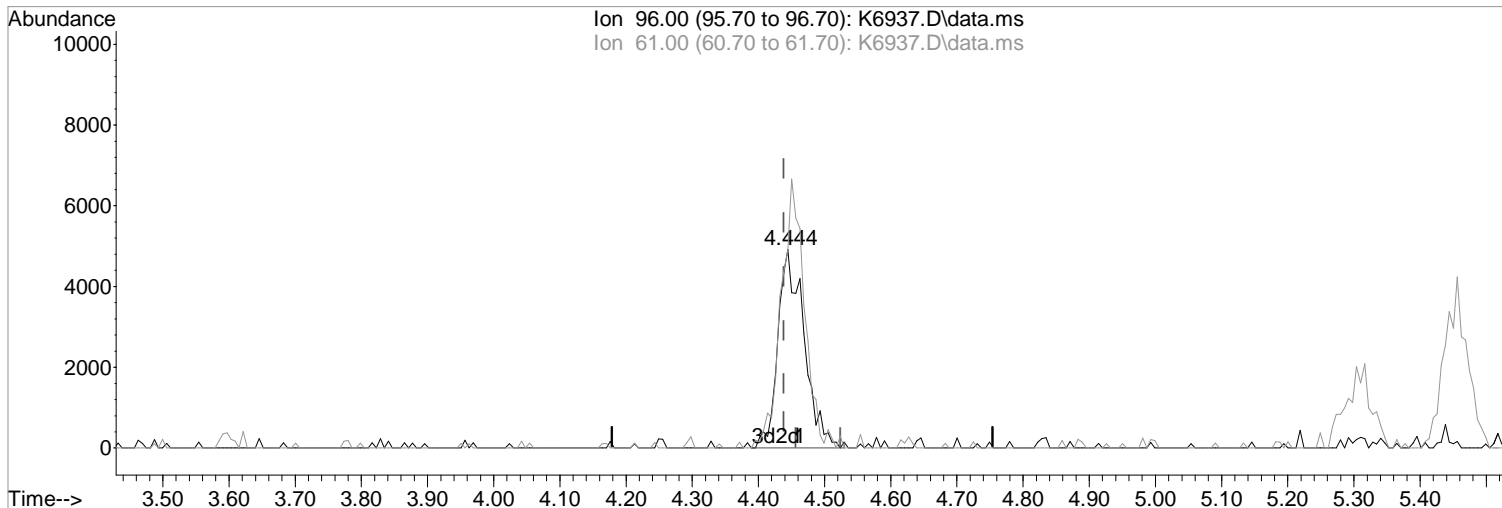
#18
 Carbon Disulfide
 Concen: 0.31 ppb
 RT: 2.536 min Scan# 236
 Delta R.T. 0.024 min
 Lab File: K6933.D
 Acq: 21 Sep 2021 6:00 pm

Tgt Ion	Resp	Lower	Upper
76	100		
78	0.0	0.0	29.7
77	0.0	0.0	22.7



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6937.D
Acq On : 21 Sep 2021 7:28 pm
Operator : K.Ruest
Sample : R2109484-007|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 22 09:28:11 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.444min (+0.006) 3.36 ppb m

response 13584

Ion Exp% Act%

96.00 100 100

61.00 145.20 99.74#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

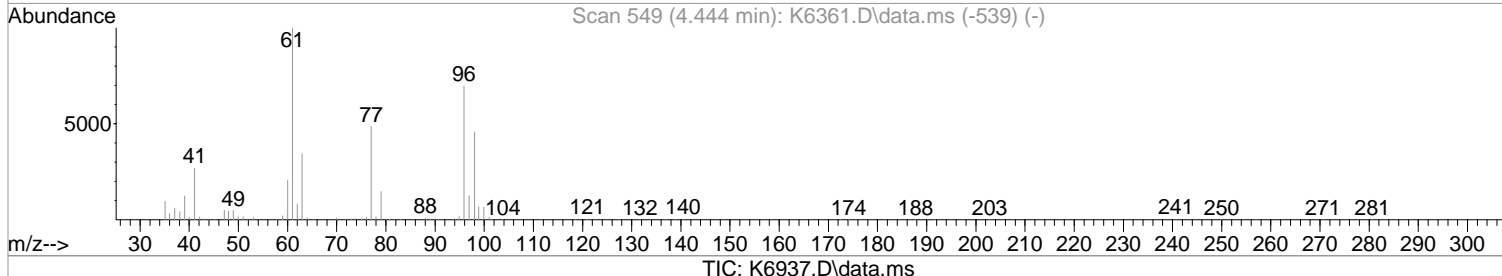
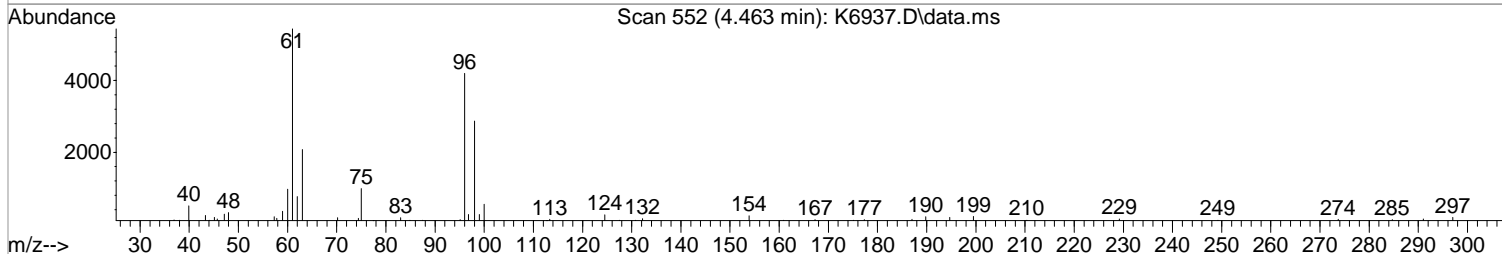
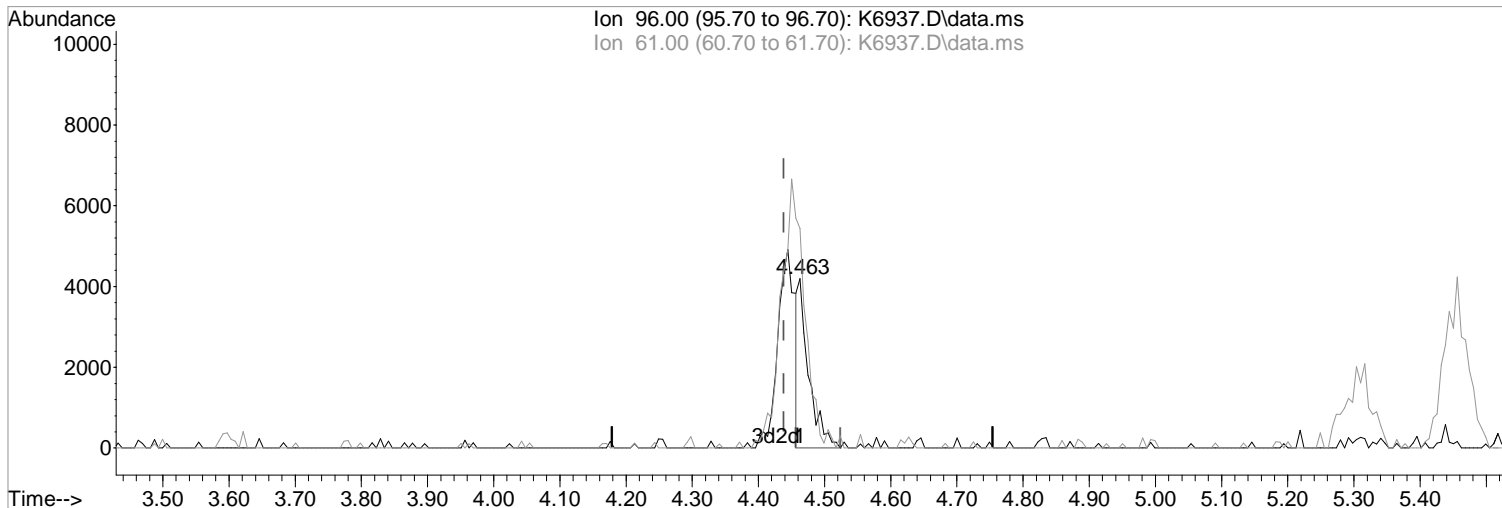
After

Split Peak

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6937.D
Acq On : 21 Sep 2021 7:28 pm
Operator : K.Ruest
Sample : R2109484-007|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 22 09:28:11 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.463min (+0.025) 1.16 ppb

response 4695

Ion	Exp%	Act%
96.00	100	100
61.00	145.20	129.76
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6937.D
 Acq On : 21 Sep 2021 7:28 pm
 Operator : K.Ruest
 Sample : R2109484-007|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 22 15:17:40 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

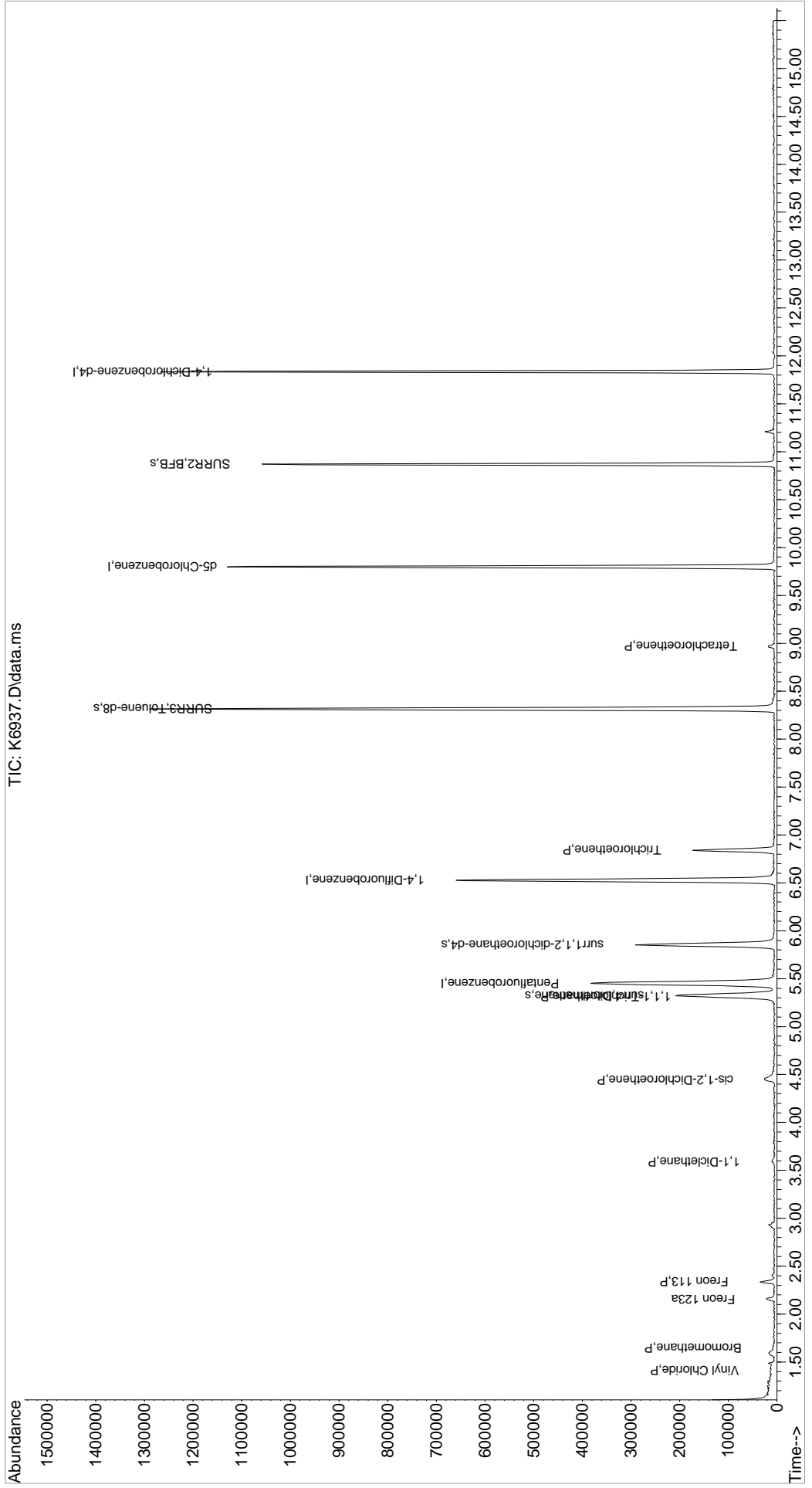
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	329642	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	565612	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	503543	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	239451	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	162641	52.82	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	105.64%	
48) surr1,1,2-dichloroetha...	5.853	65	246862	55.14	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	110.28%	
65) SURR3,Toluene-d8	8.316	98	798368	55.16	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	110.32%	
70) SURR2,BFB	10.870	95	303628	52.85	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	105.70%	
Target Compounds						
4) Vinyl Chloride	1.408	62	1116	0.25	ppb	Qvalue 95
5) Bromomethane	1.646	94	1308	0.45	ppb	# 57
10) Freon 123a	2.152	67	8655	2.05	ppb	81
14) Freon 113	2.335	101	9048	2.89	ppb	82
15) Acetone	2.402	43	3730	Below Cal		87
28) 1,1-Dicethane	3.591	63	4891	0.74	ppb	83
34) cis-1,2-Dichloroethene	4.444	96	13584m	3.36	ppb	
41) 1,1,1-Trichloroethane	5.310	97	9871	1.87	ppb	95
54) Trichloroethene	6.840	130	55745	14.00	ppb	95
72) Tetrachloroethene	8.968	164	2337	0.81	ppb	# 75

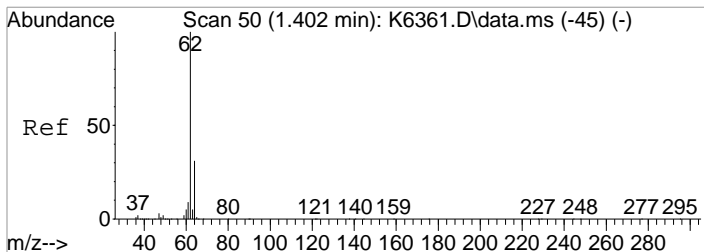
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6937.D
 Acq On : 21 Sep 2021 7:28 pm
 Operator : K.Ruest
 Sample : R2109484-007|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA-12

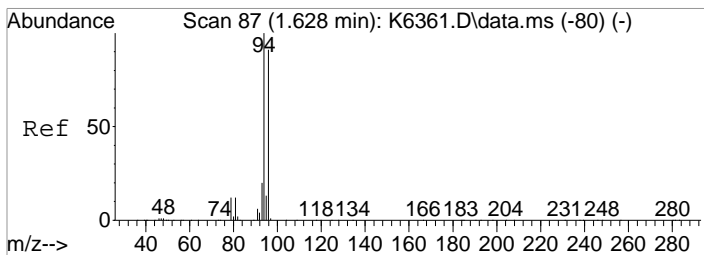
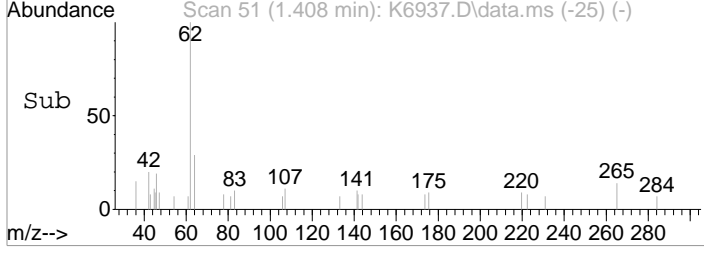
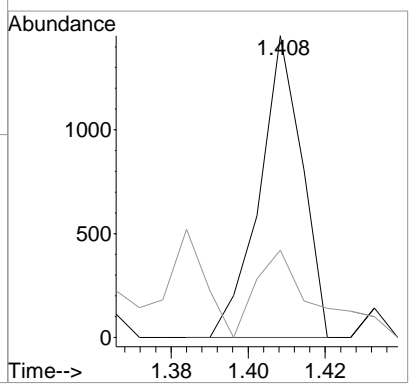
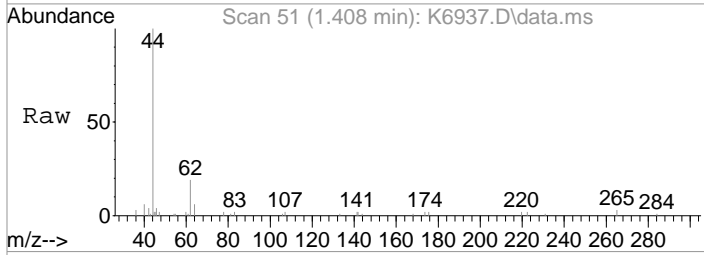
Quant Time: Sep 22 15:17:40 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





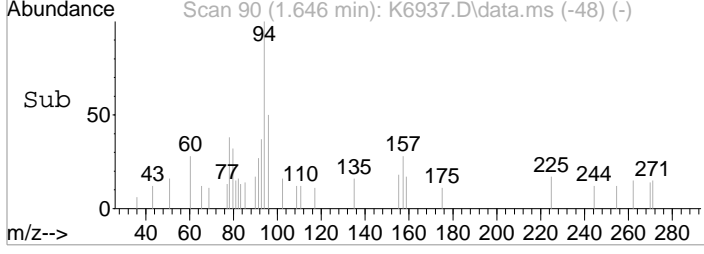
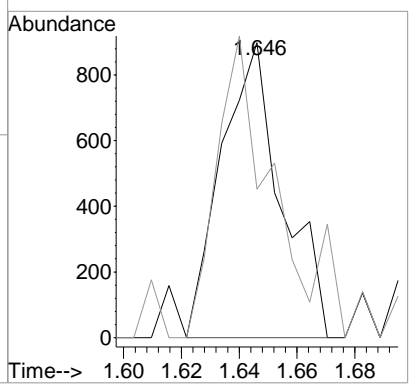
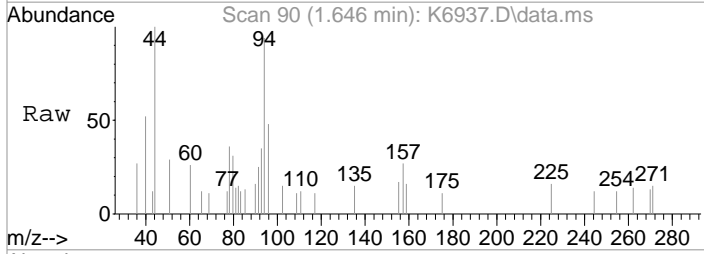
#4
 Vinyl Chloride
 Concen: 0.25 ppb
 RT: 1.408 min Scan# 51
 Delta R.T. 0.012 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

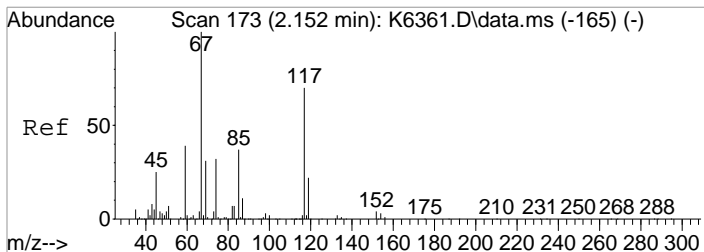
Tgt Ion	Resp	Lower	Upper
62	100		
64	29.0	11.5	51.5



#5
 Bromomethane
 Concen: 0.45 ppb
 RT: 1.646 min Scan# 90
 Delta R.T. 0.031 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

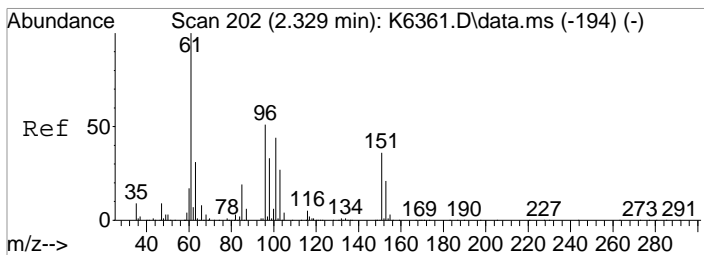
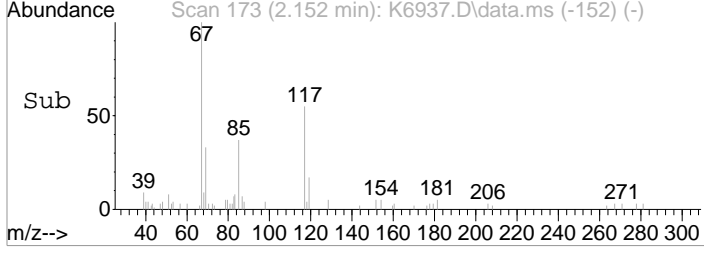
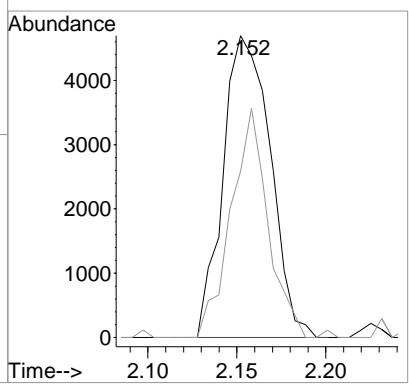
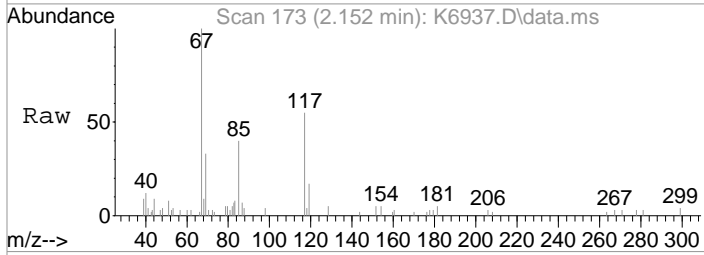
Tgt Ion	Resp	Lower	Upper
94	100		
96	50.3	71.0	111.0#





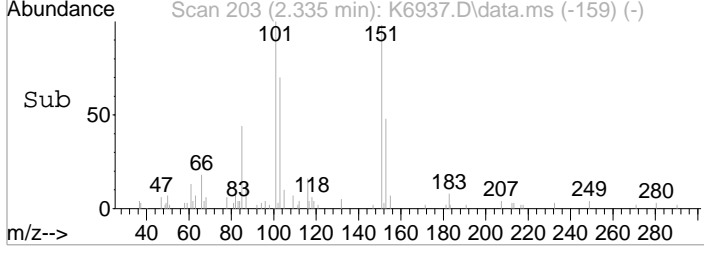
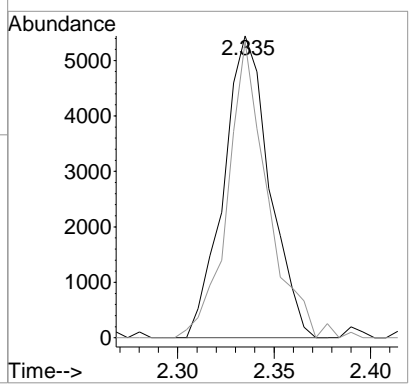
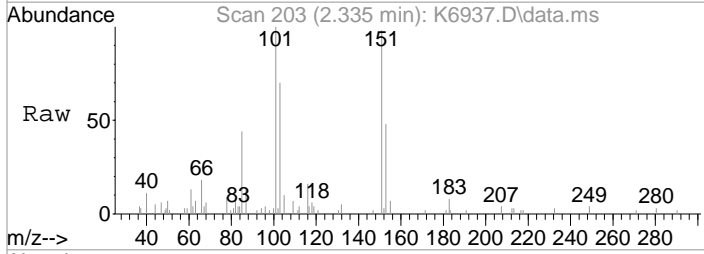
#10
 Freon 123a
 Concen: 2.05 ppb
 RT: 2.152 min Scan# 173
 Delta R.T. 0.012 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

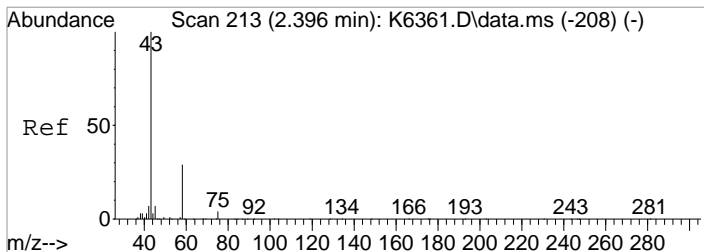
Tgt Ion	Resp	Lower	Upper
67	100		
117	55.1	50.5	90.5



#14
 Freon 113
 Concen: 2.89 ppb
 RT: 2.335 min Scan# 203
 Delta R.T. 0.012 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

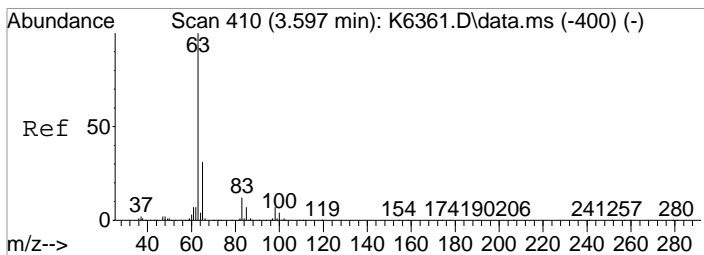
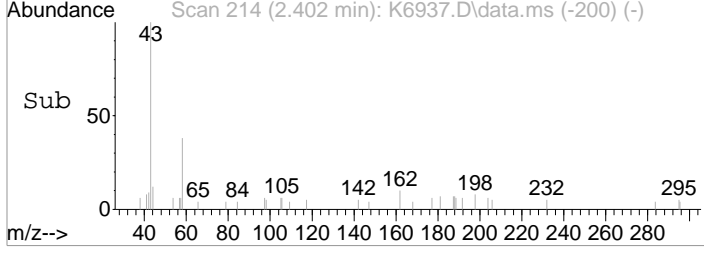
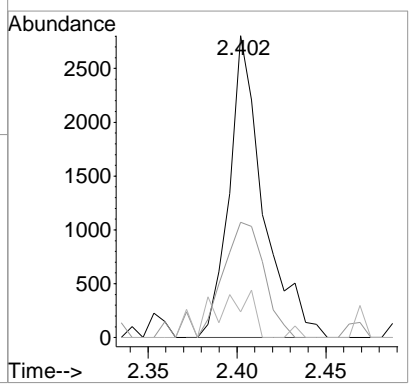
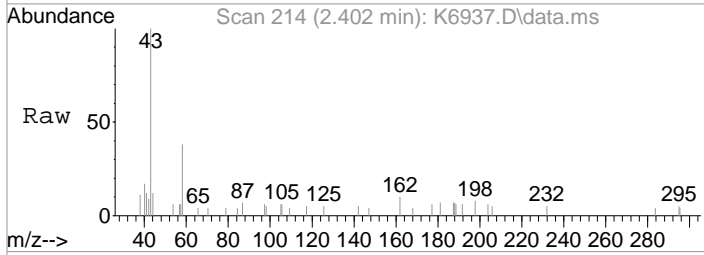
Tgt Ion	Resp	Lower	Upper
101	100		
151	98.2	62.0	102.0





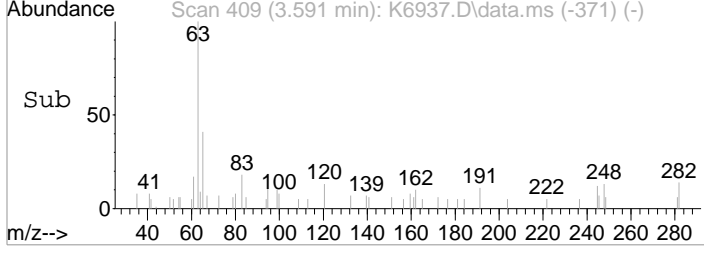
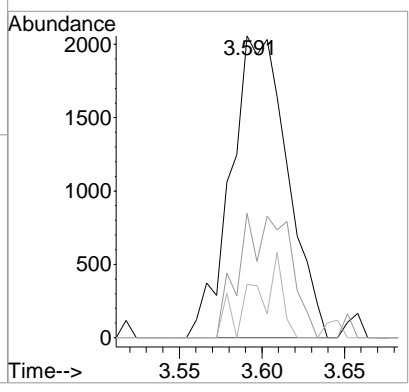
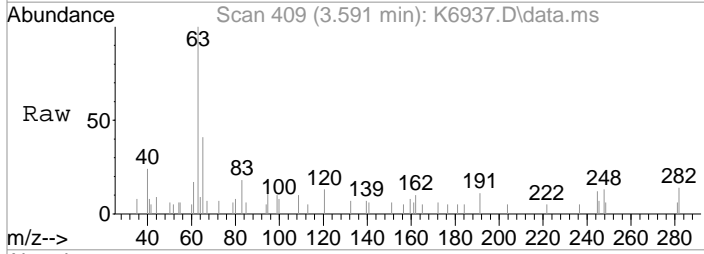
#15
 Acetone
 Concen: Below Cal
 RT: 2.402 min Scan# 214
 Delta R.T. 0.013 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

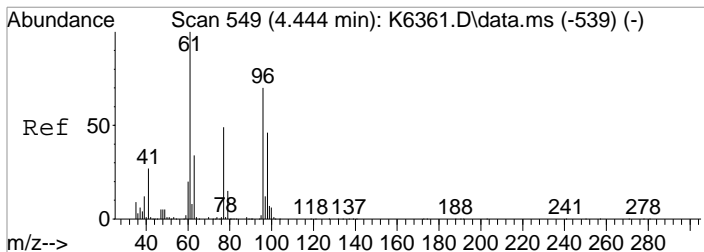
Tgt Ion	Resp	Lower	Upper
43	3730		
58	38.1	9.6	49.6
42	8.5	0.0	27.7



#28
 1,1-Diclcethane
 Concen: 0.74 ppb
 RT: 3.591 min Scan# 409
 Delta R.T. 0.006 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

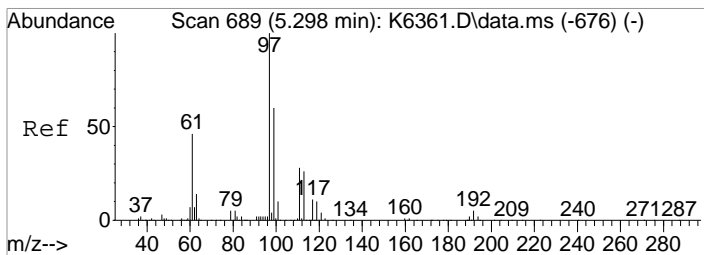
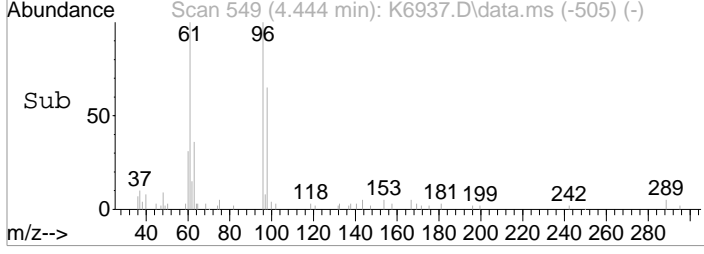
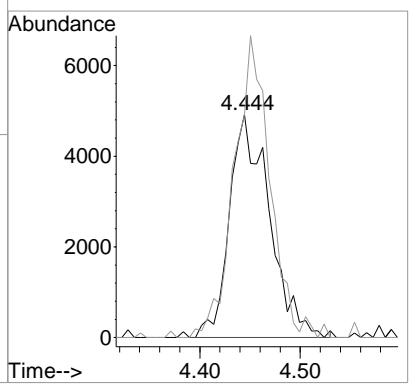
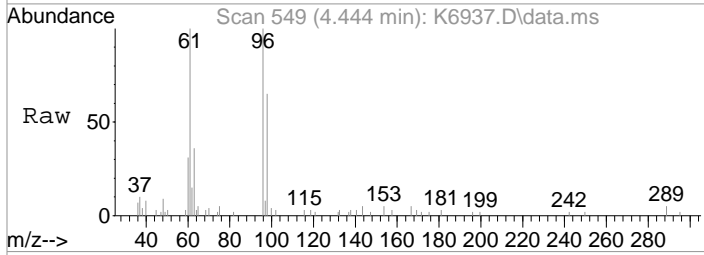
Tgt Ion	Resp	Lower	Upper
63	4891		
65	41.2	10.8	50.8
83	17.6	0.0	32.3





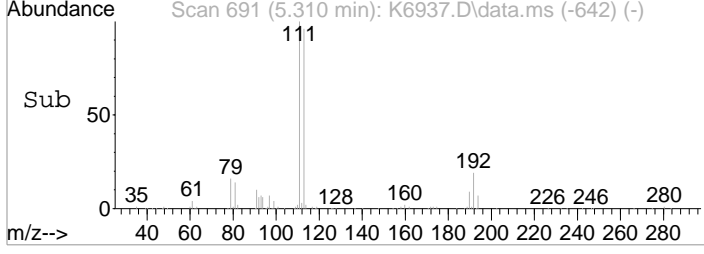
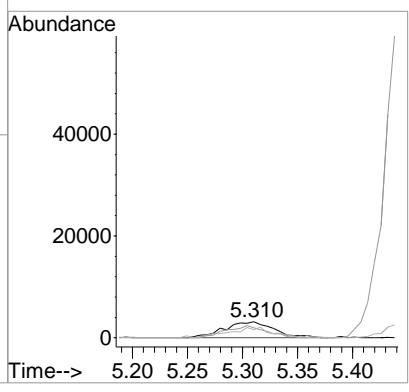
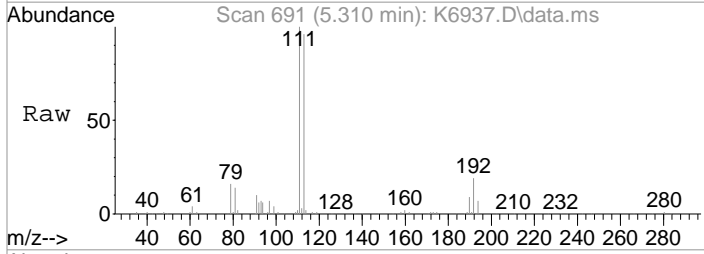
#34
 cis-1,2-Dichloroethene
 Concen: 3.36 ppb m
 RT: 4.444 min Scan# 549
 Delta R.T. 0.006 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

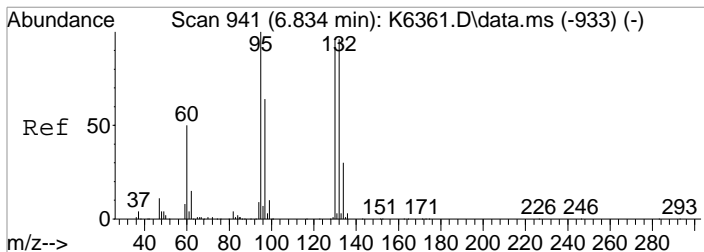
Tgt Ion	Resp	Lower	Upper
96	13584		
96	100		
61	99.7	125.2	165.2#



#41
 1,1,1-Trichloroethane
 Concen: 1.87 ppb
 RT: 5.310 min Scan# 691
 Delta R.T. 0.018 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

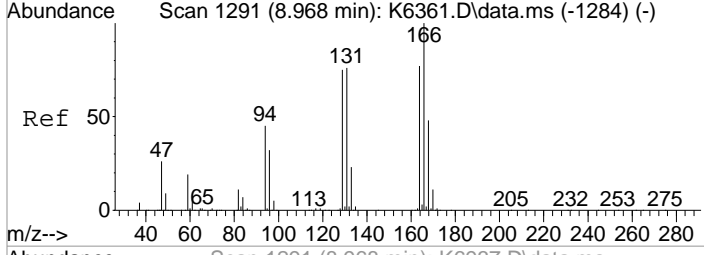
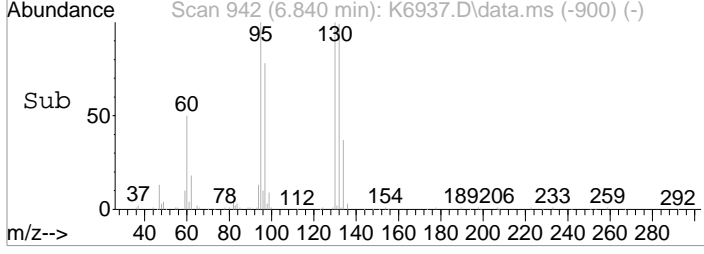
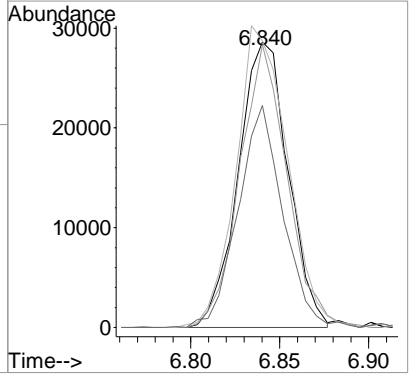
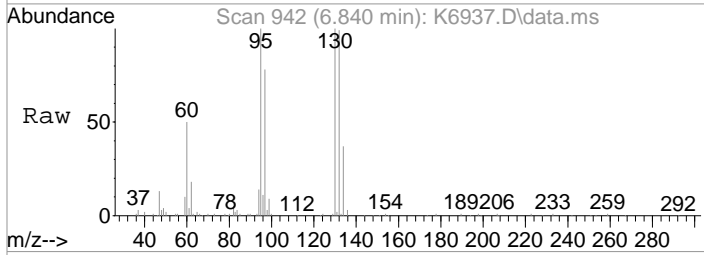
Tgt Ion	Resp	Lower	Upper
97	9871		
97	100		
99	63.2	40.3	80.3
61	51.3	26.2	66.2





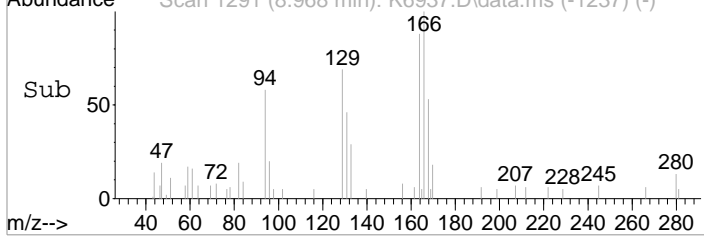
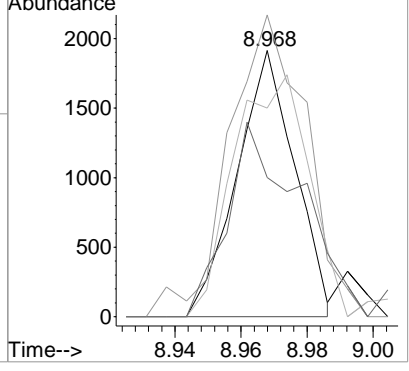
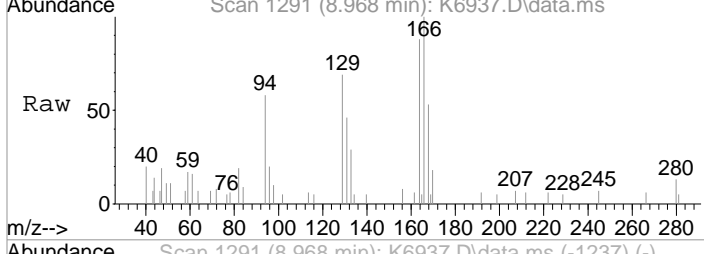
#54
 Trichloroethene
 Concen: 14.00 ppb
 RT: 6.840 min Scan# 942
 Delta R.T. 0.006 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

Tgt Ion	Resp	Lower	Upper
130	55745		
130	100		
132	99.1	79.7	119.7
95	100.4	83.8	123.8
97	77.8	46.5	86.5



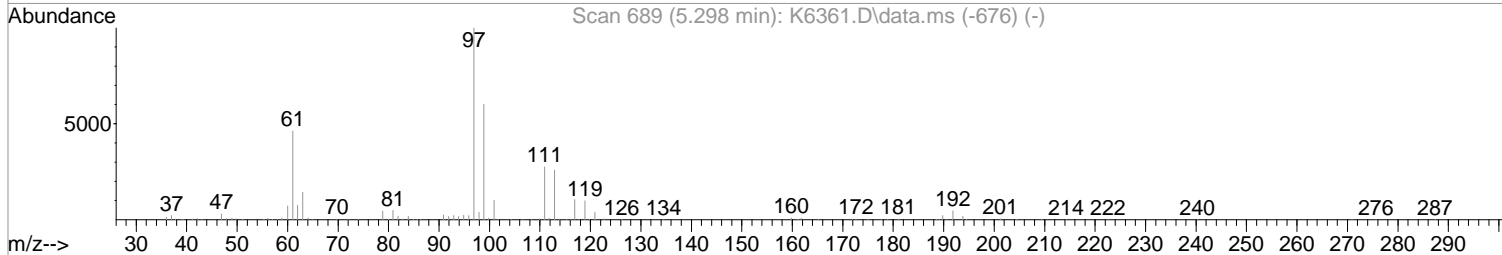
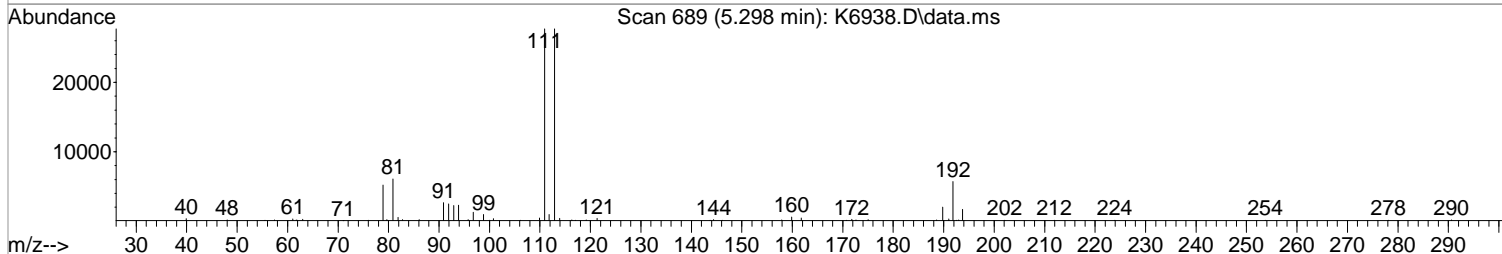
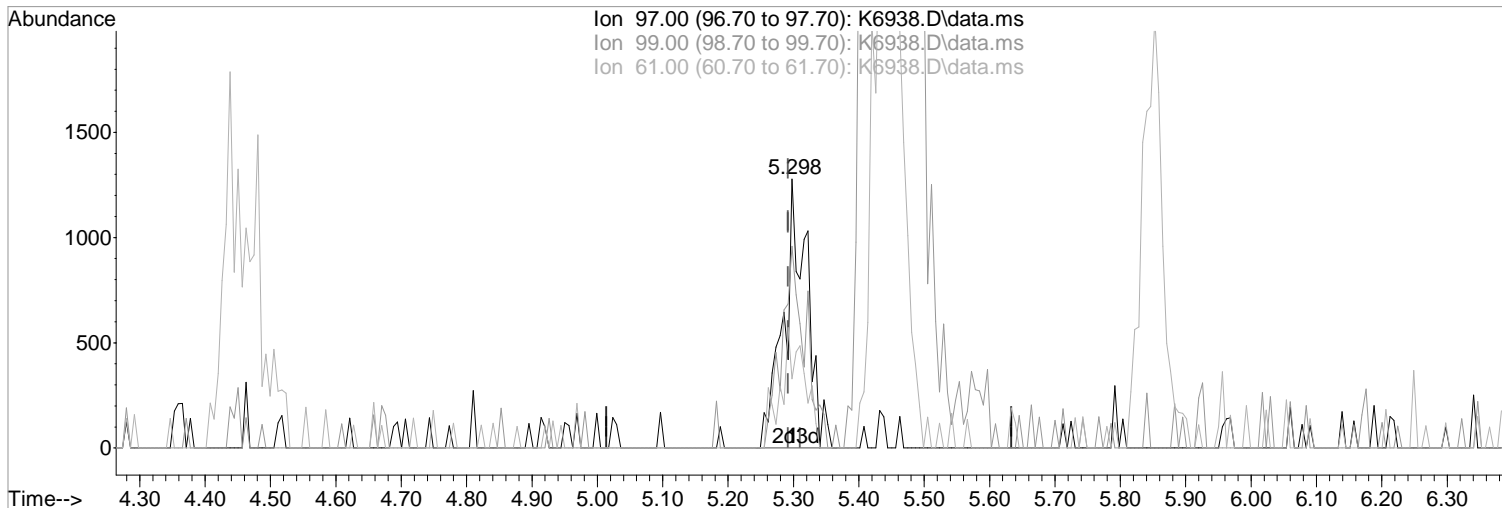
#72
 Tetrachloroethene
 Concen: 0.81 ppb
 RT: 8.968 min Scan# 1291
 Delta R.T. 0.000 min
 Lab File: K6937.D
 Acq: 21 Sep 2021 7:28 pm

Tgt Ion	Resp	Lower	Upper
164	2337		
164	100		
166	113.4	109.5	149.5
129	78.4	77.6	117.6
131	52.4	77.9	117.9#



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6938.D
Acq On : 21 Sep 2021 7:49 pm
Operator : K.Ruest
Sample : R2109484-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 22 09:28:28 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.298min (+0.006) 0.60 ppb m

response 3207

Ion	Exp%	Act%
97.00	100	100
99.00	60.30	74.96
61.00	46.20	25.74#
0.00	0.00	0.00

Manual Integration:

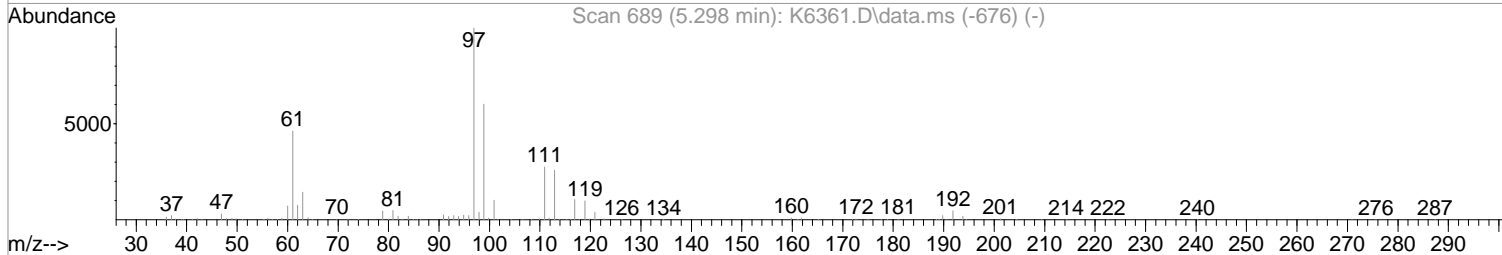
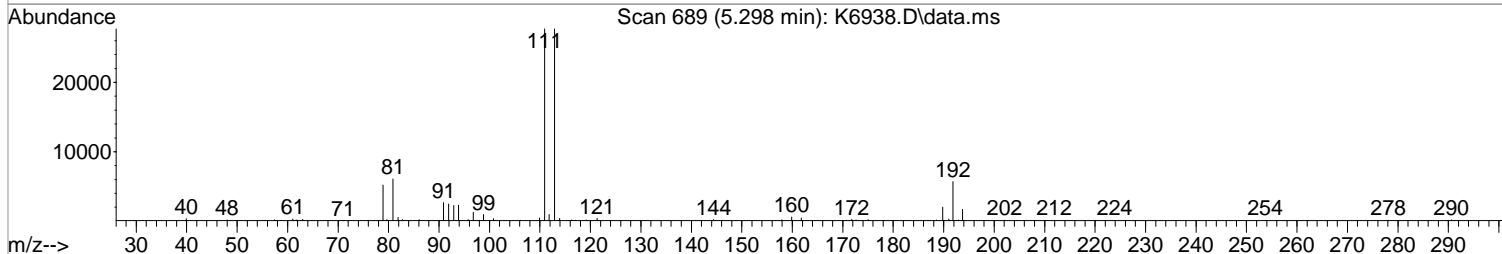
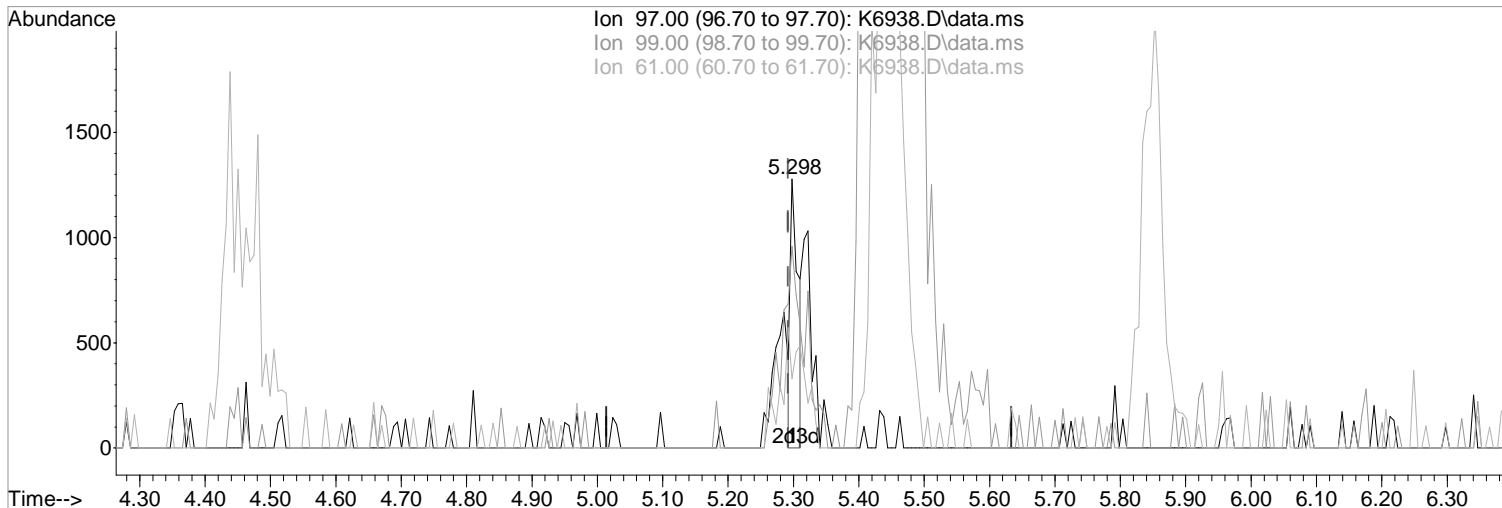
After

Split Peak

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6938.D
Acq On : 21 Sep 2021 7:49 pm
Operator : K.Ruest
Sample : R2109484-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 22 09:28:28 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.298min (+0.006) 0.20 ppb

response 1068

Ion	Exp%	Act%
97.00	100	100
99.00	60.30	74.96
61.00	46.20	37.48
0.00	0.00	0.00

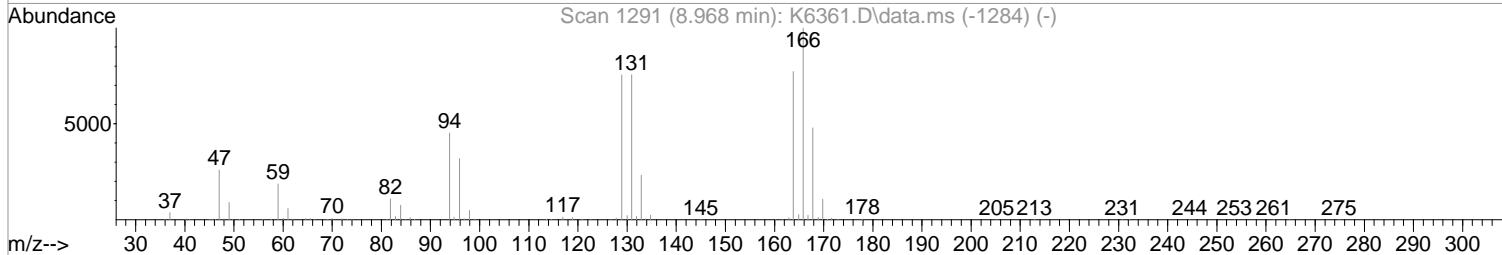
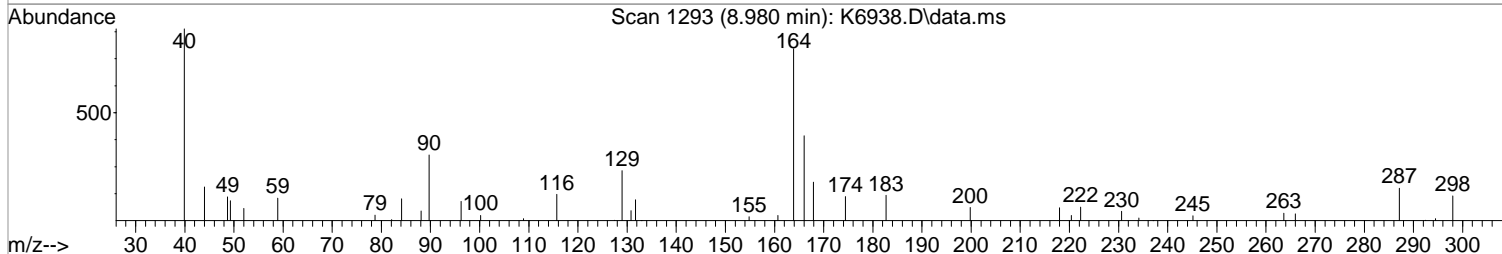
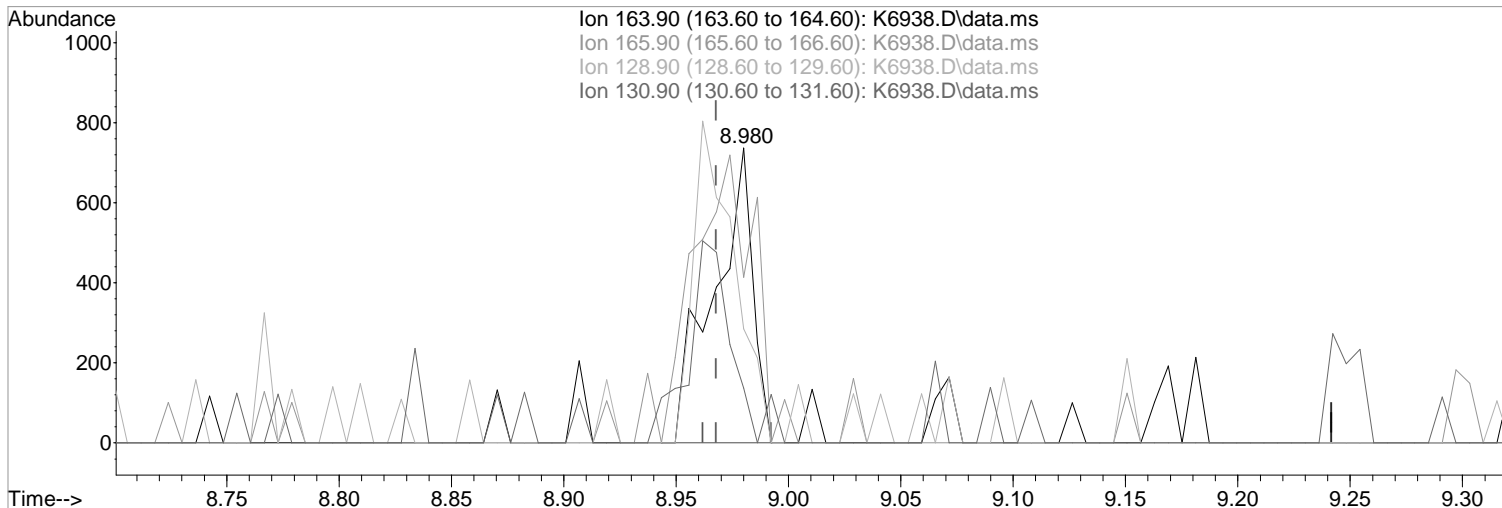
Manual Integration:

Before

09/22/21

Data Path : I:\ACQUDATA\msvoal2\Data\092121\
Data File : K6938.D
Acq On : 21 Sep 2021 7:49 pm
Operator : K.Ruest
Sample : R2109484-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 22 09:28:28 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(72) Tetrachloroethene (P)

8.980min (+0.012) 0.31 ppb m

response 887

Ion Exp% Act%

163.90 100 100

165.90 129.50 56.17#

128.90 97.60 38.67#

130.90 97.90 18.59#

Manual Integration:

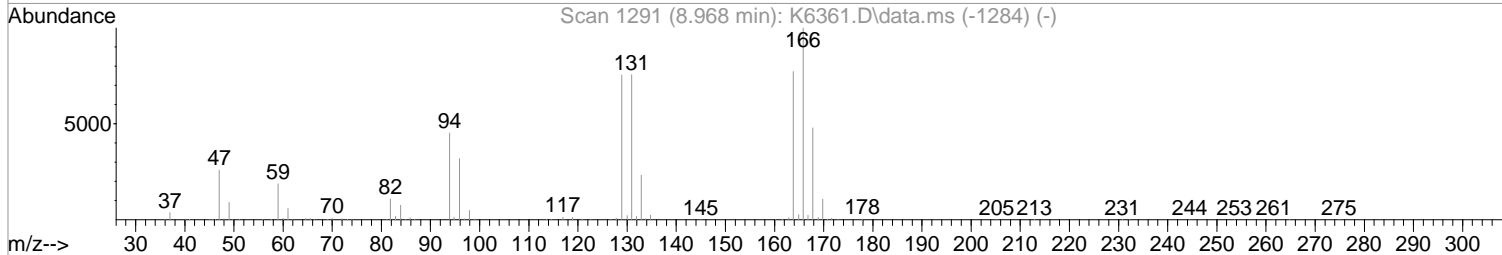
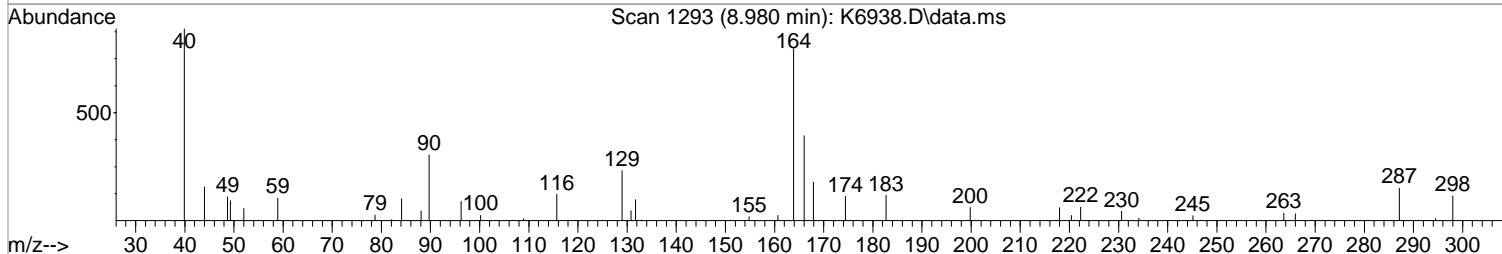
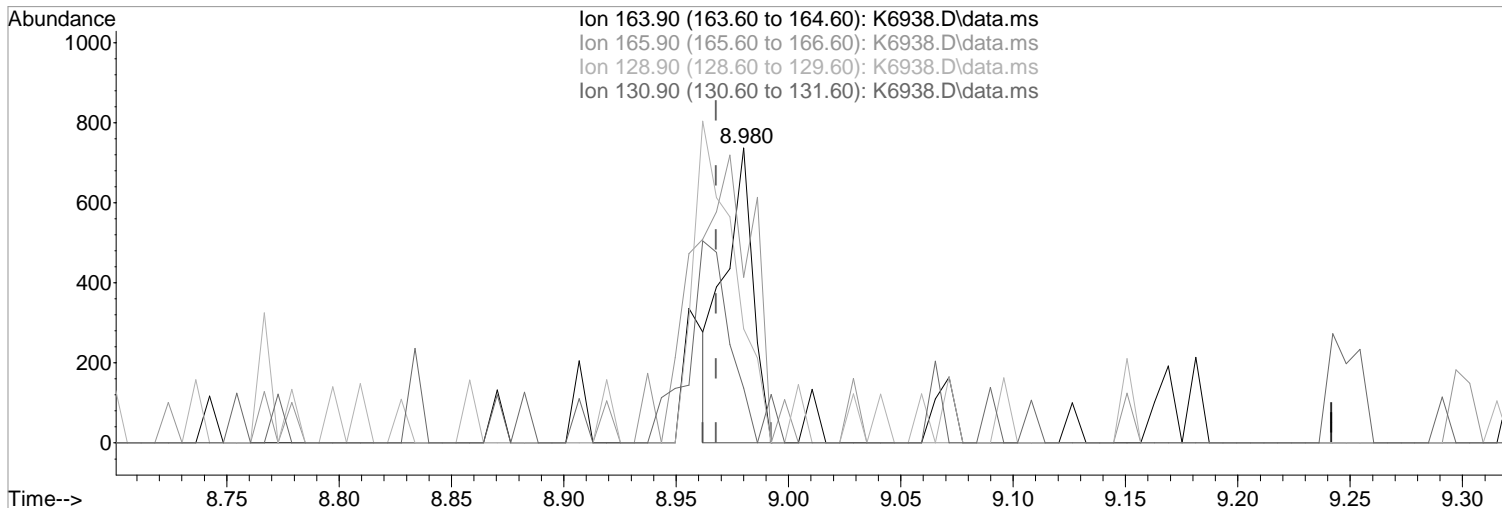
After

Split Peak

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6938.D
Acq On : 21 Sep 2021 7:49 pm
Operator : K.Ruest
Sample : R2109484-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 22 09:28:28 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(72) Tetrachloroethene (P)

8.980min (+0.012) 0.23 ppb

response 663

Ion Exp% Act%

163.90	100	100
165.90	129.50	56.17#
128.90	97.60	38.67#
130.90	97.90	18.59#

Manual Integration:

Before

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6938.D
 Acq On : 21 Sep 2021 7:49 pm
 Operator : K.Ruest
 Sample : R2109484-008|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 22 15:22:04 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	331577	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	577348	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	503395	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	237617	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	166298	52.91	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	105.82%	
48) surr1,1,2-dichloroetha...	5.846	65	247004	54.05	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.10%	
65) SURR3,Toluene-d8	8.316	98	801077	54.22	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	108.44%	
70) SURR2,BFB	10.870	95	308136	52.54	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	105.08%	
Target Compounds						
3) Chloromethane	1.329	50	1010	0.26	ppb	Qvalue 94
5) Bromomethane	1.628	94	1170	0.40	ppb	# 76
10) Freon 123a	2.152	67	2126	0.50	ppb	89
14) Freon 113	2.335	101	13091	4.16	ppb	97
15) Acetone	2.396	43	3211	Below Cal		91
16) 2-Propanol	2.542	45	11233	26.10	ppb	76
17) Iodomethane	2.469	142	707	1.55	ppb	95
41) 1,1,1-Trichloroethane	5.298	97	3207m	0.60	ppb	
54) Trichloroethene	6.834	130	83064	20.44	ppb	95
72) Tetrachloroethene	8.980	164	887m	0.31	ppb	

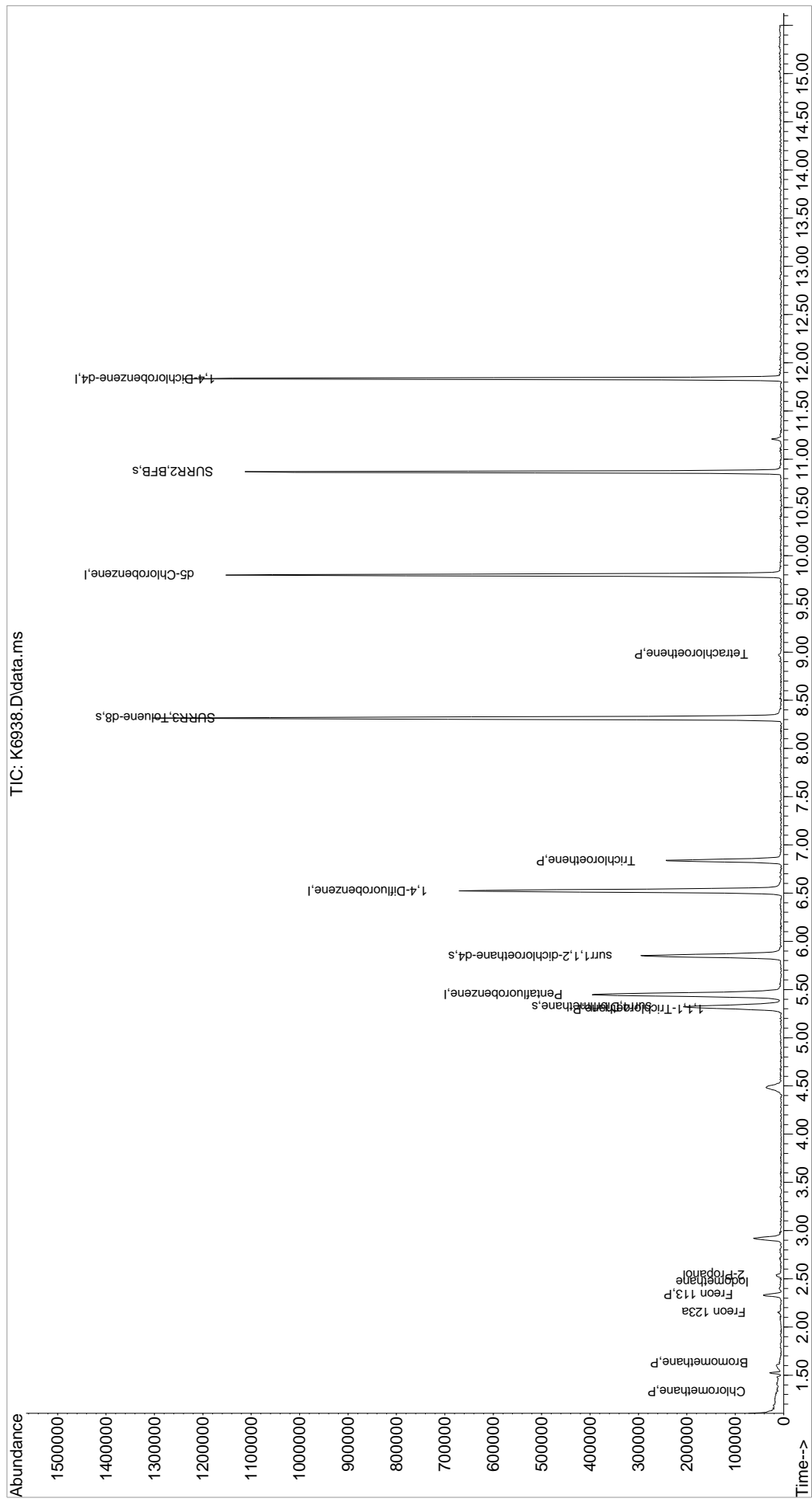
(#) = qualifier out of range (m) = manual integration (+) = signals summed

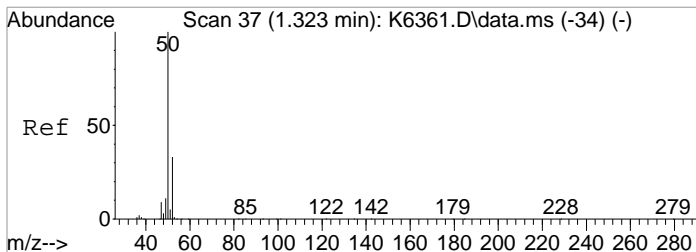
Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa12\Data\092121\
Data File : K6938.D
Acq On : 21 Sep 2021 7:49 pm
Operator : K.Ruest
Sample : R2109484-008|1.0
Misc : VERINA 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Inst : MSVOA-12

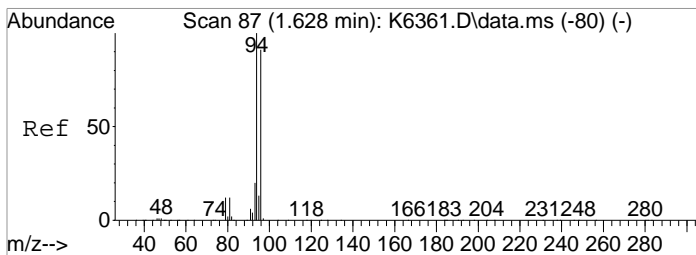
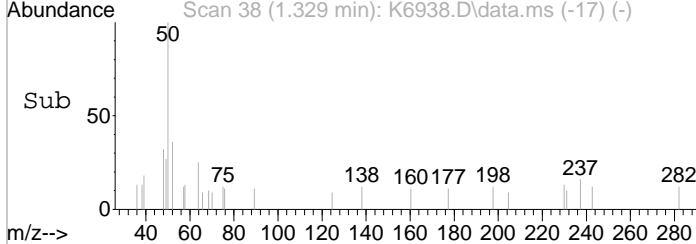
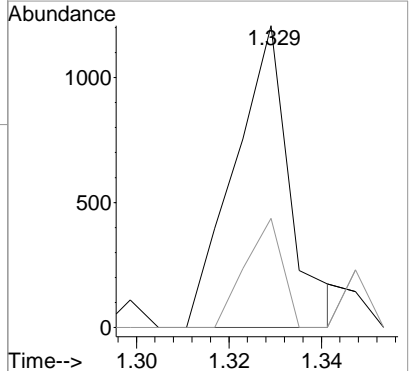
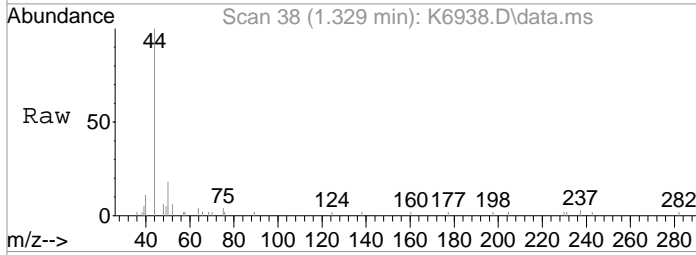
Quant Time: Sep 22 15:22:04 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration





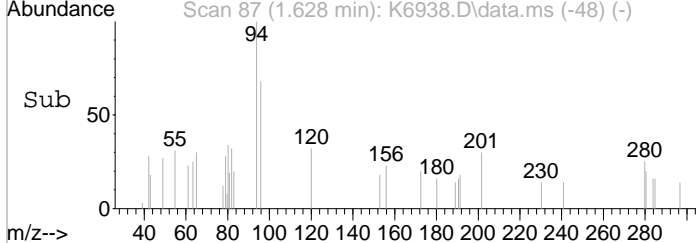
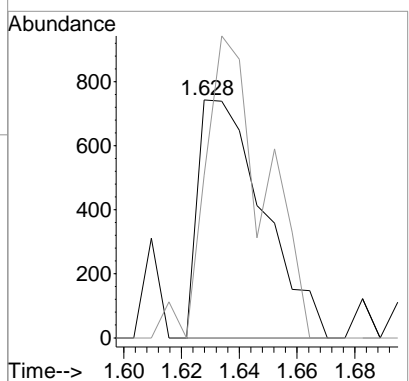
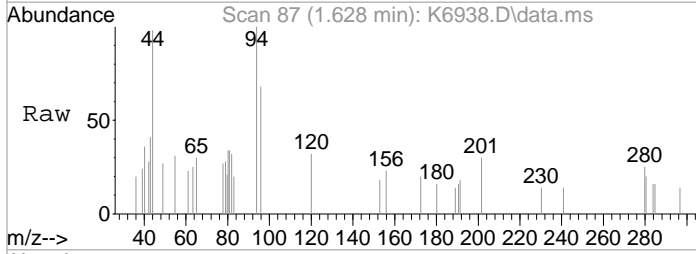
#3
 Chloromethane
 Concen: 0.26 ppb
 RT: 1.329 min Scan# 38
 Delta R.T. 0.012 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

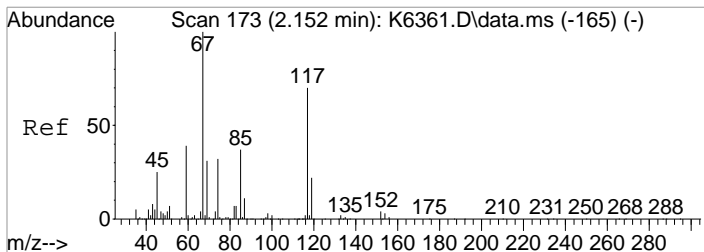
Tgt Ion	Resp	Lower	Upper
50	1010		
52	36.2	12.7	52.7



#5
 Bromomethane
 Concen: 0.40 ppb
 RT: 1.628 min Scan# 87
 Delta R.T. 0.012 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

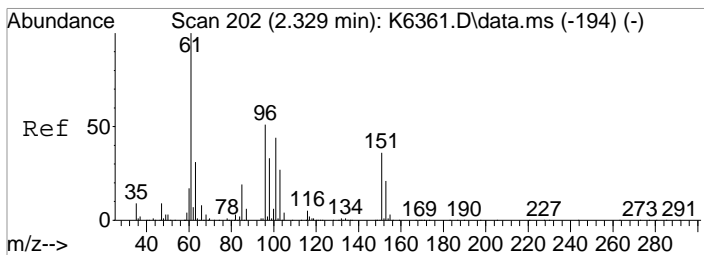
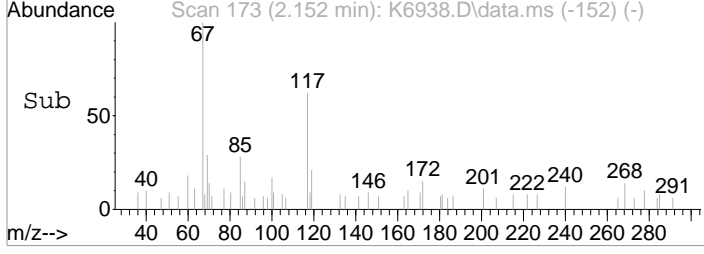
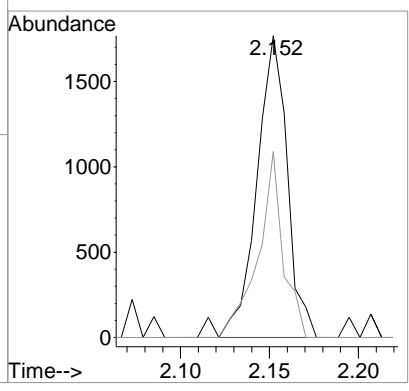
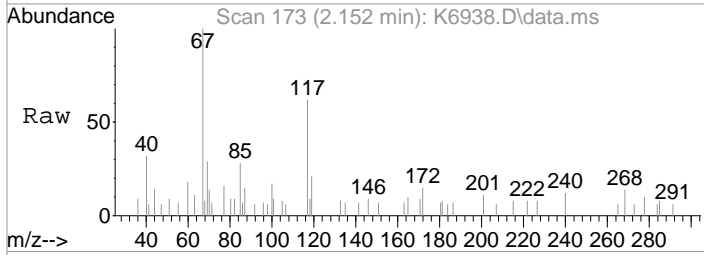
Tgt Ion	Resp	Lower	Upper
94	1170		
96	68.4	71.0	111.0#





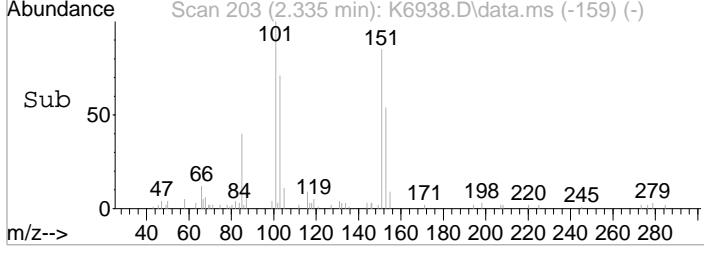
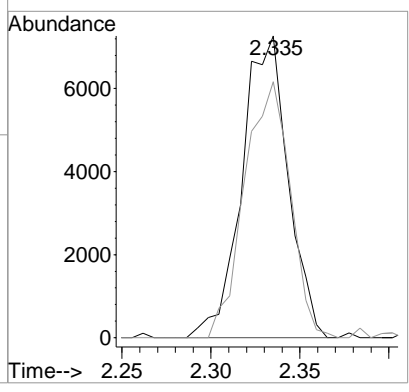
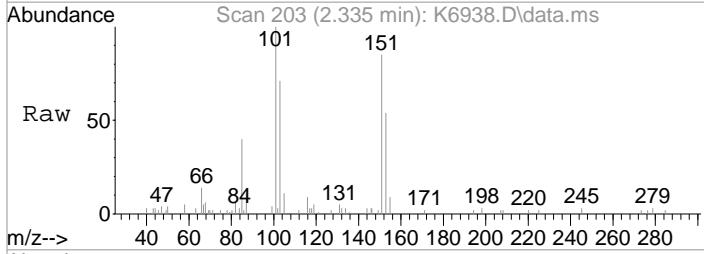
#10
 Freon 123a
 Concen: 0.50 ppb
 RT: 2.152 min Scan# 173
 Delta R.T. 0.012 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

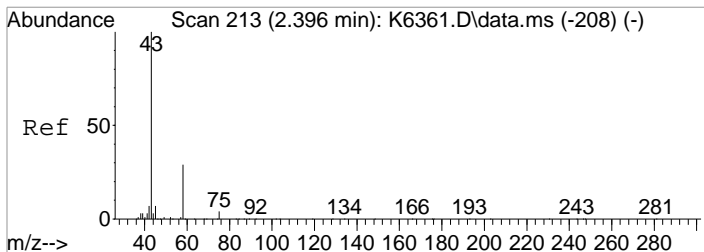
Tgt Ion	Resp	Lower	Upper
67	2126		
117	61.6	50.5	90.5



#14
 Freon 113
 Concen: 4.16 ppb
 RT: 2.335 min Scan# 203
 Delta R.T. 0.012 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

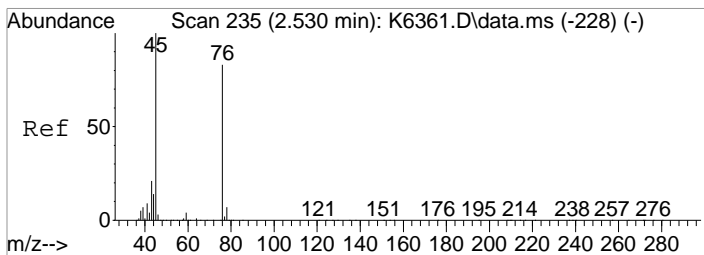
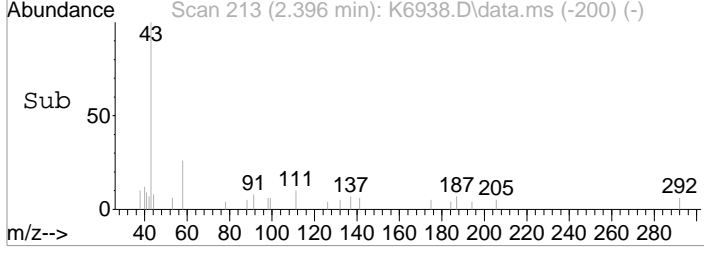
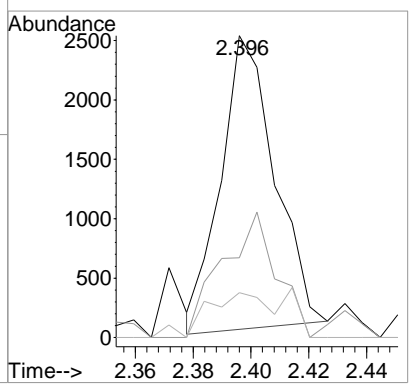
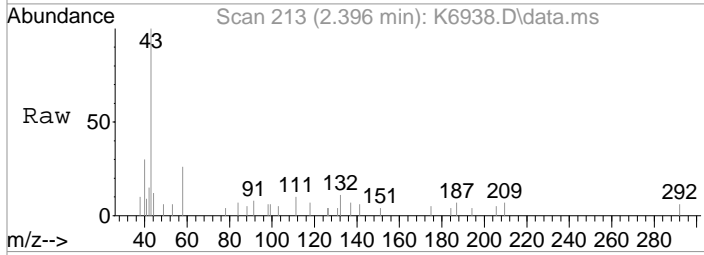
Tgt Ion	Resp	Lower	Upper
101	13091		
151	84.8	62.0	102.0





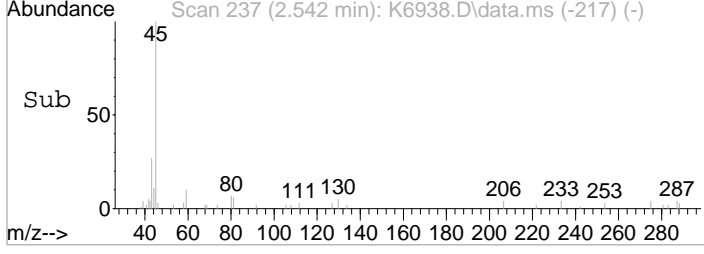
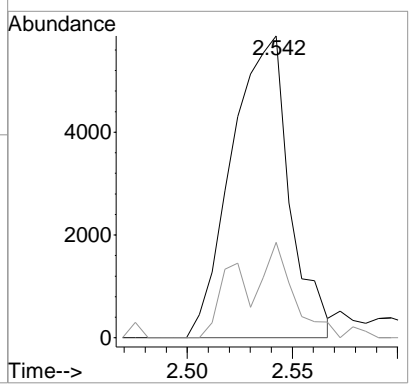
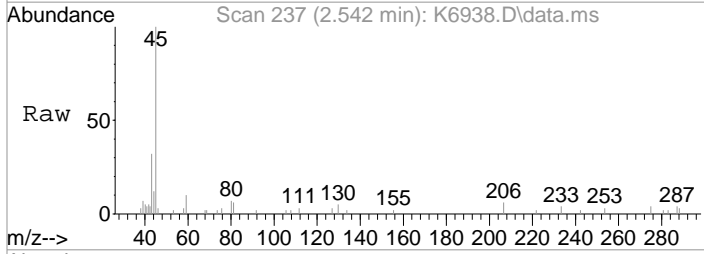
#15
 Acetone
 Concen: Below Cal
 RT: 2.396 min Scan# 213
 Delta R.T. 0.007 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

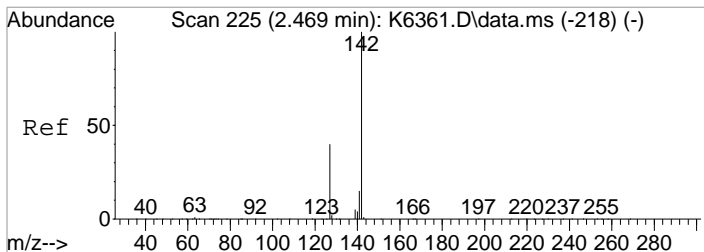
Tgt Ion	Resp	Lower	Upper
43	3211		
58	26.4	9.6	49.6
42	14.9	0.0	27.7



#16
 2-Propanol
 Concen: 26.10 ppb
 RT: 2.542 min Scan# 237
 Delta R.T. 0.012 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

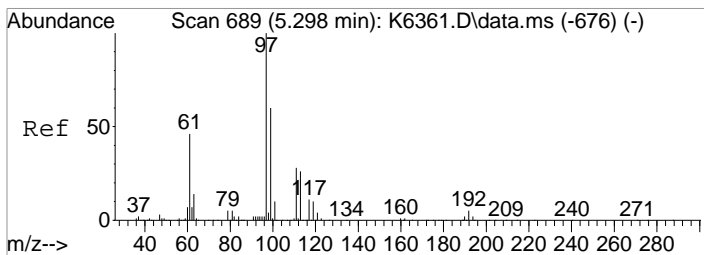
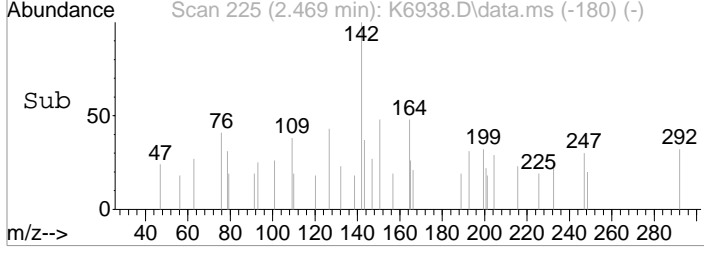
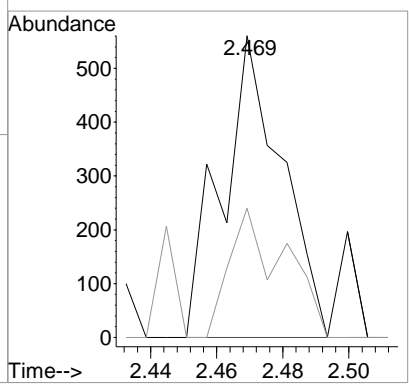
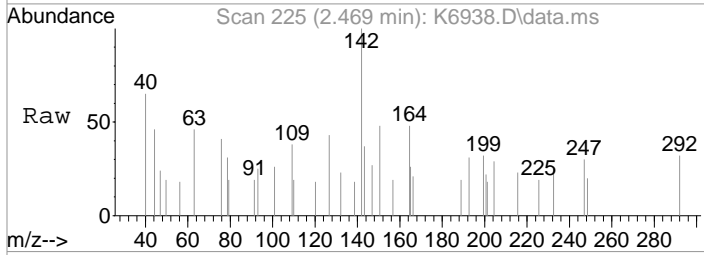
Tgt Ion	Resp	Lower	Upper
45	11233		
43	31.6	0.6	40.6





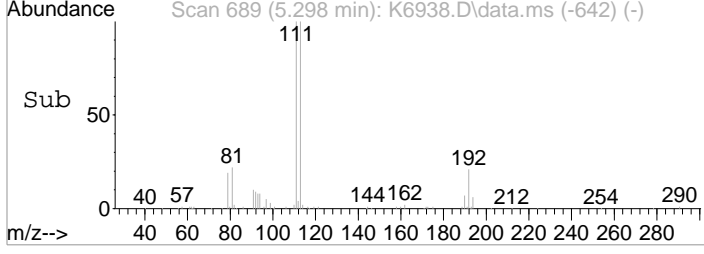
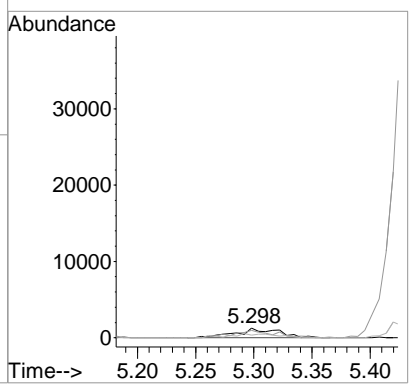
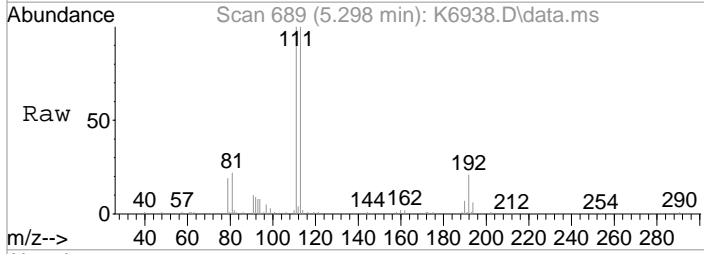
#17
 Iodomethane
 Concen: 1.55 ppb
 RT: 2.469 min Scan# 225
 Delta R.T. 0.013 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

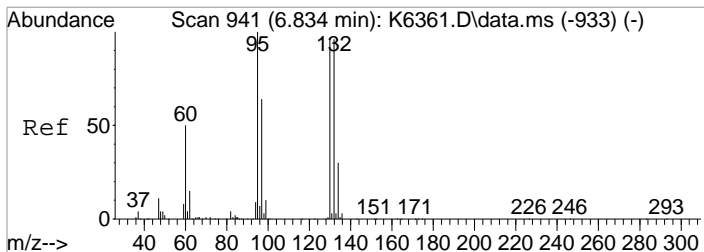
Tgt Ion	Resp	Lower	Upper
142	100		
127	42.8	19.6	59.6



#41
 1,1,1-Trichloroethane
 Concen: 0.60 ppb m
 RT: 5.298 min Scan# 689
 Delta R.T. 0.006 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

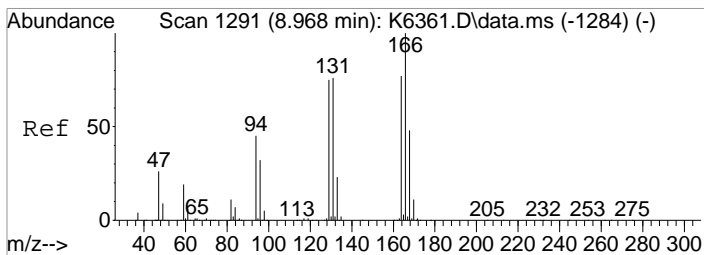
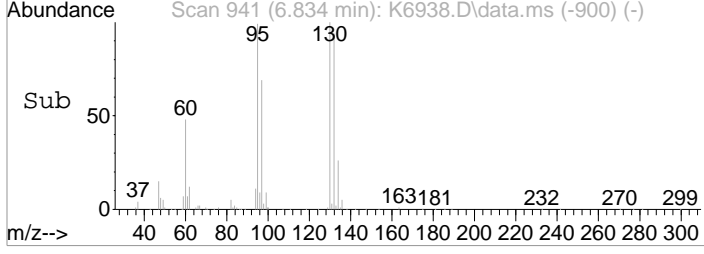
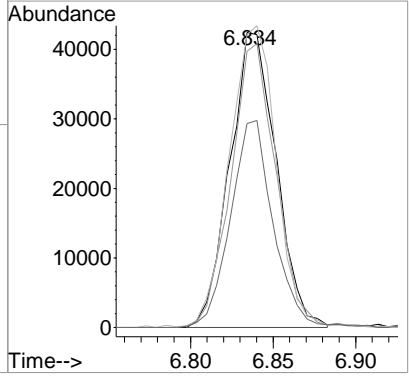
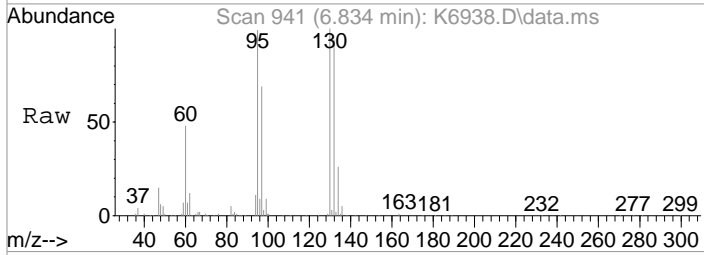
Tgt Ion	Resp	Lower	Upper
97	100		
99	75.0	40.3	80.3
61	25.7	26.2	66.2#





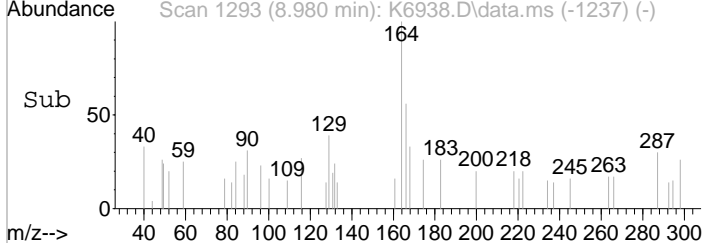
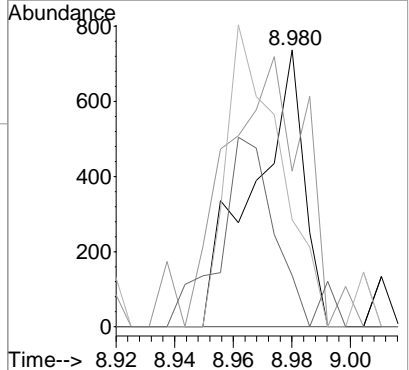
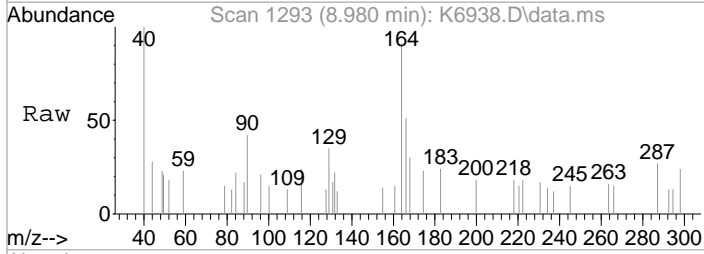
#54
 Trichloroethene
 Concen: 20.44 ppb
 RT: 6.834 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

Tgt Ion	Resp	Lower	Upper
130	83064		
130	100		
132	93.6	79.7	119.7
95	99.2	83.8	123.8
97	69.1	46.5	86.5



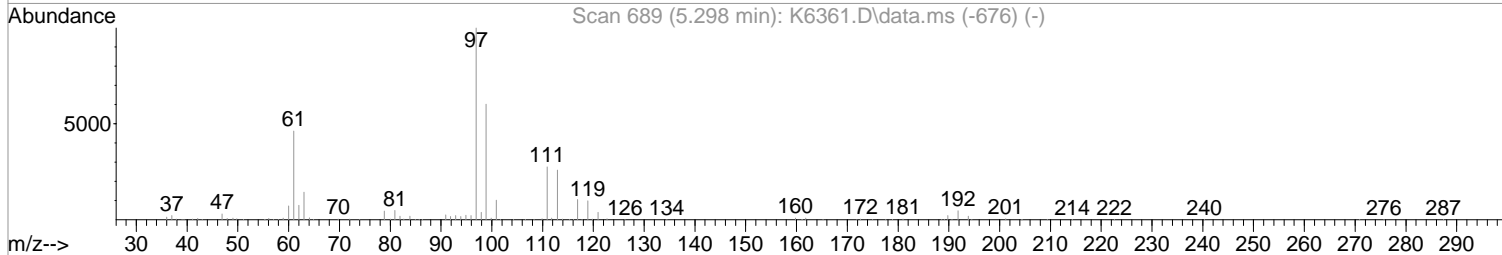
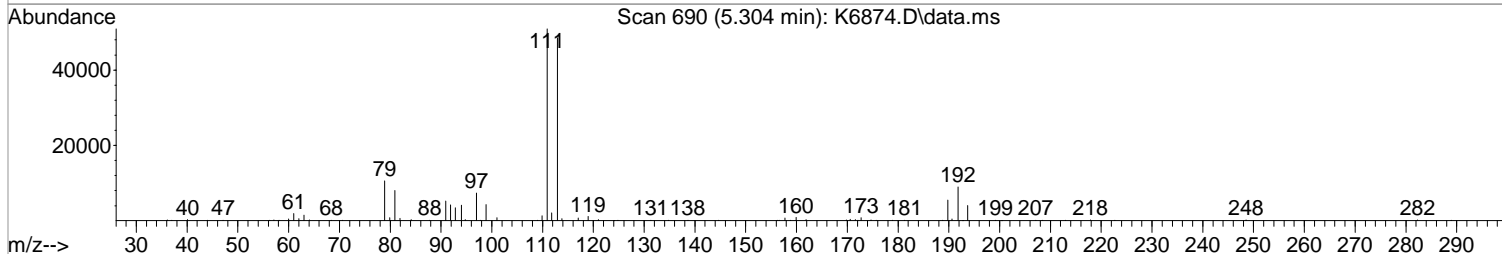
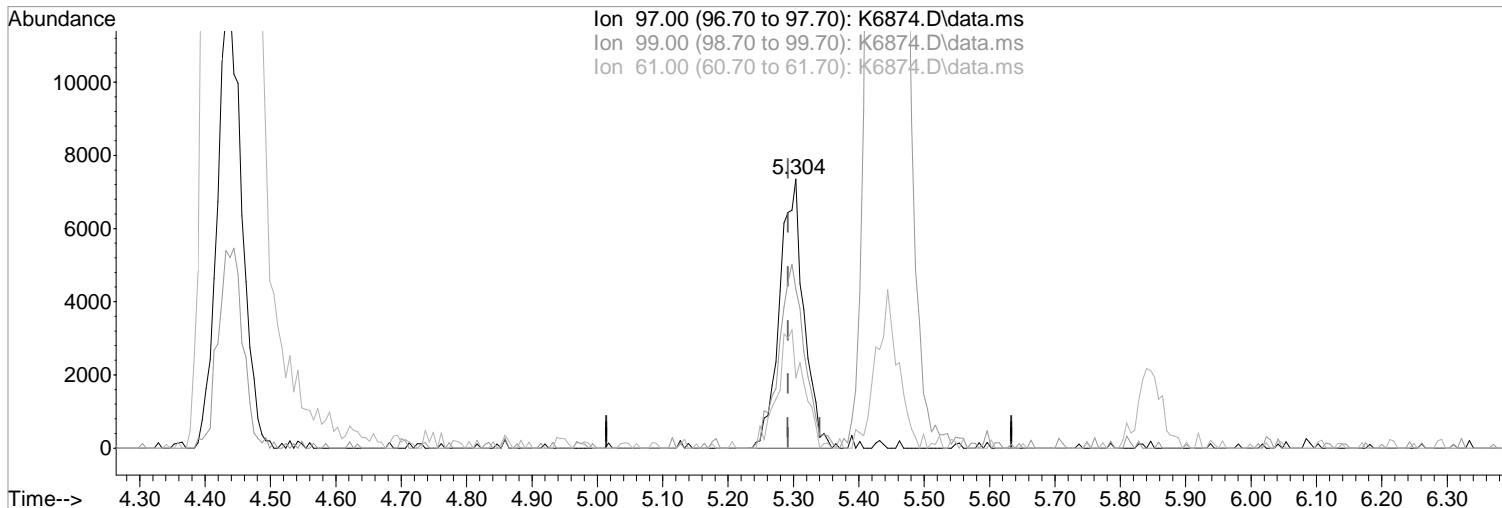
#72
 Tetrachloroethene
 Concen: 0.31 ppb m
 RT: 8.980 min Scan# 1293
 Delta R.T. 0.012 min
 Lab File: K6938.D
 Acq: 21 Sep 2021 7:49 pm

Tgt Ion	Resp	Lower	Upper
164	887		
164	100		
166	56.2	109.5	149.5#
129	38.7	77.6	117.6#
131	18.6	77.9	117.9#



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6874.D
Acq On : 20 Sep 2021 6:16 pm
Operator : K.Ruest
Sample : R2109484-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 18:33:33 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.304min (+0.012) 3.40 ppb m

response 18886

Ion	Exp%	Act%
97.00	100	100
99.00	60.30	59.09
61.00	46.20	26.06#
0.00	0.00	0.00

Manual Integration:

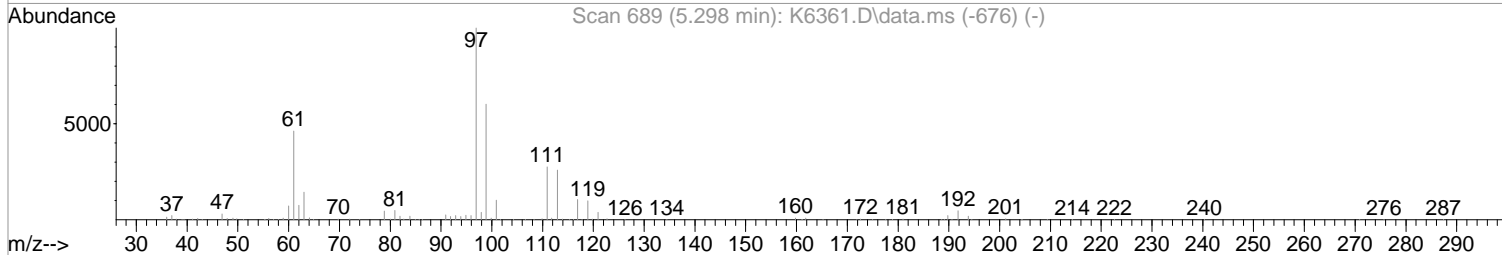
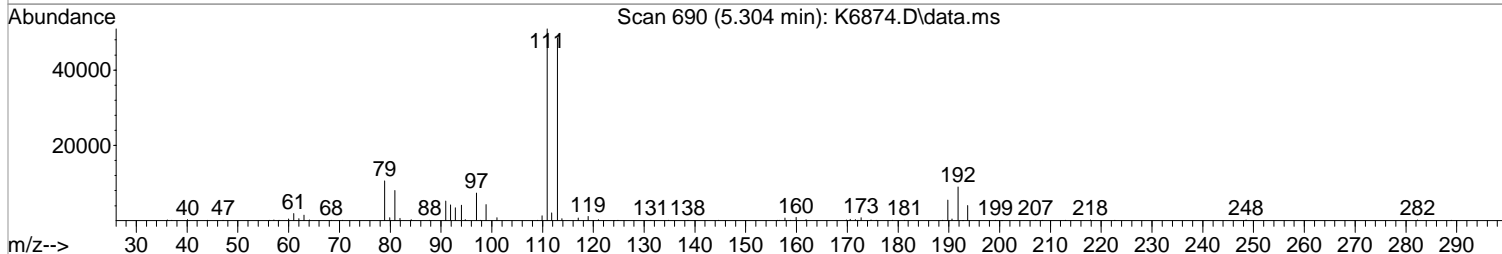
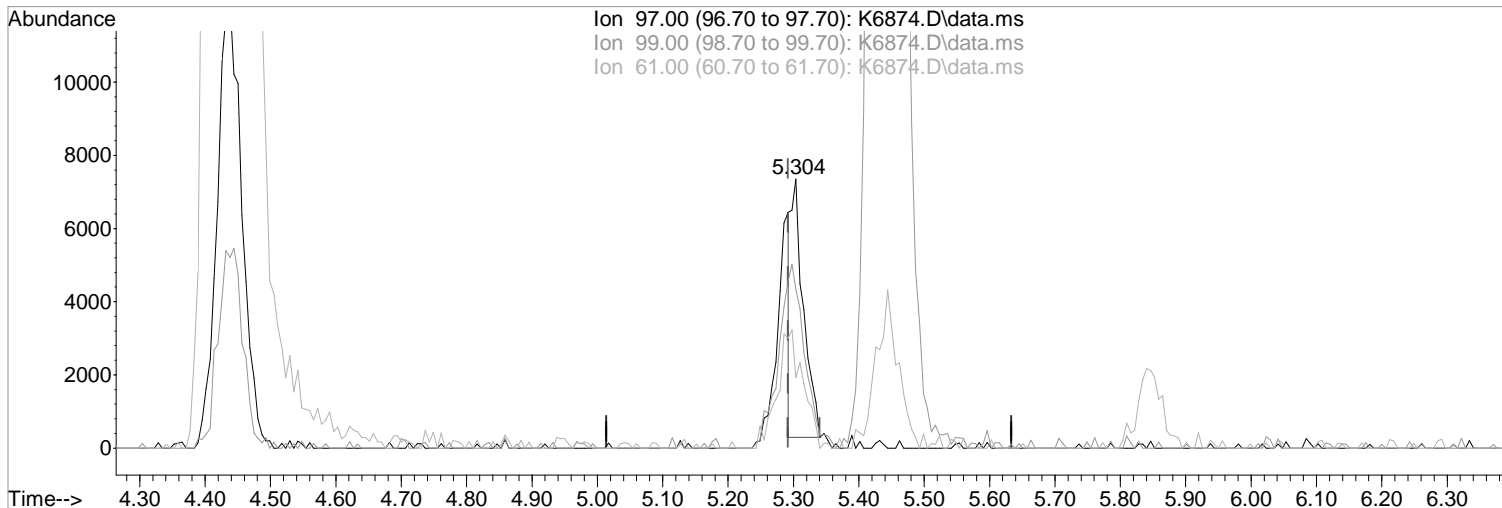
After

Split Peak

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6874.D
Acq On : 20 Sep 2021 6:16 pm
Operator : K.Ruest
Sample : R2109484-009|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 20 18:33:33 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

Manual Integration:

5.304min (+0.012) 1.69 ppb

Before

response 9373

Ion	Exp%	Act%
97.00	100	100
99.00	60.30	59.09
61.00	46.20	26.06#
0.00	0.00	0.00

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6874.D
 Acq On : 20 Sep 2021 6:16 pm
 Operator : K.Ruest
 Sample : R2109484-009|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 21 14:22:09 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

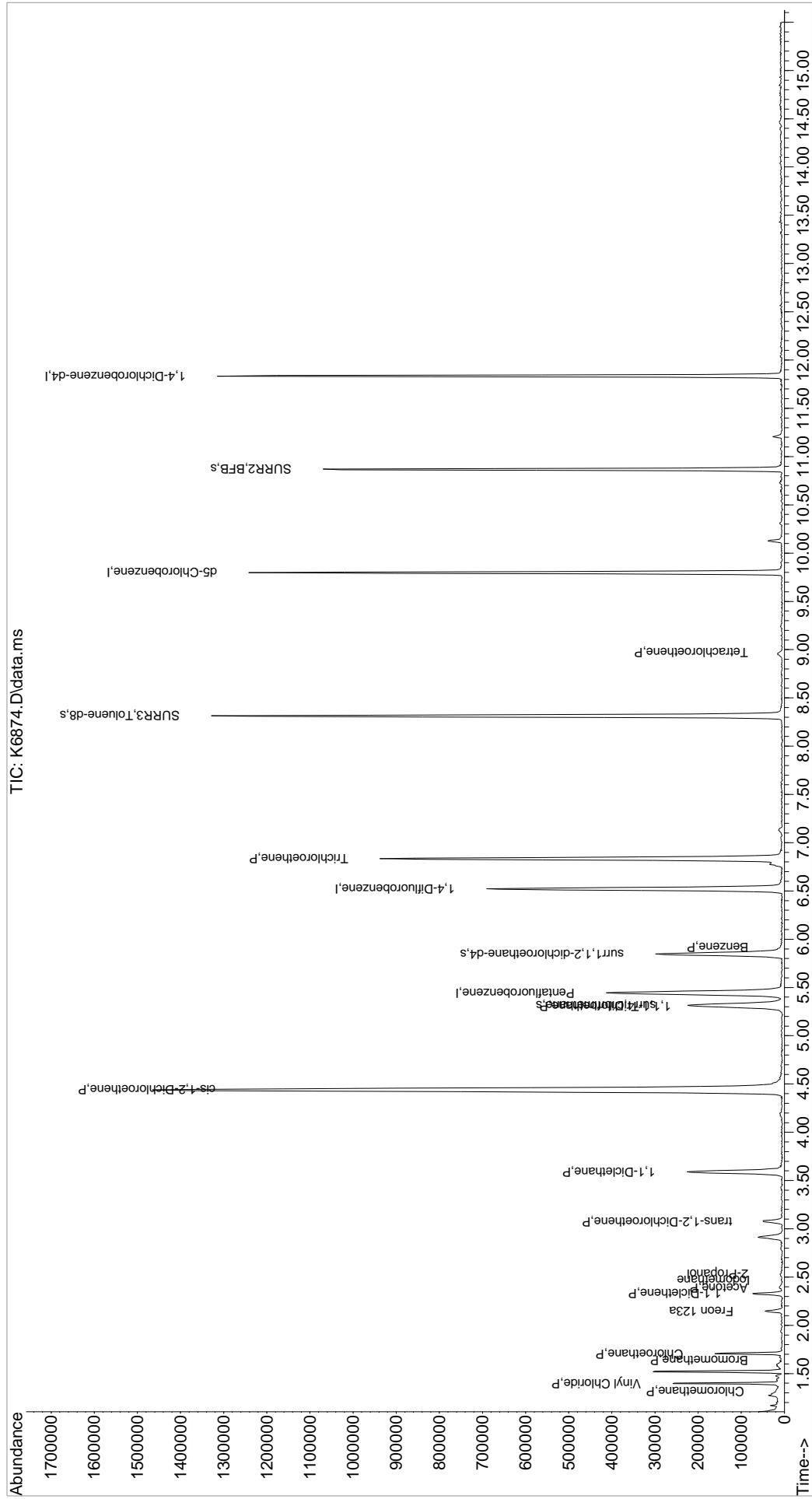
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.444	168	346817	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	604391	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	529466	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	244156	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	174039	52.90	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery	=	105.80%		
48) surr1,1,2-dichloroetha...	5.846	65	253825	53.05	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	106.10%		
65) SURR3,Toluene-d8	8.315	98	818689	52.94	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	105.88%		
70) SURR2,BFB	10.870	95	312386	50.88	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	101.76%		
Target Compounds							Qvalue
3) Chloromethane	1.317	50	1221	0.30	ppb		87
4) Vinyl Chloride	1.396	62	140242	29.89	ppb		97
5) Bromomethane	1.634	94	1244	0.41	ppb		99
6) Chloroethane	1.707	64	89131	28.94	ppb		99
10) Freon 123a	2.146	67	16094	3.62	ppb		92
13) 1,1-Dicethene	2.329	96	17118	5.07	ppb		93
15) Acetone	2.390	43	7045	1.51	ppb		93
16) 2-Propanol	2.530	45	3702	8.22	ppb		98
17) Iodomethane	2.469	142	601	1.51	ppb		71
26) trans-1,2-Dichloroethene	3.072	96	18317	4.96	ppb		88
28) 1,1-Dicethene	3.591	63	251522	36.24	ppb		97
34) cis-1,2-Dichloroethene	4.438	96	848736	199.67	ppb		97
41) 1,1,1-Trichloroethane	5.304	97	18886m	3.40	ppb		
49) Benzene	5.913	78	4676	0.27	ppb		95
54) Trichloroethene	6.834	130	316425	74.39	ppb		99
72) Tetrachloroethene	8.974	164	1875	0.61	ppb	#	45

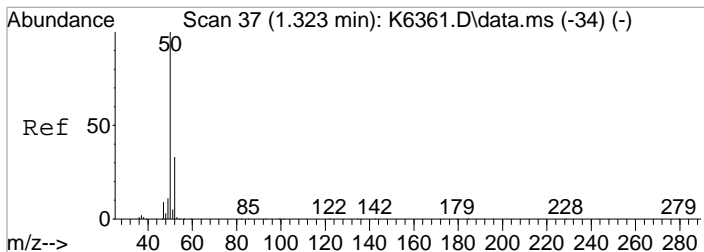
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092021\
 Data File : K6874.D
 Acq On : 20 Sep 2021 6:16 pm
 Operator : K.Ruest
 Sample : R2109484-009|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA-12

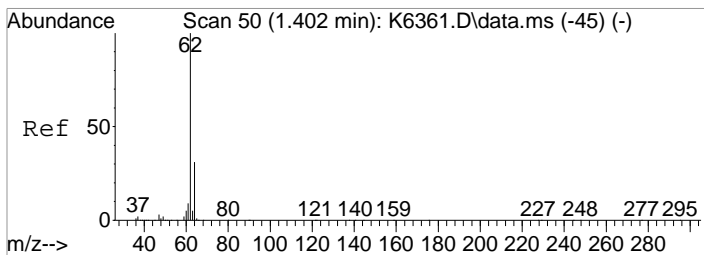
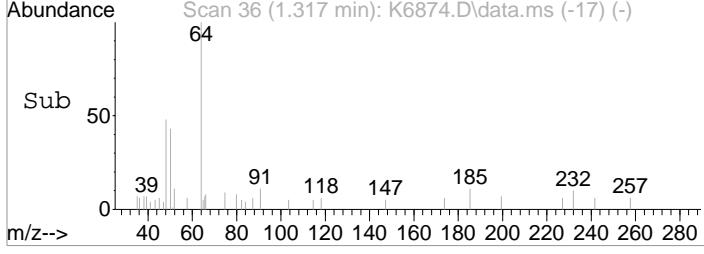
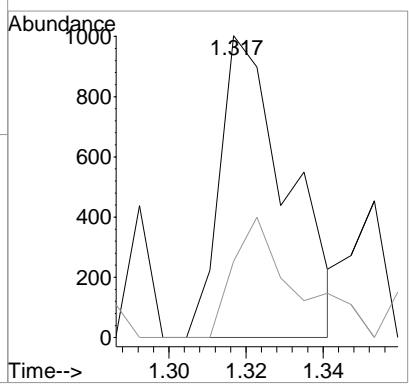
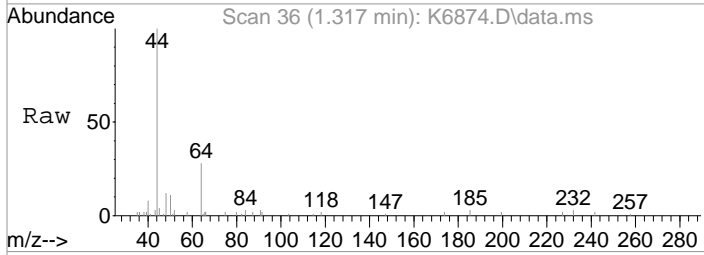
Quant Time: Sep 21 14:22:09 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





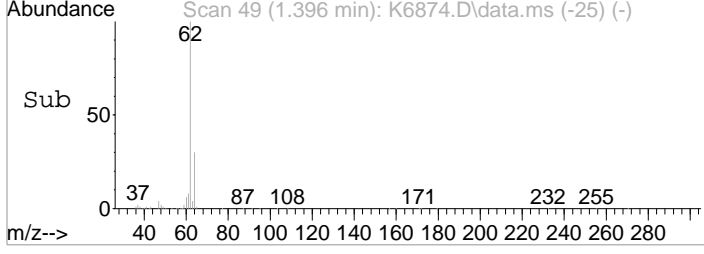
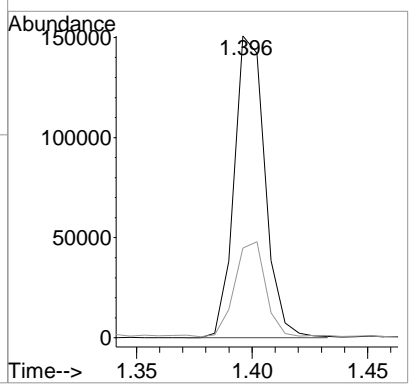
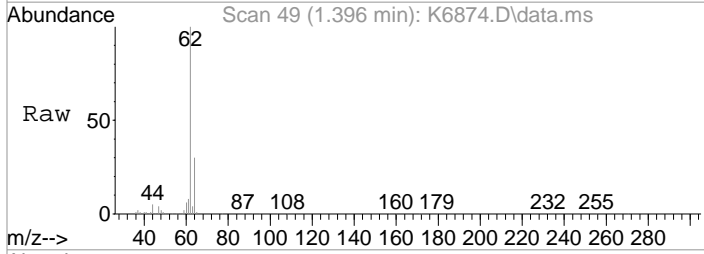
#3
Chloromethane
Concen: 0.30 ppb
RT: 1.317 min Scan# 36
Delta R.T. -0.000 min
Lab File: K6874.D
Acq: 20 Sep 2021 6:16 pm

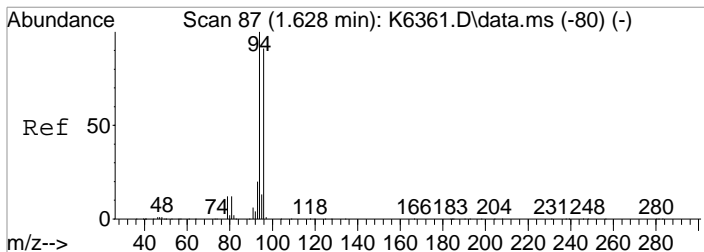
Tgt Ion	Resp	Lower	Upper
50	100		
52	25.2	12.7	52.7



#4
Vinyl Chloride
Concen: 29.89 ppb
RT: 1.396 min Scan# 49
Delta R.T. -0.000 min
Lab File: K6874.D
Acq: 20 Sep 2021 6:16 pm

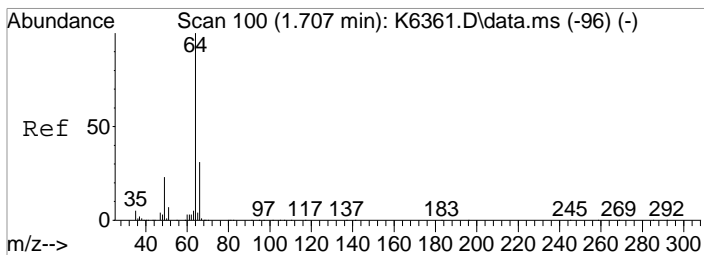
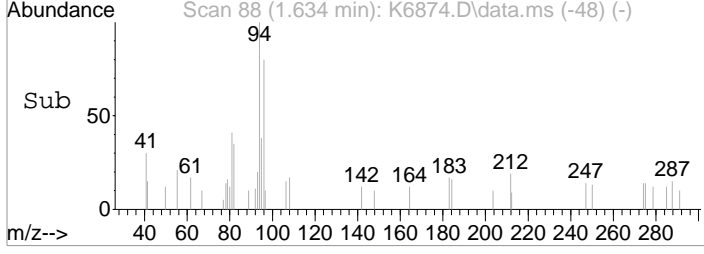
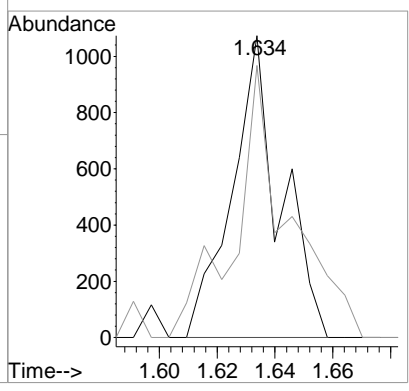
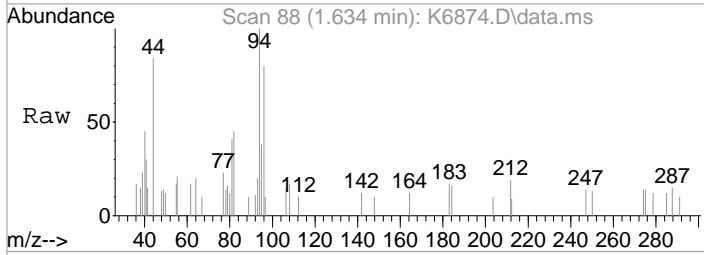
Tgt Ion	Resp	Lower	Upper
62	100		
64	29.7	11.5	51.5





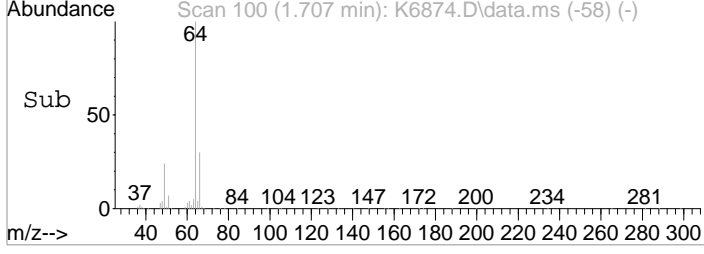
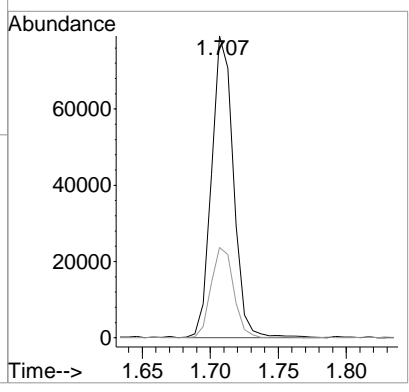
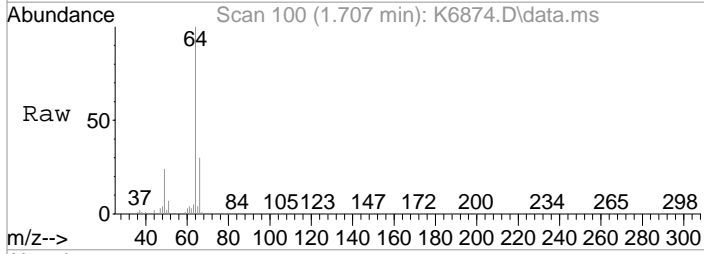
#5
 Bromomethane
 Concen: 0.41 ppb
 RT: 1.634 min Scan# 88
 Delta R.T. 0.018 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

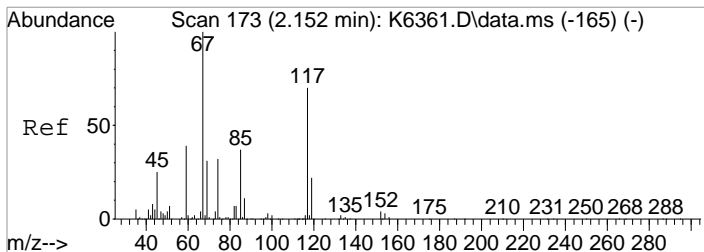
Tgt Ion	Resp	Lower	Upper
94	1244		
94	100		
96	90.1	71.0	111.0



#6
 Chloroethane
 Concen: 28.94 ppb
 RT: 1.707 min Scan# 100
 Delta R.T. 0.012 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

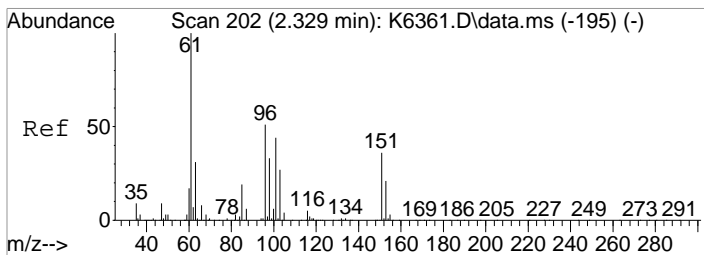
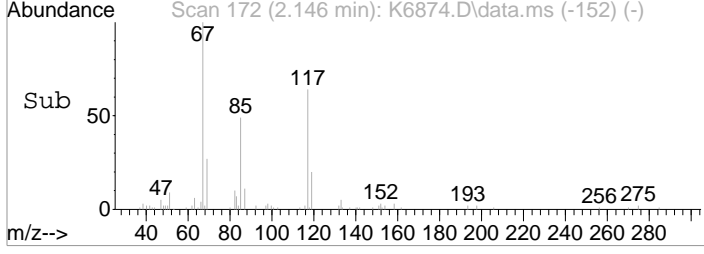
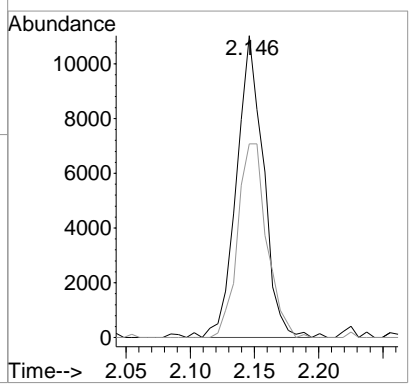
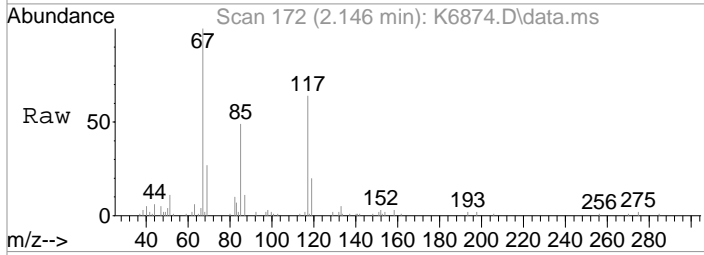
Tgt Ion	Resp	Lower	Upper
64	89131		
64	100		
66	29.9	10.7	50.7





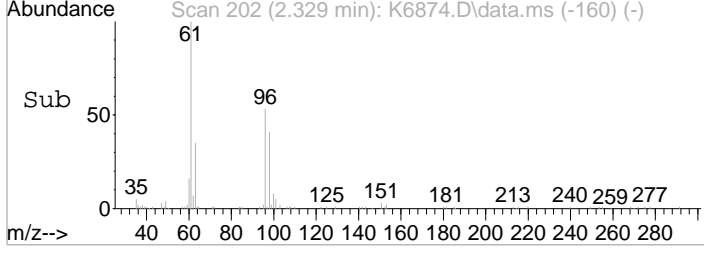
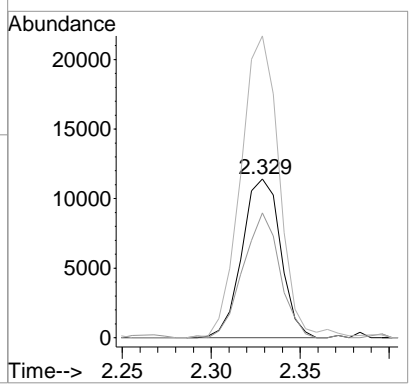
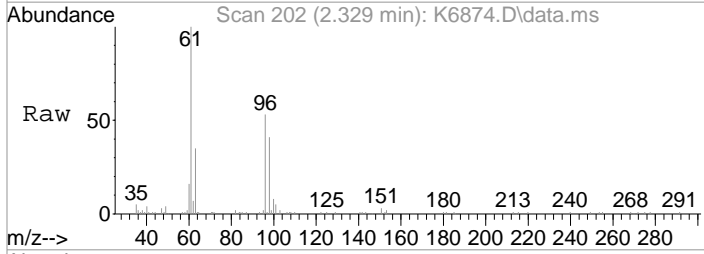
#10
 Freon 123a
 Concen: 3.62 ppb
 RT: 2.146 min Scan# 172
 Delta R.T. 0.006 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

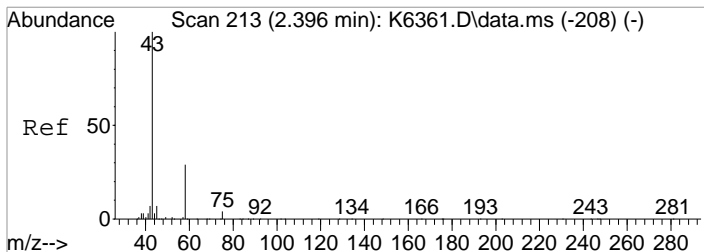
Tgt Ion	Resp	Lower	Upper
67	16094		
117	64.1	50.5	90.5



#13
 1,1-Diclcethene
 Concen: 5.07 ppb
 RT: 2.329 min Scan# 202
 Delta R.T. 0.006 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

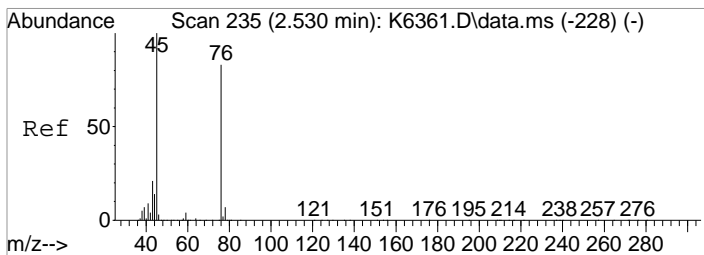
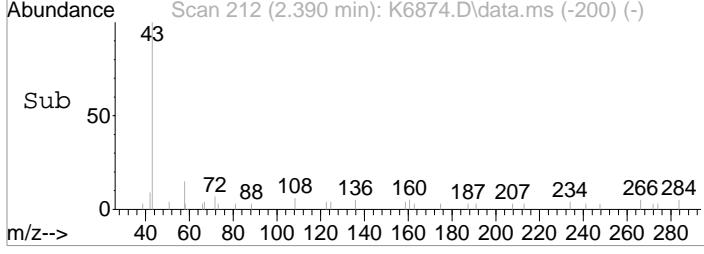
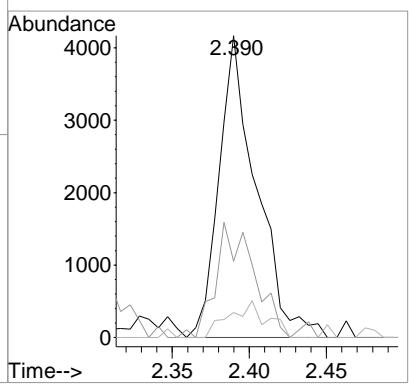
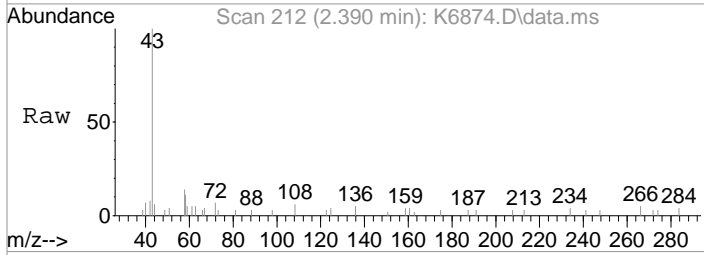
Tgt Ion	Resp	Lower	Upper
96	17118		
98	78.7	44.1	84.1
61	190.3	174.9	214.9





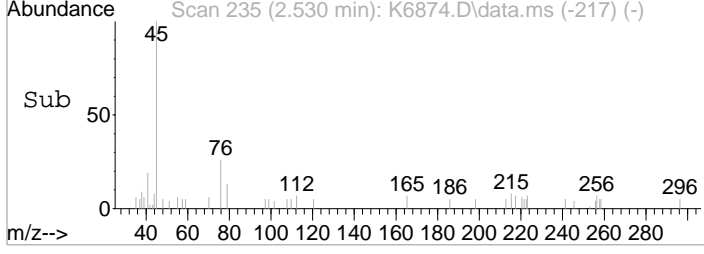
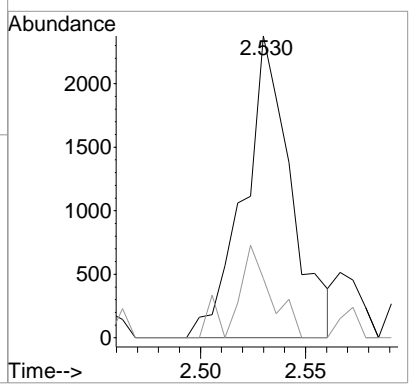
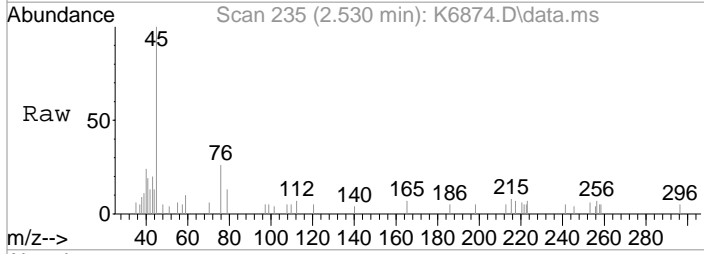
#15
 Acetone
 Concen: 1.51 ppb
 RT: 2.390 min Scan# 212
 Delta R.T. 0.001 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

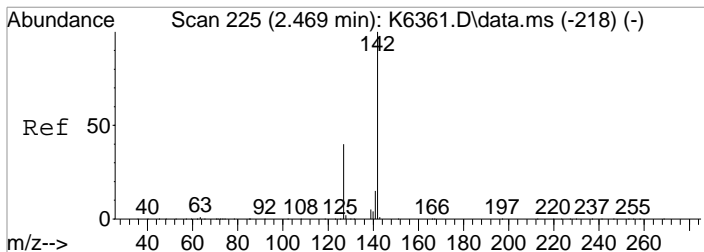
Tgt Ion	Resp	Lower	Upper
43	7045		
58	25.3	9.6	49.6
42	8.3	0.0	27.7



#16
 2-Propanol
 Concen: 8.22 ppb
 RT: 2.530 min Scan# 235
 Delta R.T. -0.000 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

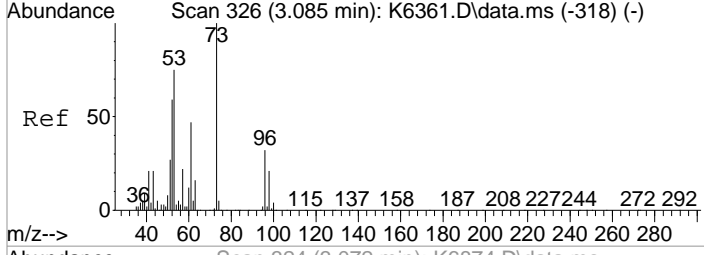
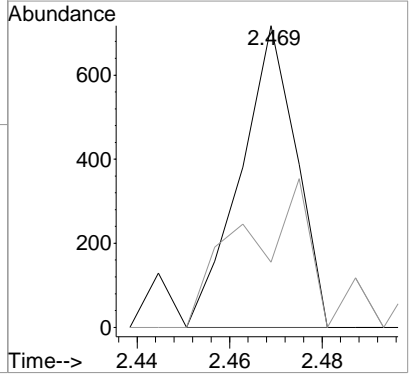
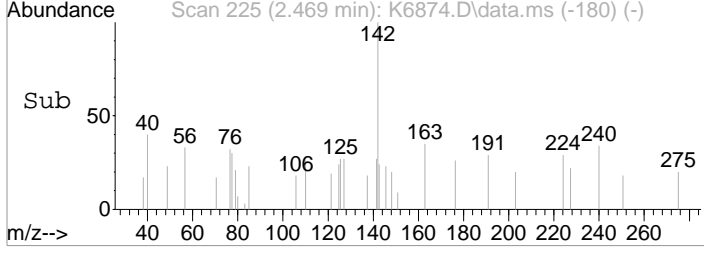
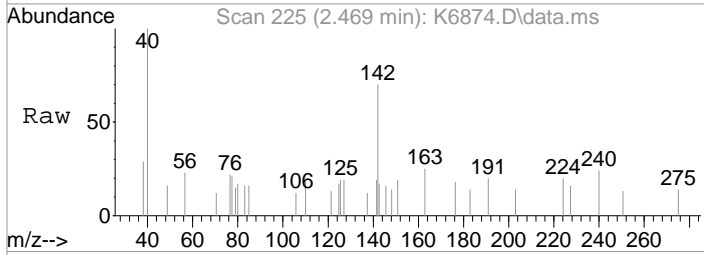
Tgt Ion	Resp	Lower	Upper
45	3702		
43	19.6	0.6	40.6





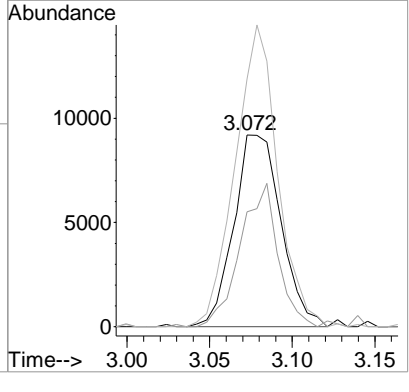
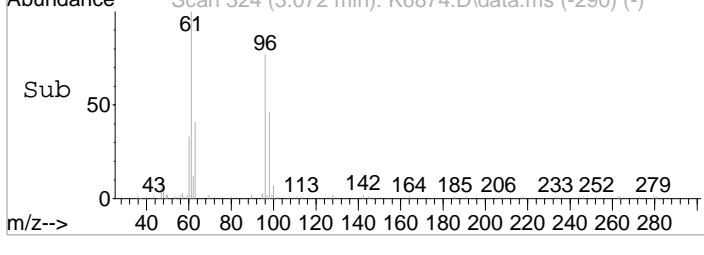
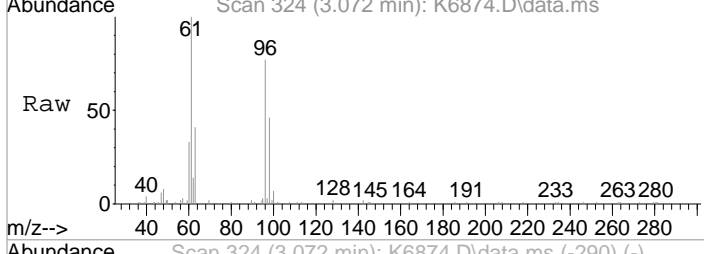
#17
 Iodomethane
 Concen: 1.51 ppb
 RT: 2.469 min Scan# 225
 Delta R.T. 0.013 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

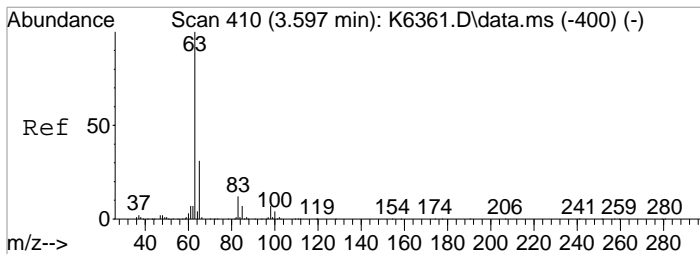
Tgt Ion	Resp	Lower	Upper
142	601		
127	21.6	19.6	59.6



#26
 trans-1,2-Dichloroethene
 Concen: 4.96 ppb
 RT: 3.072 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

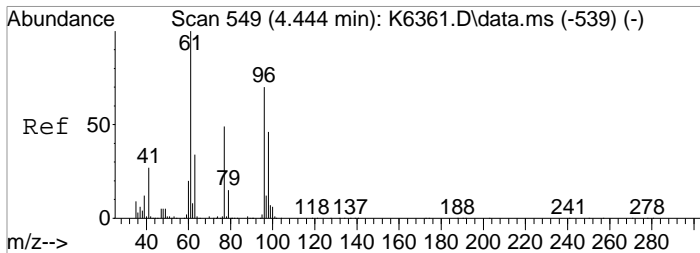
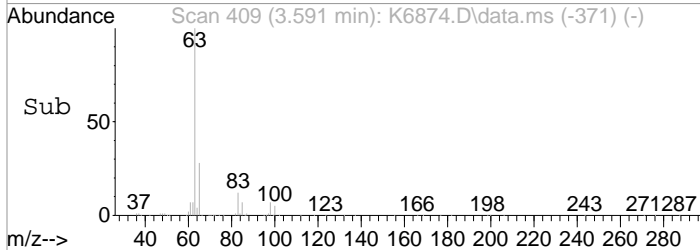
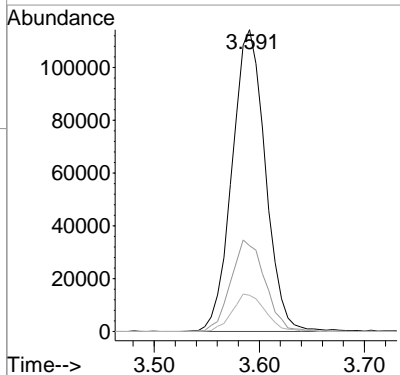
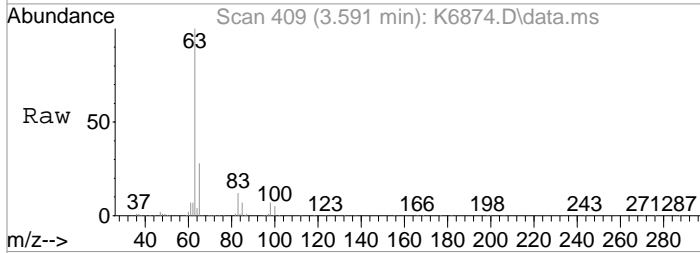
Tgt Ion	Resp	Lower	Upper
96	18317		
98	60.0	44.1	84.1
61	129.1	127.9	167.9





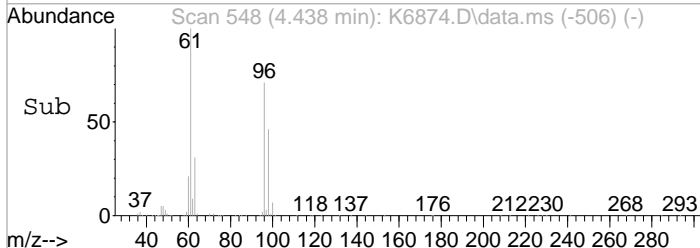
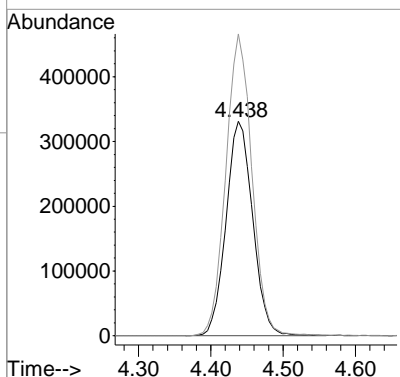
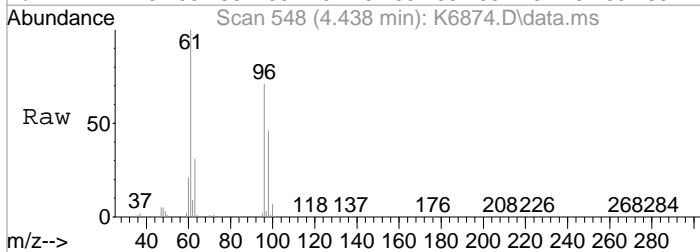
#28
 1,1-Dicloroethane
 Concen: 36.24 ppb
 RT: 3.591 min Scan# 409
 Delta R.T. 0.006 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

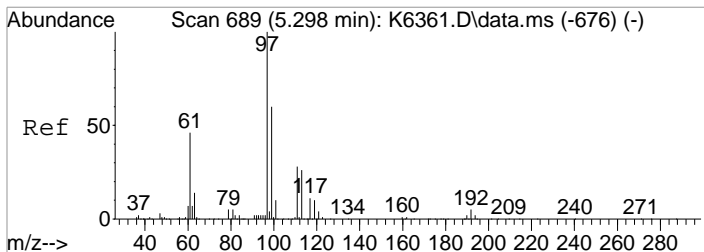
Tgt Ion	Resp	Lower	Upper
63	100		
65	28.4	10.8	50.8
83	12.0	0.0	32.3



#34
 cis-1,2-Dichloroethene
 Concen: 199.67 ppb
 RT: 4.438 min Scan# 548
 Delta R.T. -0.000 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

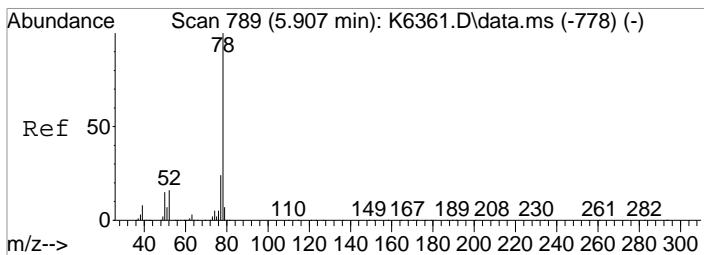
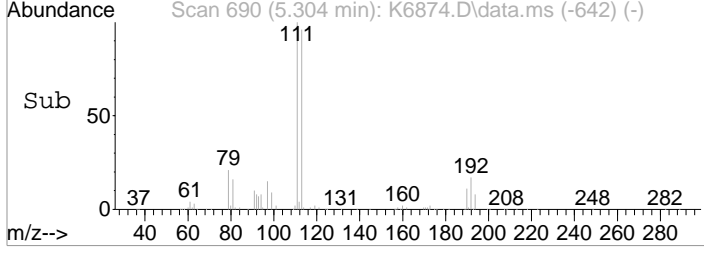
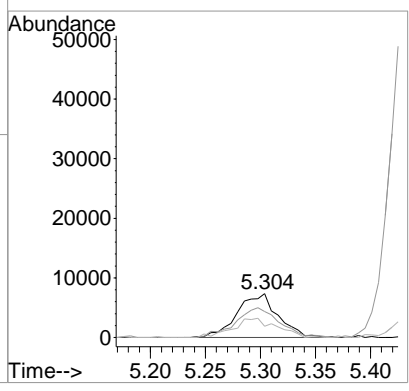
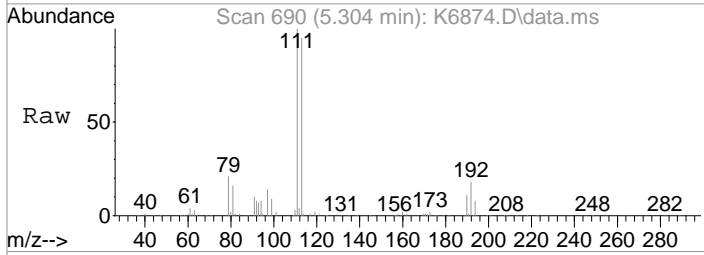
Tgt Ion	Resp	Lower	Upper
96	100		
61	140.9	125.2	165.2





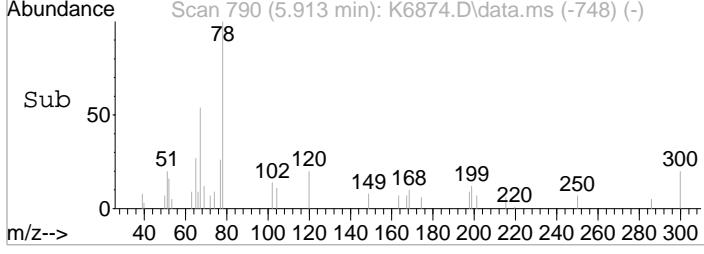
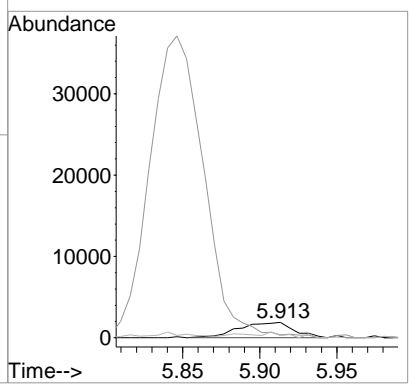
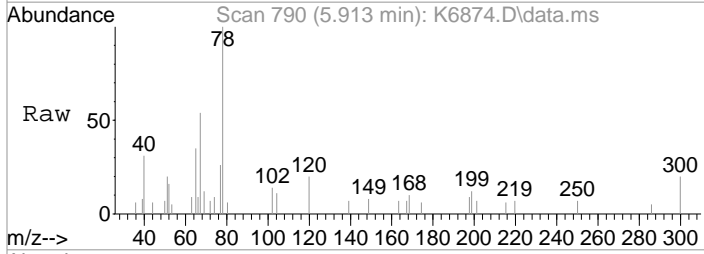
#41
 1,1,1-Trichloroethane
 Concen: 3.40 ppb m
 RT: 5.304 min Scan# 690
 Delta R.T. 0.012 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

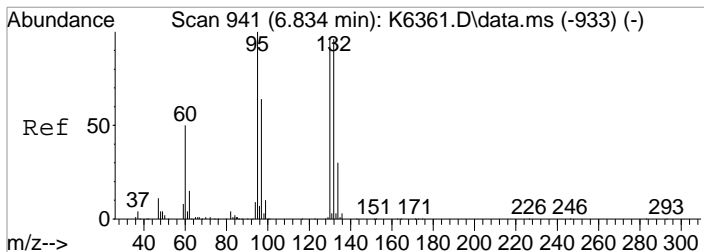
Tgt Ion	Resp	Lower	Upper
97	18886		
97	100		
99	59.1	40.3	80.3
61	26.1	26.2	66.2#



#49
 Benzene
 Concen: 0.27 ppb
 RT: 5.913 min Scan# 790
 Delta R.T. 0.012 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

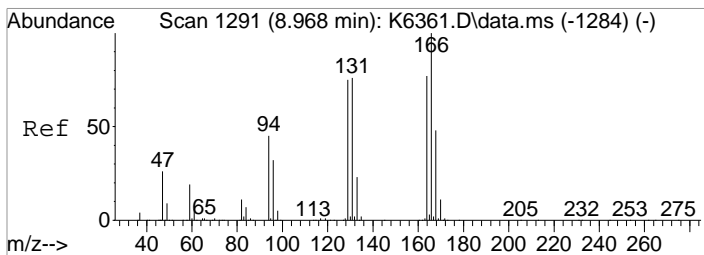
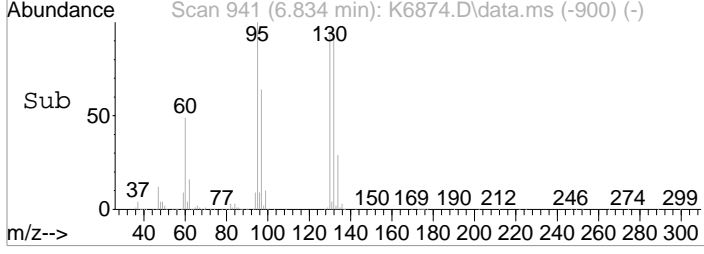
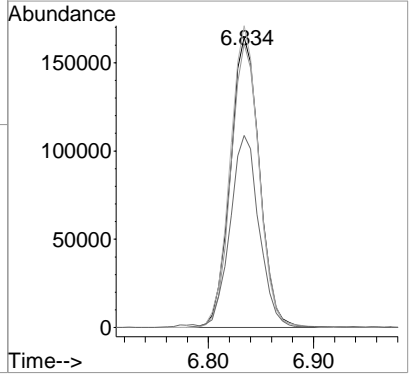
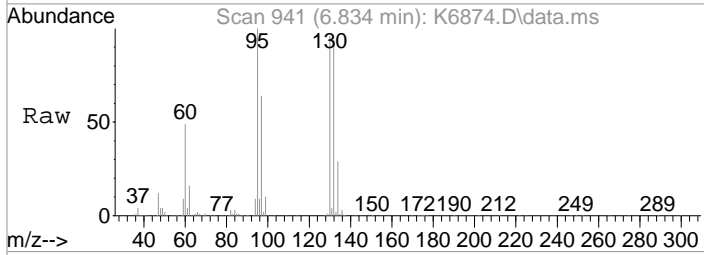
Tgt Ion	Resp	Lower	Upper
78	4676		
78	100		
51	19.8	0.0	35.9
52	15.7	0.0	36.2





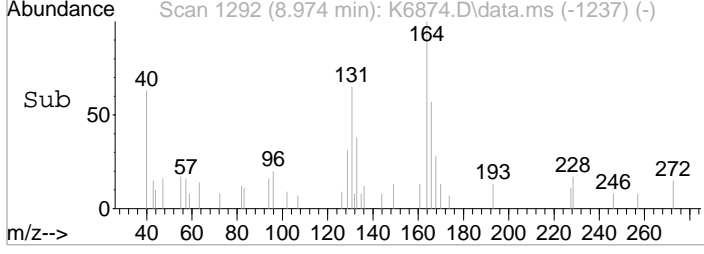
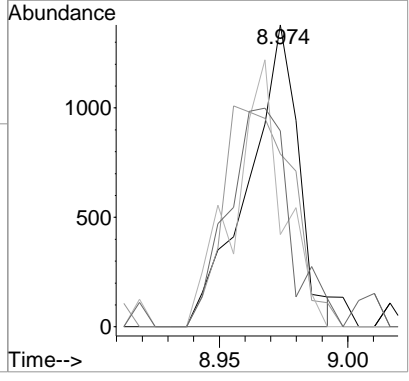
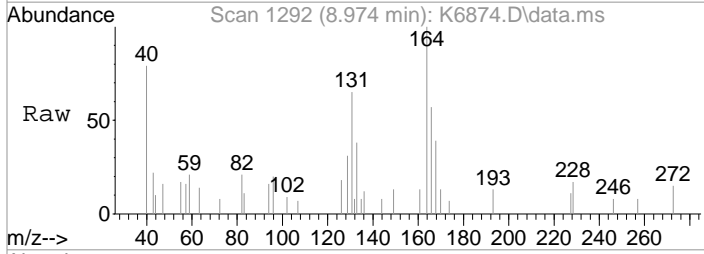
#54
 Trichloroethene
 Concen: 74.39 ppb
 RT: 6.834 min Scan# 941
 Delta R.T. -0.000 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

Tgt Ion	Resp	Lower	Upper
130	316425		
130	100		
132	97.7	79.7	119.7
95	104.0	83.8	123.8
97	66.2	46.5	86.5



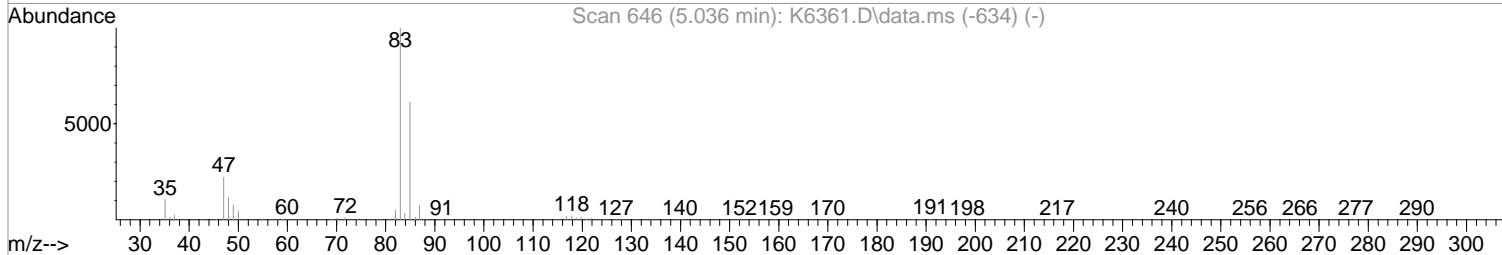
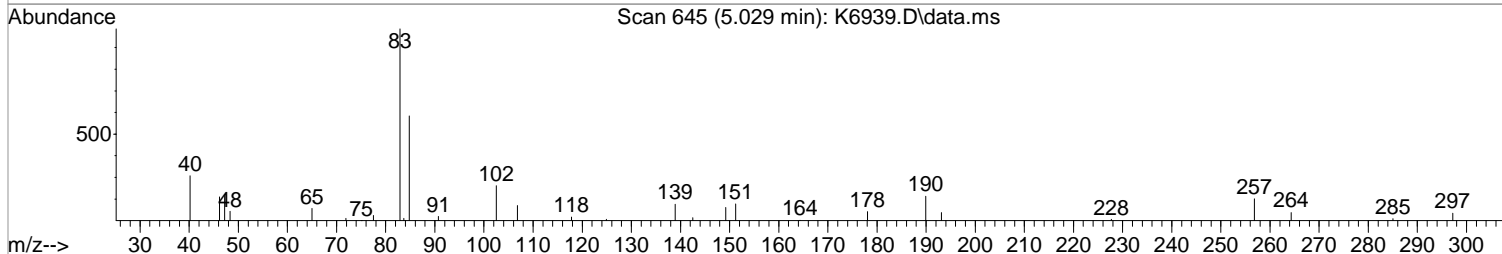
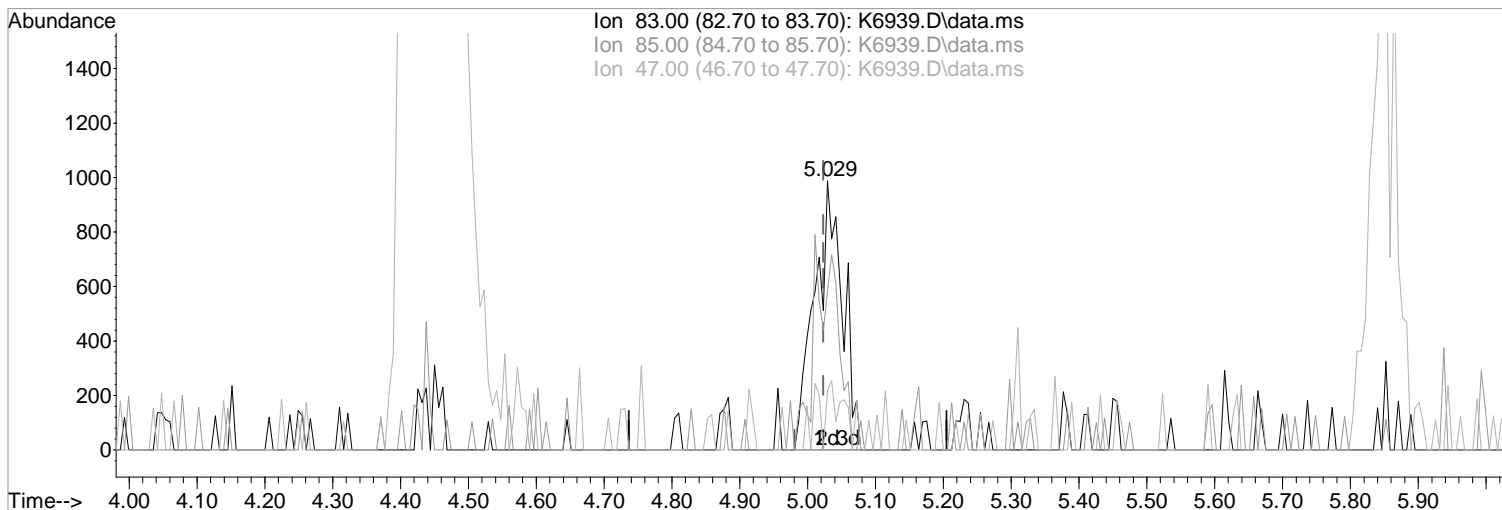
#72
 Tetrachloroethene
 Concen: 0.61 ppb
 RT: 8.974 min Scan# 1292
 Delta R.T. 0.006 min
 Lab File: K6874.D
 Acq: 20 Sep 2021 6:16 pm

Tgt Ion	Resp	Lower	Upper
164	1875		
164	100		
166	57.2	109.5	149.5#
129	30.6	77.6	117.6#
131	64.9	77.9	117.9#



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6939.D
Acq On : 21 Sep 2021 8:11 pm
Operator : K.Ruest
Sample : R2109484-010|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 22 09:28:56 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(40) Chloroform (P)

5.029min (+0.006) -0.07 ppb m

response 2814

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	59.17
47.00	22.10	22.19
0.00	0.00	0.00

Manual Integration:

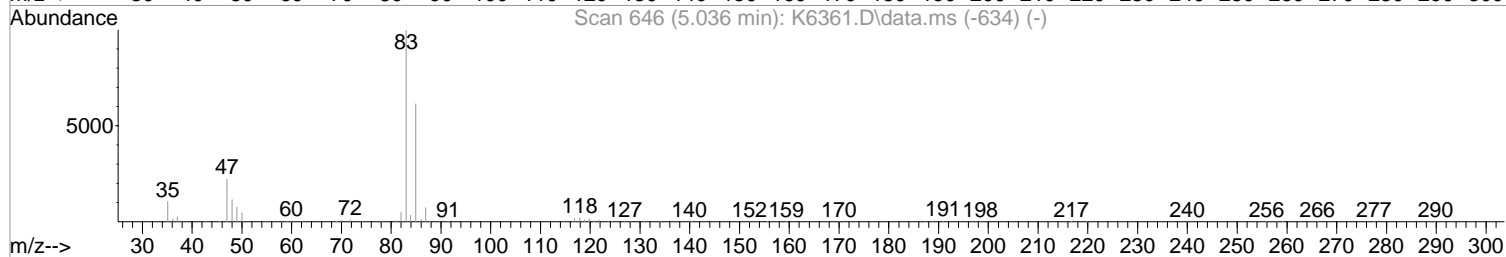
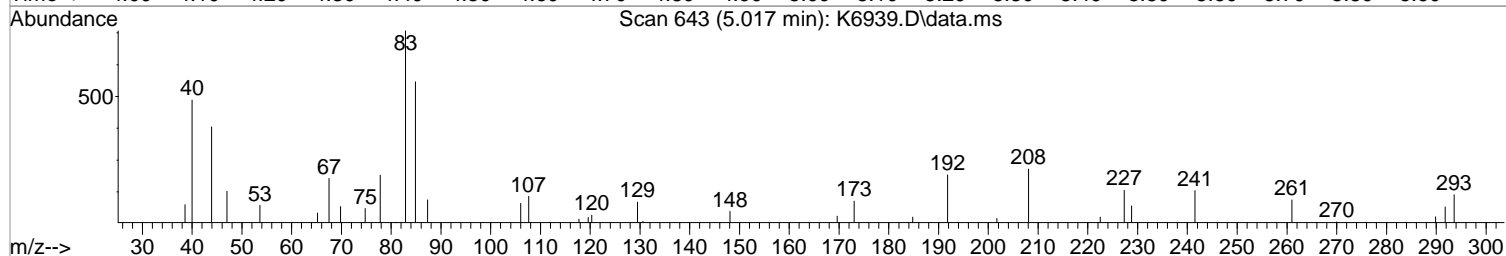
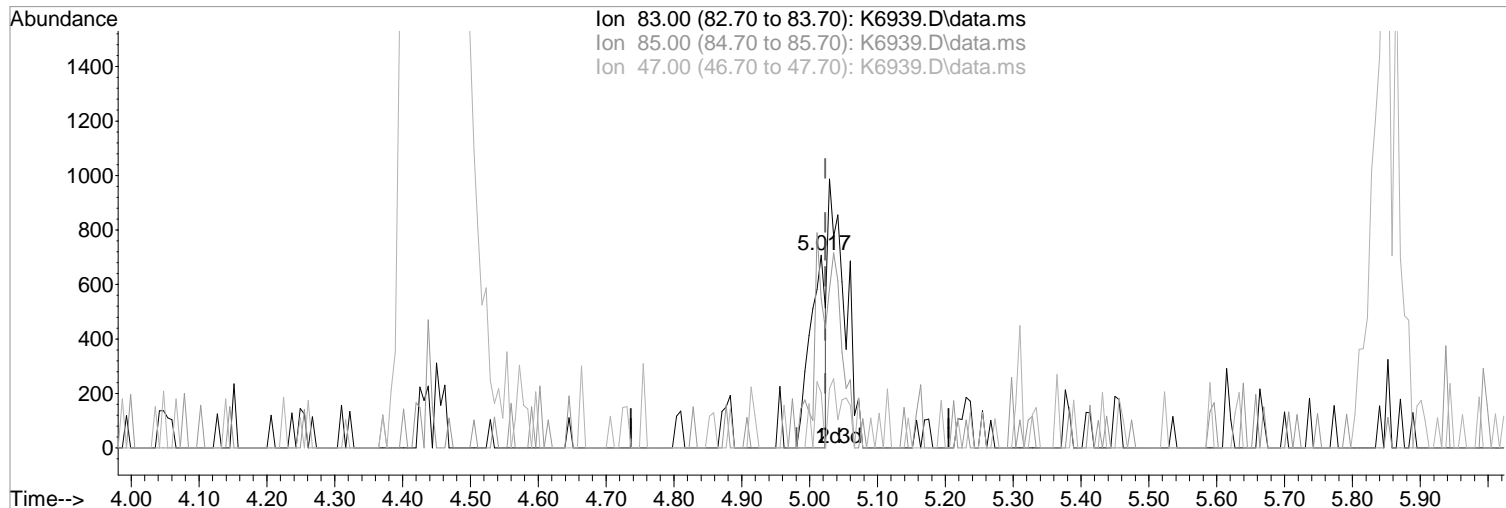
After

Split Peak

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6939.D
Acq On : 21 Sep 2021 8:11 pm
Operator : K.Ruest
Sample : R2109484-010|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 22 09:28:56 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(40) Chloroform (P)

Manual Integration:

5.017min (-0.006) -0.33 ppb

Before

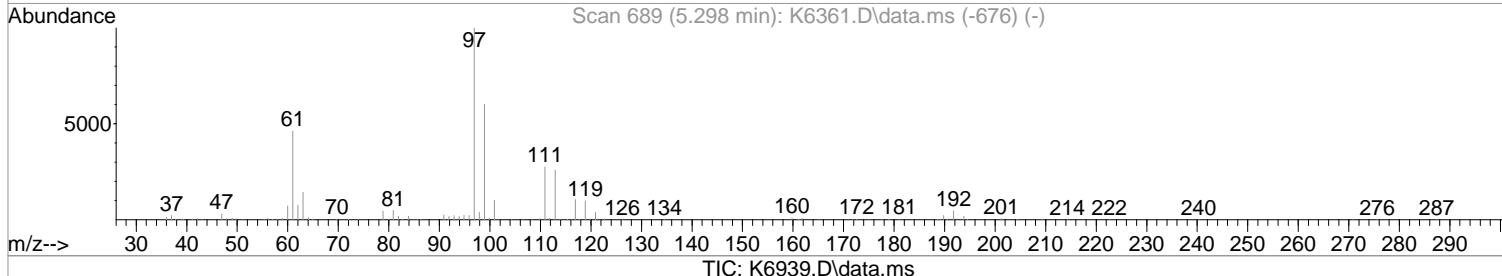
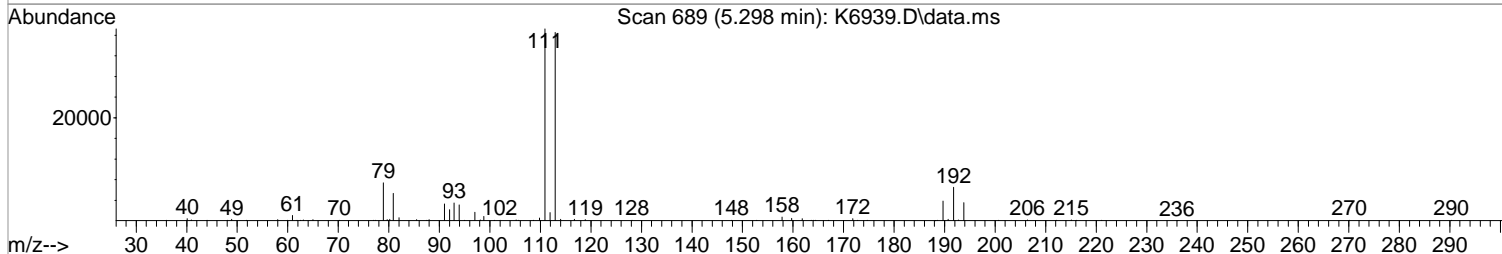
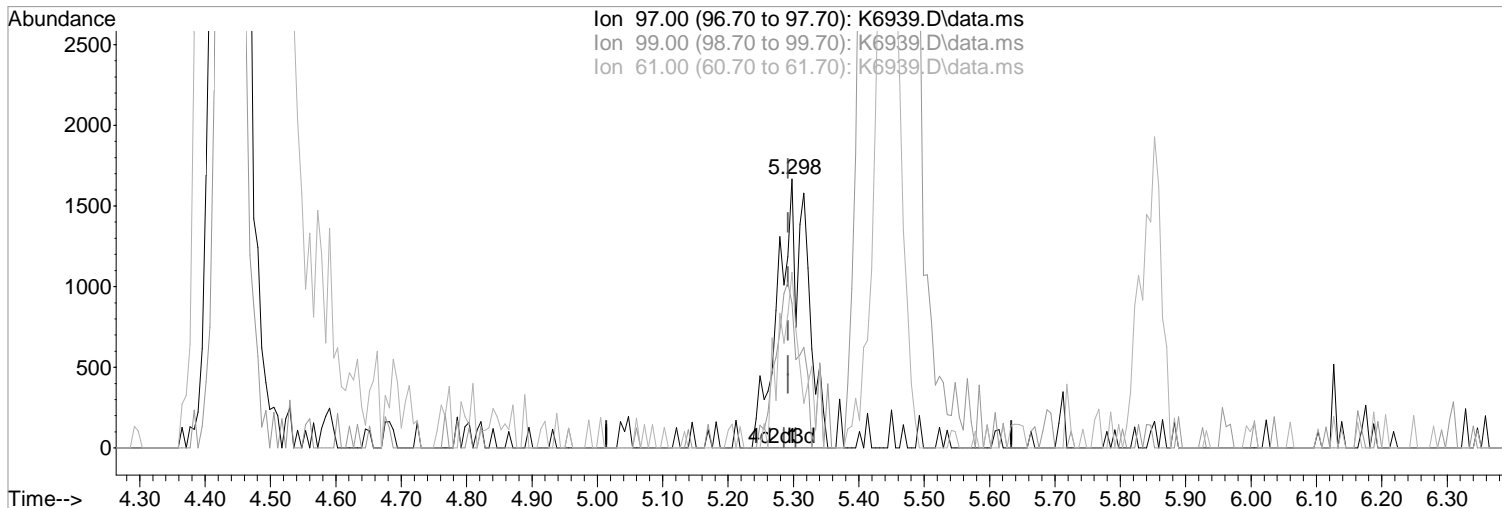
response 1140

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	77.23
47.00	22.10	28.57
0.00	0.00	0.00

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6939.D
 Acq On : 21 Sep 2021 8:11 pm
 Operator : K.Ruest
 Sample : R2109484-010|2.5 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 22 09:28:56 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.298min (+0.006) 0.96 ppb m

response 5221

Ion	Exp%	Act%
97.00	100	100
99.00	60.30	53.87
61.00	46.20	65.39
0.00	0.00	0.00

Manual Integration:

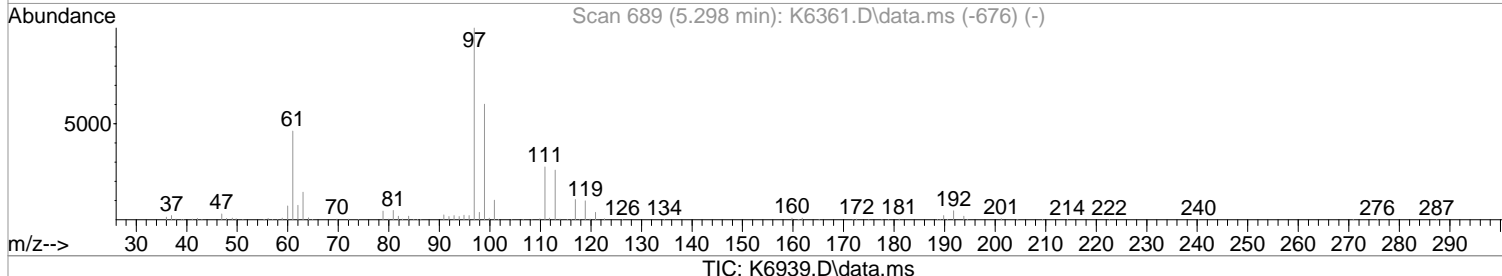
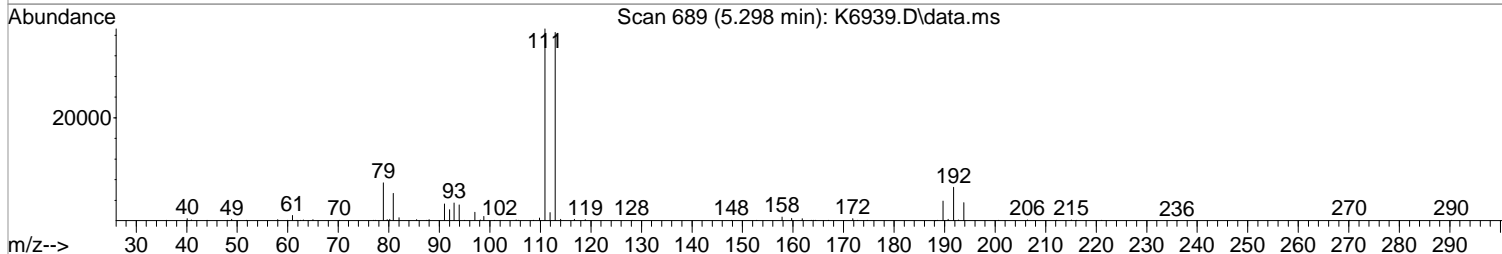
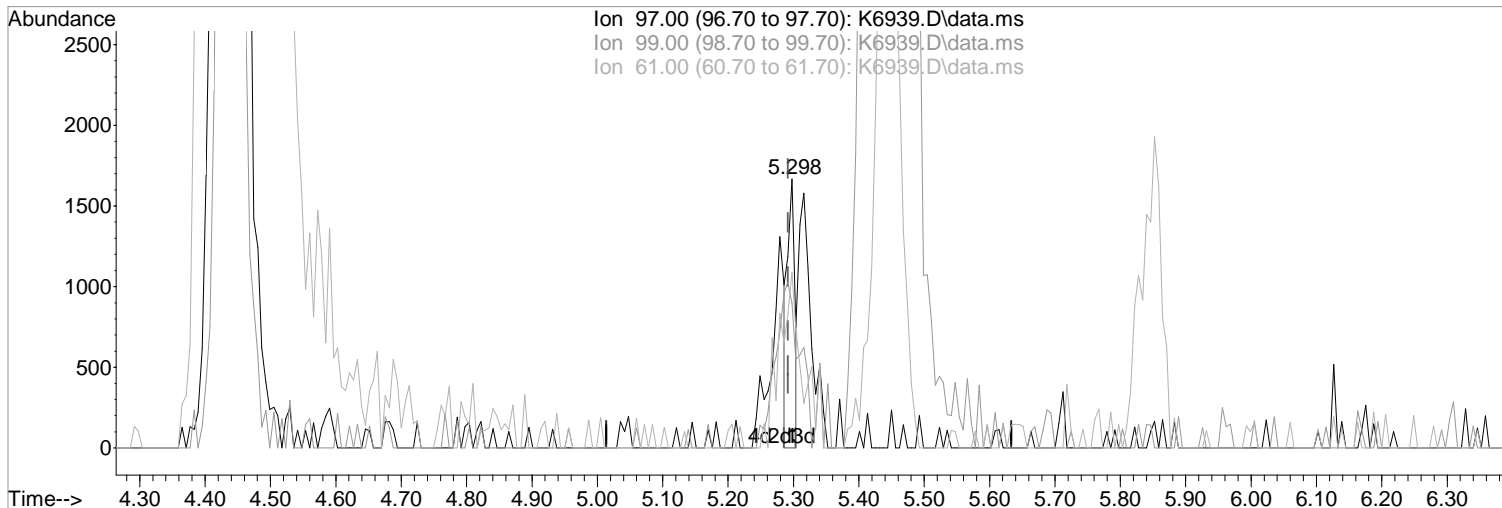
After

Split Peak

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6939.D
Acq On : 21 Sep 2021 8:11 pm
Operator : K.Ruest
Sample : R2109484-010|2.5 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 22 09:28:56 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.298min (+0.006) 0.24 ppb

response 1318

Ion	Exp%	Act%
97.00	100	100
99.00	60.30	53.87
61.00	46.20	65.39
0.00	0.00	0.00

Manual Integration:

Before

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6939.D
 Acq On : 21 Sep 2021 8:11 pm
 Operator : K.Ruest
 Sample : R2109484-010|2.5 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 24 Sample Multiplier: 1

repeat 5.0

Quant Time: Sep 22 15:24:23 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

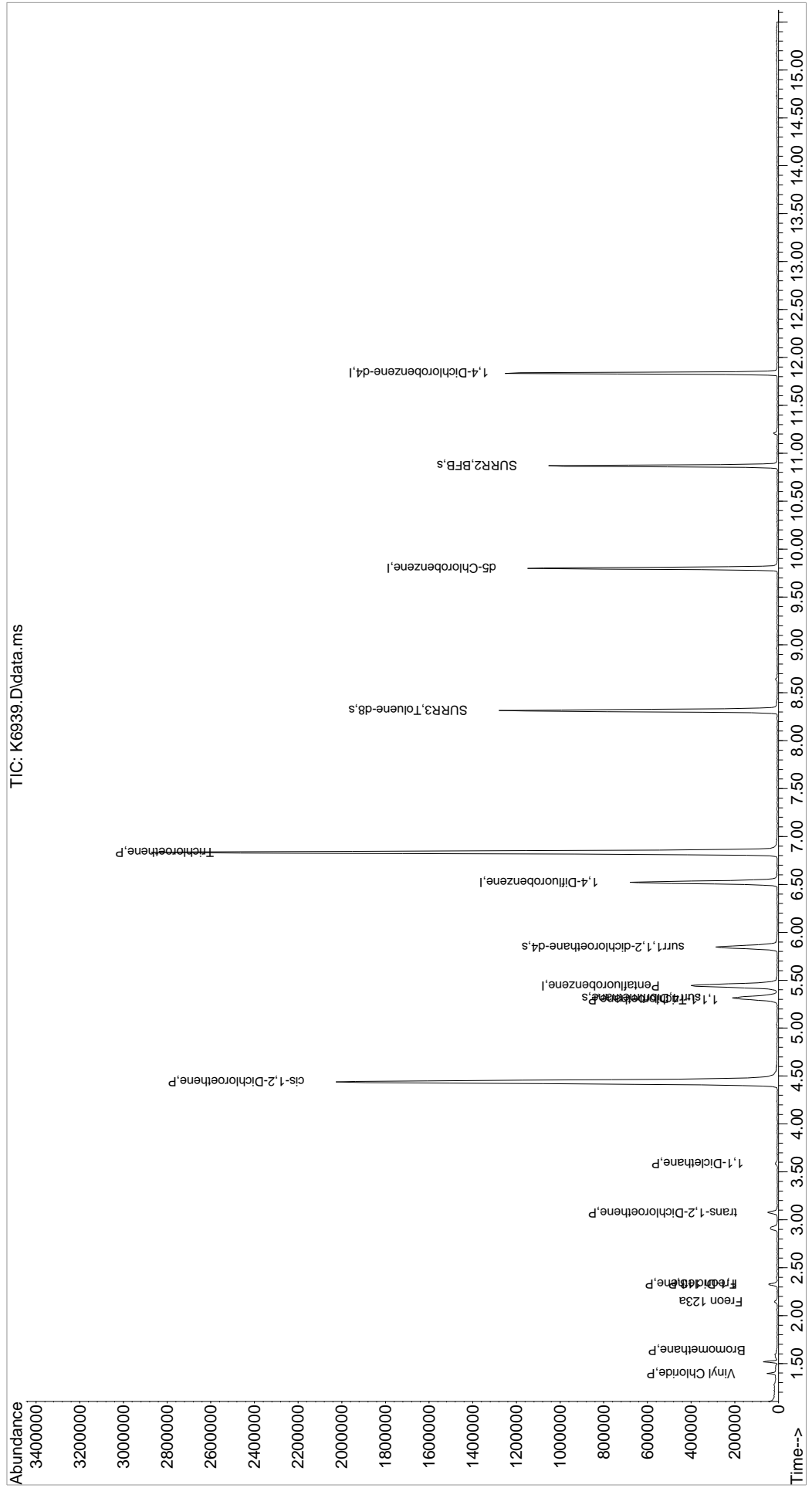
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.444	168	340421	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	579685	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	516010	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	240977	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	168672	53.45	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery =	106.90%			
48) surr1,1,2-dichloroetha...	5.846	65	245698	53.54	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	107.08%			
65) SURR3,Toluene-d8	8.315	98	793473	53.49	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	106.98%			
70) SURR2,BFB	10.870	95	306283	52.02	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	104.04%			
Target Compounds							
4) Vinyl Chloride	1.396	62	19204	4.17	ppb	99	
5) Bromomethane	1.640	94	1058	0.35	ppb	# 47	
10) Freon 123a	2.146	67	5341	1.22	ppb	91	
13) 1,1-Dicethene	2.329	96	7801	2.36	ppb	97	
14) Freon 113	2.329	101	3965	1.23	ppb	100	
15) Acetone	2.396	43	2871	Below	Cal	91	
26) trans-1,2-Dichloroethene	3.072	96	14090	3.89	ppb	94	
28) 1,1-Dicethane	3.584	63	9004	1.32	ppb	83	
34) cis-1,2-Dichloroethene	4.438	96	1184678	283.94	ppb	92	E-Over Calibration
40) Chloroform	5.029	83	2814m	Below	Cal		
41) 1,1,1-Trichloroethane	5.298	97	5221m	0.96	ppb		
54) Trichloroethene	6.834	130	997847	244.59	ppb	99	E-Over Calibration

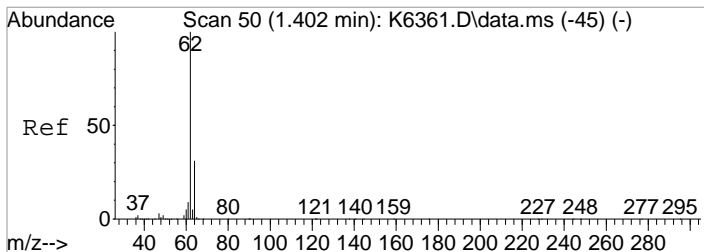
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092121\
 Data File : K6939.D
 Acq On : 21 Sep 2021 8:11 pm
 Operator : K.Ruest
 Sample : R2109484-010|2.5
 Misc : VERINA 8260 T4
 ALS Vial : 24 Sample Multiplier: 1

Inst : MSVOA-12

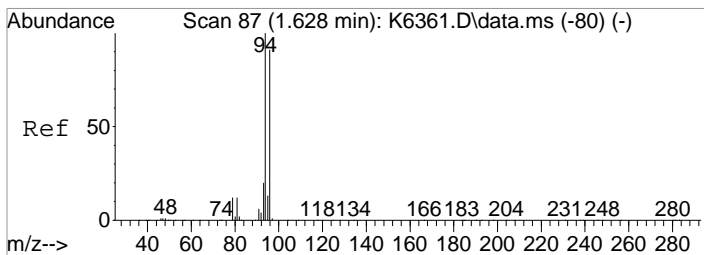
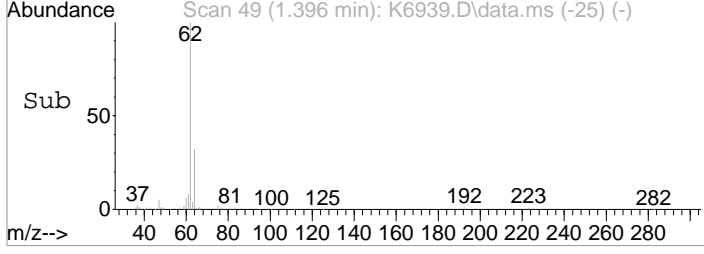
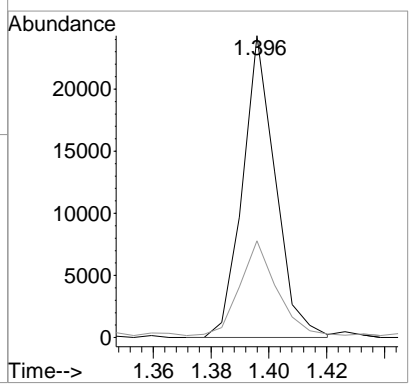
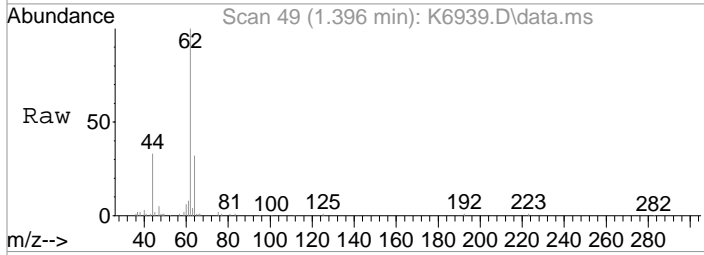
Quant Time: Sep 22 15:24:23 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





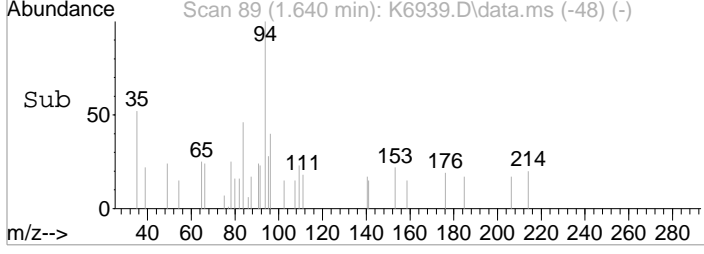
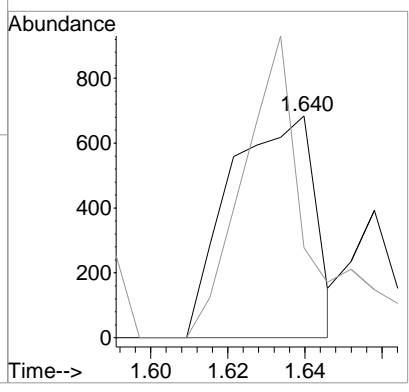
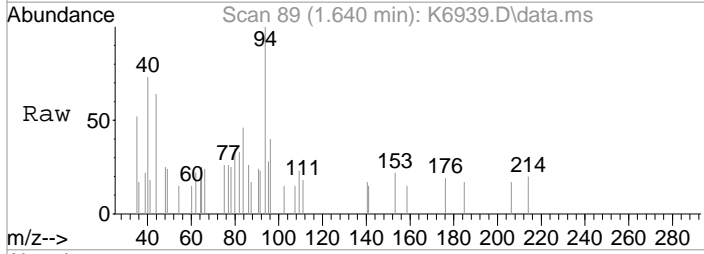
#4
 Vinyl Chloride
 Concen: 4.17 ppb
 RT: 1.396 min Scan# 49
 Delta R.T. -0.000 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

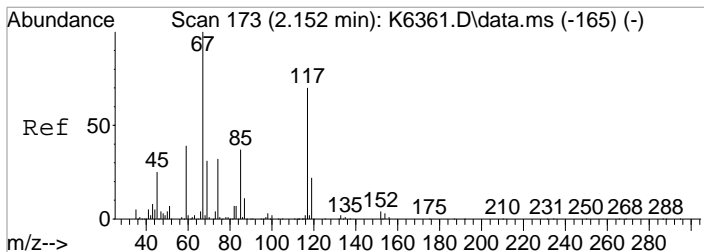
Tgt Ion	Resp	Lower	Upper
62	19204		
64	32.0	11.5	51.5



#5
 Bromomethane
 Concen: 0.35 ppb
 RT: 1.640 min Scan# 89
 Delta R.T. 0.024 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

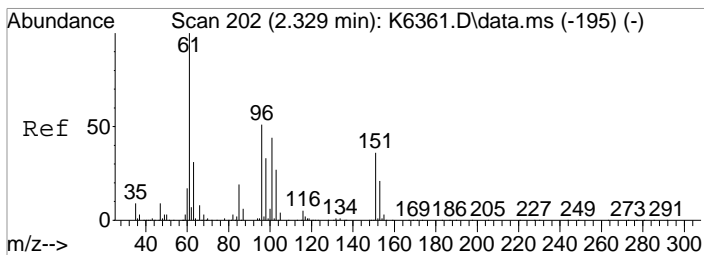
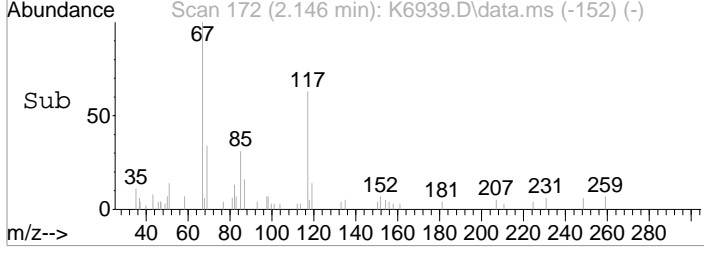
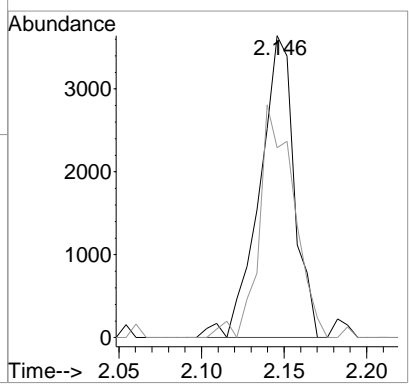
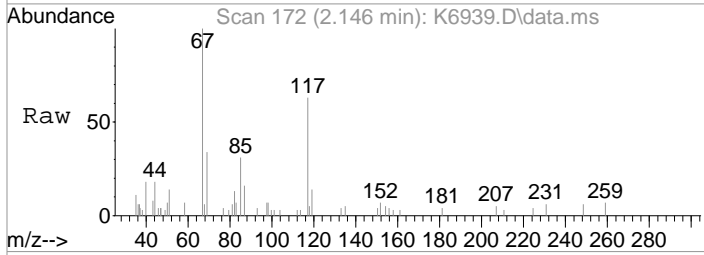
Tgt Ion	Resp	Lower	Upper
94	1058		
96	40.5	71.0	111.0#





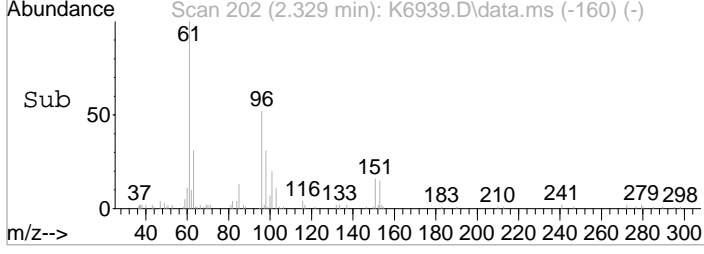
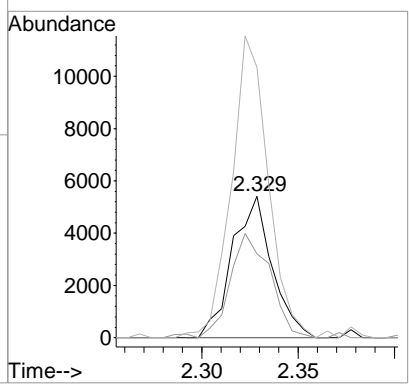
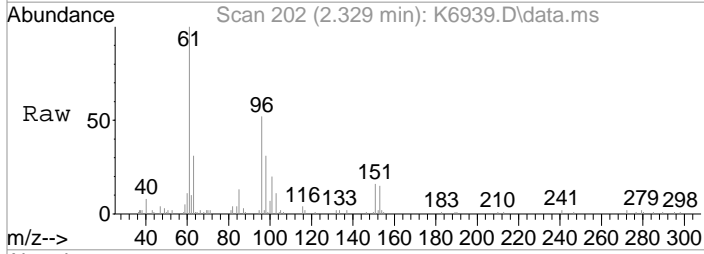
#10
 Freon 123a
 Concen: 1.22 ppb
 RT: 2.146 min Scan# 172
 Delta R.T. 0.006 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

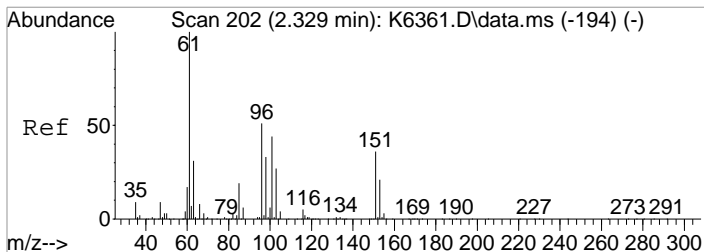
Tgt Ion	Resp	Lower	Upper
67	5341		
117	62.8	50.5	90.5



#13
 1,1-Diclcethene
 Concen: 2.36 ppb
 RT: 2.329 min Scan# 202
 Delta R.T. 0.006 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

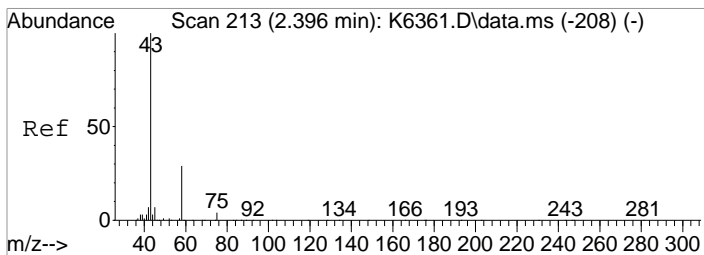
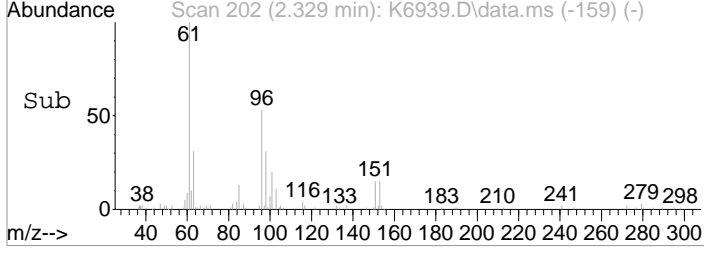
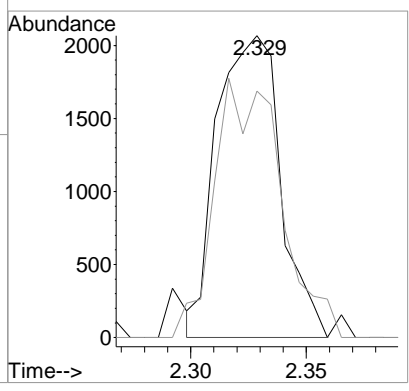
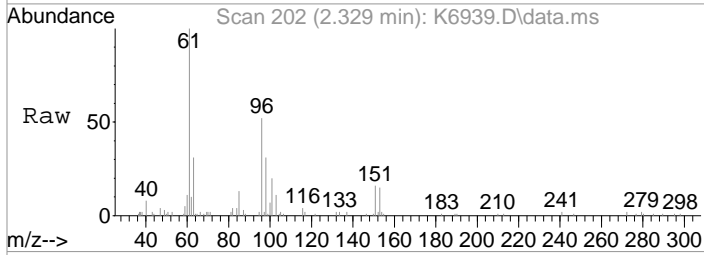
Tgt Ion	Resp	Lower	Upper
96	7801		
98	59.2	44.1	84.1
61	191.1	174.9	214.9





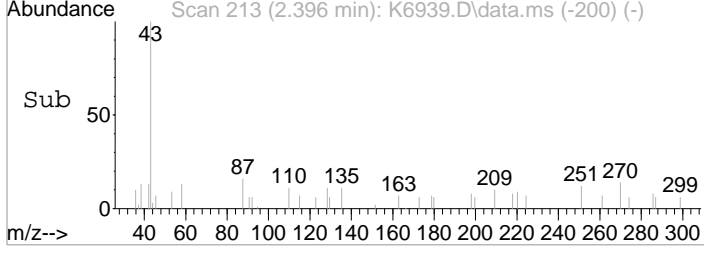
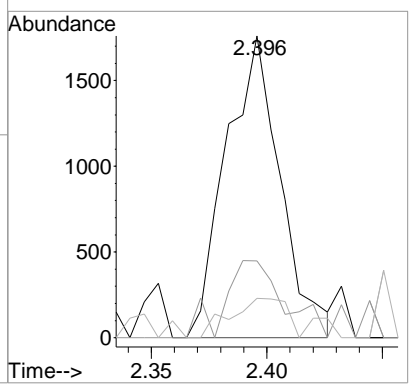
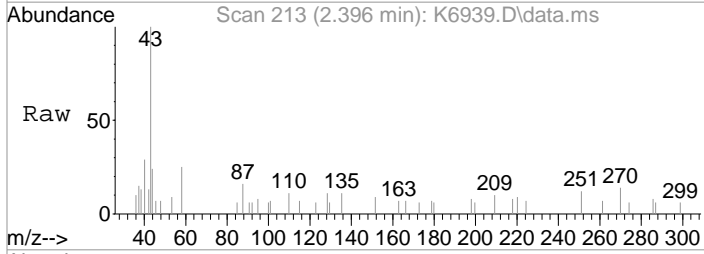
#14
 Freon 113
 Concen: 1.23 ppb
 RT: 2.329 min Scan# 202
 Delta R.T. 0.006 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

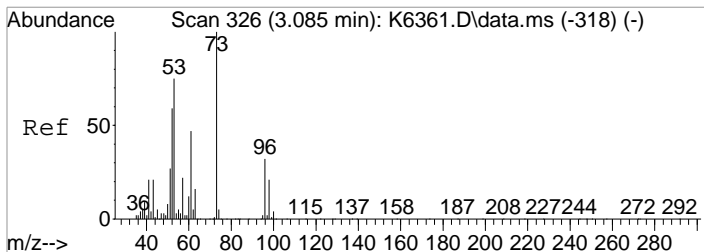
Tgt Ion	Resp	Lower	Upper
101	3965		
101	100		
151	81.6	62.0	102.0



#15
 Acetone
 Concen: Below Cal
 RT: 2.396 min Scan# 213
 Delta R.T. 0.007 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

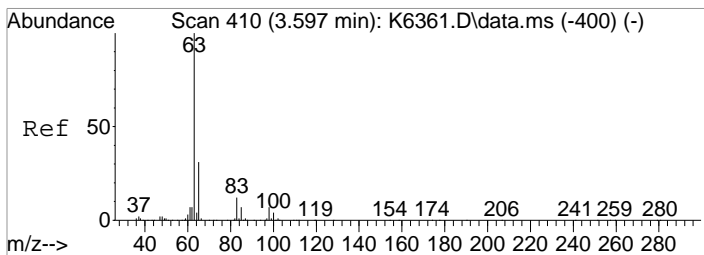
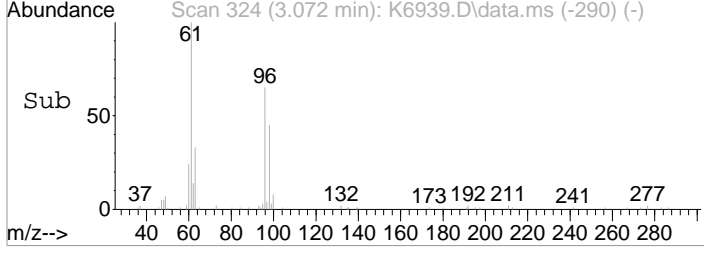
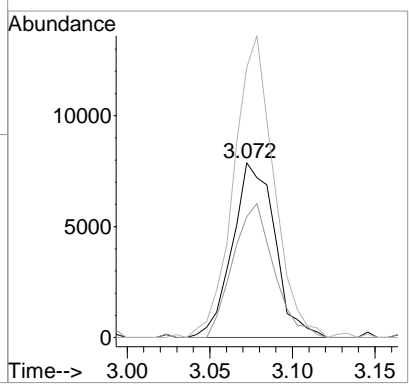
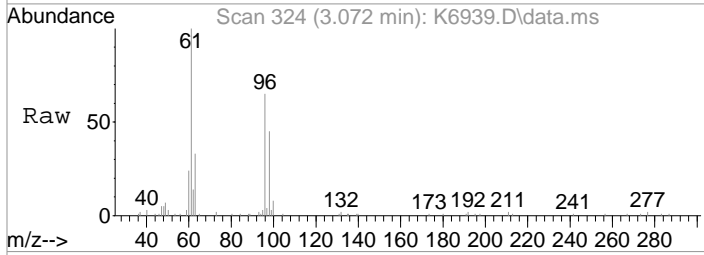
Tgt Ion	Resp	Lower	Upper
43	2871		
43	100		
58	25.4	9.6	49.6
42	13.1	0.0	27.7





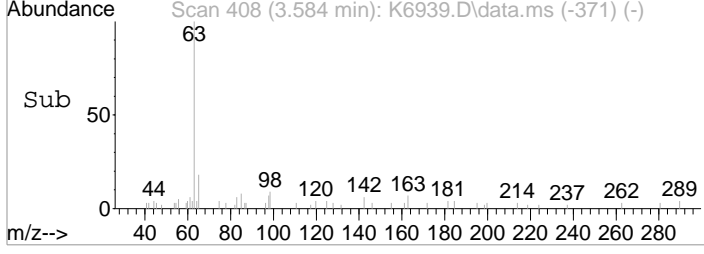
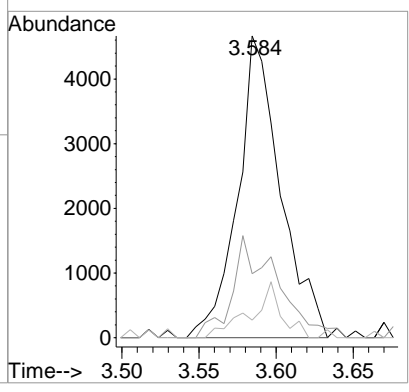
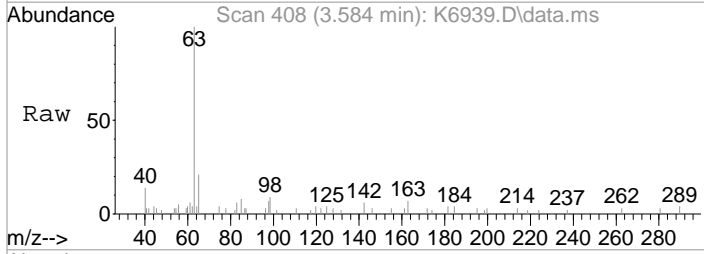
#26
 trans-1,2-Dichloroethene
 Concen: 3.89 ppb
 RT: 3.072 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

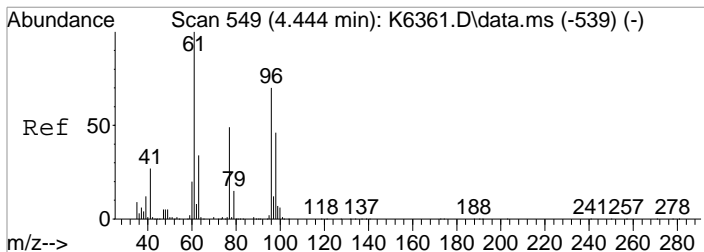
Tgt Ion	Resp	Lower	Upper
96	14090		
96	100		
98	69.1	44.1	84.1
61	154.4	127.9	167.9



#28
 1,1-Diclcethane
 Concen: 1.32 ppb
 RT: 3.584 min Scan# 408
 Delta R.T. -0.000 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

Tgt Ion	Resp	Lower	Upper
63	9004		
63	100		
65	21.2	10.8	50.8
83	5.9	0.0	32.3

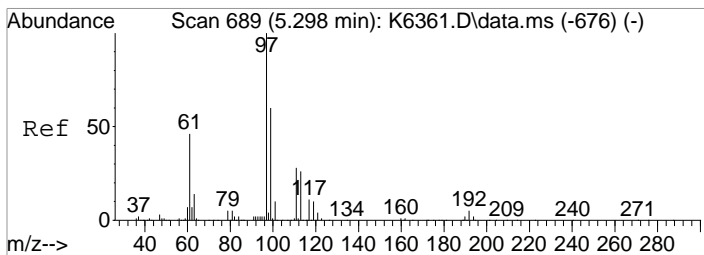
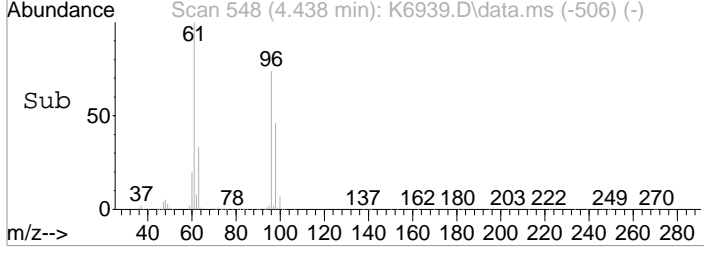
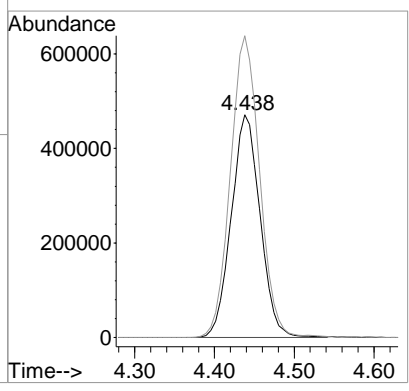
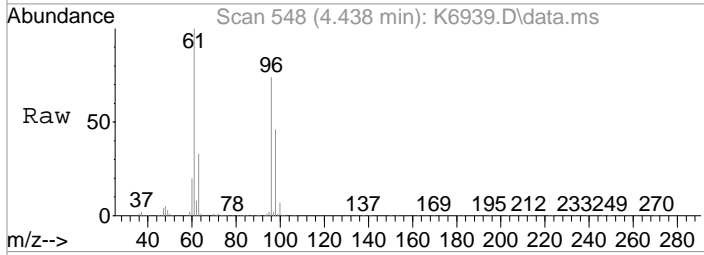




#34
 cis-1,2-Dichloroethene
 Concen: 283.94 ppb
 RT: 4.438 min Scan# 548
 Delta R.T. -0.000 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

Tgt Ion: 96 Resp: 1184678

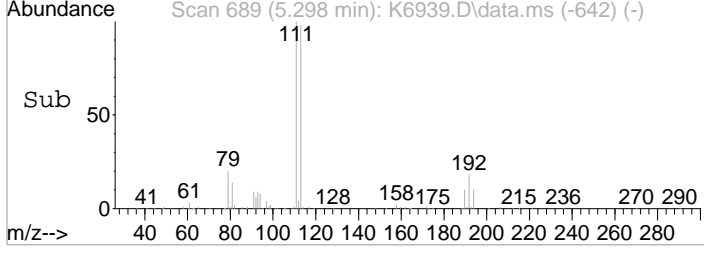
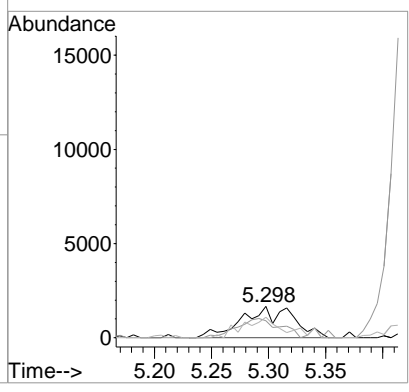
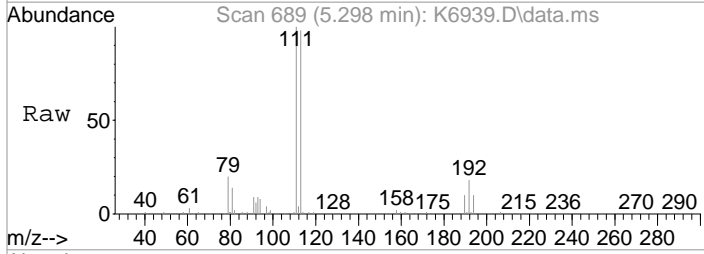
Ion	Ratio	Lower	Upper
96	100		
61	135.6	125.2	165.2

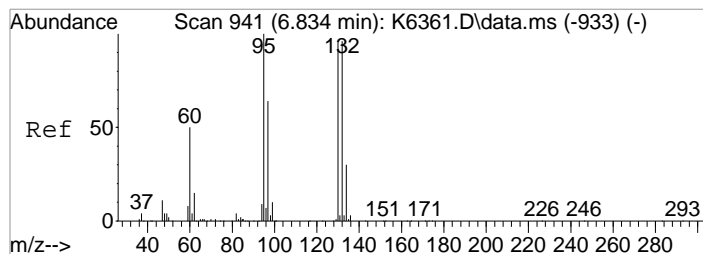


#41
 1,1,1-Trichloroethane
 Concen: 0.96 ppb m
 RT: 5.298 min Scan# 689
 Delta R.T. 0.006 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

Tgt Ion: 97 Resp: 5221

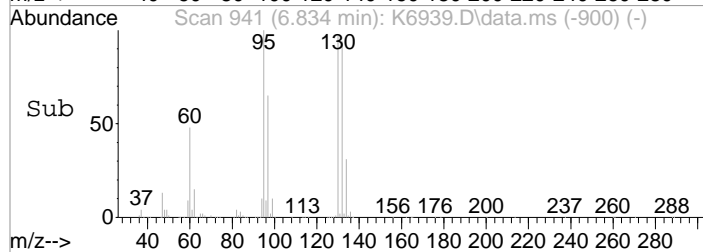
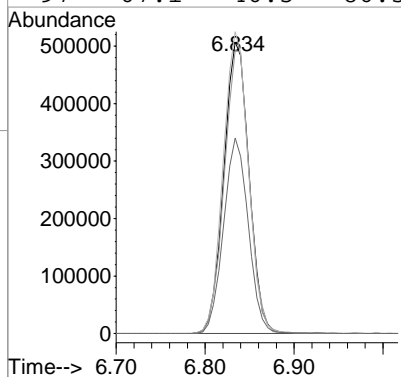
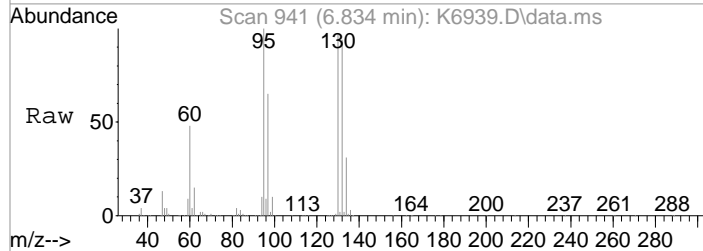
Ion	Ratio	Lower	Upper
97	100		
99	53.9	40.3	80.3
61	65.4	26.2	66.2





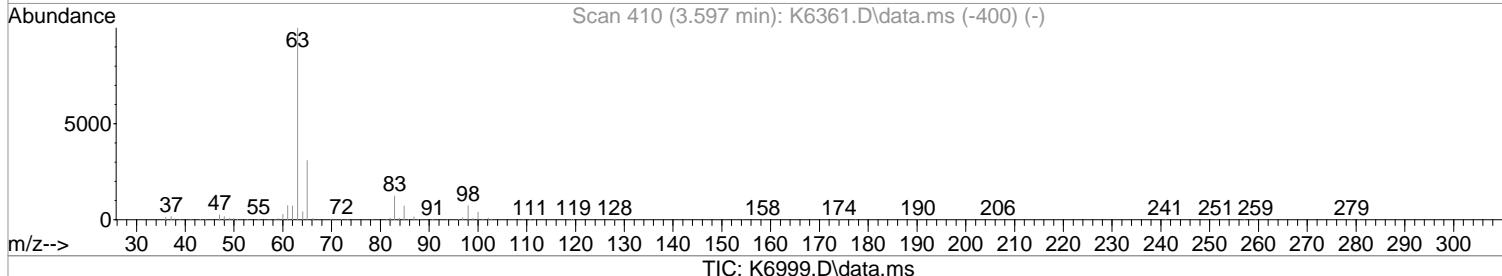
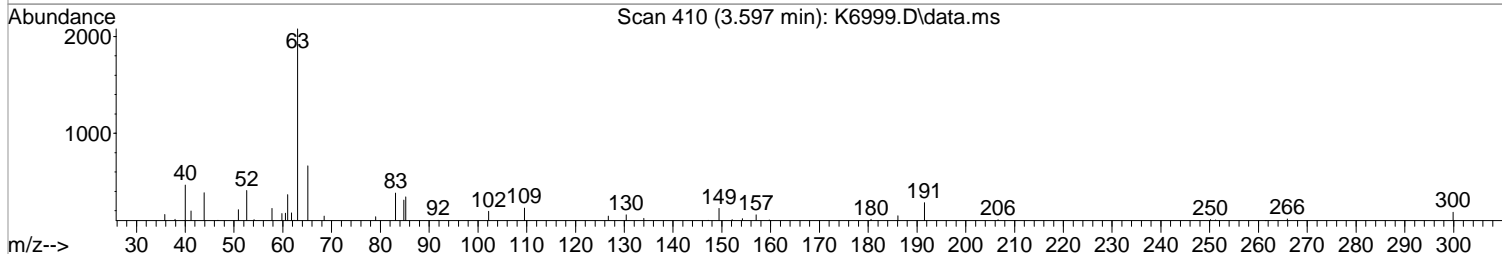
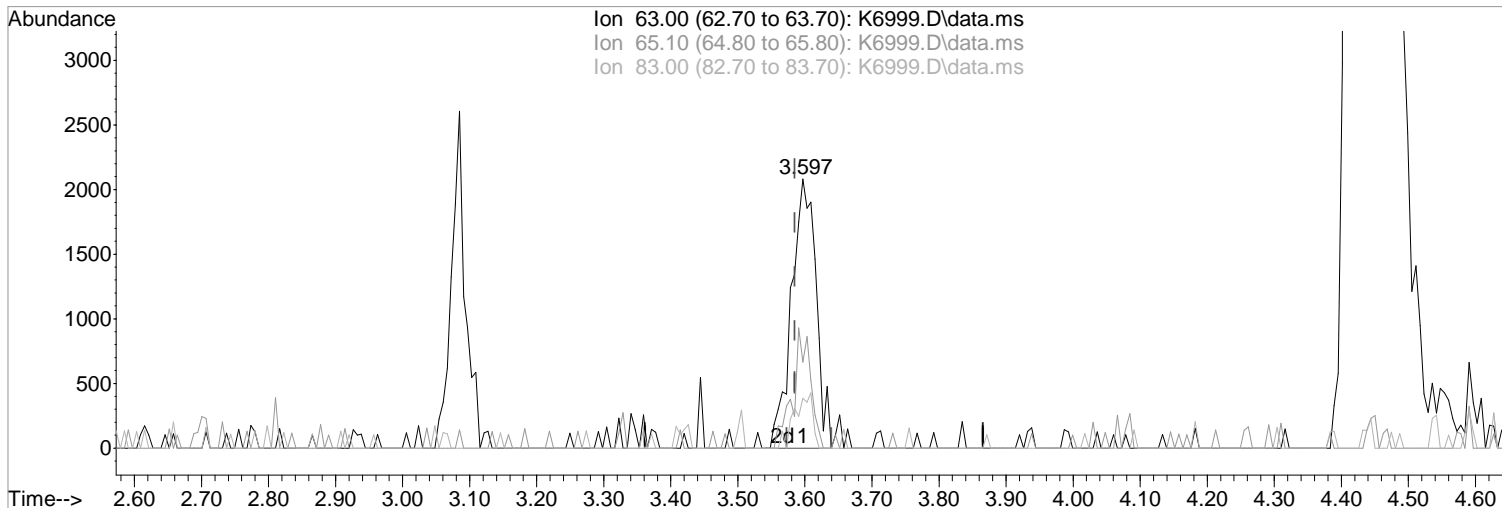
#54
 Trichloroethene
 Concen: 244.59 ppb
 RT: 6.834 min Scan# 941
 Delta R.T. -0.000 min
 Lab File: K6939.D
 Acq: 21 Sep 2021 8:11 pm

Tgt Ion	Resp	Lower	Upper
130	100		
132	97.1	79.7	119.7
95	103.6	83.8	123.8
97	67.1	46.5	86.5



Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6999.D
 Acq On : 22 Sep 2021 7:43 pm
 Operator : K.Ruest
 Sample : R2109484-010|5.0
 Misc : VERINA DOD T4
 ALS Vial : 23 Sample Multiplier: 1
 Inst : MSVOA-12

Quant Time: Sep 23 09:20:05 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration



(28) 1,1-Dicethane (P)
 3.597min (+0.012) 0.76 ppb m
 response 5278

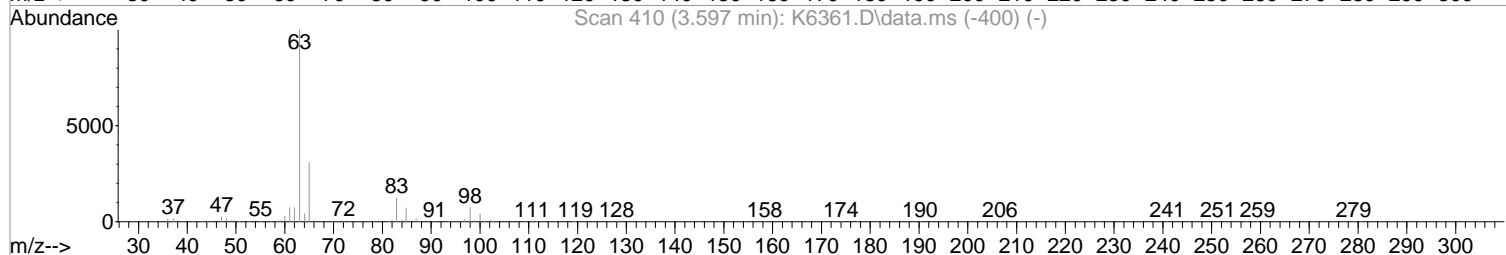
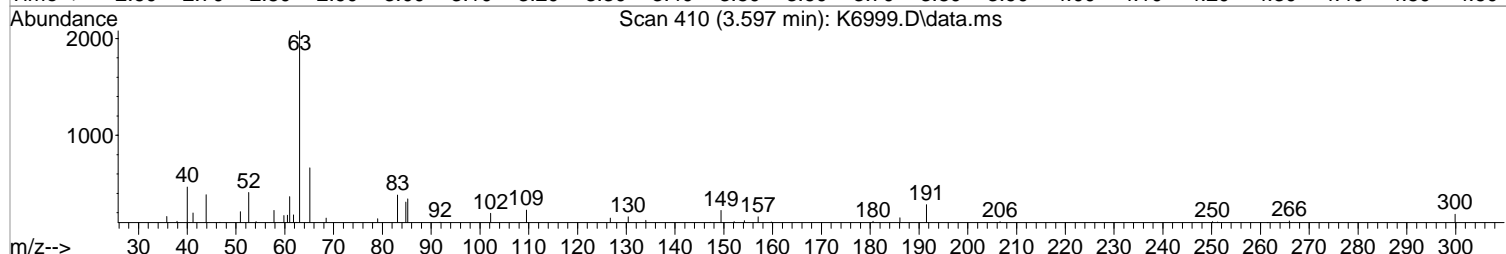
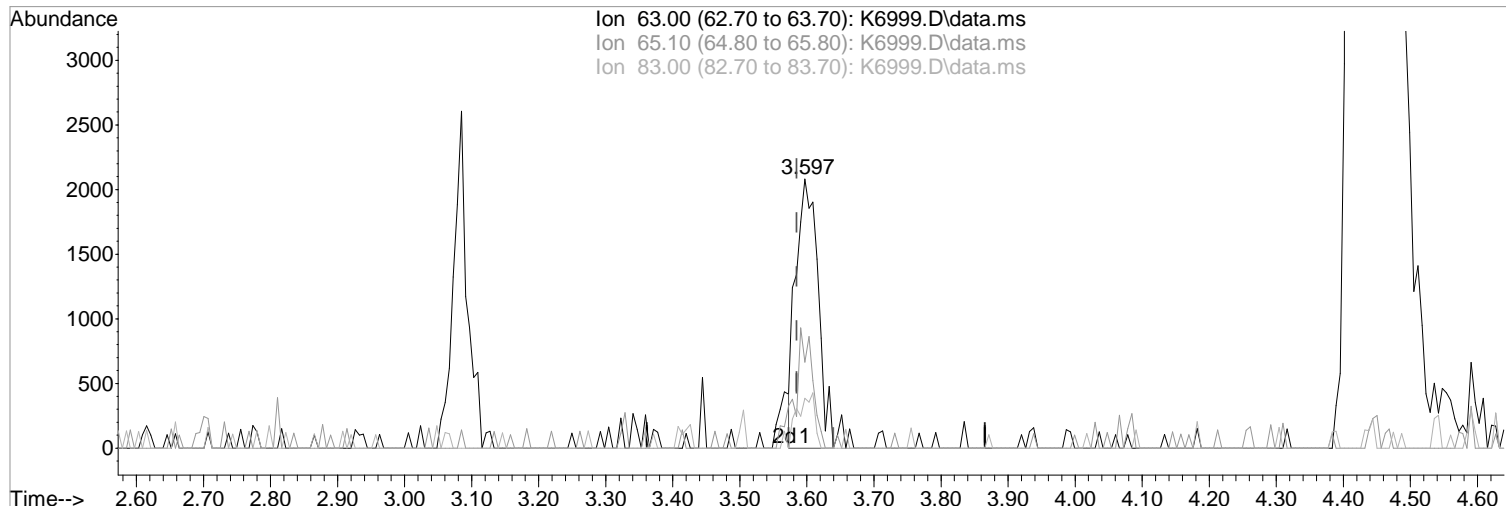
Manual Integration:
 After
 Poor integration.

Ion	Exp%	Act%
63.00	100	100
65.10	30.80	31.96
83.00	12.30	18.45
0.00	0.00	0.00

09/23/21

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
Data File : K6999.D
Acq On : 22 Sep 2021 7:43 pm
Operator : K.Ruest
Sample : R2109484-010|5.0 Inst : MSVOA-12
Misc : VERINA DOD T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 23 09:20:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(28) 1,1-Dicethane (P)
3.597min (+0.012) 0.69 ppb
response 4790

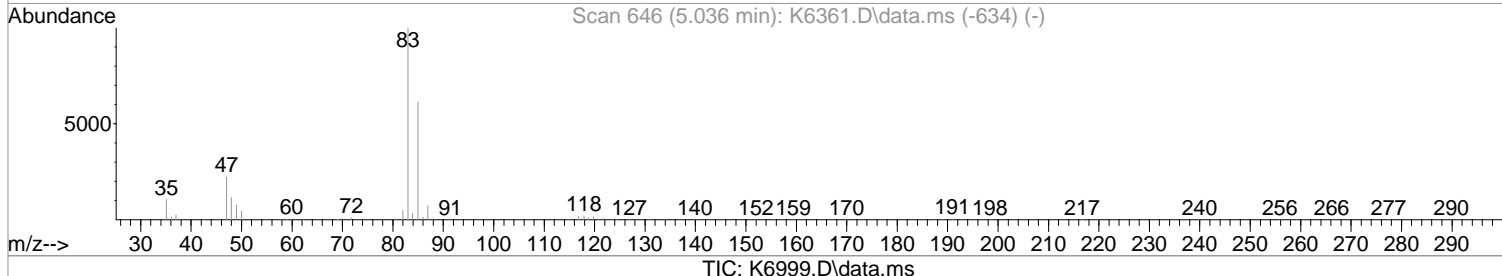
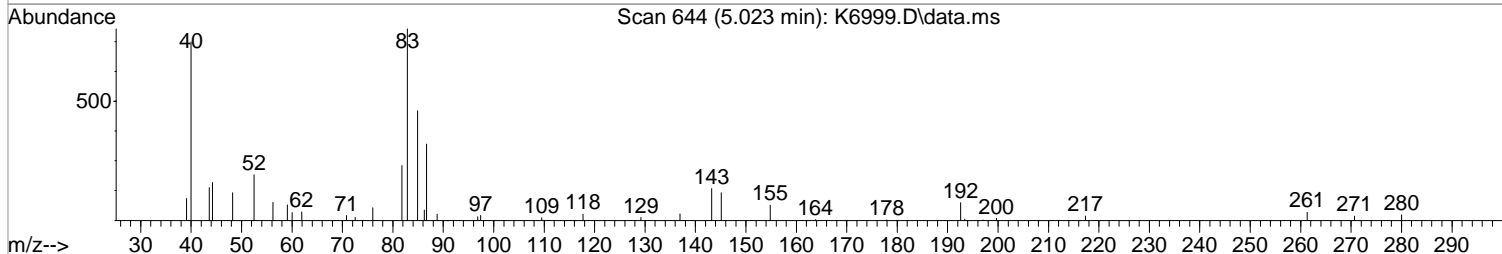
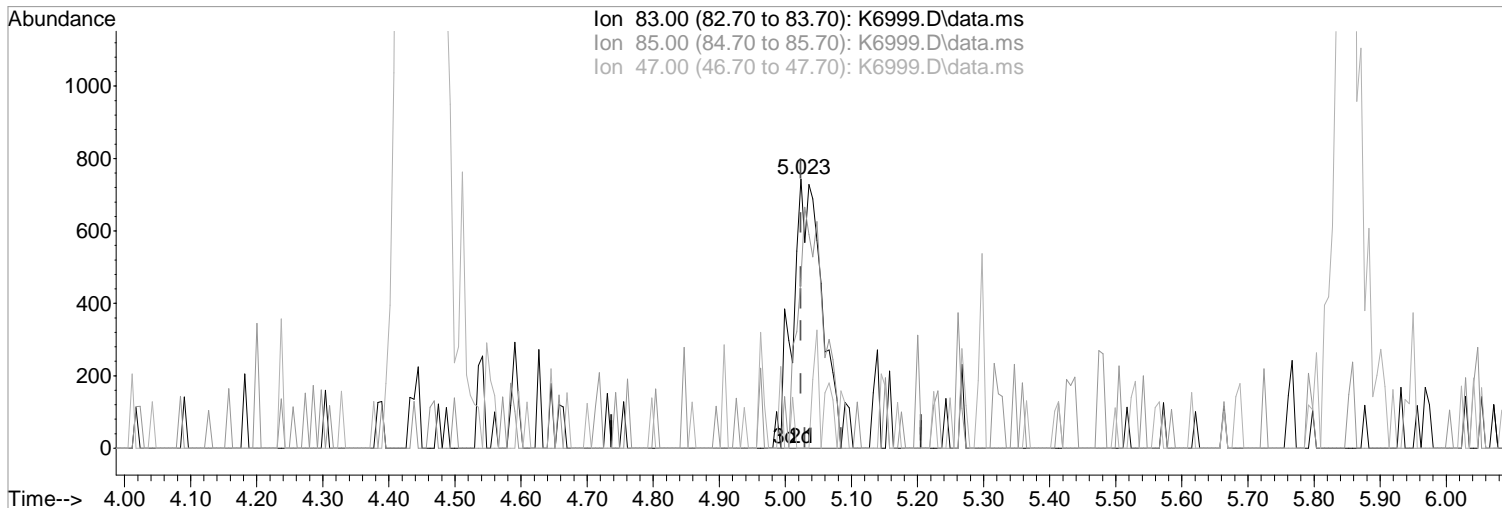
Manual Integration:
Before

Ion	Exp%	Act%
63.00	100	100
65.10	30.80	31.96
83.00	12.30	18.45
0.00	0.00	0.00

09/23/21

Data Path : I:\ACQUDATA\msvoal2\Data\092221\
Data File : K6999.D
Acq On : 22 Sep 2021 7:43 pm
Operator : K.Ruest
Sample : R2109484-010|5.0 Inst : MSVOA-12
Misc : VERINA DOD T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 23 09:20:05 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(40) Chloroform (P)

5.023min (+0.000) -0.16 ppb m

response 2266

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	62.99
47.00	22.10	0.00#
0.00	0.00	0.00

Manual Integration:

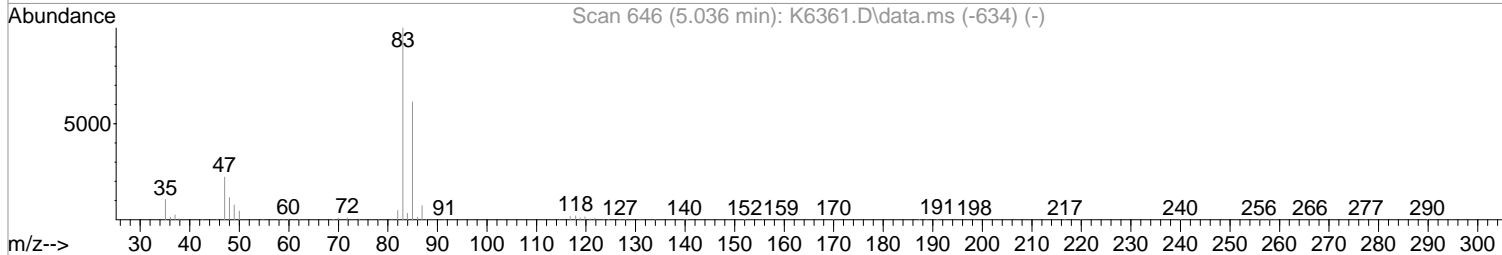
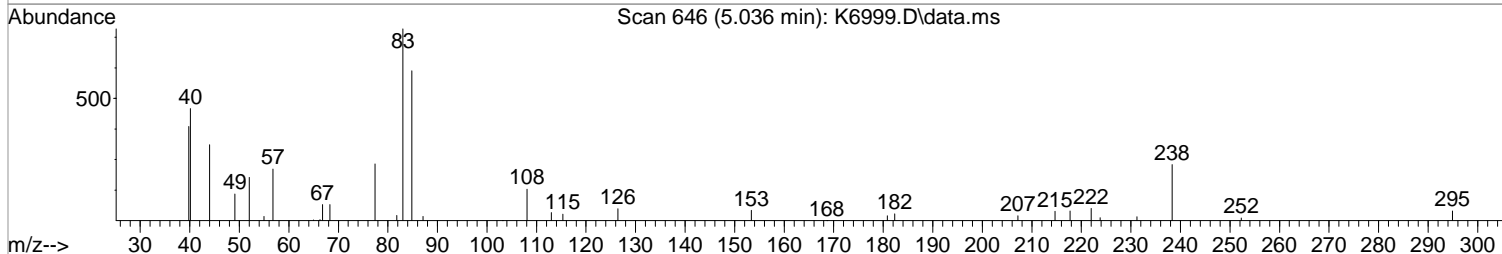
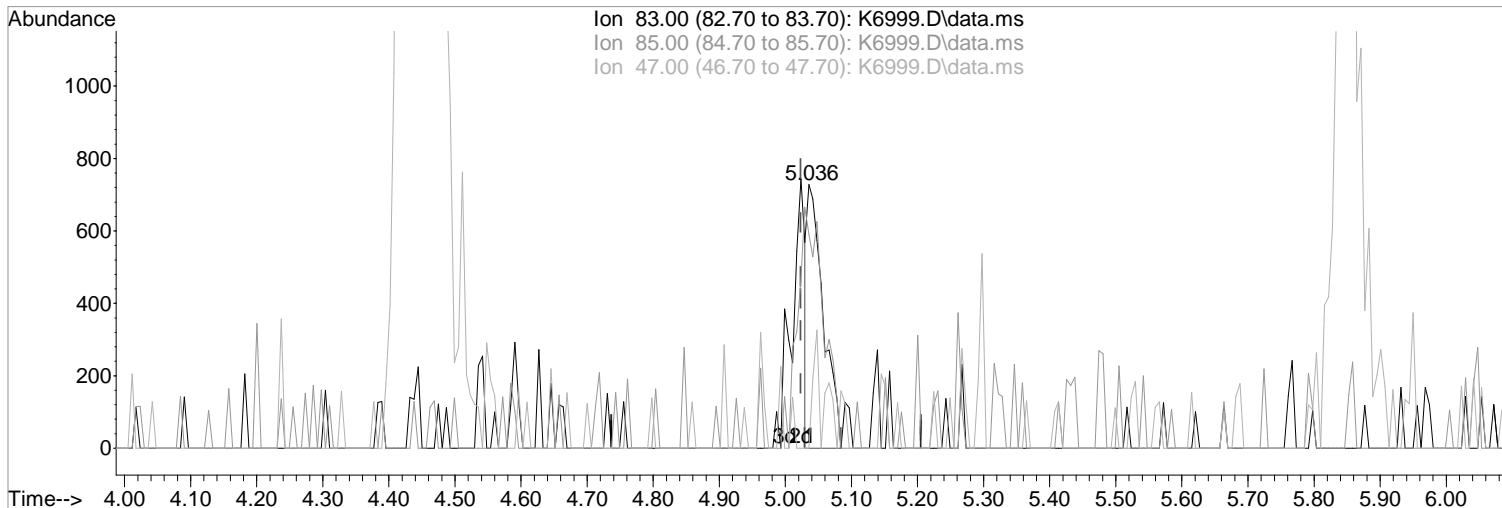
After

Split Peak

09/23/21

Data Path : I:\ACQUDATA\msvoal2\Data\092221\
Data File : K6999.D
Acq On : 22 Sep 2021 7:43 pm
Operator : K.Ruest
Sample : R2109484-010|5.0 Inst : MSVOA-12
Misc : VERINA DOD T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 23 09:20:05 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(40) Chloroform (P)

5.036min (+0.013) -0.32 ppb

response 1215

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	81.04
47.00	22.10	0.00#
0.00	0.00	0.00

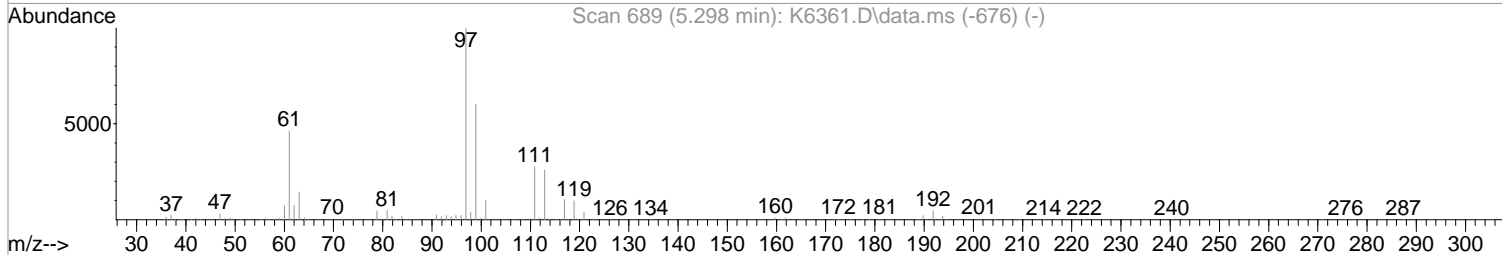
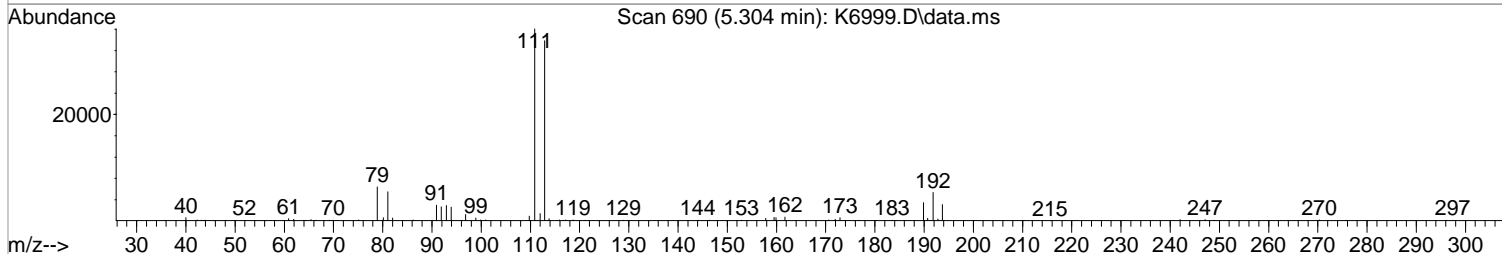
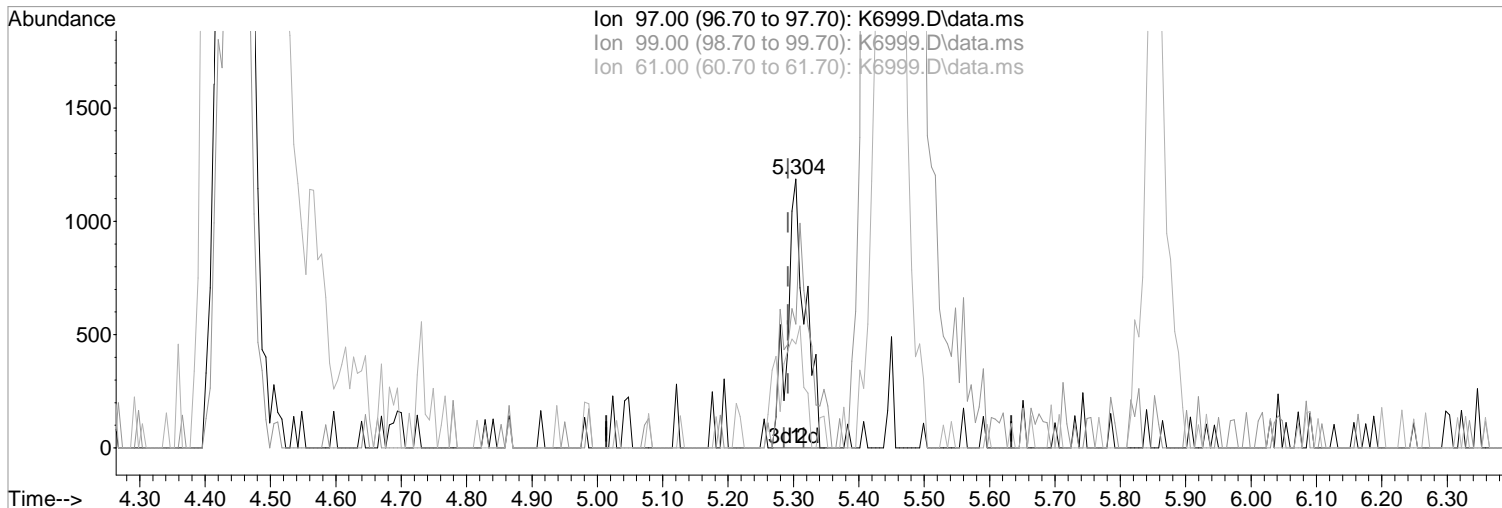
Manual Integration:

Before

09/23/21

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
Data File : K6999.D
Acq On : 22 Sep 2021 7:43 pm
Operator : K.Ruest
Sample : R2109484-010|5.0 Inst : MSVOA-12
Misc : VERINA DOD T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 23 09:20:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.304min (+0.012) 0.41 ppb m
response 2297

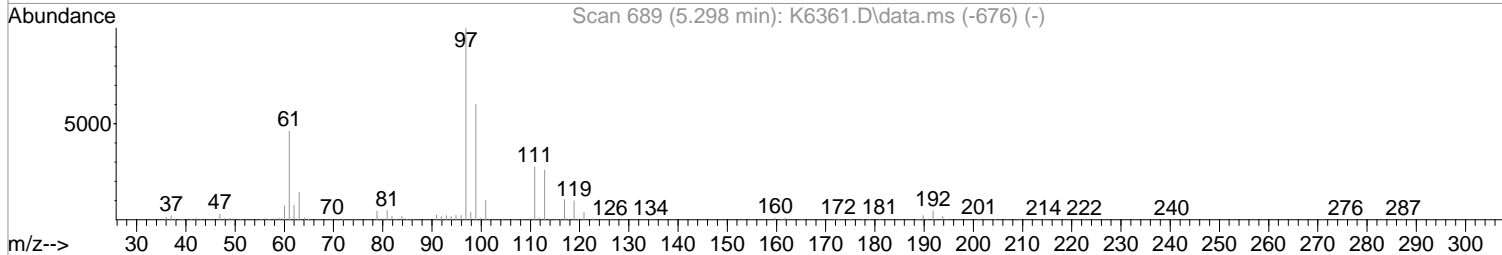
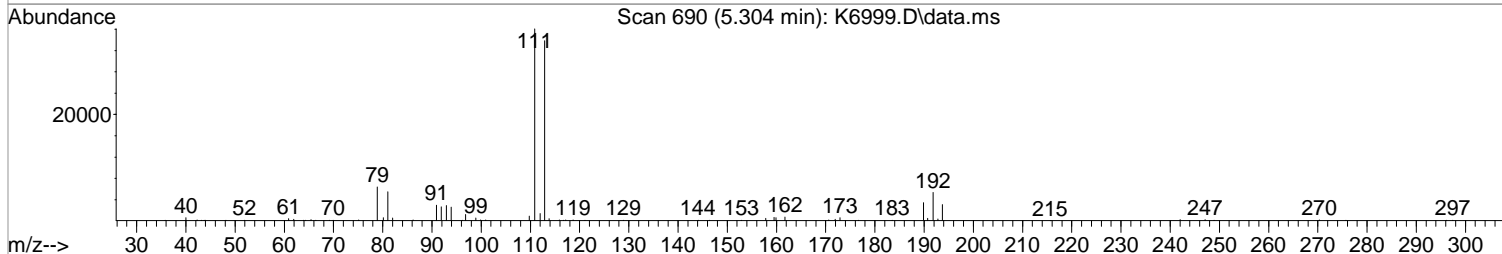
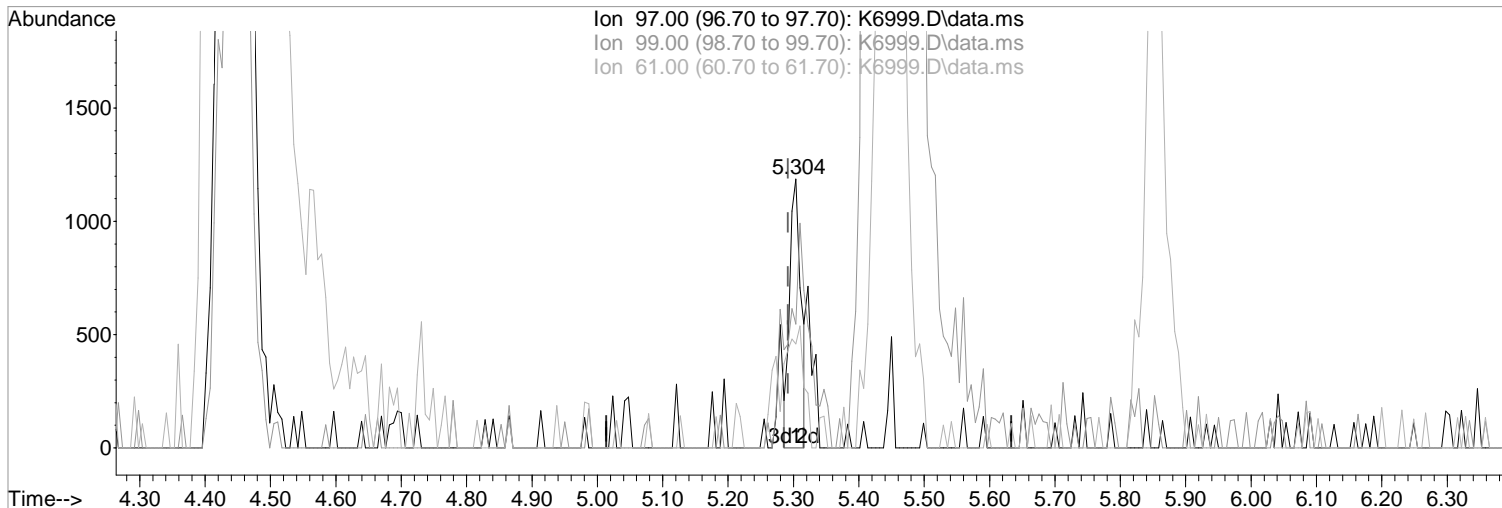
Ion	Exp%	Act%
97.00	100	100
99.00	60.30	46.08
61.00	46.20	38.67
0.00	0.00	0.00

Manual Integration:

After
Split Peak
09/23/21

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
Data File : K6999.D
Acq On : 22 Sep 2021 7:43 pm
Operator : K.Ruest
Sample : R2109484-010|5.0 Inst : MSVOA-12
Misc : VERINA DOD T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 23 09:20:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

Manual Integration:

5.304min (+0.012) 0.26 ppb

Before

response 1441

Ion	Exp%	Act%
97.00	100	100
99.00	60.30	46.08
61.00	46.20	38.67
0.00	0.00	0.00

09/23/21

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6999.D
 Acq On : 22 Sep 2021 7:43 pm
 Operator : K.Ruest
 Sample : R2109484-010|5.0 Inst : MSVOA-12
 Misc : VERINA DOD T4
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 23 12:03:33 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

DL

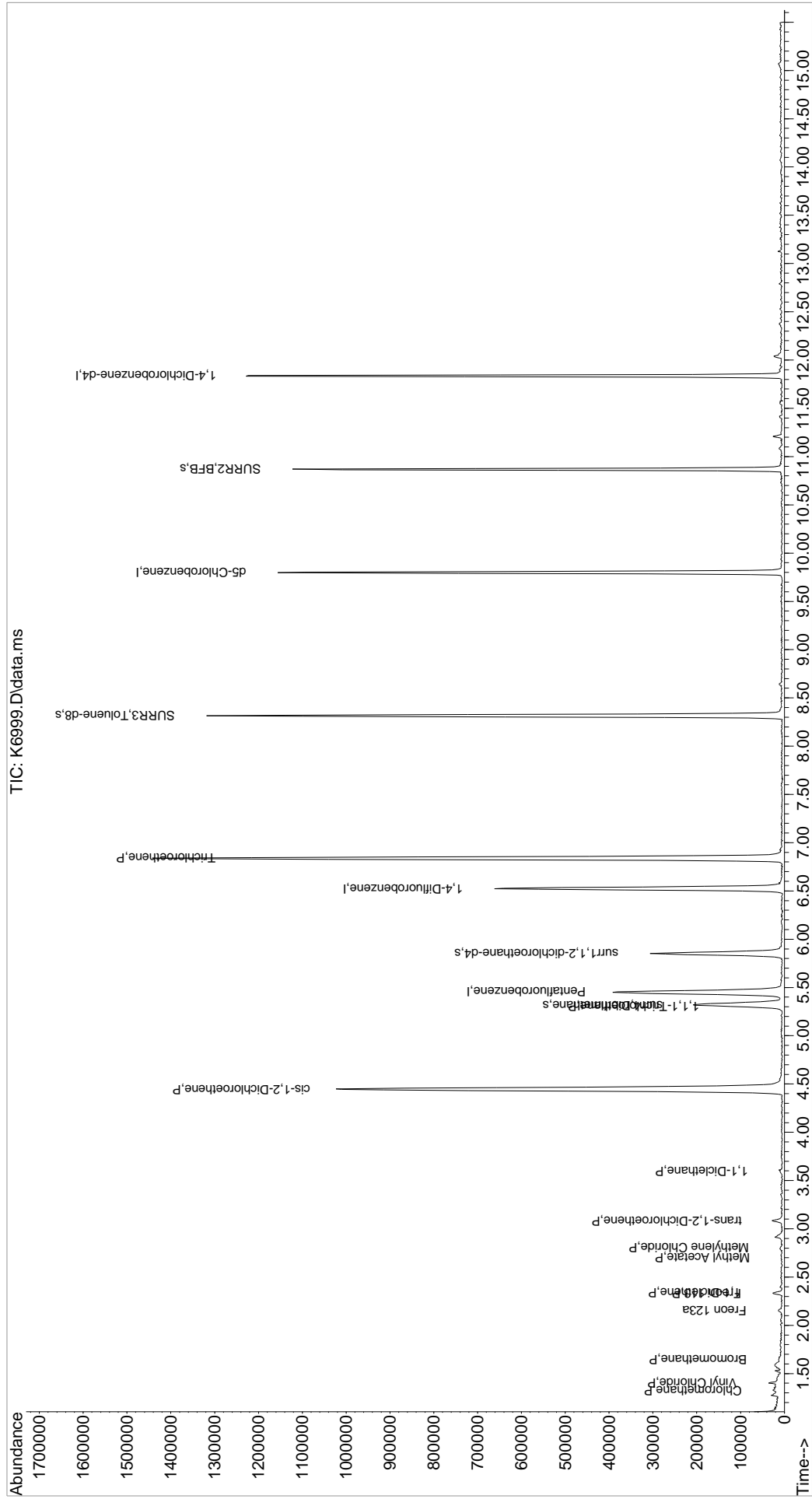
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	345916	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.523	114	568435	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	513543	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	237394	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	165374	53.44	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery = 106.88%			
48) surr1,1,2-dichloroetha...	5.852	65	251586	55.91	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery = 111.82%			
65) SURR3,Toluene-d8	8.315	98	814179	55.97	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery = 111.94%			
70) SURR2,BFB	10.870	95	315674	54.67	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery = 109.34%			
Target Compounds						
3) Chloromethane	1.323	50	1077	0.27	ppb	Qvalue 91
4) Vinyl Chloride	1.402	62	9485	2.03	ppb	89
5) Bromomethane	1.646	94	1079	0.35	ppb	95
10) Freon 123a	2.152	67	3288	0.74	ppb	78
13) 1,1-Dicethene	2.335	96	4422	1.31	ppb	# 88
14) Freon 113	2.329	101	1443	0.44	ppb	88
21) Methyl Acetate	2.701	43	906	0.21	ppb	87
22) Methylene Chloride	2.804	84	2276	0.57	ppb	# 60
26) trans-1,2-Dichloroethene	3.079	96	6888	1.87	ppb	92
28) 1,1-Dicethene	3.597	63	5278m	0.76	ppb	
34) cis-1,2-Dichloroethene	4.444	96	592235	139.69	ppb	96
40) Chloroform	5.023	83	2266m	Below Cal		
41) 1,1,1-Trichloroethane	5.304	97	2297m	0.41	ppb	
54) Trichloroethene	6.840	130	503392	125.83	ppb	100

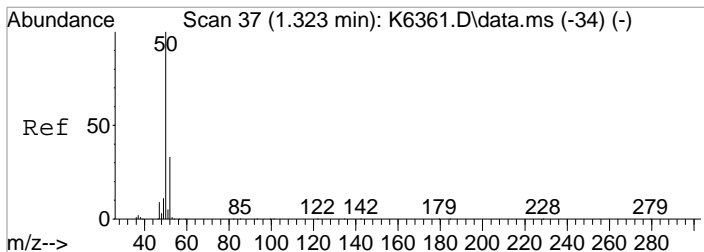
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092221\
 Data File : K6999.D
 Acq On : 22 Sep 2021 7:43 pm
 Operator : K.Ruest
 Sample : R2109484-010|5.0
 Misc : VERINA DOD T4
 ALS Vial : 23 Sample Multiplier: 1

Inst : MSVOA-12

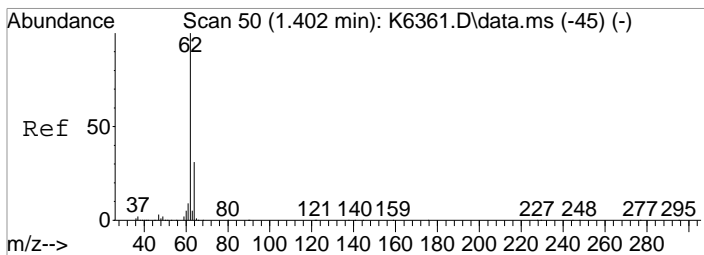
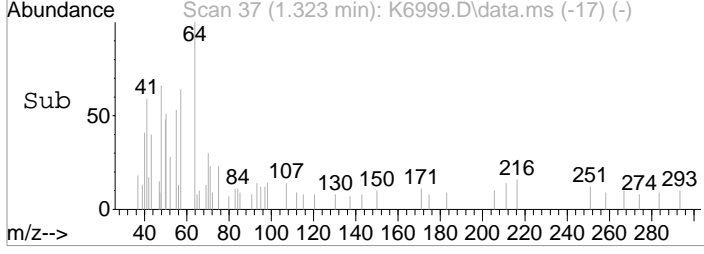
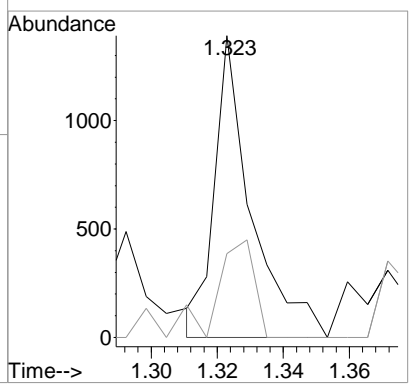
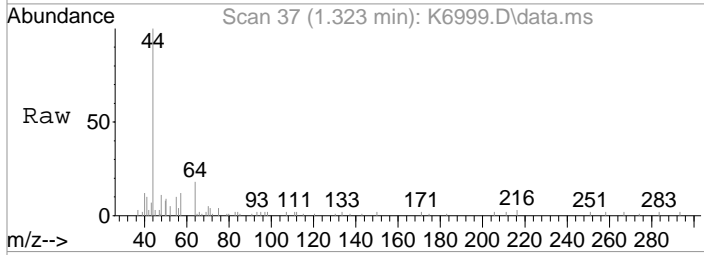
Quant Time: Sep 23 12:03:33 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





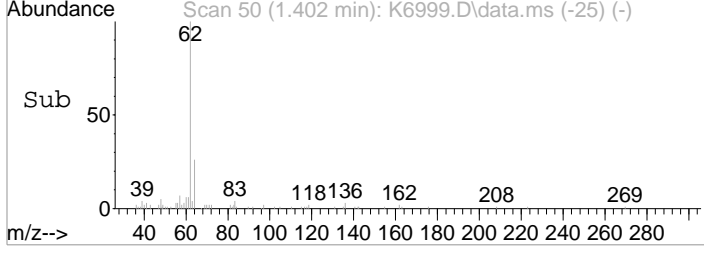
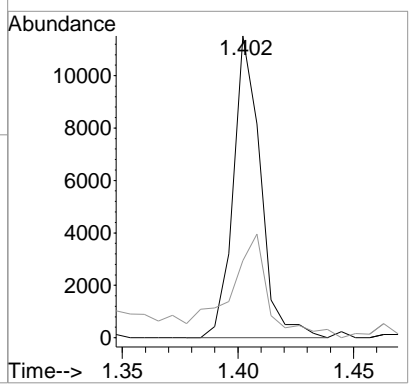
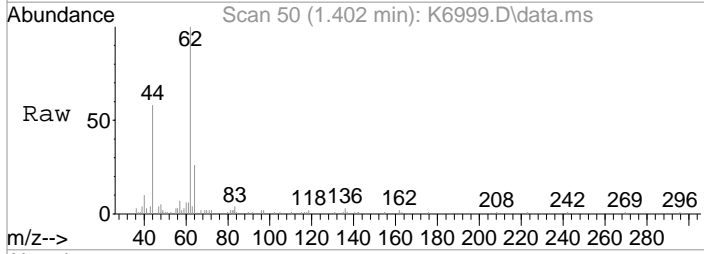
#3
 Chloromethane
 Concen: 0.27 ppb
 RT: 1.323 min Scan# 37
 Delta R.T. 0.006 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

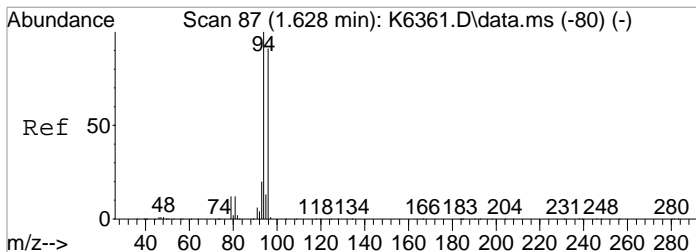
Tgt Ion	Resp	Lower	Upper
50	1077		
52	27.7	12.7	52.7



#4
 Vinyl Chloride
 Concen: 2.03 ppb
 RT: 1.402 min Scan# 50
 Delta R.T. 0.006 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

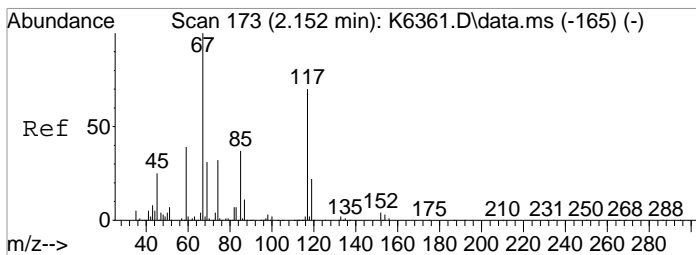
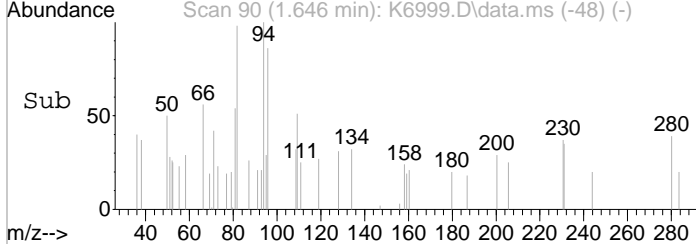
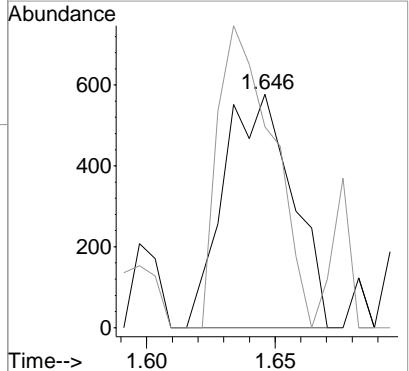
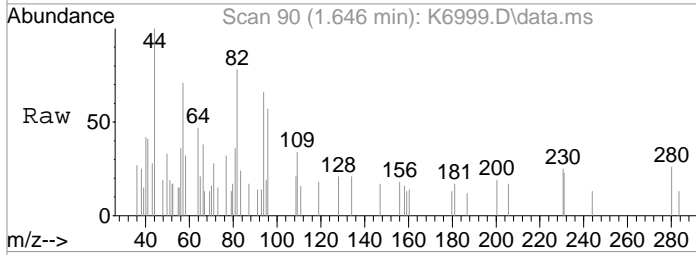
Tgt Ion	Resp	Lower	Upper
62	9485		
64	25.5	11.5	51.5





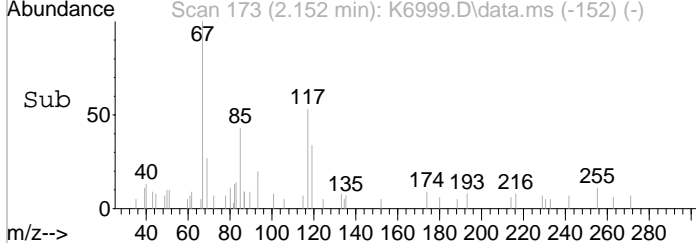
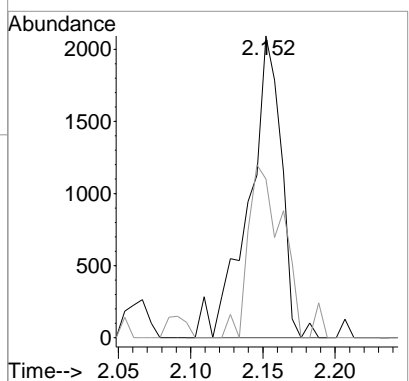
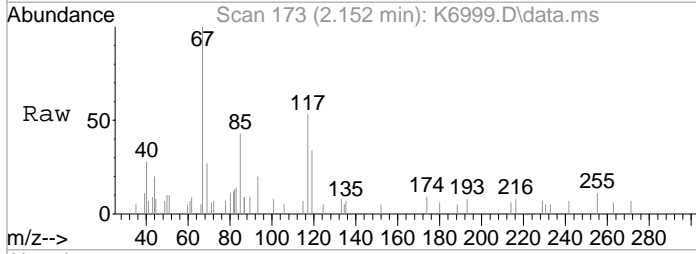
#5
 Bromomethane
 Concen: 0.35 ppb
 RT: 1.646 min Scan# 90
 Delta R.T. 0.030 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

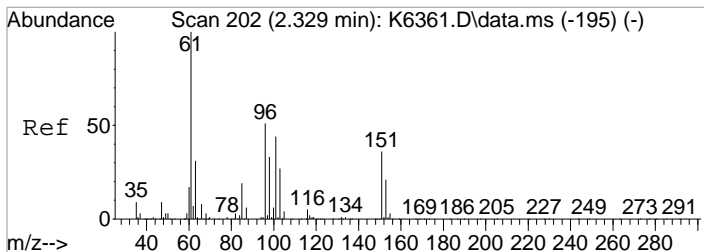
Tgt Ion	Resp	Lower	Upper
94	1079		
94	100		
96	86.1	71.0	111.0



#10
 Freon 123a
 Concen: 0.74 ppb
 RT: 2.152 min Scan# 173
 Delta R.T. 0.012 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

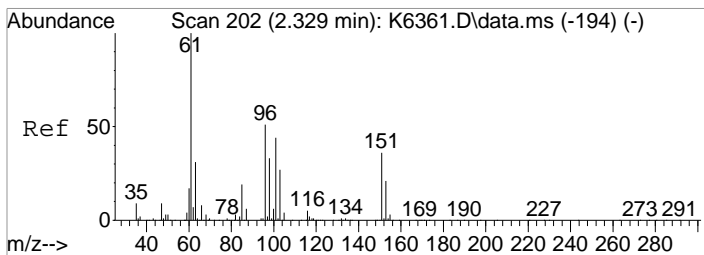
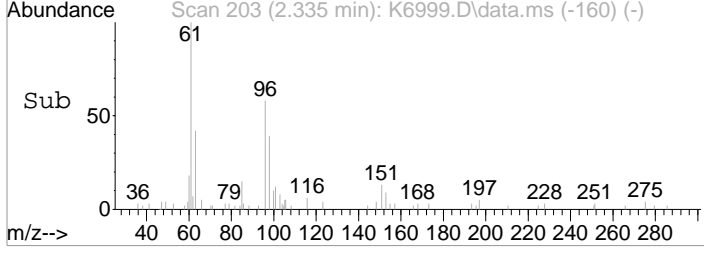
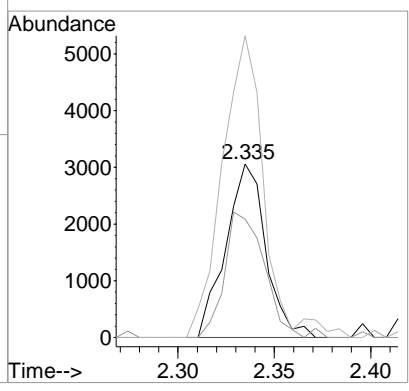
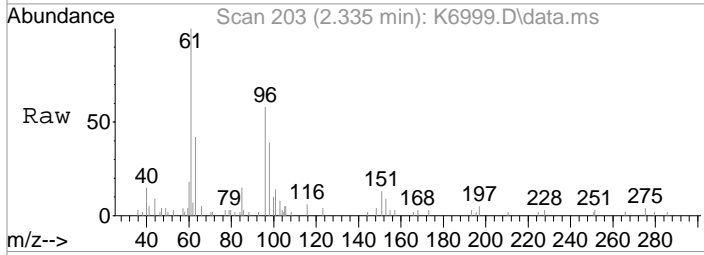
Tgt Ion	Resp	Lower	Upper
67	3288		
67	100		
117	52.6	50.5	90.5





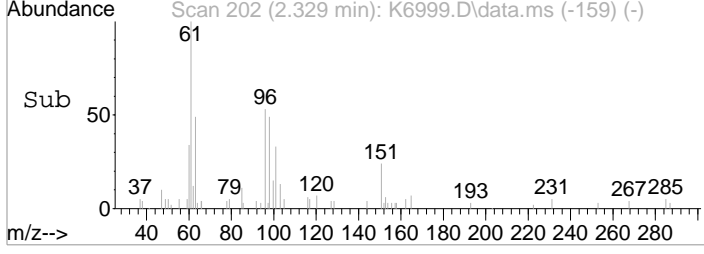
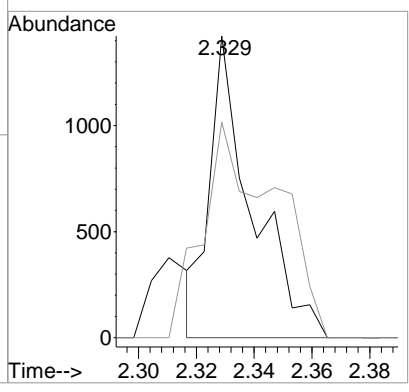
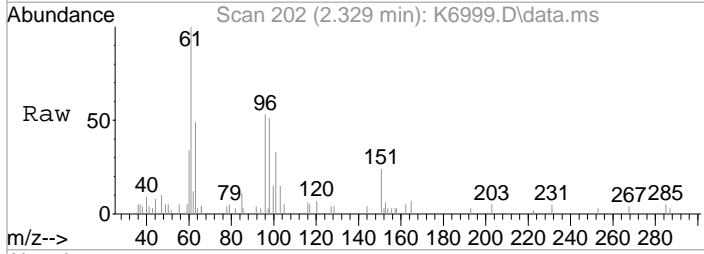
#13
 1,1-Dicloroethene
 Concen: 1.31 ppb
 RT: 2.335 min Scan# 203
 Delta R.T. 0.012 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

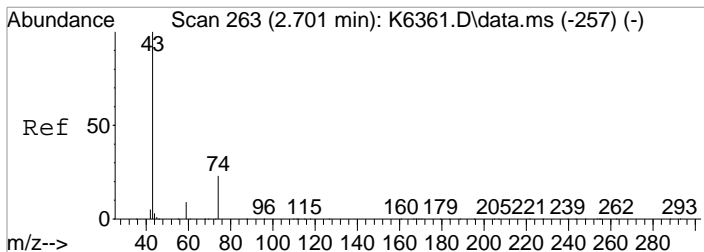
Tgt Ion	Resp	Lower	Upper
96	4422		
96	100		
98	68.1	44.1	84.1
61	173.9	174.9	214.9#



#14
 Freon 113
 Concen: 0.44 ppb
 RT: 2.329 min Scan# 202
 Delta R.T. 0.006 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

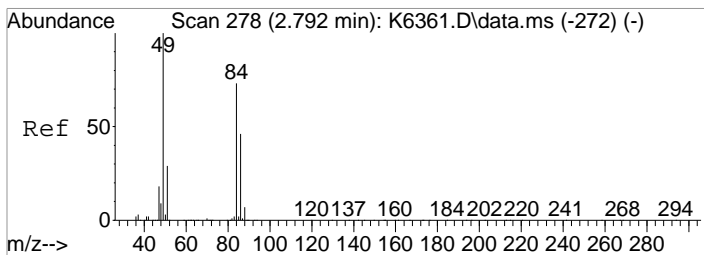
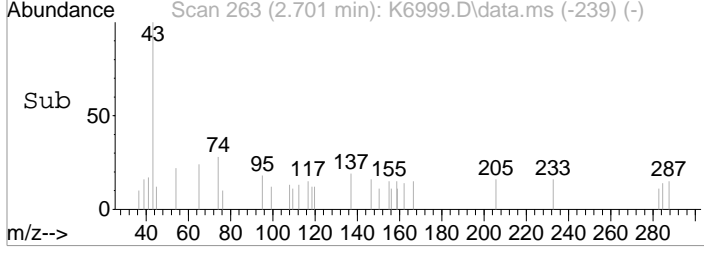
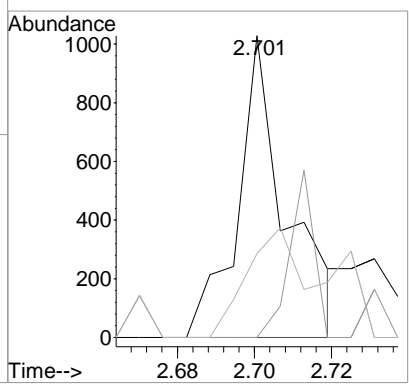
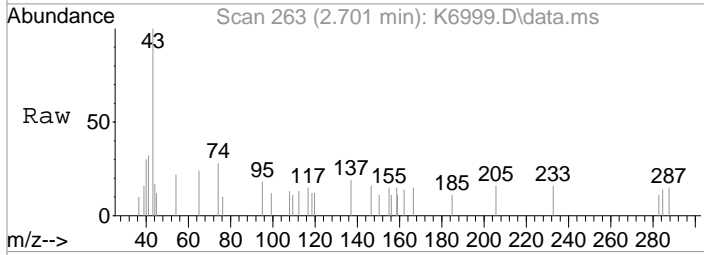
Tgt Ion	Resp	Lower	Upper
101	1443		
101	100		
151	71.5	62.0	102.0





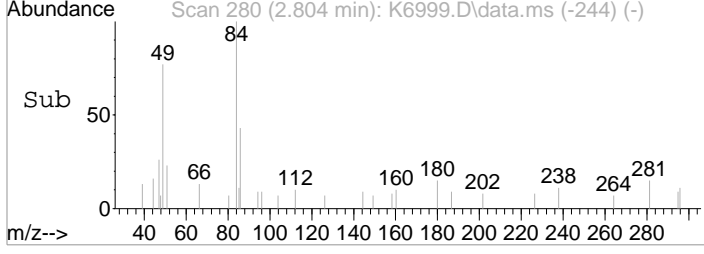
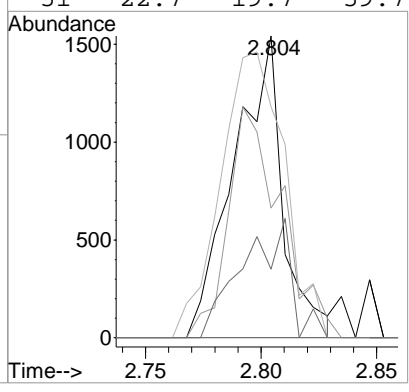
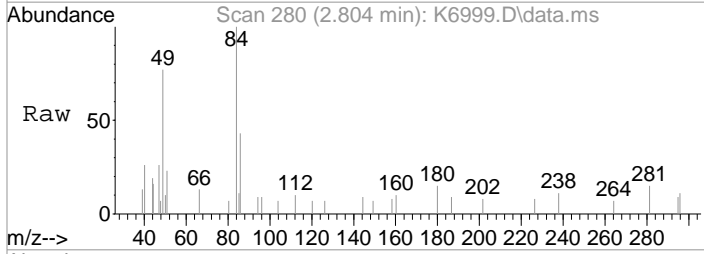
#21
 Methyl Acetate
 Concen: 0.21 ppb
 RT: 2.701 min Scan# 263
 Delta R.T. 0.006 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

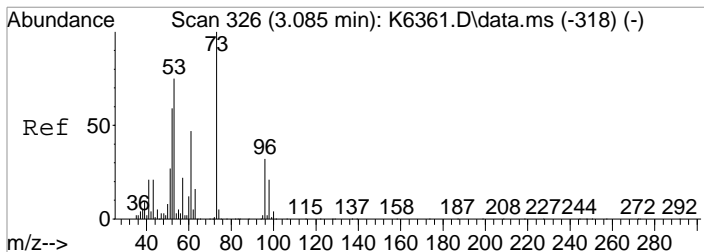
Tgt Ion	Resp	Lower	Upper
43	100		
59	0.0	0.0	28.9
74	27.8	3.3	43.3



#22
 Methylene Chloride
 Concen: 0.57 ppb
 RT: 2.804 min Scan# 280
 Delta R.T. 0.018 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

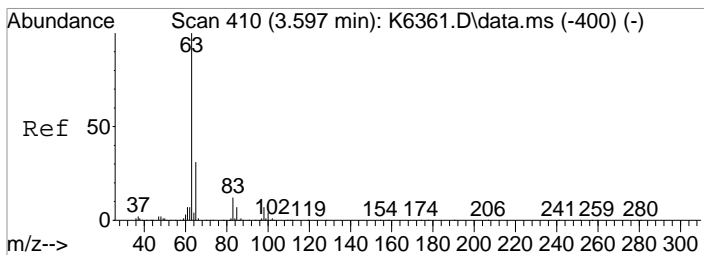
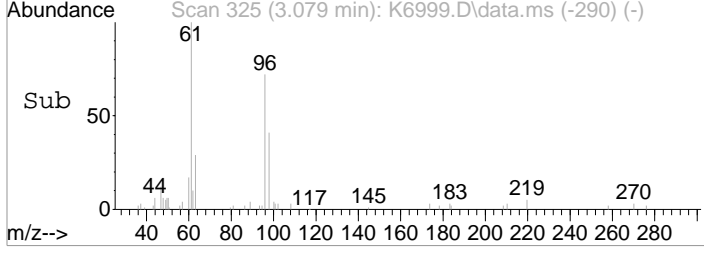
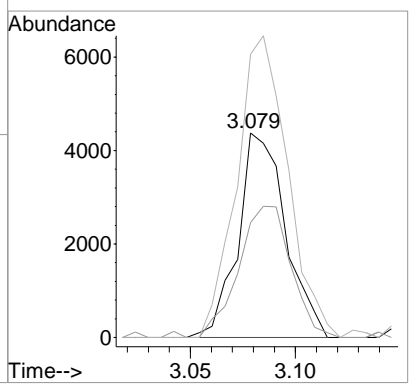
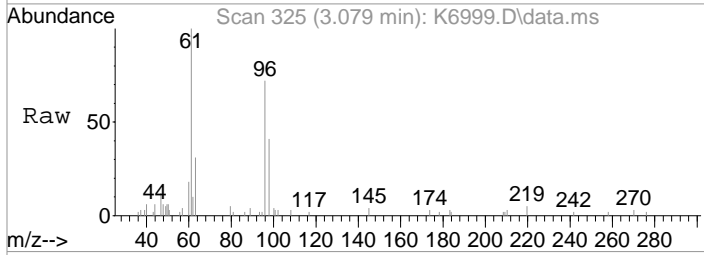
Tgt Ion	Resp	Lower	Upper
84	100		
86	42.9	42.7	82.7
49	76.5	116.5	156.5#
51	22.7	19.7	59.7





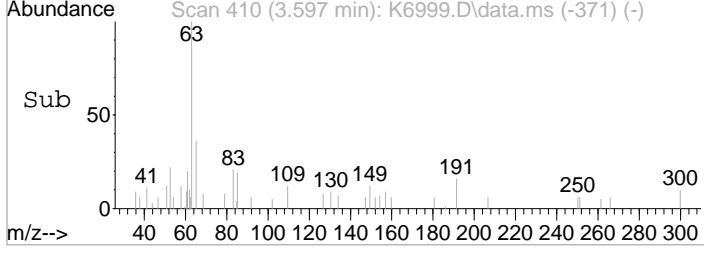
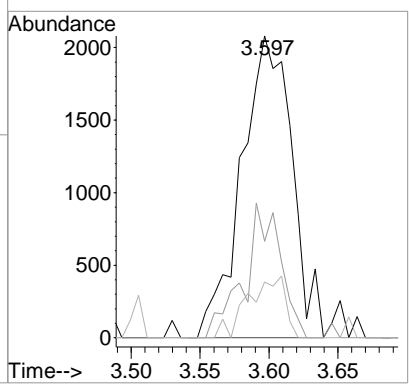
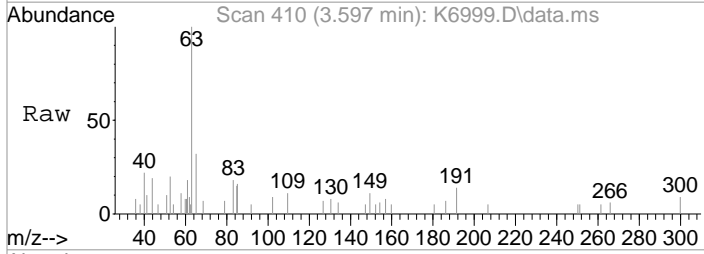
#26
 trans-1,2-Dichloroethene
 Concen: 1.87 ppb
 RT: 3.079 min Scan# 325
 Delta R.T. 0.006 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

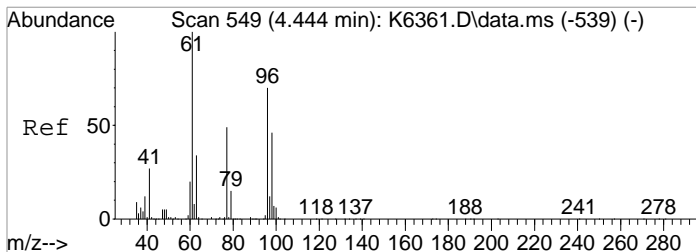
Tgt Ion	Resp	Lower	Upper
96	6888		
96	100		
98	56.1	44.1	84.1
61	138.4	127.9	167.9



#28
 1,1-Dicethane
 Concen: 0.76 ppb m
 RT: 3.597 min Scan# 410
 Delta R.T. 0.012 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

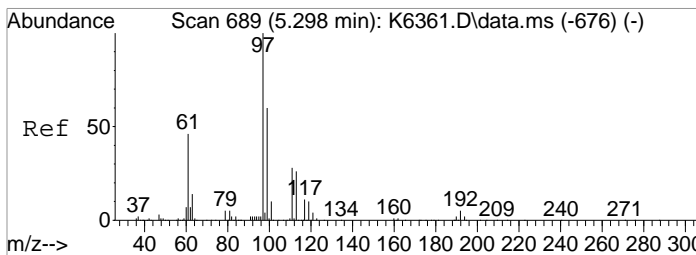
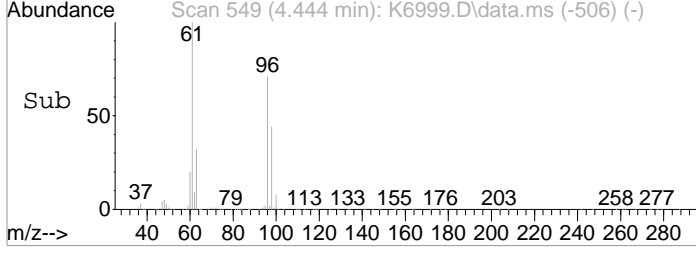
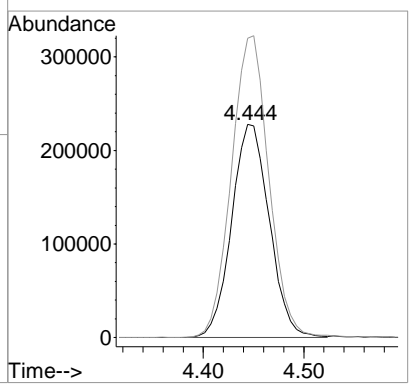
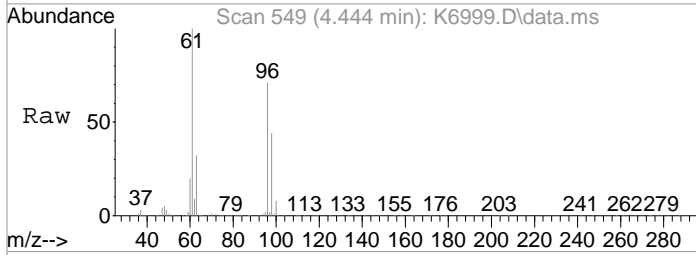
Tgt Ion	Resp	Lower	Upper
63	5278		
63	100		
65	32.0	10.8	50.8
83	18.5	0.0	32.3





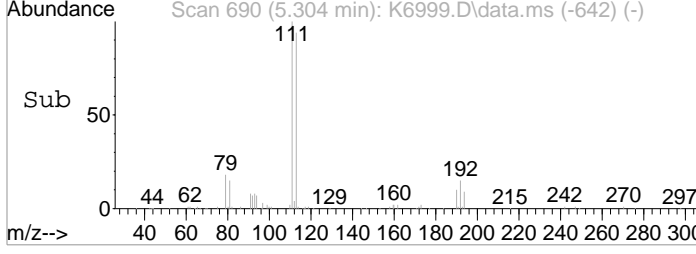
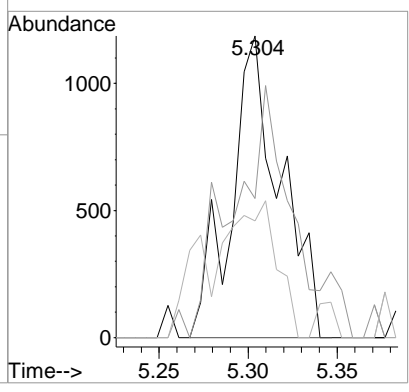
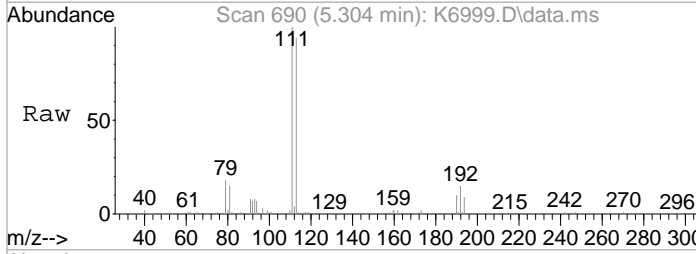
#34
 cis-1,2-Dichloroethene
 Concen: 139.69 ppb
 RT: 4.444 min Scan# 549
 Delta R.T. 0.006 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

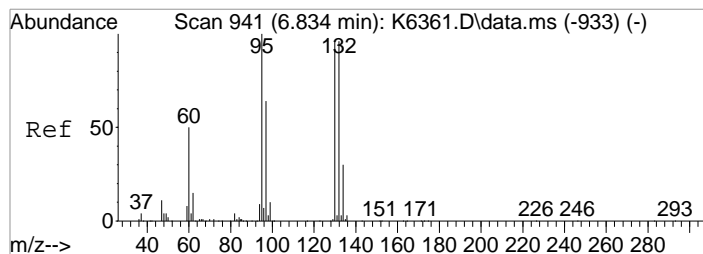
Tgt Ion:	96	Resp:	592235
Ion Ratio	Lower	Upper	
96	100		
61	140.5	125.2	165.2



#41
 1,1,1-Trichloroethane
 Concen: 0.41 ppb m
 RT: 5.304 min Scan# 690
 Delta R.T. 0.012 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

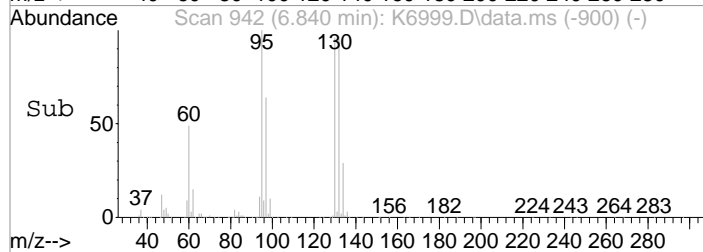
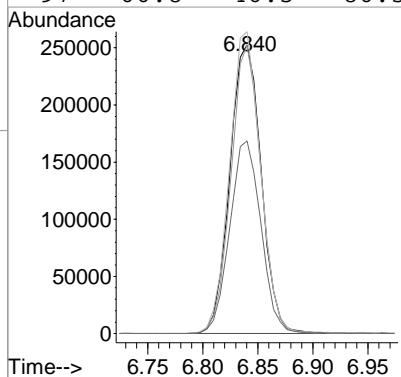
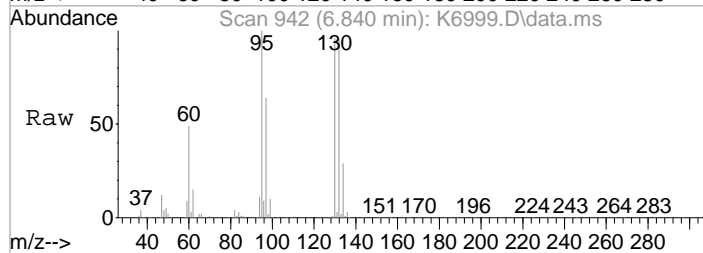
Tgt Ion:	97	Resp:	2297
Ion Ratio	Lower	Upper	
97	100		
99	46.1	40.3	80.3
61	38.7	26.2	66.2





#54
 Trichloroethene
 Concen: 125.83 ppb
 RT: 6.840 min Scan# 942
 Delta R.T. 0.006 min
 Lab File: K6999.D
 Acq: 22 Sep 2021 7:43 pm

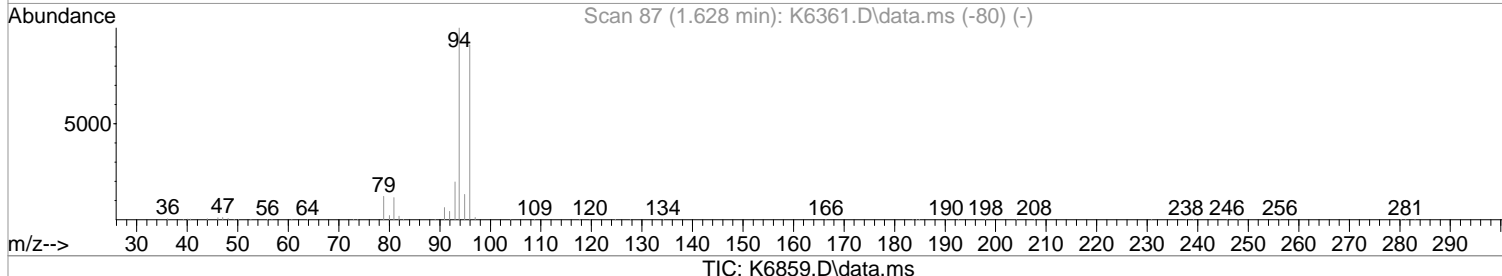
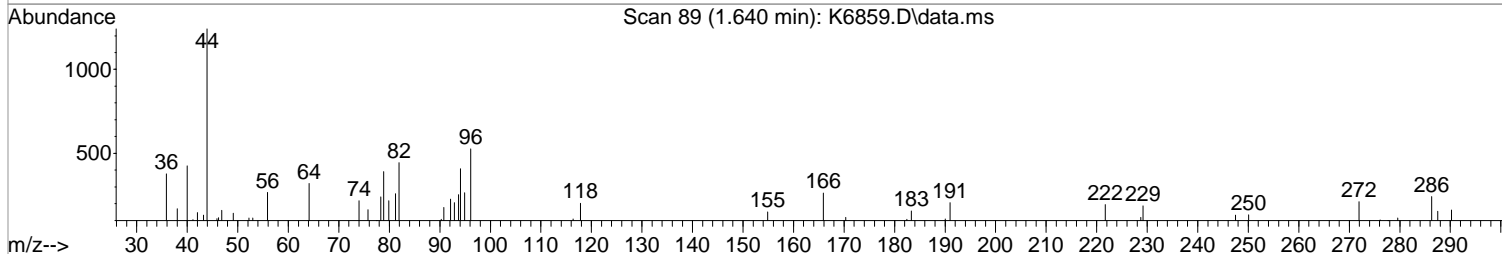
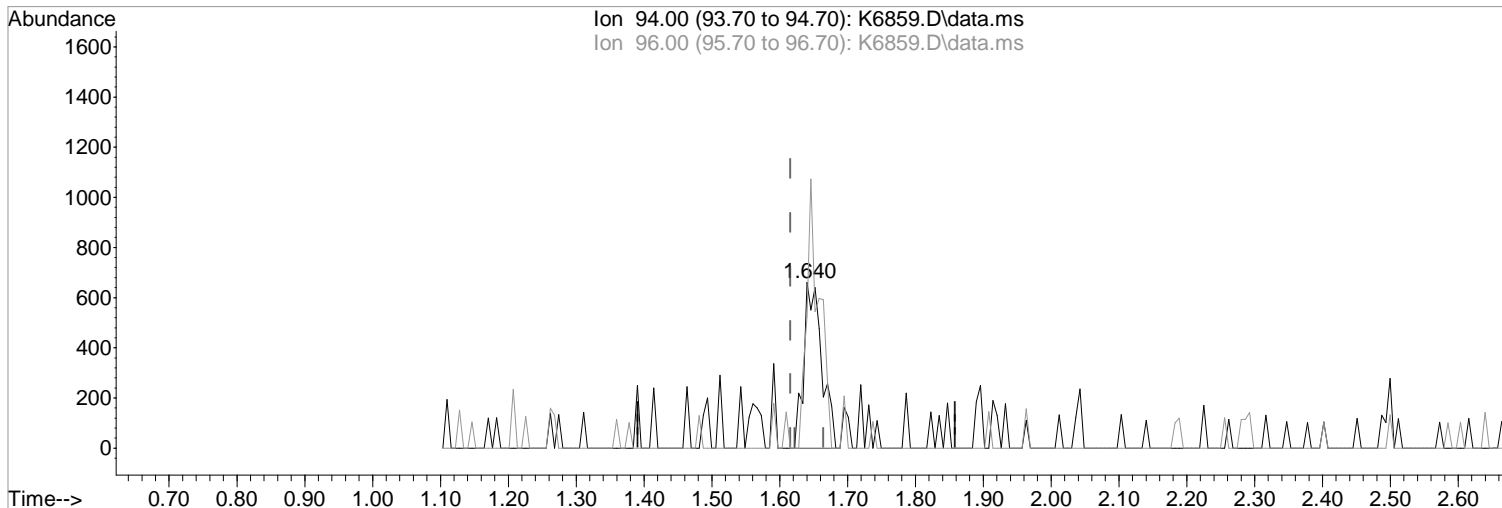
Tgt Ion	Resp	Lower	Upper
130	100		
132	99.9	79.7	119.7
95	104.6	83.8	123.8
97	66.8	46.5	86.5



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6859.D
Acq On : 20 Sep 2021 12:50 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 14:21:47 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.640min (+0.024) 0.42 ppb m
response 1227

Manual Integration:

After

Poor integration.

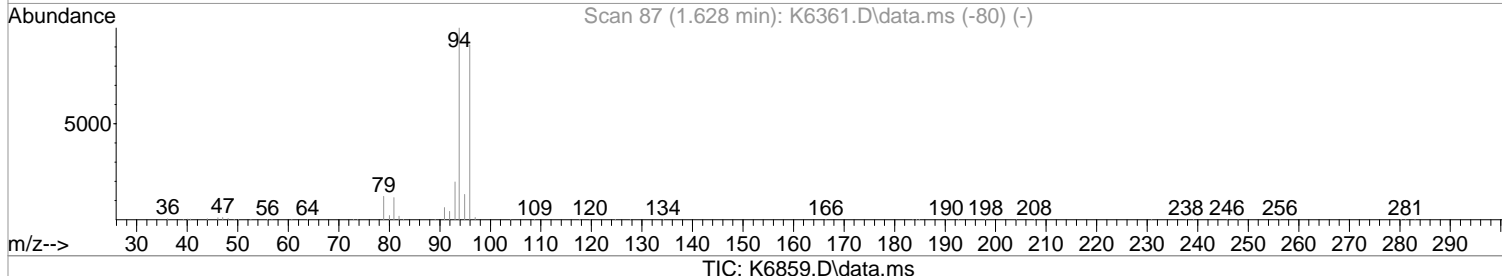
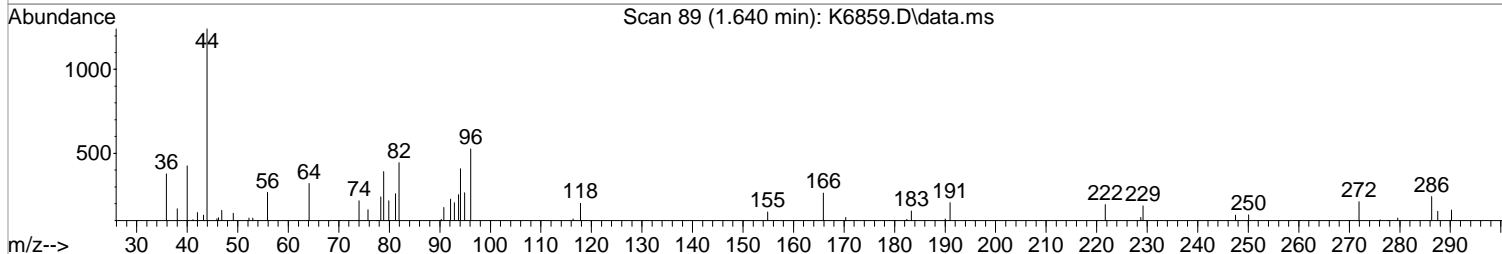
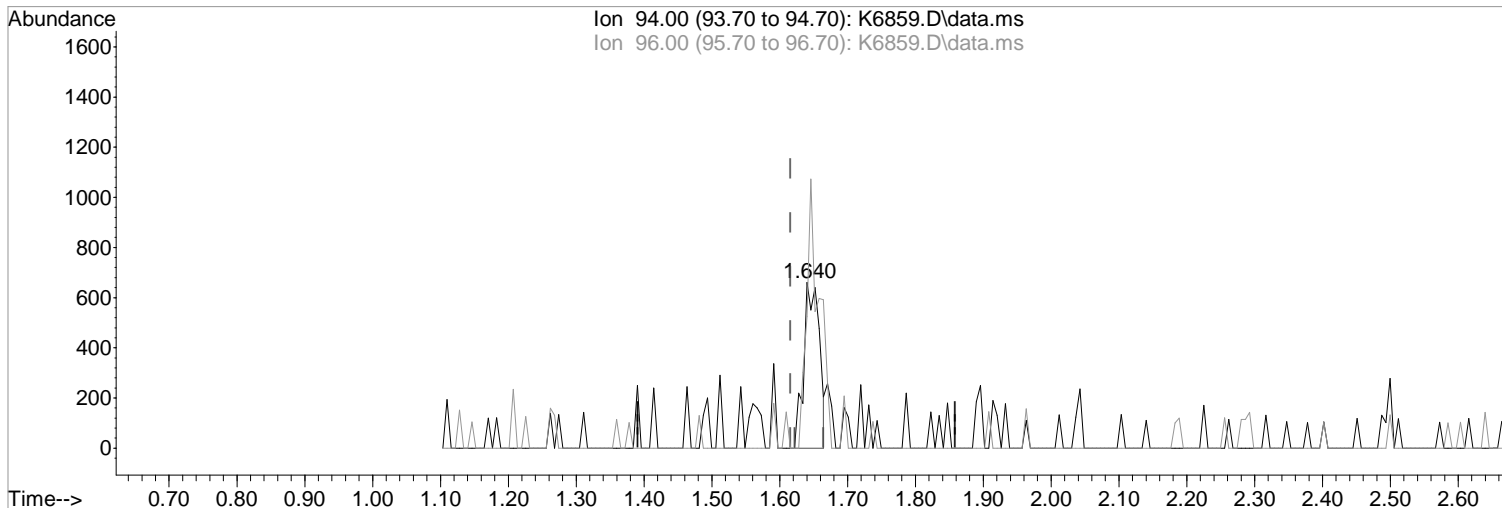
09/20/21

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	128.92#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6859.D
Acq On : 20 Sep 2021 12:50 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 14:21:47 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.640min (+0.024) 0.37 ppb
response 1072

Manual Integration:

Before

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	79.58
0.00	0.00	0.00
0.00	0.00	0.00

09/20/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6859.D
 Acq On : 20 Sep 2021 12:50 pm
 Operator : K.Ruest
 Sample : MBLK-FP
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 14:44:18 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

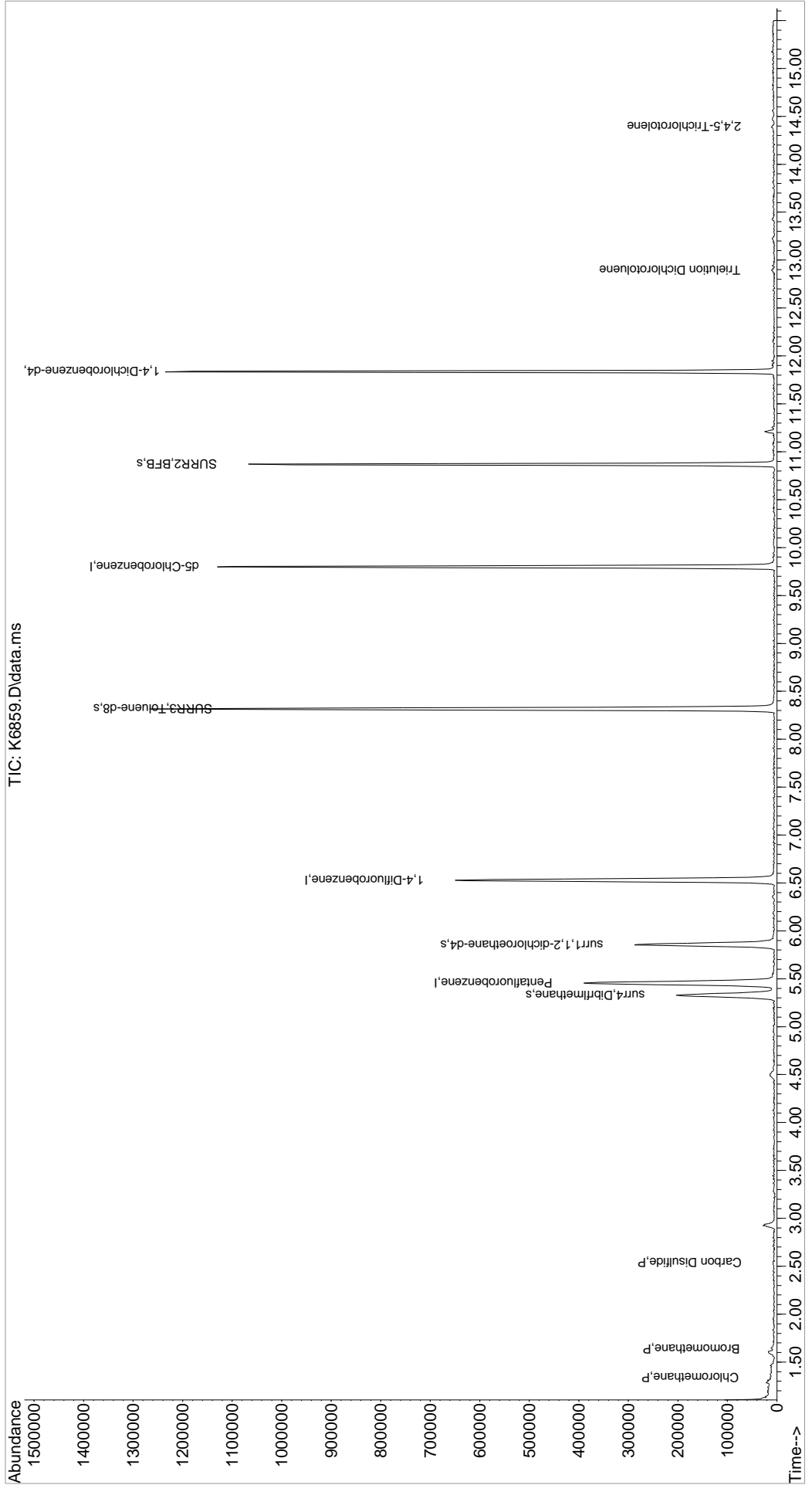
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	332177	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.529	114	570060	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	507486	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	236422	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.328	113	163886	52.81	ppb	0.01
Spiked Amount	50.000	Range 80 - 116	Recovery	=	105.62%	
48) surr1,1,2-dichloroetha...	5.853	65	237419	52.61	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	105.22%	
65) SURR3,Toluene-d8	8.316	98	792283	54.31	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	108.62%	
70) SURR2,BFB	10.870	95	298809	51.60	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	103.20%	
Target Compounds						
3) Chloromethane	1.341	50	797	0.21	ppb	Qvalue 95
5) Bromomethane	1.640	94	1227m	0.42	ppb	
15) Acetone	2.408	43	1943	Below	Cal	87
18) Carbon Disulfide	2.536	76	2206	0.28	ppb	91
112) Trielution Dichlorotol...	12.894	125	2496	0.33	ppb #	82
119) 2,4,5-Trichlorotolene	14.394	159	920	0.23	ppb #	86

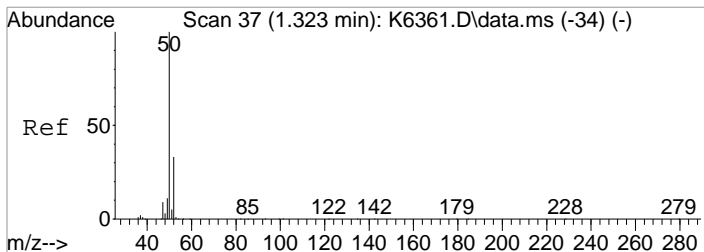
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6859.D
Acq On : 20 Sep 2021 12:50 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 14:44:18 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

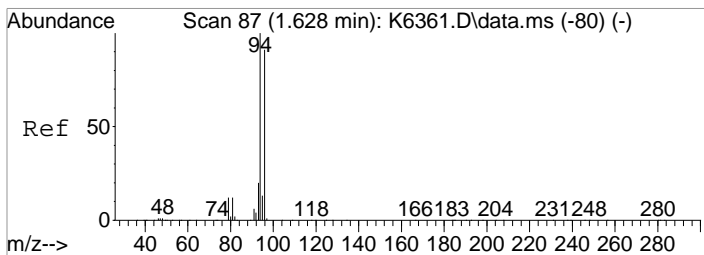
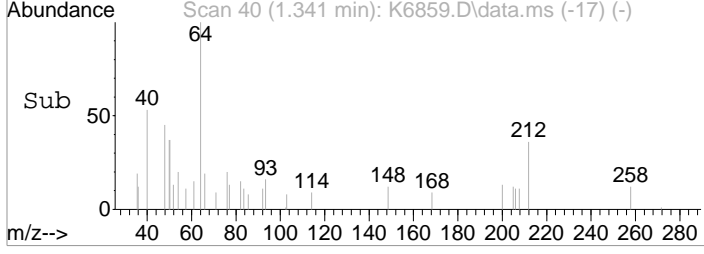
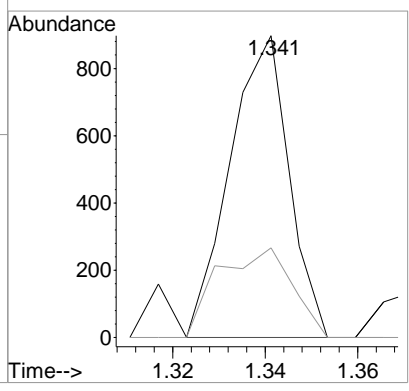
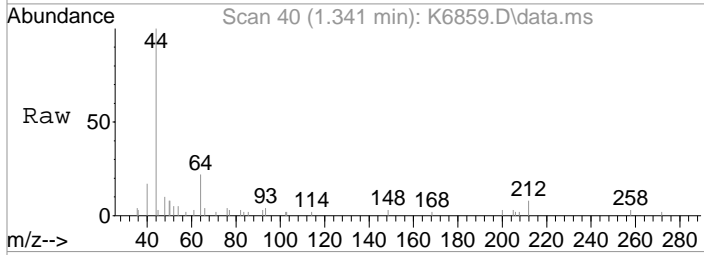




#3
 Chloromethane
 Concen: 0.21 ppb
 RT: 1.341 min Scan# 40
 Delta R.T. 0.024 min
 Lab File: K6859.D
 Acq: 20 Sep 2021 12:50 pm

Tgt Ion: 50 Resp: 797

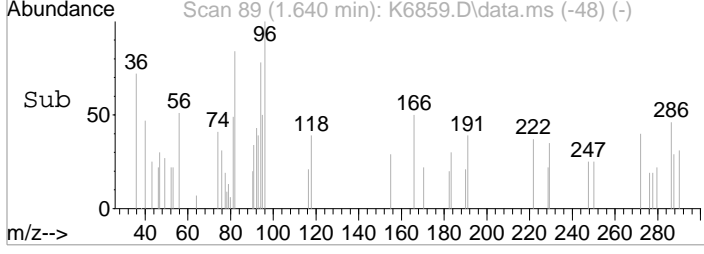
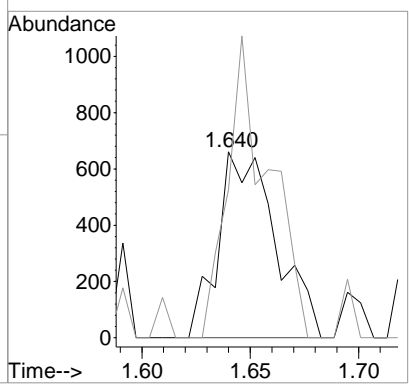
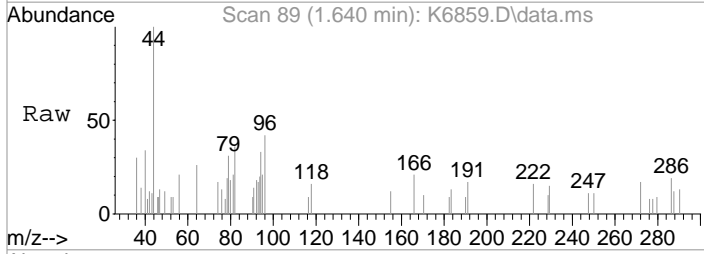
Ion	Ratio	Lower	Upper
50	100		
52	29.7	12.7	52.7

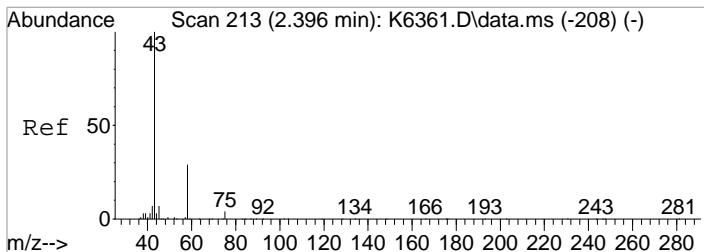


#5
 Bromomethane
 Concen: 0.42 ppb m
 RT: 1.640 min Scan# 89
 Delta R.T. 0.024 min
 Lab File: K6859.D
 Acq: 20 Sep 2021 12:50 pm

Tgt Ion: 94 Resp: 1227

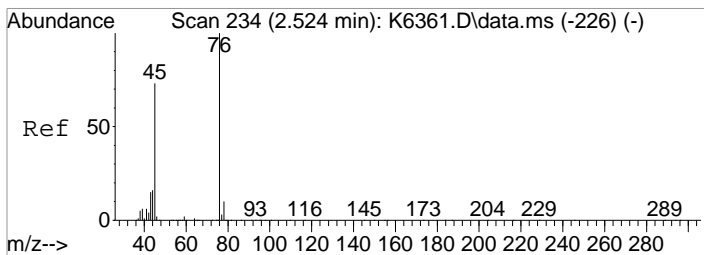
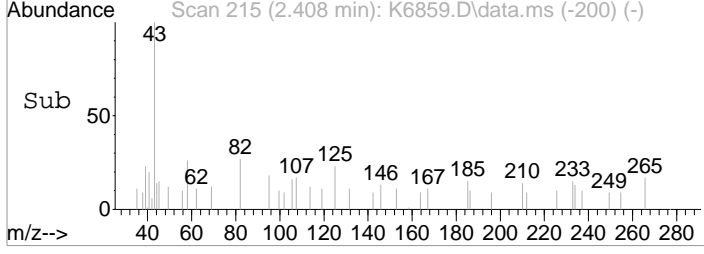
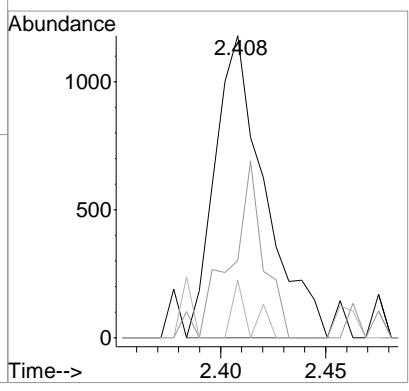
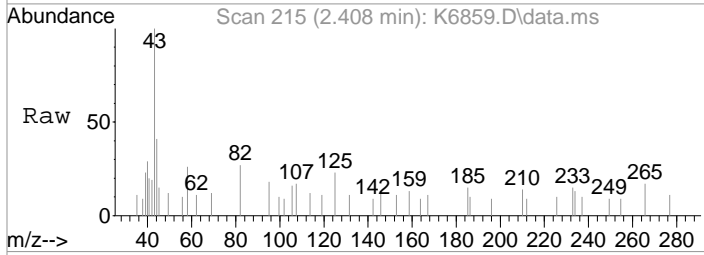
Ion	Ratio	Lower	Upper
94	100		
96	128.9	71.0	111.0#





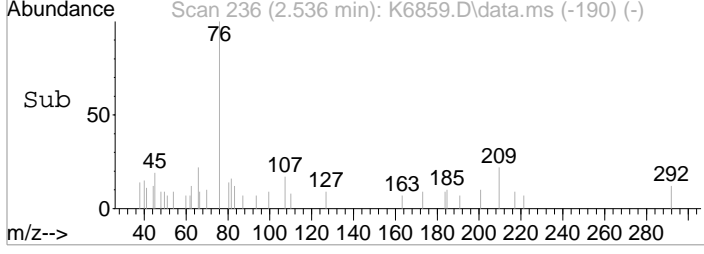
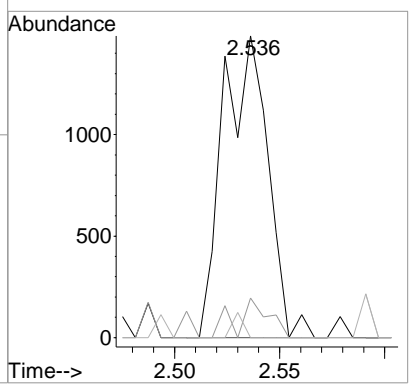
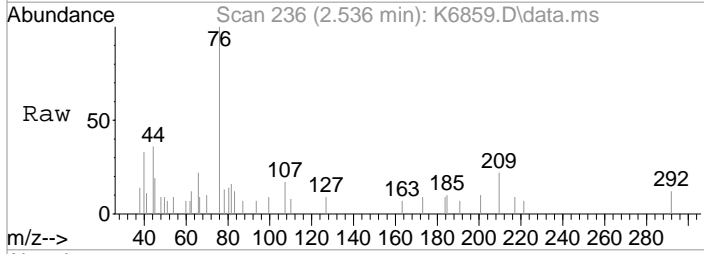
#15
 Acetone
 Concen: Below Cal
 RT: 2.408 min Scan# 215
 Delta R.T. 0.019 min
 Lab File: K6859.D
 Acq: 20 Sep 2021 12:50 pm

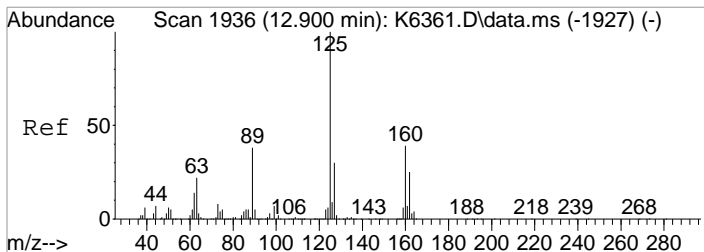
Tgt Ion	Resp	Lower	Upper
43	1943		
58	25.5	9.6	49.6
42	19.1	0.0	27.7



#18
 Carbon Disulfide
 Concen: 0.28 ppb
 RT: 2.536 min Scan# 236
 Delta R.T. 0.024 min
 Lab File: K6859.D
 Acq: 20 Sep 2021 12:50 pm

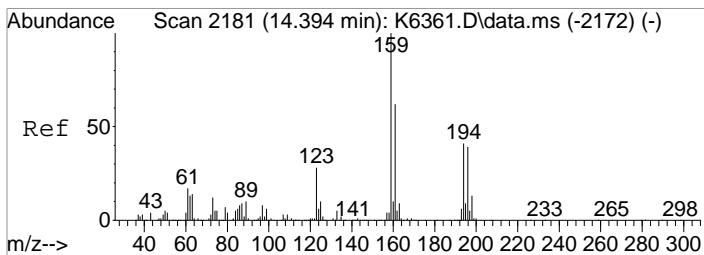
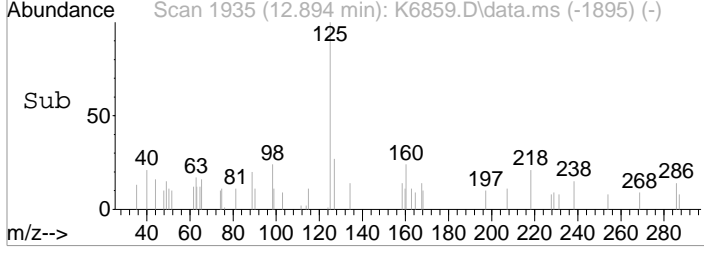
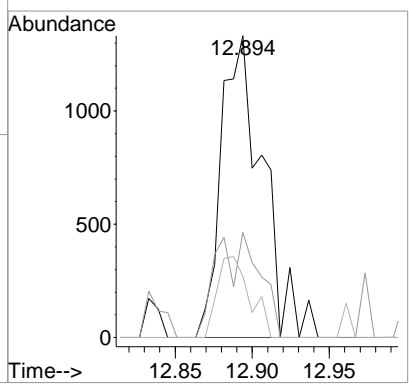
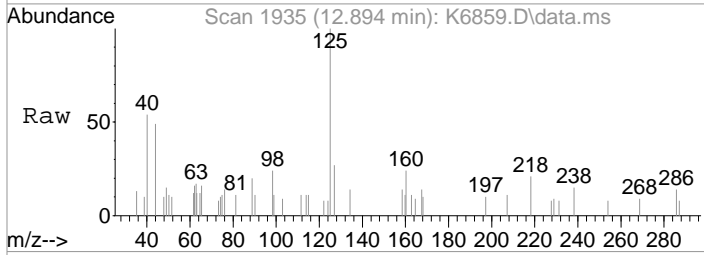
Tgt Ion	Resp	Lower	Upper
76	2206		
78	13.1	0.0	29.7
77	0.0	0.0	22.7





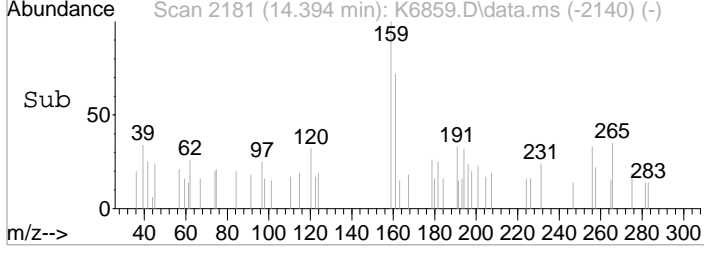
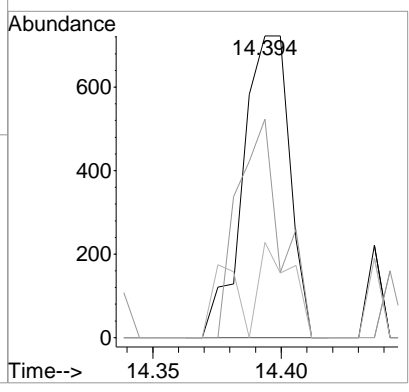
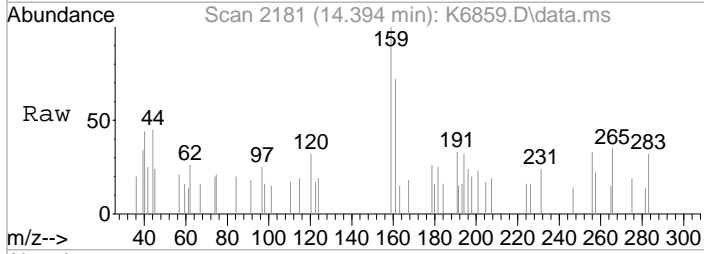
#112
 Trielution Dichlorotoluene
 Concen: 0.33 ppb
 RT: 12.894 min Scan# 1935
 Delta R.T. -0.006 min
 Lab File: K6859.D
 Acq: 20 Sep 2021 12:50 pm

Tgt Ion	Resp	Lower	Upper
125	100		
160	34.8	31.0	46.4
89	20.3	30.4	45.6#



#119
 2,4,5-Trichlorotoluene
 Concen: 0.23 ppb
 RT: 14.394 min Scan# 2181
 Delta R.T. 0.000 min
 Lab File: K6859.D
 Acq: 20 Sep 2021 12:50 pm

Tgt Ion	Resp	Lower	Upper
159	100		
161	72.3	49.9	74.9
194	31.5	32.5	48.7#



Data Path : I:\ACQUDATA\msvoal2\Data\092121\
 Data File : K6918.D
 Acq On : 21 Sep 2021 12:34 pm
 Operator : K.Ruest
 Sample : MBLK-FP
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:53:05 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

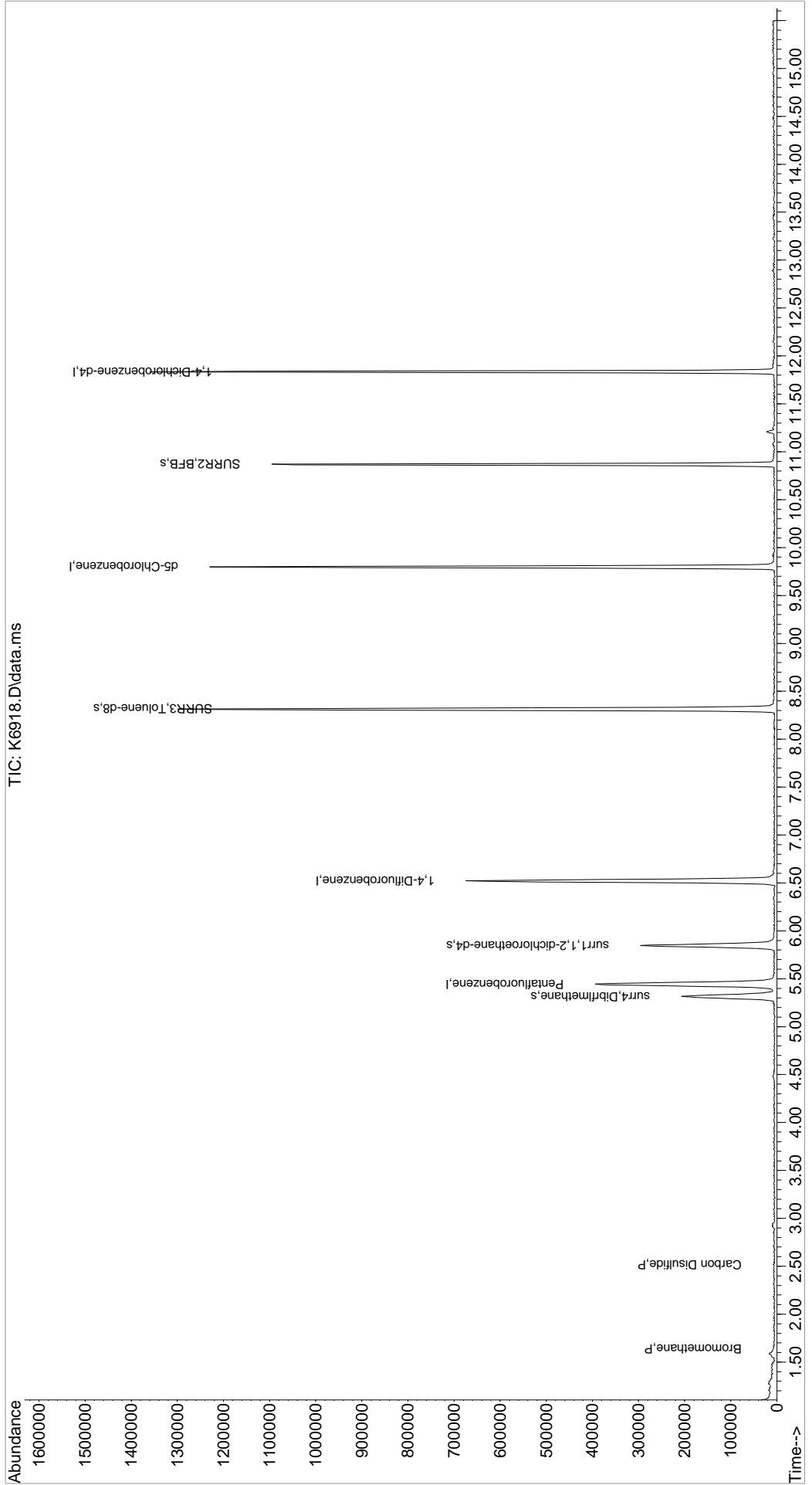
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	337706	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	578497	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	528579	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	246861	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	166919	53.00	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	106.00%	
48) surr1,1,2-dichloroetha...	5.847	65	246928	53.92	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	107.84%	
65) SURR3,Toluene-d8	8.316	98	811246	54.80	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	109.60%	
70) SURR2,BFB	10.870	95	311252	52.97	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	105.94%	
Target Compounds						
5) Bromomethane	1.634	94	1029	0.35	ppb	Qvalue # 51
18) Carbon Disulfide	2.518	76	2194	0.28	ppb	78

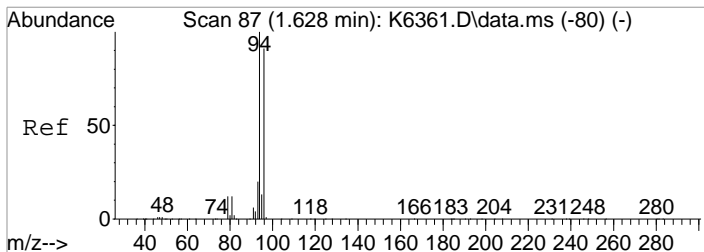
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6918.D
Acq On : 21 Sep 2021 12:34 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

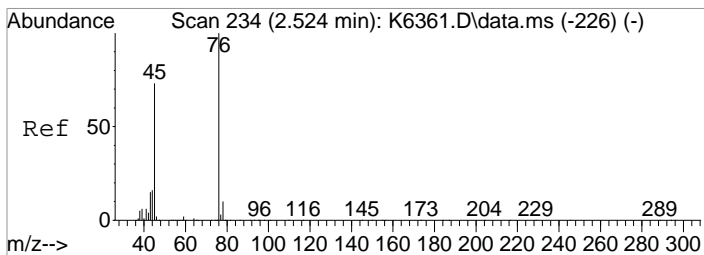
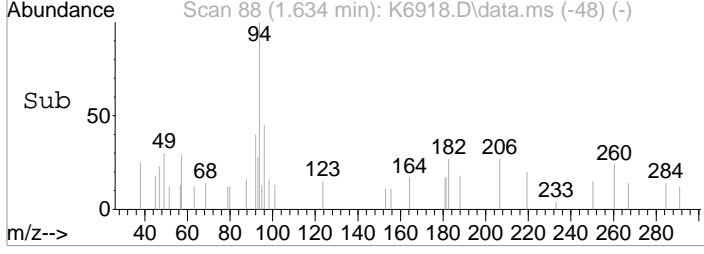
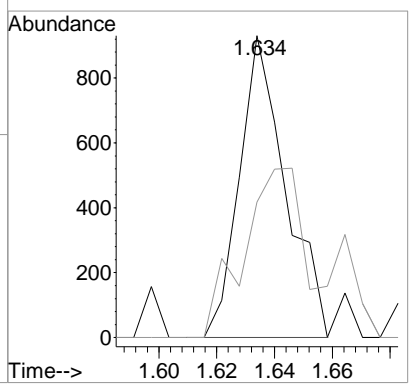
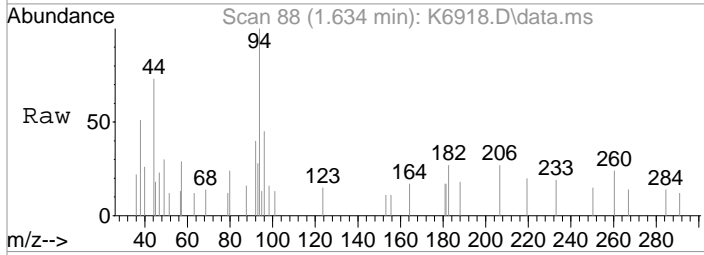
Quant Time: Sep 21 12:53:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration





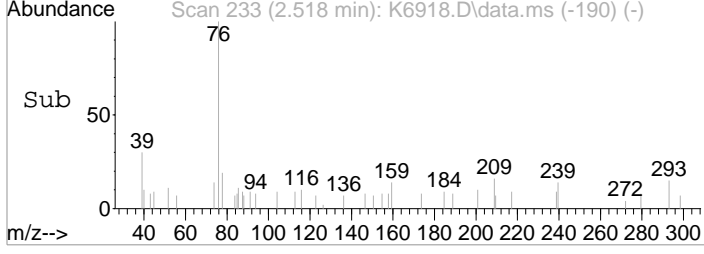
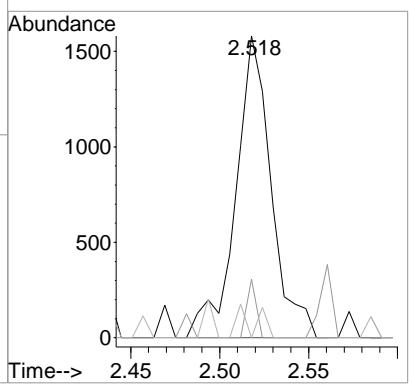
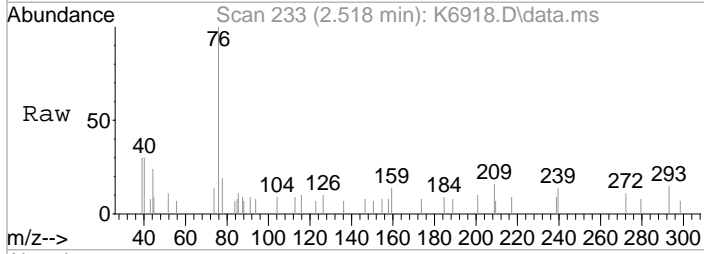
#5
 Bromomethane
 Concen: 0.35 ppb
 RT: 1.634 min Scan# 88
 Delta R.T. 0.018 min
 Lab File: K6918.D
 Acq: 21 Sep 2021 12:34 pm

Tgt Ion	Resp	Lower	Upper
94	1029		
96	44.8	71.0	111.0#



#18
 Carbon Disulfide
 Concen: 0.28 ppb
 RT: 2.518 min Scan# 233
 Delta R.T. 0.006 min
 Lab File: K6918.D
 Acq: 21 Sep 2021 12:34 pm

Tgt Ion	Resp	Lower	Upper
76	2194		
78	19.4	0.0	29.7
77	0.0	0.0	22.7



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6918.D
Acq On : 21 Sep 2021 12:34 pm
Operator : K.Ruest
Sample : MBLK-FP Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K6918.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.316	684	692	701	rBV3	199631	525924	25.05%	5.046%
2	5.444	703	713	727	rVB2	387420	1026555	48.89%	9.849%
3	5.847	770	779	795	rBV2	290961	680015	32.39%	6.524%
4	6.523	881	890	903	rBV	670671	1386335	66.03%	13.301%
5	8.316	1176	1184	1194	rBV	1294458	2099684	100.00%	20.144%
6	9.797	1420	1427	1436	rBV	1225354	1648244	78.50%	15.813%
7	10.870	1597	1603	1609	rBV	1090405	1392673	66.33%	13.361%
8	11.205	1653	1658	1663	rBV3	16375	24923	1.19%	0.239%
9	11.833	1756	1761	1768	rBV	1354176	1638777	78.05%	15.723%

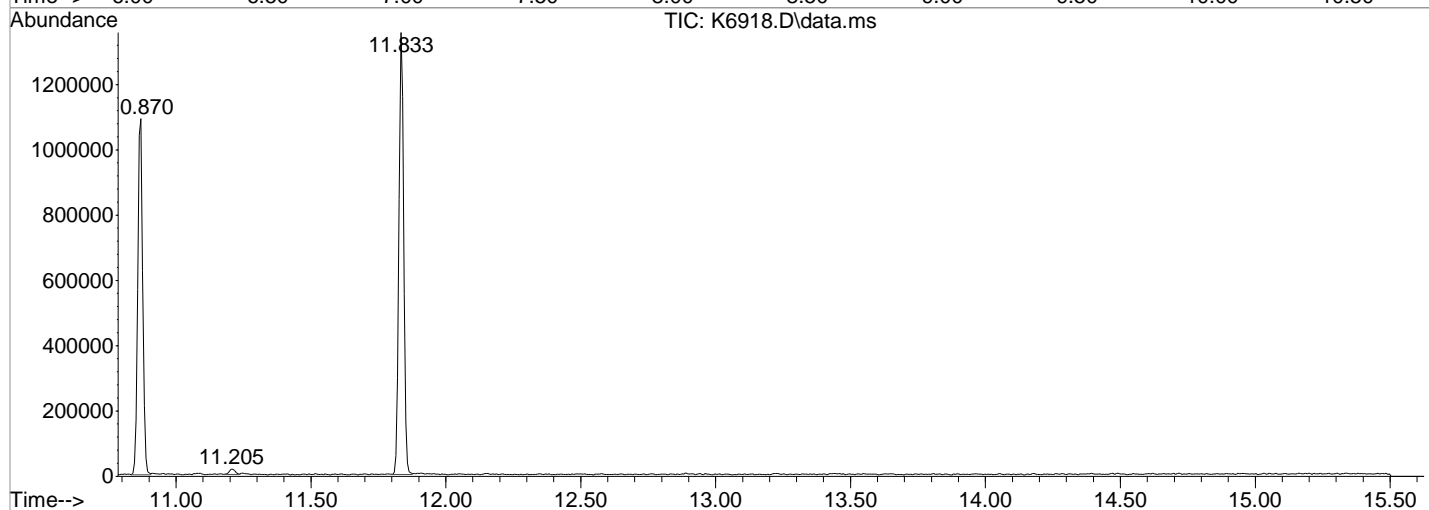
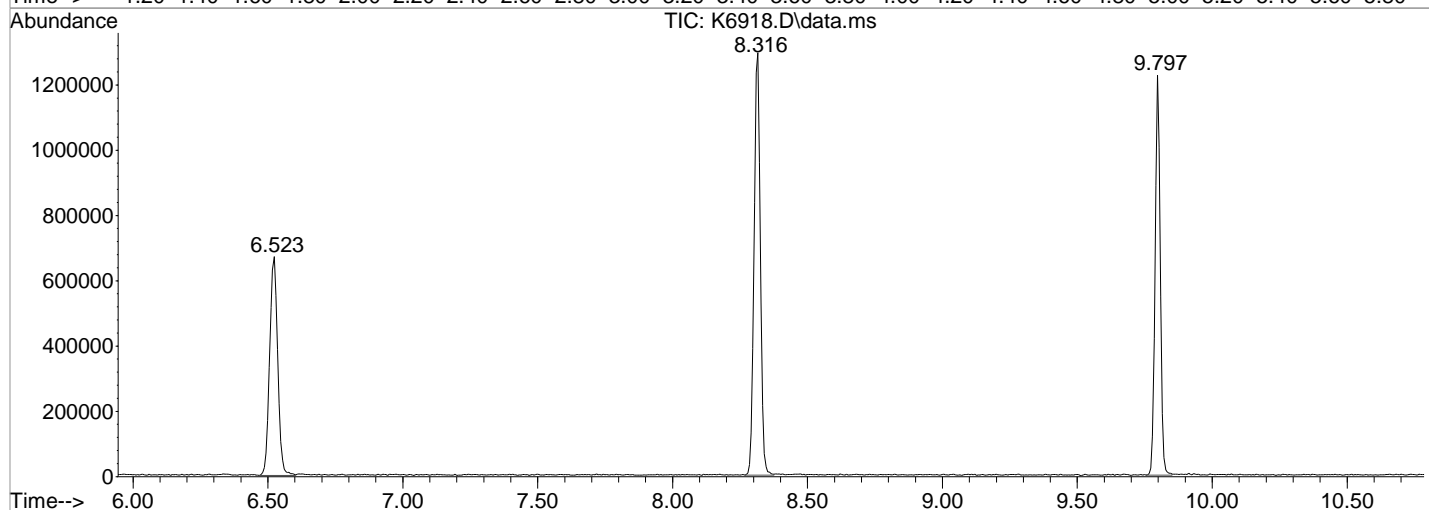
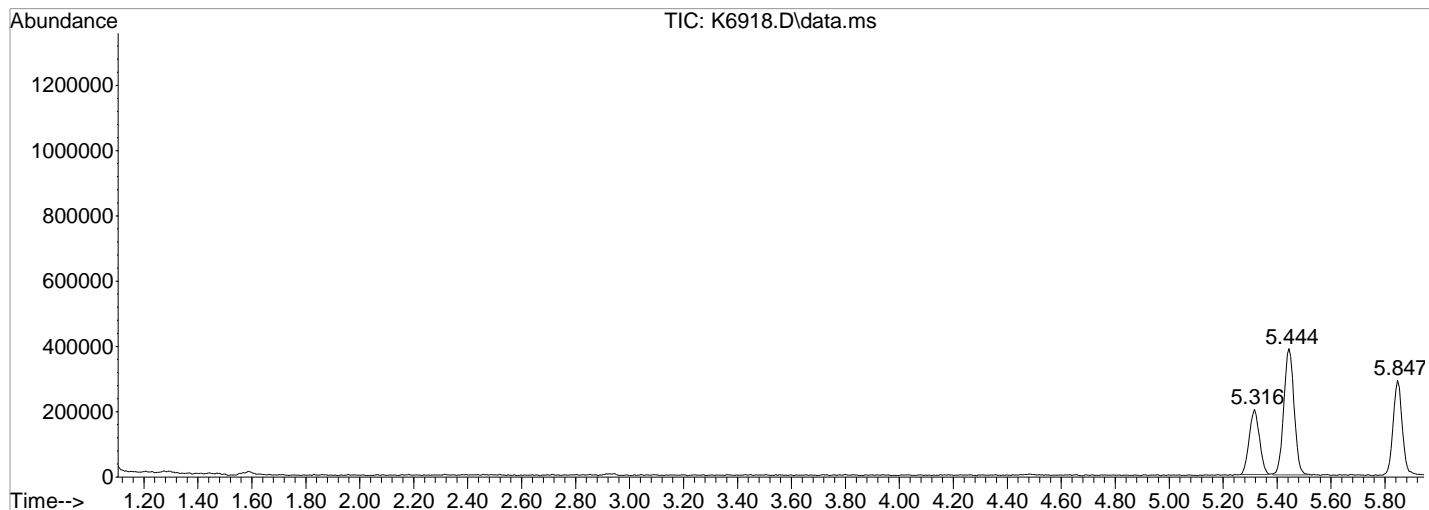
Sum of corrected areas: 10423130

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6918.D
Acq On : 21 Sep 2021 12:34 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

1st *WR* 09/21/21
2nd *FW* 09/23/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6918.D
Acq On : 21 Sep 2021 12:34 pmm
Operator : K.Ruestt
Sample : MBLK-FP Inst : MSVOA-122
Misc :
ALS Vial : 3 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

No Library Search Compounds Detected

Data Path : I:\ACQUDATA\msvoal2\Data\092221\
 Data File : K6979.D
 Acq On : 22 Sep 2021 12:27 pm
 Operator : K.Ruest
 Sample : MBLK-FP Inst : MSVOA-12
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

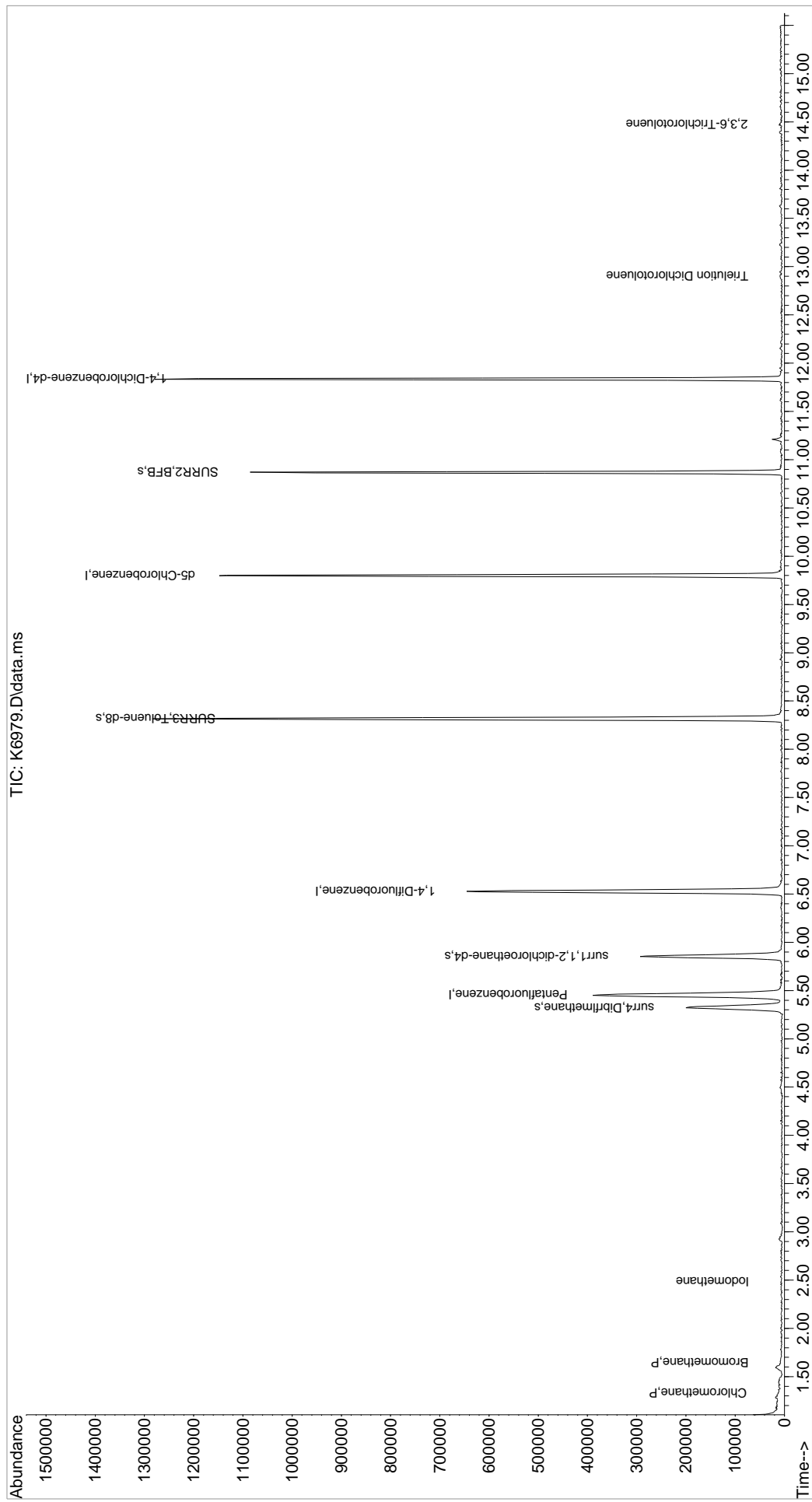
Quant Time: Sep 22 12:44:32 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

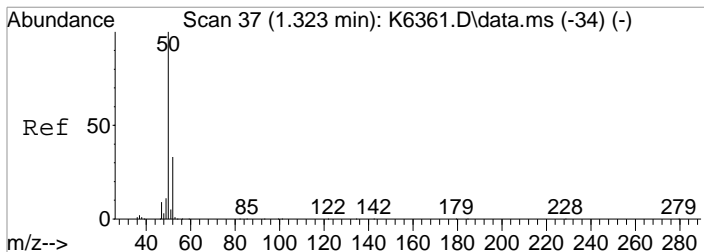
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	340234	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.529	114	564192	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	510415	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	241703	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	161013	52.42	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	104.84%	
48) surr1,1,2-dichloroetha...	5.853	65	240495	53.85	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	107.70%	
65) SURR3,Toluene-d8	8.316	98	787529	54.55	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	109.10%	
70) SURR2,BFB	10.870	95	296064	51.66	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	103.32%	
Target Compounds						
3) Chloromethane	1.329	50	1084	0.27	ppb	Qvalue # 60
5) Bromomethane	1.646	94	1046	0.35	ppb	90
15) Acetone	2.408	43	1690	Below	Cal	88
17) Iodomethane	2.481	142	1282	1.69	ppb	# 58
112) Trielution Dichlorotol...	12.906	125	1878	0.24	ppb	# 87
120) 2,3,6-Trichlorotoluene	14.479	159	898	0.23	ppb	# 54

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6979.D
 Acq On : 22 Sep 2021 12:27 pm
 Operator : K.Ruest
 Sample : MBLK-FP
 Misc :
 ALS Vial : 3 Sample Multiplier: 1
 Inst : MSVOA-12

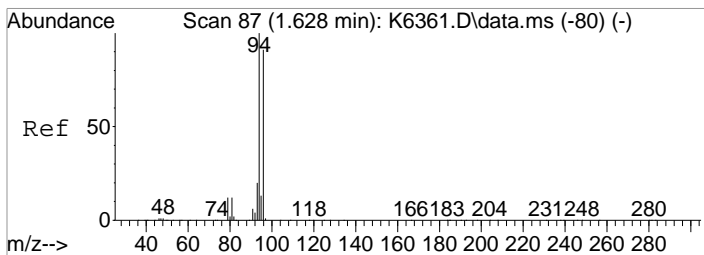
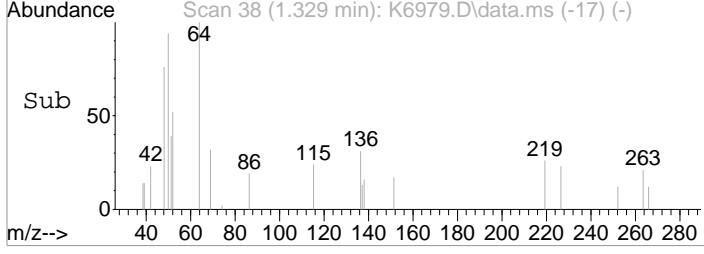
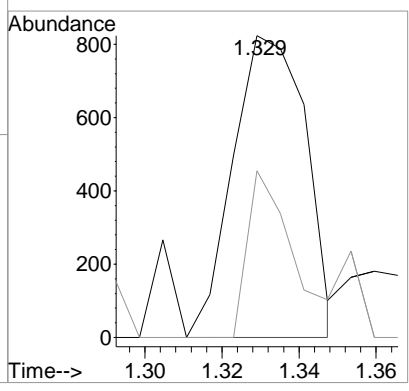
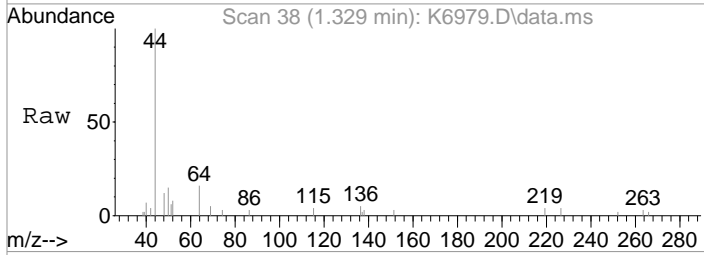
Quant Time: Sep 22 12:44:32 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





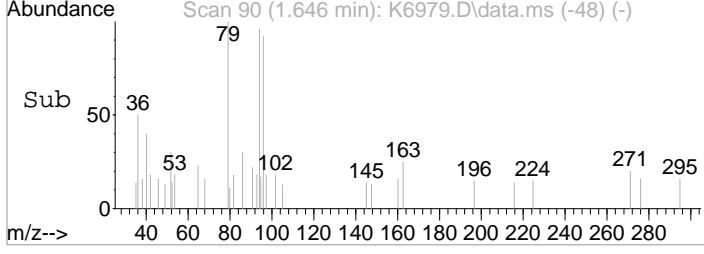
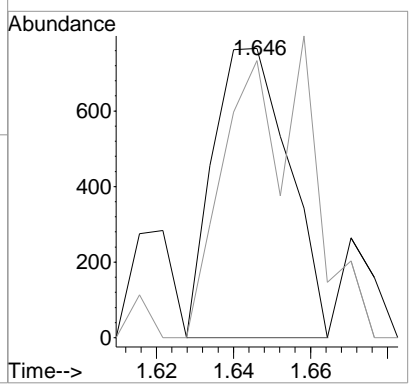
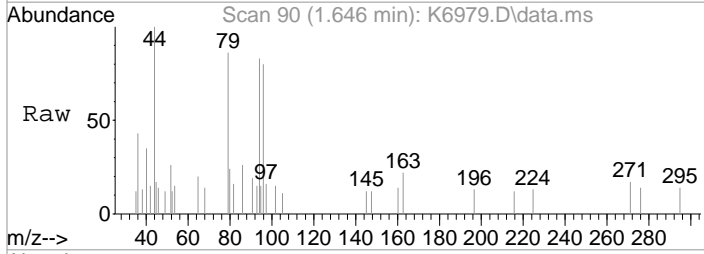
#3
 Chloromethane
 Concen: 0.27 ppb
 RT: 1.329 min Scan# 38
 Delta R.T. 0.012 min
 Lab File: K6979.D
 Acq: 22 Sep 2021 12:27 pm

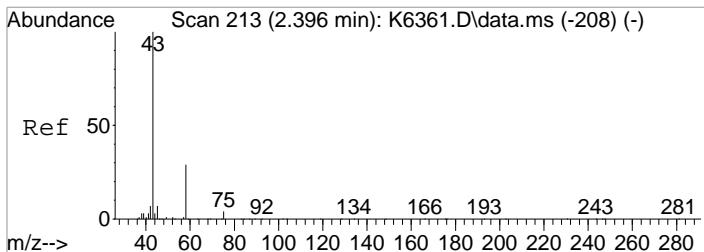
Tgt Ion	Resp	Lower	Upper
50	1084		
52	55.2	12.7	52.7#



#5
 Bromomethane
 Concen: 0.35 ppb
 RT: 1.646 min Scan# 90
 Delta R.T. 0.031 min
 Lab File: K6979.D
 Acq: 22 Sep 2021 12:27 pm

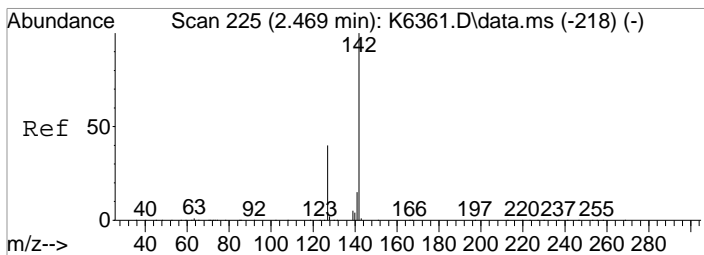
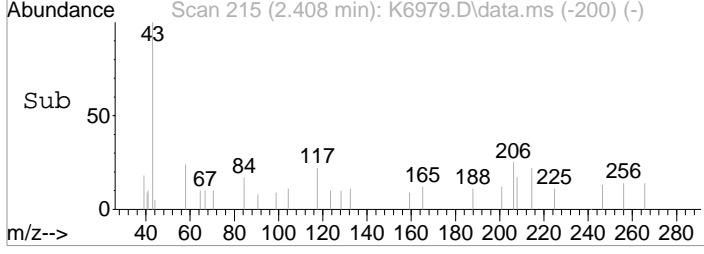
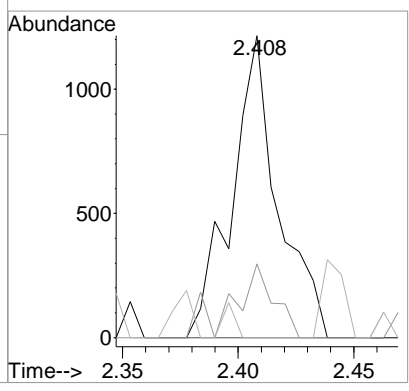
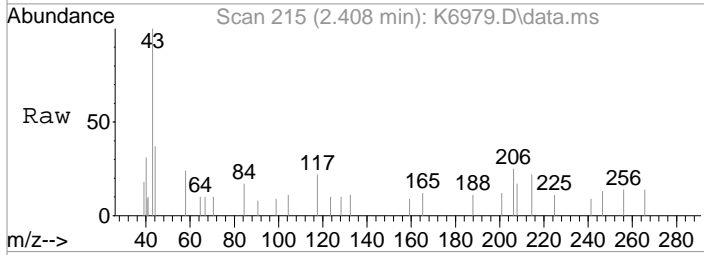
Tgt Ion	Resp	Lower	Upper
94	1046		
96	81.4	71.0	111.0





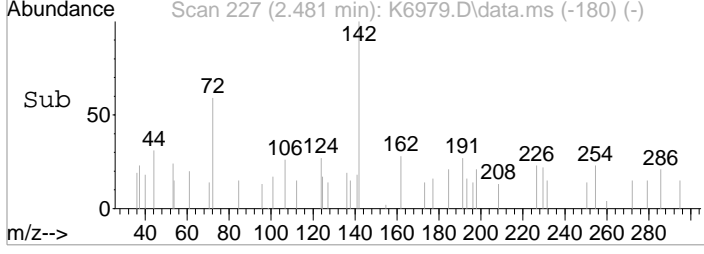
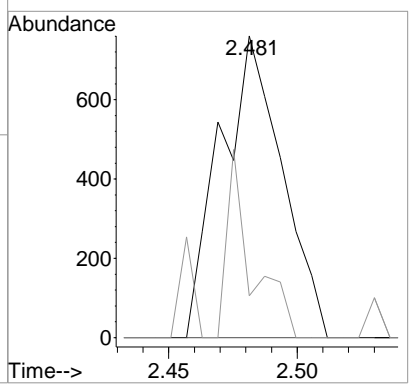
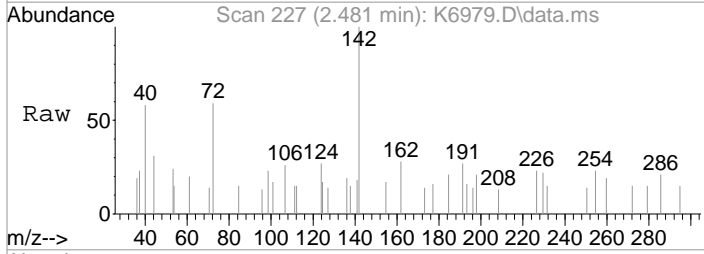
#15
 Acetone
 Concen: Below Cal
 RT: 2.408 min Scan# 215
 Delta R.T. 0.019 min
 Lab File: K6979.D
 Acq: 22 Sep 2021 12:27 pm

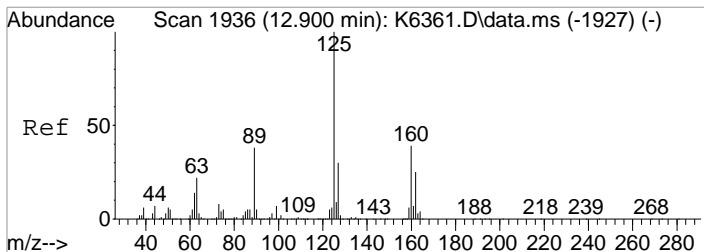
Tgt Ion	Resp	Lower	Upper
43	1690		
58	24.4	9.6	49.6
42	0.0	0.0	27.7



#17
 Iodomethane
 Concen: 1.69 ppb
 RT: 2.481 min Scan# 227
 Delta R.T. 0.025 min
 Lab File: K6979.D
 Acq: 22 Sep 2021 12:27 pm

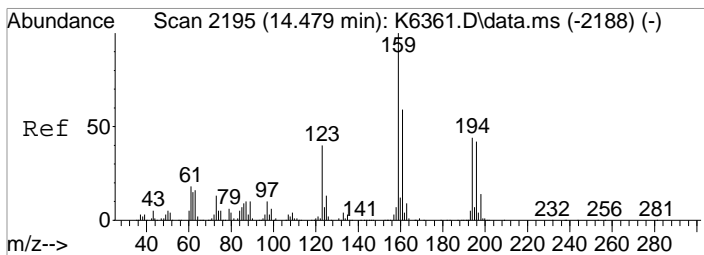
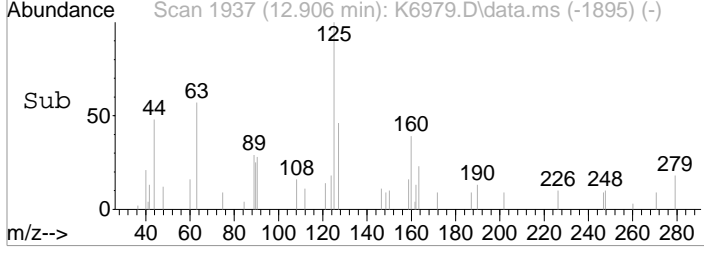
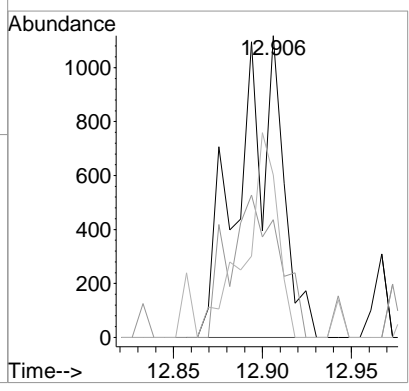
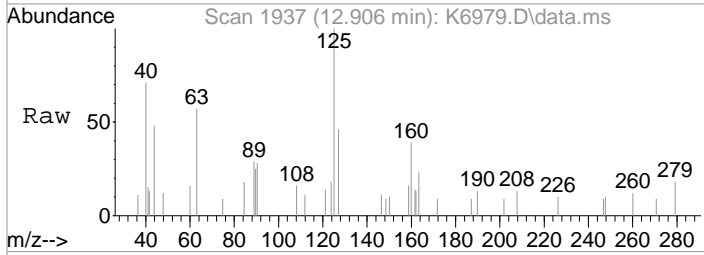
Tgt Ion	Resp	Lower	Upper
142	1282		
127	13.9	19.6	59.6#





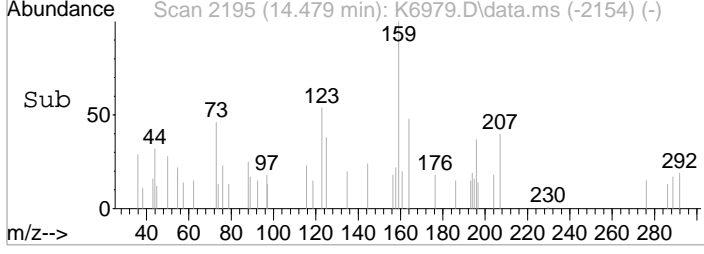
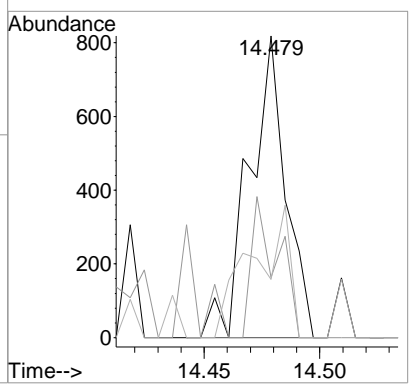
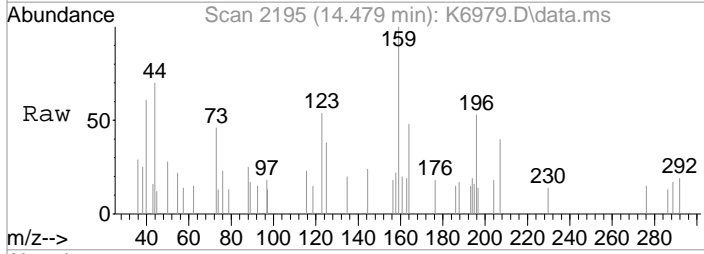
#112
 Trielution Dichlorotoluene
 Concen: 0.24 ppb
 RT: 12.906 min Scan# 1937
 Delta R.T. 0.006 min
 Lab File: K6979.D
 Acq: 22 Sep 2021 12:27 pm

Tgt Ion	Resp	Lower	Upper
125	1878		
160	39.0	31.0	46.4
89	53.8	30.4	45.6#



#120
 2,3,6-Trichlorotoluene
 Concen: 0.23 ppb
 RT: 14.479 min Scan# 2195
 Delta R.T. 0.000 min
 Lab File: K6979.D
 Acq: 22 Sep 2021 12:27 pm

Tgt Ion	Resp	Lower	Upper
159	898		
161	19.9	47.1	70.7#
194	19.3	35.4	53.0#



Data Path : I:\ACQUDATA\msvoa12\Data\092221\
Data File : K6979.D
Acq On : 22 Sep 2021 12:27 pm
Operator : K.Ruest
Sample : MBLK-FP Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K6979.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.597	74	82	87	rBV8	12390	31840	1.56%	0.313%
2	5.322	682	693	705	rBV2	196576	547335	26.74%	5.376%
3	5.450	705	714	727	rVB2	382226	1015689	49.62%	9.977%
4	5.853	773	780	789	rBV	285422	648827	31.70%	6.373%
5	6.529	883	891	906	rBV	639821	1340140	65.47%	13.164%
6	8.316	1177	1184	1192	rBV	1277795	2046801	100.00%	20.105%
7	9.797	1421	1427	1437	rBV	1143291	1600396	78.19%	15.720%
8	10.870	1597	1603	1609	rBV	1079521	1349850	65.95%	13.259%
9	11.211	1655	1659	1664	rVB2	19848	24797	1.21%	0.244%
10	11.833	1756	1761	1767	rBV	1271503	1575030	76.95%	15.471%

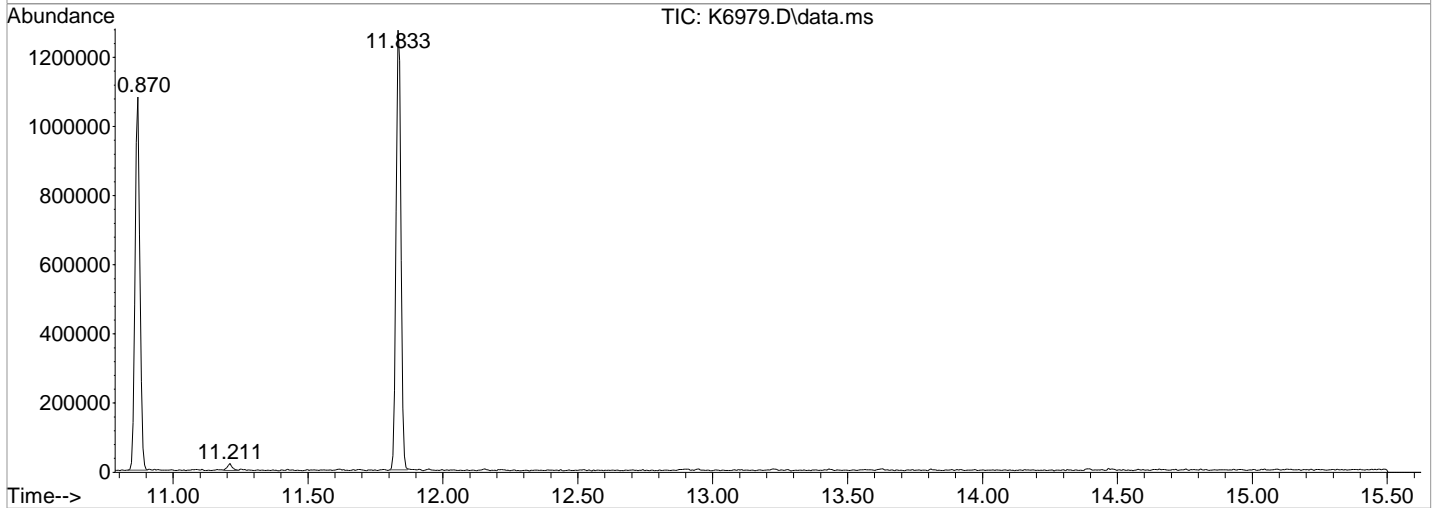
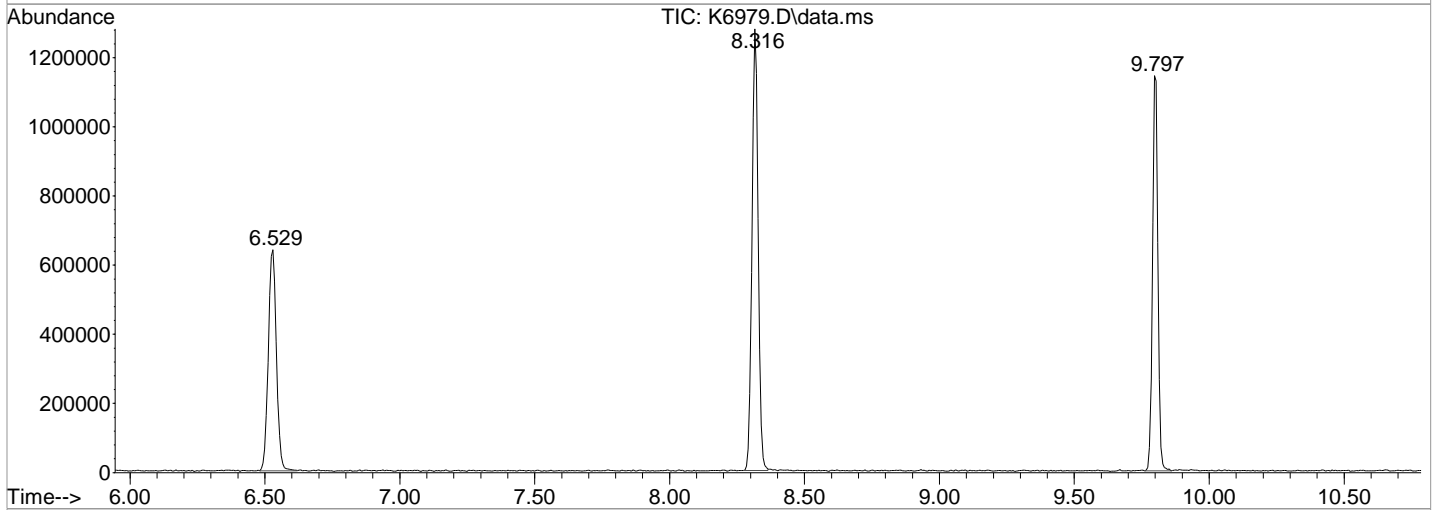
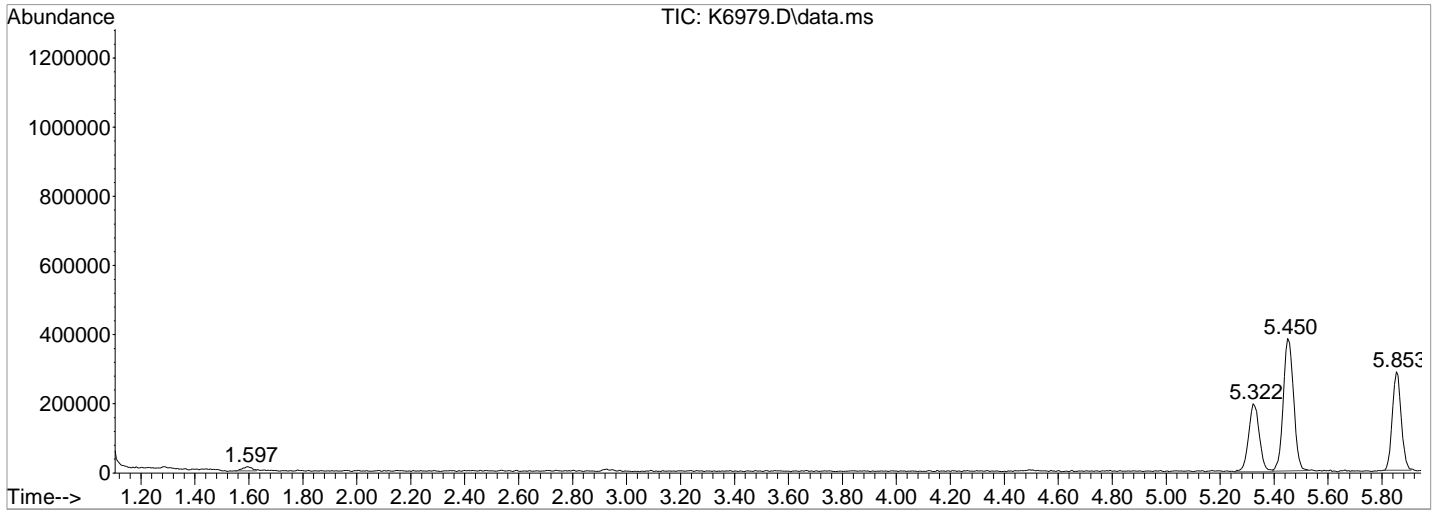
Sum of corrected areas: 10180705

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
Data File : K6979.D
Acq On : 22 Sep 2021 12:27 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoal2\Data\092221\
Data File : K6979.D
Acq On : 22 Sep 2021 12:27 pmm
Operator : K.Ruestt
Sample : MBLK-FP Inst : MSVOA-122
Misc :
ALS Vial : 3 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

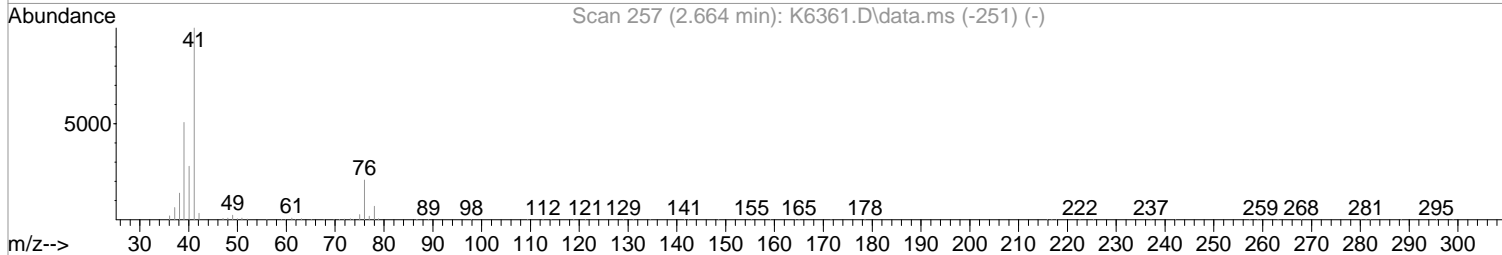
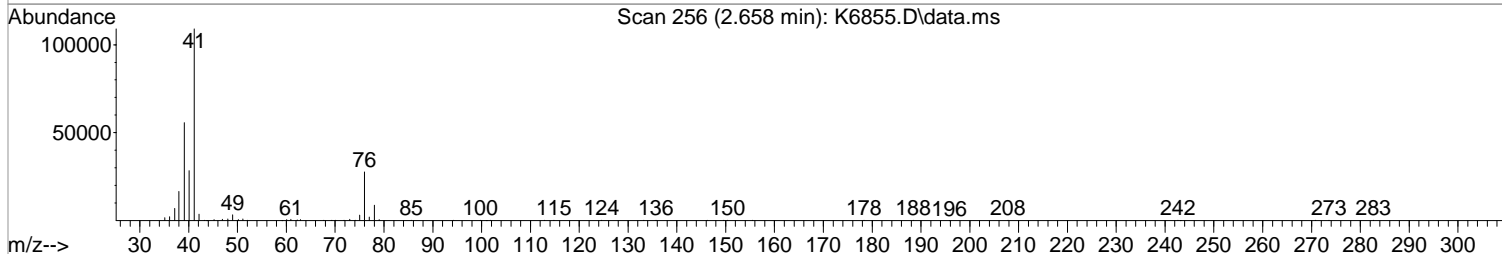
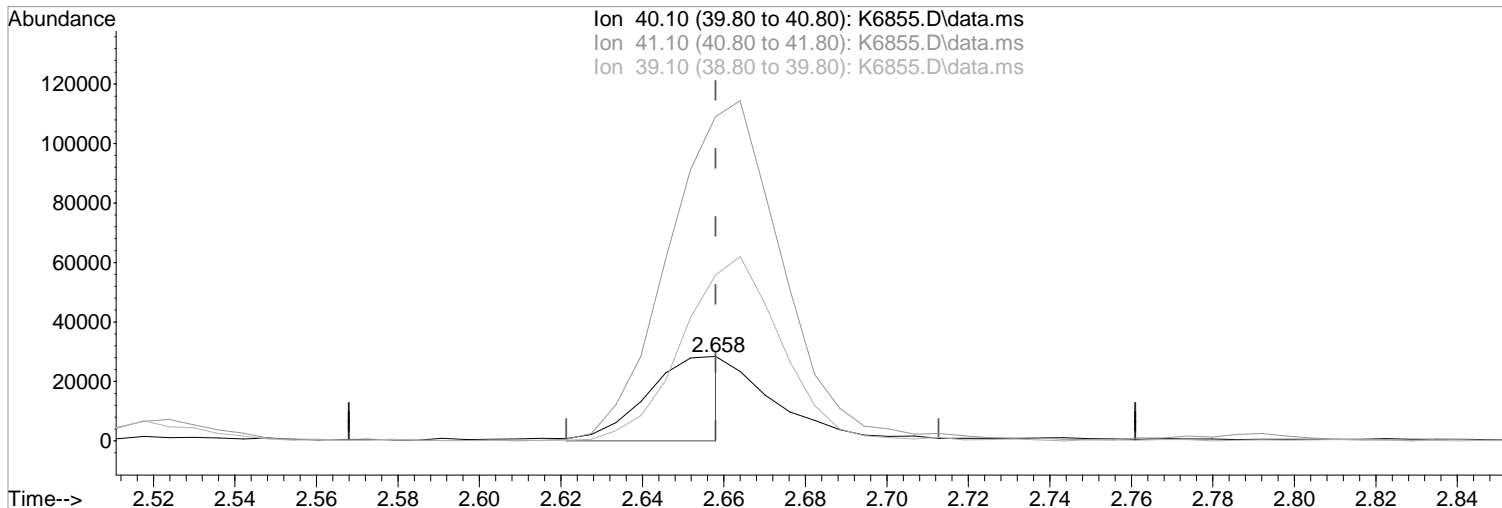
TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

No Library Search Compounds Detected

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6855.D
Acq On : 20 Sep 2021 11:15 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 11:48:17 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.658min (-0.000) 118.66 ppb m
response 36896

Manual Integration:
After
Poor integration.

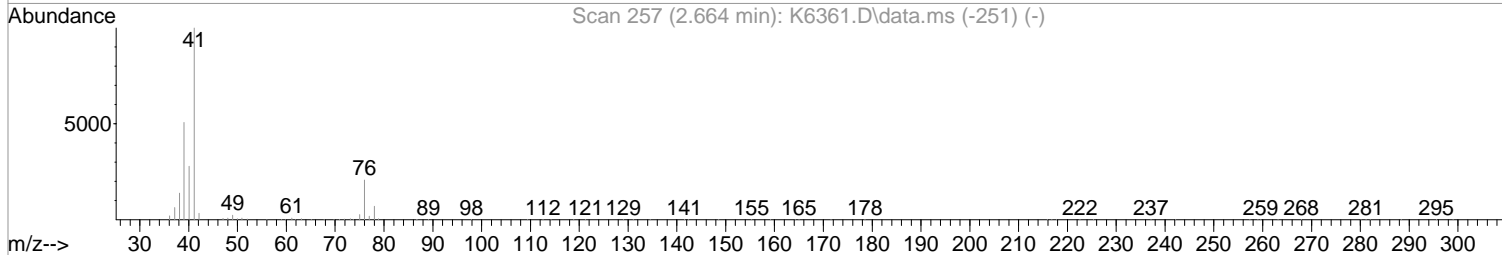
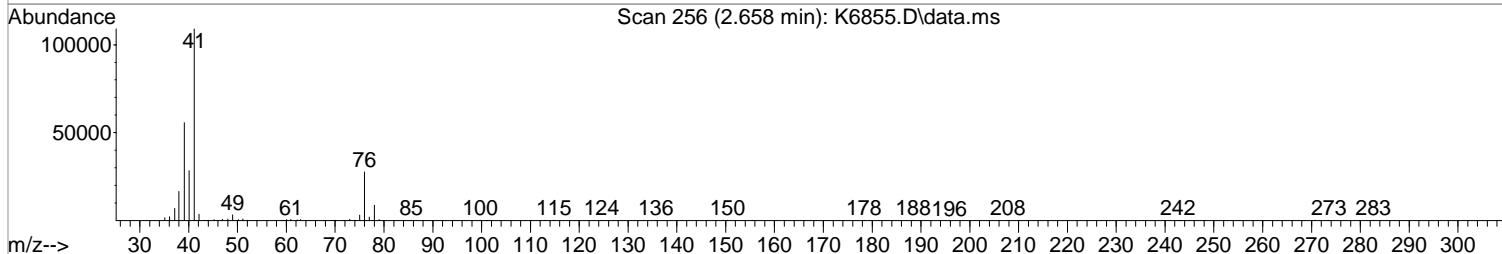
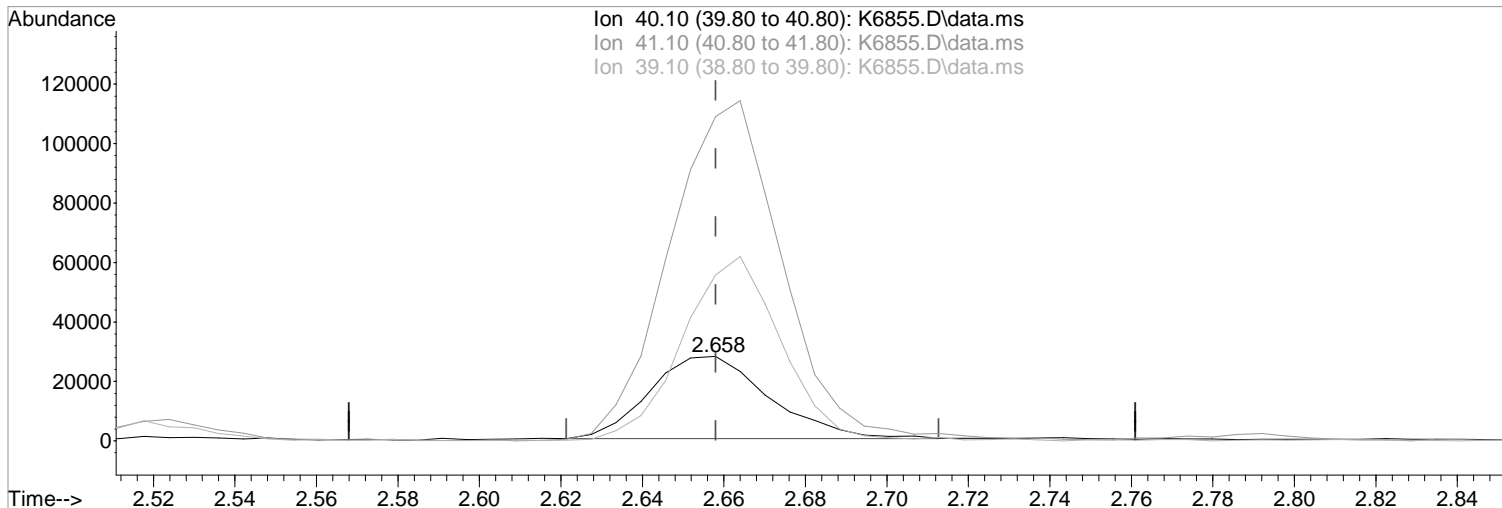
Ion	Exp%	Act%
40.10	100	100
41.10	356.60	383.63#
39.10	180.50	196.15
0.00	0.00	0.00

09/20/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6855.D
Acq On : 20 Sep 2021 11:15 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 11:48:17 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K6855.D\data.ms

(19) Acetonitrile
2.658min (-0.000) 181.00 ppb
response 56279

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	383.63#
39.10	180.50	196.15
0.00	0.00	0.00

09/20/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6855.D
 Acq On : 20 Sep 2021 11:15 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:04:03 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	358809	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.517	114	600762	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	548587	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	255448	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	178166	54.48	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	108.96%	
48) surr1,1,2-dichloroetha...	5.846	65	251051	52.79	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	105.58%	
65) SURR3,Toluene-d8	8.315	98	848953	55.22	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	110.44%	
70) SURR2,BFB	10.870	95	322949	52.92	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	105.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.189	85	119958	24.77	ppb	96
3) Chloromethane	1.317	50	122499	29.39	ppb	100
4) Vinyl Chloride	1.396	62	123810	25.51	ppb	98
5) Bromomethane	1.628	94	78378	24.75	ppb	95
6) Chloroethane	1.707	64	80336	25.22	ppb	86
7) Freon 21	1.859	67	147461	19.03	ppb	95
8) Trichlorofluoromethane	1.896	101	136553	22.19	ppb	97
9) Diethyl Ether	2.134	59	92472	24.34	ppb	96
10) Freon 123a	2.146	67	99282	21.58	ppb	97
11) Freon 123	2.195	83	103798	20.67	ppb	94
12) Acrolein	2.249	56	40184	39.71	ppb	100
13) 1,1-Dicethene	2.323	96	80780	23.15	ppb	91
14) Freon 113	2.323	101	81262	23.84	ppb	90
15) Acetone	2.390	43	38862	17.23	ppb	96
16) 2-Propanol	2.524	45	167993	360.67	ppb	98
17) Iodomethane	2.463	142	75039	19.33	ppb	98
18) Carbon Disulfide	2.518	76	222777	26.38	ppb	98
19) Acetonitrile	2.658	40	36896m	118.66	ppb	
20) Allyl Chloride	2.664	76	50497	23.58	ppb	# 85
21) Methyl Acetate	2.694	43	115998	25.35	ppb	99
22) Methylene Chloride	2.786	84	91272	21.93	ppb	95
23) TBA	2.932	59	299968	370.40	ppb	98
24) Acrylonitrile	3.066	53	246555	107.29	ppb	98
25) Methyl-t-Butyl Ether	3.079	73	310001	22.10	ppb	99
26) trans-1,2-Dichloroethene	3.072	96	87221	22.85	ppb	98
28) 1,1-Dicethane	3.585	63	162569	22.64	ppb	98
29) Vinyl Acetate	3.676	86	13915	13.63	ppb	# 69
30) DIPE	3.688	45	289470	22.56	ppb	84
31) 2-Chloro-1,3-Butadiene	3.700	53	142706	23.25	ppb	94
32) ETBE	4.219	59	281797	21.71	ppb	97
33) 2,2-Dichloropropane	4.420	77	132358	22.11	ppb	97
34) cis-1,2-Dichloroethene	4.438	96	100251	22.80	ppb	97
35) 2-Butanone	4.505	43	56598	18.26	ppb	94
36) Propionitrile	4.615	54	100495	99.95	ppb	87
37) Bromochloromethane	4.840	130	53155	21.17	ppb	90
38) Methacrylonitrile	4.877	67	53363	21.84	ppb	93
39) Tetrahydrofuran	4.932	42	37826	18.29	ppb	95
40) Chloroform	5.017	83	152622	21.57	ppb	99
41) 1,1,1-Trichloroethane	5.292	97	127806	22.25	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6855.D
 Acq On : 20 Sep 2021 11:15 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:04:03 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.121	73	287690	22.84	ppb	97
44) Cyclohexane	5.346	41	75179	18.91	ppb	92
46) Carbontetrachloride	5.554	117	96402	20.83	ppb	94
47) 1,1-Dichloropropene	5.578	75	126780	23.19	ppb	96
49) Benzene	5.895	78	373452	21.93	ppb	98
50) 1,2-Dichloroethane	5.956	62	133456	20.86	ppb	99
51) Iso-Butyl Alcohol	5.950	43	128086	372.89	ppb	98
52) n-Heptane	6.346	43	121377	23.60	ppb	93
53) 1-Butanol	6.895	56	203098	908.92	ppb	98
54) Trichloroethene	6.834	130	89159	21.09	ppb	94
55) Methylcyclohexane	7.047	55	122841	22.09	ppb	97
56) 1,2-Diclpropane	7.127	63	95349	21.58	ppb	100
57) Dibromomethane	7.273	93	55242	21.82	ppb	88
58) 1,4-Dioxane	7.334	88	38759	400.37	ppb	100
59) Methyl Methacrylate	7.346	69	83937	20.70	ppb	94
60) Bromodichloromethane	7.492	83	112174	20.98	ppb	98
63) cis-1,3-Dichloropropene	8.029	75	149268	23.13	ppb	98
64) 4-Methyl-2-pentanone	8.242	43	112731	19.15	ppb	94
66) Toluene	8.382	91	414384	22.71	ppb	97
67) trans-1,3-Dichloropropene	8.669	75	137216	22.93	ppb	93
68) Ethyl Methacrylate	8.797	69	129540	19.62	ppb	93
69) 1,1,2-Trichloroethane	8.858	97	86527	21.23	ppb	98
72) Tetrachloroethene	8.968	164	63885	20.21	ppb	96
73) 2-Hexanone	9.144	43	80815	18.71	ppb	99
74) 1,3-Dichloropropane	9.023	76	160601	21.96	ppb	98
75) Dibromochloromethane	9.248	129	71939	21.63	ppb	97
76) N-Butyl Acetate	9.285	43	158878	19.26	ppb	97
77) 1,2-Dibromoethane	9.346	107	85218	21.08	ppb	93
78) Chlorobenzene	9.821	112	253923	21.75	ppb	98
79) 3-CBTF	9.839	180	121833	21.34	ppb	98
80) 4-CBTF	9.894	180	104512	19.74	ppb	91
81) 1,1,1,2-Tetrachloroethane	9.913	131	76538	22.10	ppb	88
82) Ethylbenzene	9.937	106	136992	21.30	ppb	95
83) (m+p)Xylene	10.047	106	351812	45.25	ppb	93
84) o-Xylene	10.406	106	165239	21.52	ppb	99
85) Styrene	10.425	104	280271	21.81	ppb	99
87) Bromoform	10.583	173	43963	22.16	ppb	96
88) 2-CBTF	10.656	180	113337	21.66	ppb	95
89) Isopropylbenzene	10.736	105	430879	24.87	ppb	97
90) Cyclohexanone	10.821	55	108407	116.99	ppb	96
91) trans-1,4-Dichloro-2-B...	11.059	53	30156	20.72	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.010	83	123565	22.99	ppb	100
93) Bromobenzene	10.986	156	100786	22.60	ppb	# 86
94) 1,2,3-Trichloropropane	11.040	110	39055	20.56	ppb	96
95) n-Propylbenzene	11.089	91	533401	24.67	ppb	97
96) 2-Chlorotoluene	11.156	91	311354	22.75	ppb	99
97) 3-Chlorotoluene	11.211	91	314830	23.00	ppb	98
98) 4-Chlorotoluene	11.248	91	365686	23.79	ppb	98
99) 1,3,5-Trimethylbenzene	11.242	105	377512	23.45	ppb	99
100) tert-Butylbenzene	11.510	119	313056	23.66	ppb	99
101) 1,2,4-Trimethylbenzene	11.553	105	374949	23.35	ppb	97
102) 3,4-DCBTF	11.613	214	90156	20.87	ppb	98
103) sec-Butylbenzene	11.693	105	460533	24.24	ppb	97
104) p-Isopropyltoluene	11.815	119	384160	23.08	ppb	98
105) 1,3-Dclbenz	11.778	146	191964	22.01	ppb	94
106) 1,4-Dclbenz	11.857	146	193361	20.59	ppb	98

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
 Data File : K6855.D
 Acq On : 20 Sep 2021 11:15 am
 Operator : K.Ruest
 Sample : LCS-FP Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 12:04:03 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

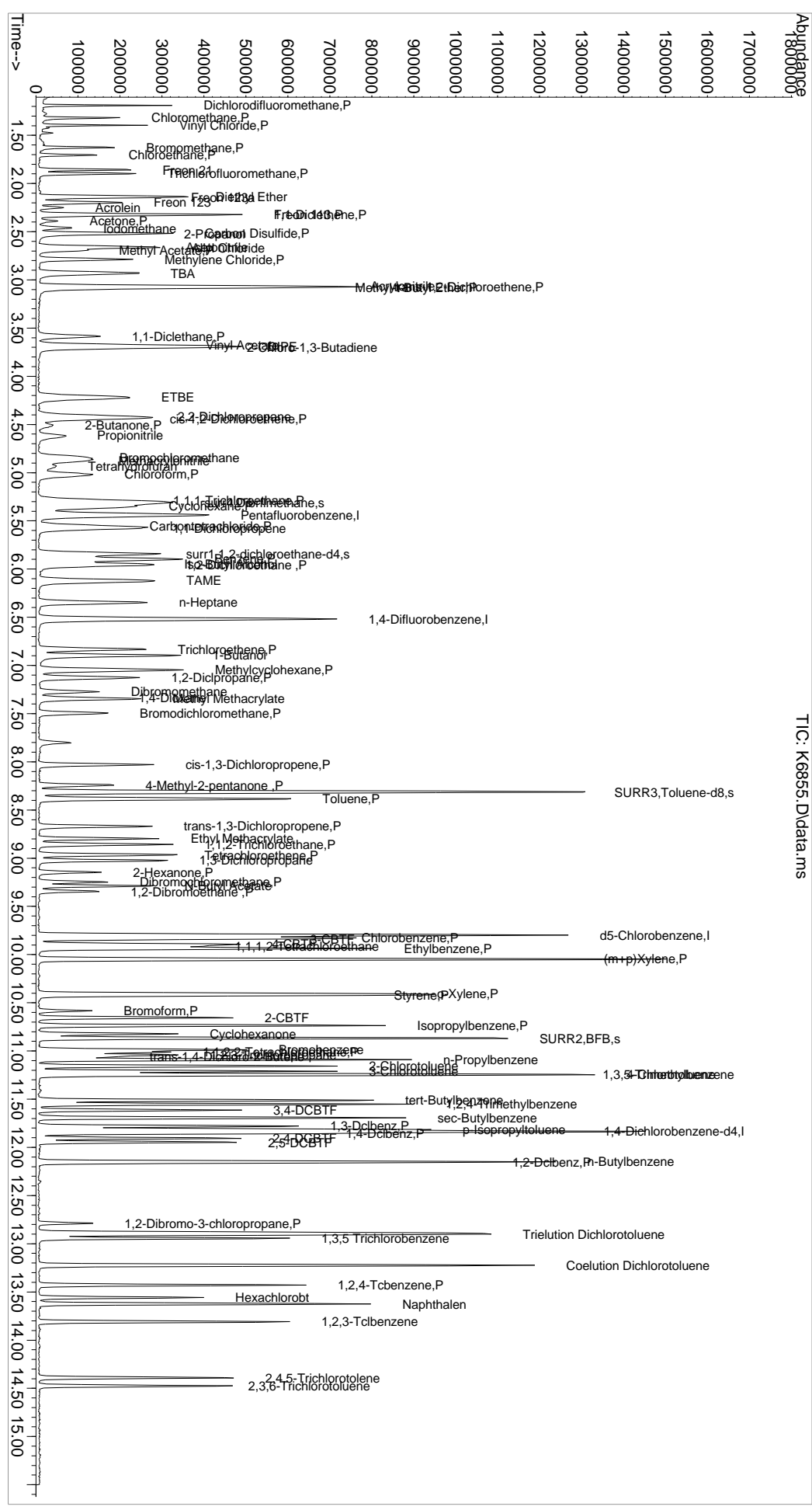
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,4-DCBTF	11.906	214	83266	21.92	ppb	96
108) 2,5-DCBTF	11.949	214	89761	21.30	ppb	97
109) n-Butylbenzene	12.150	91	364563	23.70	ppb	99
110) 1,2-Dclbenz	12.156	146	197870	22.78	ppb	94
111) 1,2-Dibromo-3-chloropr...	12.790	157	26860	23.00	ppb	96
112) Trielution Dichlorotol...	12.900	125	537531	65.74	ppb	98
113) 1,3,5 Trichlorobenzene	12.942	180	139881	21.86	ppb	92
114) Coelution Dichlorotoluene	13.223	125	398739	45.02	ppb	97
115) 1,2,4-Tcbenzene	13.430	180	142974	22.83	ppb	98
116) Hexachlorobt	13.558	225	54751	22.19	ppb	93
117) Naphthalen	13.625	128	462060	23.47	ppb	100
118) 1,2,3-Tclbenzene	13.808	180	140917	22.47	ppb	98
119) 2,4,5-Trichlorotolene	14.393	159	103630	23.52	ppb	98
120) 2,3,6-Trichlorotoluene	14.479	159	85512	20.84	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

09/20/21
Data Path : I:\ACQDATA\msvoa12\Data\092021\
Data File : K6855.D
Acq On : 20 Sep 2021 11:15 am
Operator : K.Ruest
Sample : LCS-FP
Inst : MSVOA-12
Sample Vial : 1
Sample Multiplier: 1

Quant Time: Sep 20 12:04:03 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B MATERS 10mL Purge
Qlast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

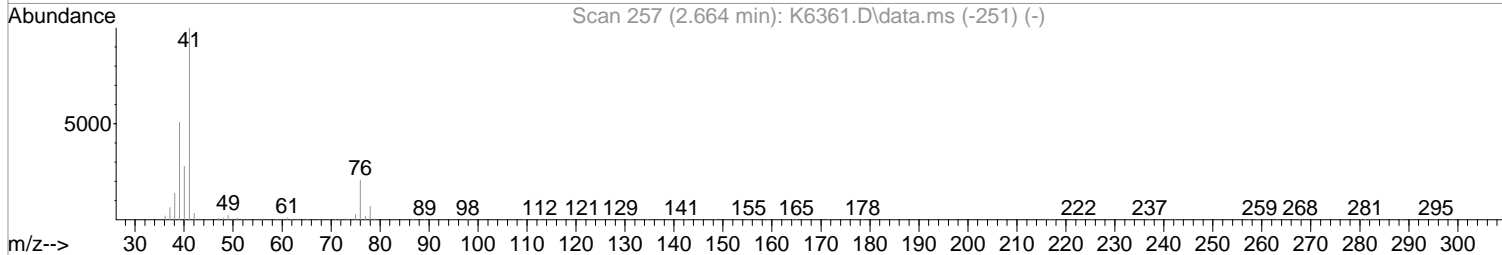
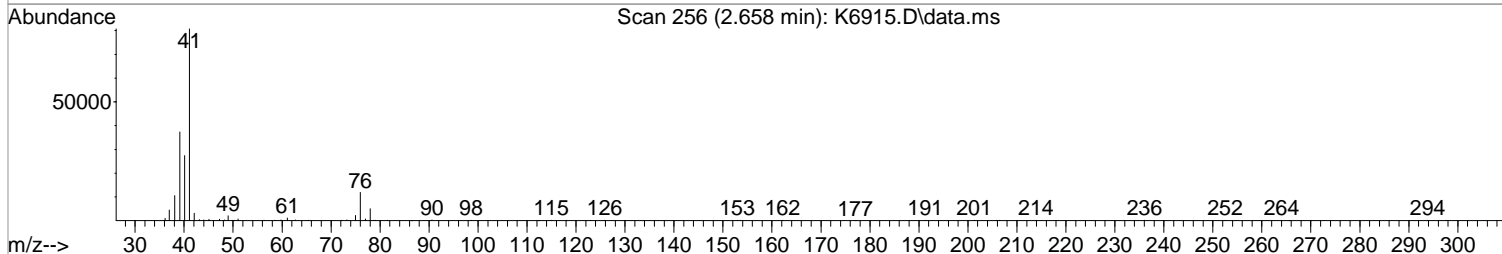
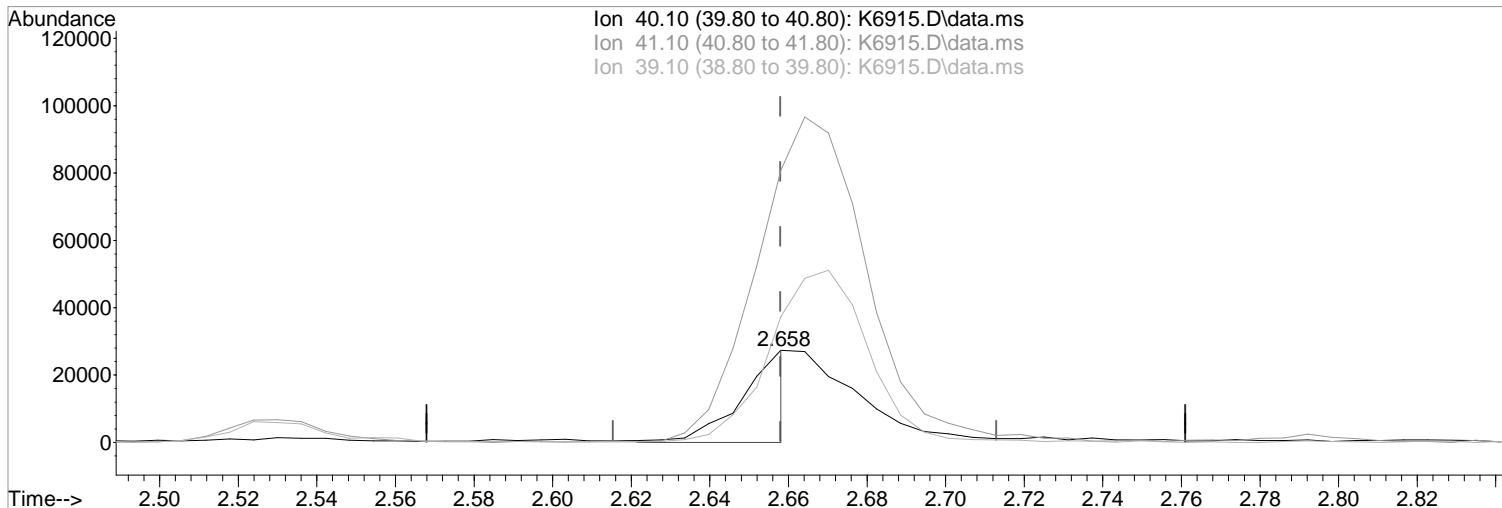
TIC: K6855.D\data.ms



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6915.D
Acq On : 21 Sep 2021 11:16 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:04:35 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.658min (+0.000) 75.33 ppb m
response 23137

Manual Integration:
After
Poor integration.

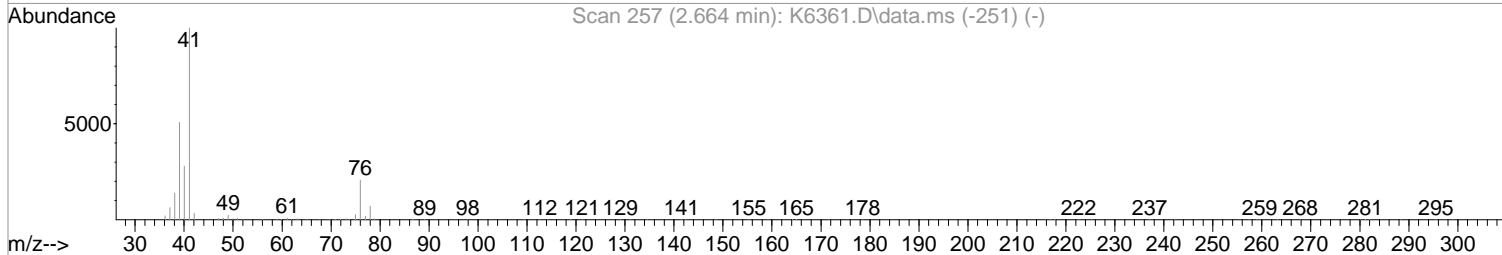
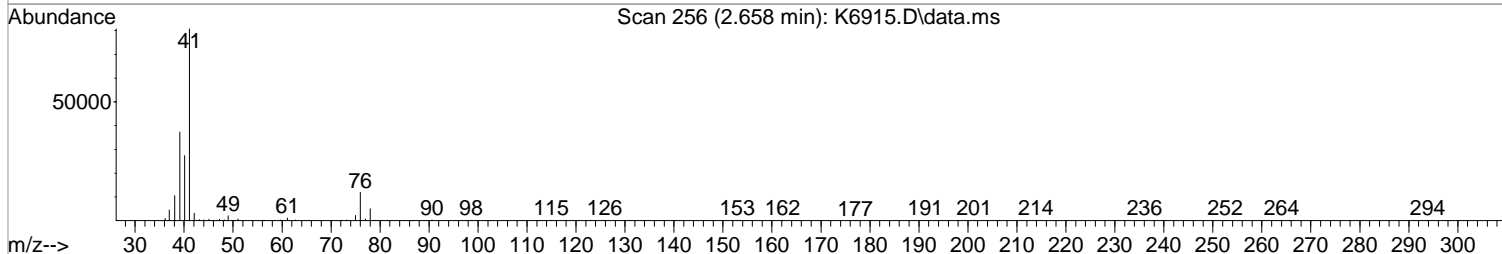
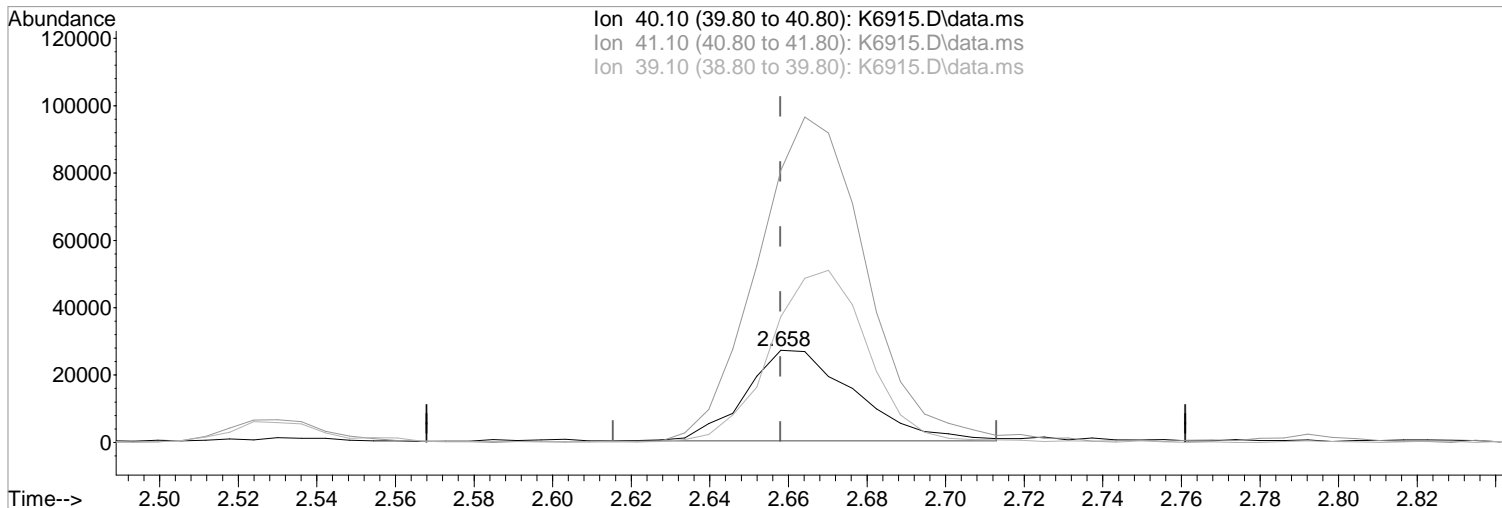
Ion	Exp%	Act%
40.10	100	100
41.10	356.60	295.06#
39.10	180.50	136.28#
0.00	0.00	0.00

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6915.D
Acq On : 21 Sep 2021 11:16 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:04:35 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.658min (+0.000) 170.92 ppb
response 52493

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	295.06#
39.10	180.50	136.28#
0.00	0.00	0.00

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6915.D
 Acq On : 21 Sep 2021 11:16 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:05:09 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	354416	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	607947	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	549833	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	261058	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	172057	51.99	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	103.98%	
48) surr1,1,2-dichloroetha...	5.846	65	252760	52.52	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	105.04%	
65) SURR3,Toluene-d8	8.315	98	843646	54.23	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	108.46%	
70) SURR2,BFB	10.870	95	322355	52.20	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	104.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.195	85	98883	20.67	ppb	98
3) Chloromethane	1.323	50	106631	25.90	ppb	94
4) Vinyl Chloride	1.402	62	104520	21.80	ppb	100
5) Bromomethane	1.634	94	67157	21.47	ppb	95
6) Chloroethane	1.713	64	65700	20.88	ppb	93
7) Freon 21	1.865	67	133740	17.48	ppb	99
8) Trichlorofluoromethane	1.902	101	108778	17.90	ppb	99
9) Diethyl Ether	2.140	59	81997	21.85	ppb	94
10) Freon 123a	2.146	67	87608	19.28	ppb	95
11) Freon 123	2.207	83	91892	18.53	ppb	94
12) Acrolein	2.256	56	38230	38.24	ppb	93
13) 1,1-Dicethene	2.329	96	63051	18.29	ppb	93
14) Freon 113	2.329	101	60948	18.10	ppb	92
15) Acetone	2.390	43	36885	16.47	ppb	90
16) 2-Propanol	2.530	45	156077	339.24	ppb	99
17) Iodomethane	2.469	142	72809	19.02	ppb	96
18) Carbon Disulfide	2.524	76	213243	25.57	ppb	100
19) Acetonitrile	2.658	40	23137m	75.33	ppb	
20) Allyl Chloride	2.670	76	38499	18.20	ppb	# 87
21) Methyl Acetate	2.701	43	108779	24.07	ppb	98
22) Methylene Chloride	2.792	84	81581	19.84	ppb	90
23) TBA	2.938	59	263296	329.15	ppb	93
24) Acrylonitrile	3.073	53	225492	99.34	ppb	99
25) Methyl-t-Butyl Ether	3.085	73	274459	19.81	ppb	98
26) trans-1,2-Dichloroethene	3.073	96	75880	20.12	ppb	92
28) 1,1-Dicethane	3.591	63	140661	19.83	ppb	94
29) Vinyl Acetate	3.688	86	11458	11.37	ppb	# 33
30) DIPE	3.688	45	267218	21.08	ppb	88
31) 2-Chloro-1,3-Butadiene	3.707	53	137356	22.66	ppb	94
32) ETBE	4.225	59	257891	20.11	ppb	99
33) 2,2-Dichloropropane	4.420	77	112144	18.97	ppb	96
34) cis-1,2-Dichloroethene	4.444	96	84043	19.35	ppb	94
35) 2-Butanone	4.511	43	56349	18.41	ppb	95
36) Propionitrile	4.633	54	93077	93.72	ppb	96
37) Bromochloromethane	4.841	130	49276	19.87	ppb	99
38) Methacrylonitrile	4.883	67	47615	19.73	ppb	99
39) Tetrahydrofuran	4.944	42	35327	17.30	ppb	83
40) Chloroform	5.030	83	138822	19.82	ppb	95
41) 1,1,1-Trichloroethane	5.298	97	102995	18.15	ppb	93

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6915.D
 Acq On : 21 Sep 2021 11:16 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:05:09 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	264073	21.22	ppb	97
44) Cyclohexane	5.359	41	68563	17.04	ppb	83
46) Carbontetrachloride	5.560	117	71117	15.19	ppb	94
47) 1,1-Dichloropropene	5.584	75	102395	18.51	ppb	96
49) Benzene	5.907	78	323050	18.74	ppb	97
50) 1,2-Dichloroethane	5.962	62	120897	18.67	ppb	93
51) Iso-Butyl Alcohol	5.956	43	107425	309.04	ppb	100
52) n-Heptane	6.346	43	91323	17.54	ppb	87
53) 1-Butanol	6.901	56	190254	841.38	ppb	99
54) Trichloroethene	6.834	130	75438	17.63	ppb	98
55) Methylcyclohexane	7.054	55	106719	18.96	ppb	97
56) 1,2-Diclpropane	7.133	63	86844	19.42	ppb	99
57) Dibromomethane	7.273	93	51023	19.91	ppb	98
58) 1,4-Dioxane	7.340	88	35233	359.65	ppb	91
59) Methyl Methacrylate	7.352	69	75038	18.29	ppb	97
60) Bromodichloromethane	7.499	83	98149	18.14	ppb	99
63) cis-1,3-Dichloropropene	8.035	75	128936	19.74	ppb	99
64) 4-Methyl-2-pentanone	8.242	43	110454	18.54	ppb	98
66) Toluene	8.389	91	351502	19.04	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	125301	20.69	ppb	93
68) Ethyl Methacrylate	8.797	69	115055	17.22	ppb	100
69) 1,1,2-Trichloroethane	8.858	97	76469	18.54	ppb	97
72) Tetrachloroethene	8.962	164	50903	16.06	ppb	95
73) 2-Hexanone	9.145	43	77836	17.98	ppb	92
74) 1,3-Dichloropropane	9.029	76	149110	20.35	ppb	95
75) Dibromochloromethane	9.248	129	62199	18.66	ppb	98
76) N-Butyl Acetate	9.291	43	143791	17.39	ppb	92
77) 1,2-Dibromoethane	9.340	107	78275	19.32	ppb	83
78) Chlorobenzene	9.827	112	220256	18.82	ppb	95
79) 3-CBTF	9.840	180	100742	17.60	ppb	95
80) 4-CBTF	9.894	180	92196	17.37	ppb	98
81) 1,1,1,2-Tetrachloroethane	9.913	131	69010	19.88	ppb	94
82) Ethylbenzene	9.937	106	114997	17.84	ppb	93
83) (m+p)Xylene	10.047	106	288204	36.98	ppb	97
84) o-Xylene	10.407	106	140911	18.31	ppb	92
85) Styrene	10.425	104	242175	18.80	ppb	97
87) Bromoform	10.583	173	36843	18.17	ppb	80
88) 2-CBTF	10.656	180	94693	17.70	ppb	96
89) Isopropylbenzene	10.736	105	346082	19.54	ppb	97
90) Cyclohexanone	10.821	55	91920	97.07	ppb	96
91) trans-1,4-Dichloro-2-B...	11.059	53	23767	16.08	ppb	94
92) 1,1,2,2-Tetrachloroethane	11.016	83	103938	18.93	ppb	98
93) Bromobenzene	10.992	156	87113	19.11	ppb	99
94) 1,2,3-Trichloropropane	11.047	110	37430	19.25	ppb	# 88
95) n-Propylbenzene	11.089	91	433465	19.61	ppb	99
96) 2-Chlorotoluene	11.156	91	266886	19.08	ppb	98
97) 3-Chlorotoluene	11.211	91	279365	19.97	ppb	99
98) 4-Chlorotoluene	11.254	91	318157	20.25	ppb	94
99) 1,3,5-Trimethylbenzene	11.242	105	316405	19.23	ppb	96
100) tert-Butylbenzene	11.510	119	246563	18.23	ppb	99
101) 1,2,4-Trimethylbenzene	11.553	105	321626	19.60	ppb	96
102) 3,4-DCBTF	11.614	214	77527	17.56	ppb	94
103) sec-Butylbenzene	11.693	105	372244	19.18	ppb	98
104) p-Isopropyltoluene	11.815	119	315324	18.54	ppb	100
105) 1,3-Dclbenz	11.784	146	167537	18.79	ppb	98
106) 1,4-Dclbenz	11.857	146	171320	17.85	ppb	100

Data Path : I:\ACQUDATA\msvoal2\Data\092121\
 Data File : K6915.D
 Acq On : 21 Sep 2021 11:16 am
 Operator : K.Ruest
 Sample : LCS-FP Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

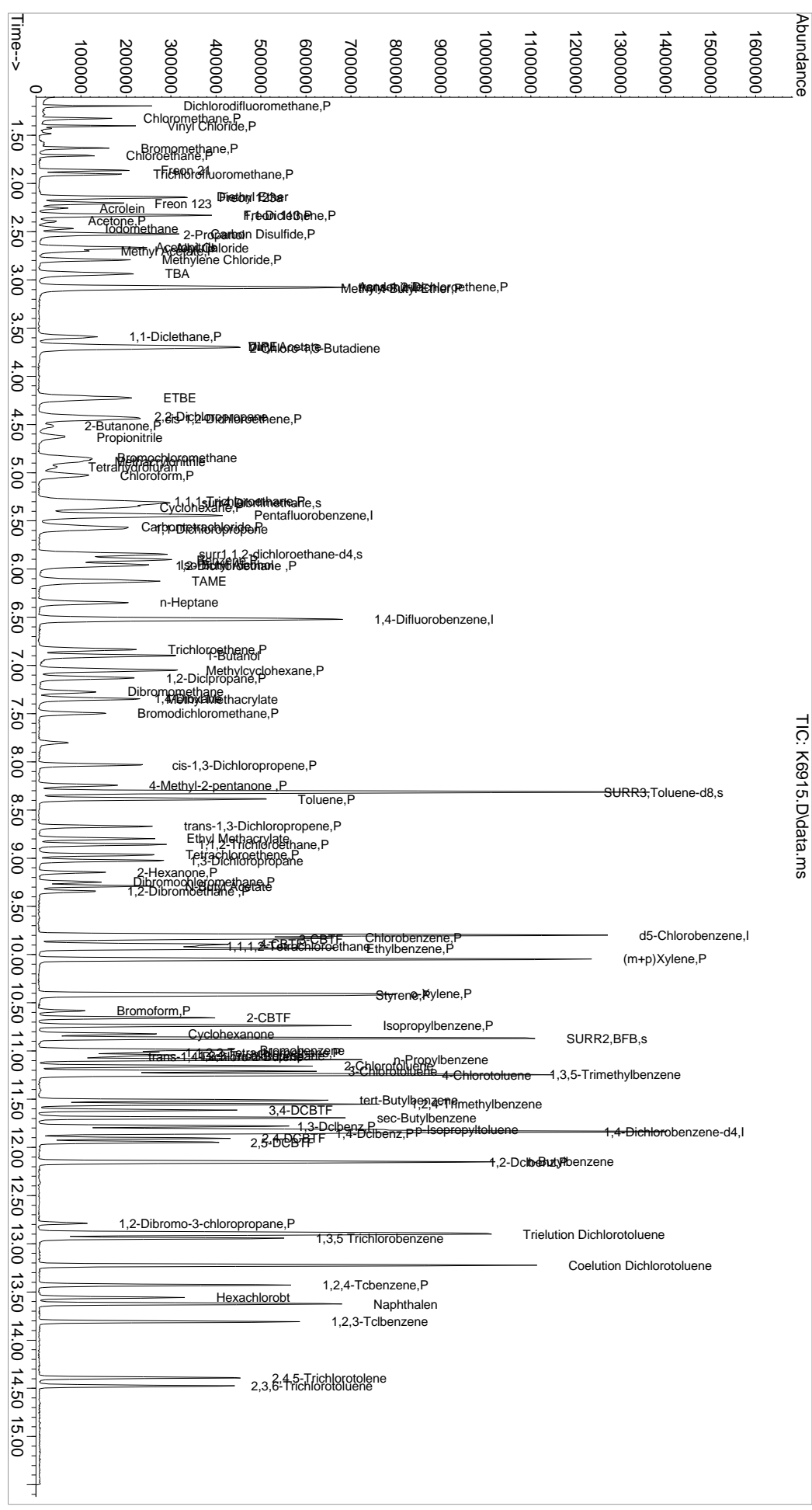
Quant Time: Sep 21 12:05:09 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,4-DCBTF	11.906	214	72882	18.78	ppb #	92
108) 2,5-DCBTF	11.949	214	82331	19.12	ppb	94
109) n-Butylbenzene	12.150	91	304425	19.36	ppb	97
110) 1,2-Dclbenz	12.156	146	168832	19.02	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.790	157	20827	17.45	ppb #	83
112) Trielution Dichlorotol...	12.900	125	492747	58.97	ppb	98
113) 1,3,5 Trichlorobenzene	12.943	180	125230	19.15	ppb #	94
114) Coelution Dichlorotoluene	13.223	125	374104	41.33	ppb	95
115) 1,2,4-Tcbenzene	13.430	180	128626	20.10	ppb	98
116) Hexachlorobt	13.558	225	43743	17.35	ppb	100
117) Naphthalen	13.625	128	411137	20.44	ppb	99
118) 1,2,3-Tclbenzene	13.808	180	124731	19.46	ppb	97
119) 2,4,5-Trichlorotolene	14.394	159	93560	20.78	ppb	98
120) 2,3,6-Trichlorotoluene	14.479	159	82642	19.71	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

09/21/21
Data Path : I:\ACQDATA\msvoa12\Data\092121\
Data File : K6915.D
Acq On : 21 Sep 2021 11:16 am
Operator : K.Ruest
Sample : LCS-FP
Inst : MSVOA-12
PALS Vial : 1 Sample Multiplier: 1

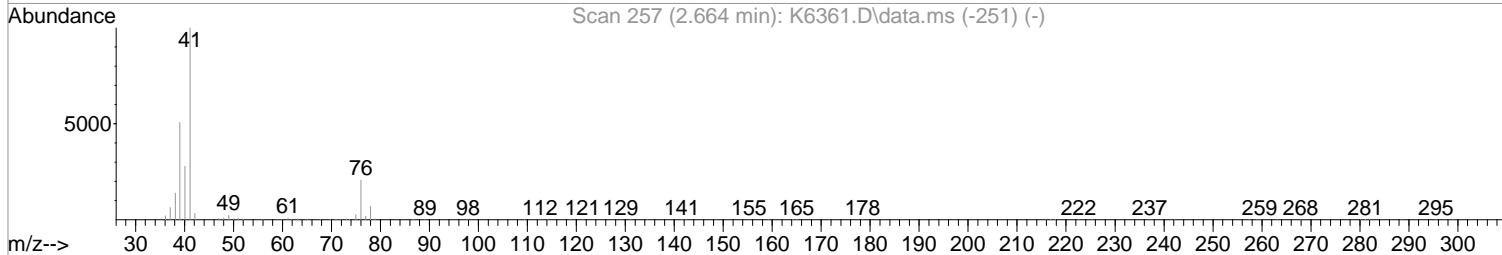
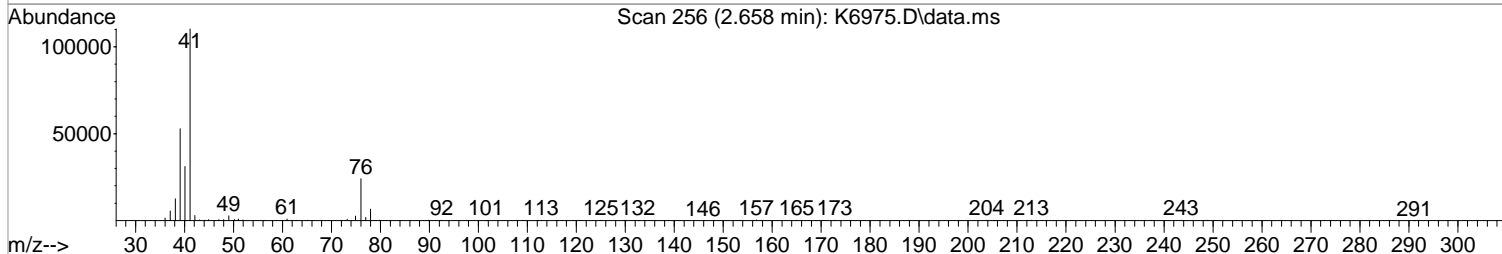
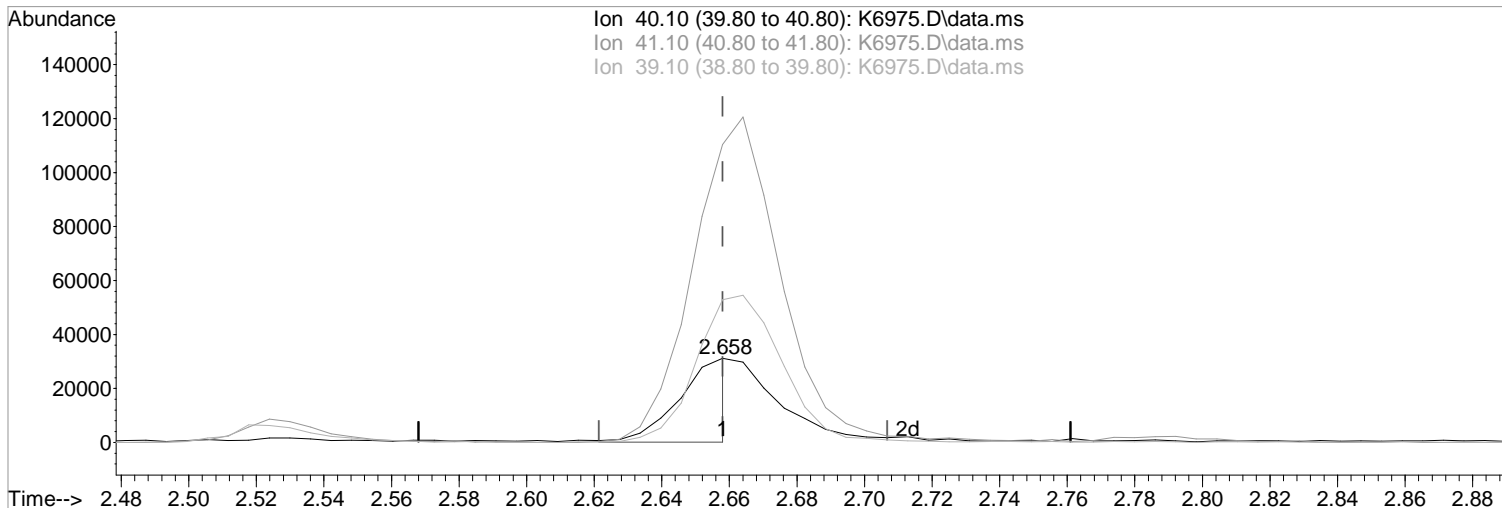
Quant Time: Sep 21 12:05:09 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B MATERS 10mL Purge
QIast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\092221\
Data File : K6975.D
Acq On : 22 Sep 2021 10:50 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 11:07:07 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.658min (-0.000) 106.48 ppb m
response 32303

Manual Integration:
After
Poor integration.

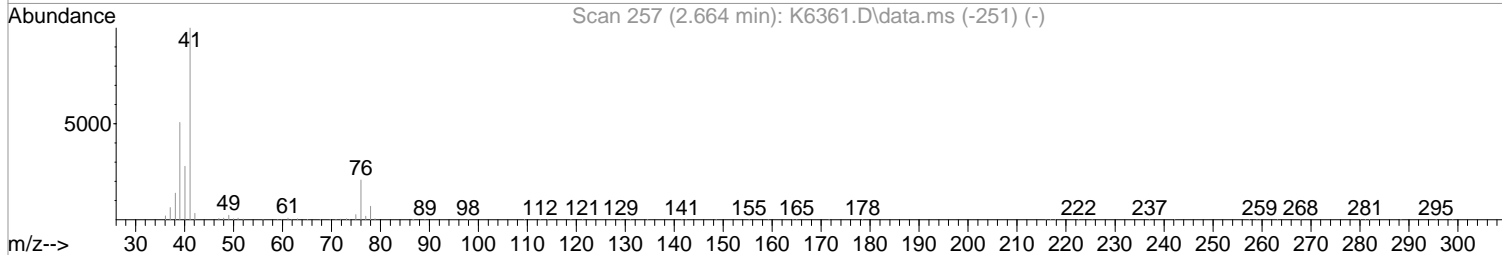
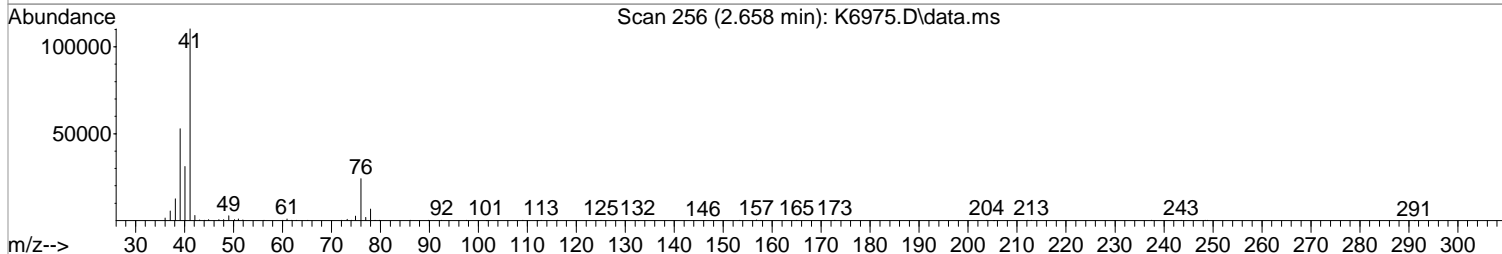
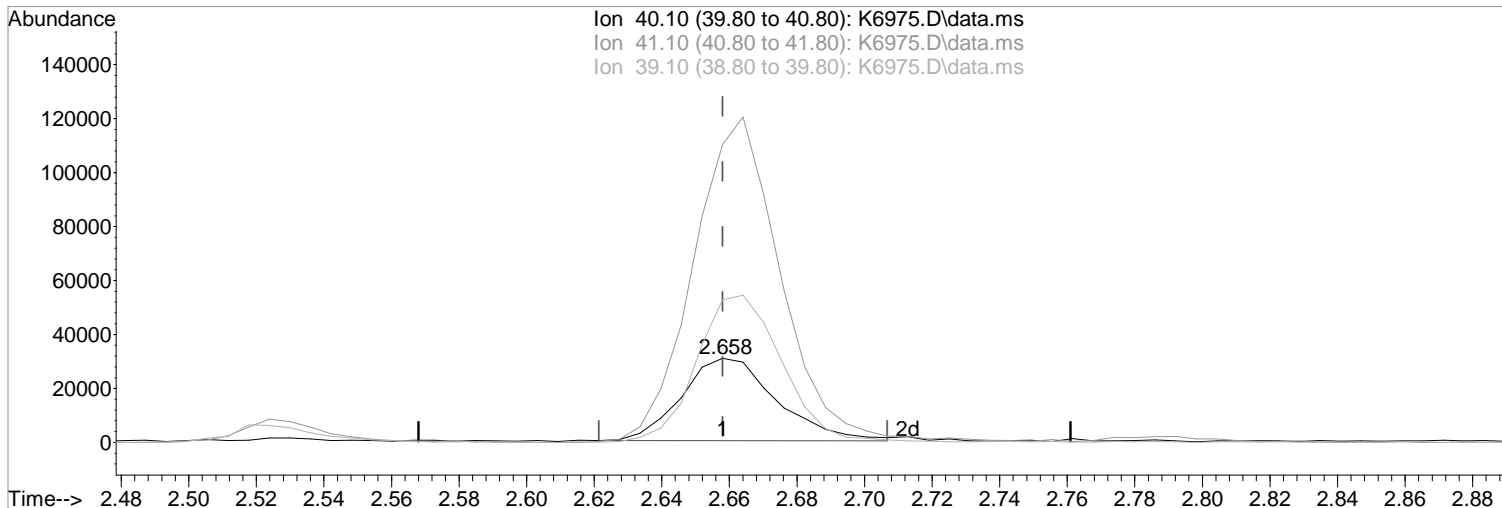
Ion	Exp%	Act%
40.10	100	100
41.10	356.60	353.89
39.10	180.50	169.35
0.00	0.00	0.00

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
Data File : K6975.D
Acq On : 22 Sep 2021 10:50 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 11:07:07 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.658min (-0.000) 196.83 ppb
response 59713

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	353.89
39.10	180.50	169.35
0.00	0.00	0.00

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6975.D
 Acq On : 22 Sep 2021 10:50 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 11:07:43 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	350089	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	595140	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	536039	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	255149	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	175158	54.06	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery =	108.12%		
48) surr1,1,2-dichloroetha...	5.846	65	248178	52.68	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	105.36%		
65) SURR3,Toluene-d8	8.315	98	837141	54.97	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	109.94%		
70) SURR2,BFB	10.870	95	319029	52.77	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	105.54%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.189	85	110121	23.31	ppb	98
3) Chloromethane	1.317	50	120372	29.60	ppb	95
4) Vinyl Chloride	1.396	62	117593	24.83	ppb	100
5) Bromomethane	1.628	94	71338	23.09	ppb	99
6) Chloroethane	1.707	64	74278	23.90	ppb	98
7) Freon 21	1.859	67	147925	19.57	ppb	96
8) Trichlorofluoromethane	1.902	101	126974	21.15	ppb	95
9) Diethyl Ether	2.134	59	89260	24.08	ppb	99
10) Freon 123a	2.146	67	99237	22.10	ppb	95
11) Freon 123	2.201	83	100862	20.59	ppb	94
12) Acrolein	2.256	56	54700	55.40	ppb	100
13) 1,1-Dicethene	2.329	96	73062	21.46	ppb	# 81
14) Freon 113	2.323	101	75952	22.84	ppb	80
15) Acetone	2.390	43	40509	18.57	ppb	99
16) 2-Propanol	2.524	45	185312	407.76	ppb	98
17) Iodomethane	2.463	142	77100	20.27	ppb	96
18) Carbon Disulfide	2.518	76	228497	27.74	ppb	100
19) Acetonitrile	2.658	40	32303m	106.48	ppb	
20) Allyl Chloride	2.664	76	49426	23.66	ppb	# 89
21) Methyl Acetate	2.695	43	112002	25.09	ppb	97
22) Methylene Chloride	2.792	84	86355	21.26	ppb	93
23) TBA	2.932	59	339672	429.87	ppb	96
24) Acrylonitrile	3.066	53	257380	114.79	ppb	97
25) Methyl-t-Butyl Ether	3.085	73	307120	22.44	ppb	100
26) trans-1,2-Dichloroethene	3.073	96	83157	22.32	ppb	95
28) 1,1-Dicethane	3.591	63	155186	22.15	ppb	95
29) Vinyl Acetate	3.682	86	17306	17.38	ppb	99
30) DIPE	3.688	45	293484	23.44	ppb	98
31) 2-Chloro-1,3-Butadiene	3.700	53	143233	23.92	ppb	96
32) ETBE	4.225	59	286302	22.61	ppb	99
33) 2,2-Dichloropropane	4.420	77	127623	21.85	ppb	99
34) cis-1,2-Dichloroethene	4.438	96	90321	21.05	ppb	87
35) 2-Butanone	4.505	43	64066	21.19	ppb	90
36) Propionitrile	4.627	54	105701	107.75	ppb	92
37) Bromochloromethane	4.847	130	51726	21.12	ppb	89
38) Methacrylonitrile	4.883	67	54599	22.91	ppb	96
39) Tetrahydrofuran	4.932	42	39605	19.63	ppb	93
40) Chloroform	5.023	83	147495	21.36	ppb	91
41) 1,1,1-Trichloroethane	5.298	97	116044	20.70	ppb	94

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6975.D
 Acq On : 22 Sep 2021 10:50 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 11:07:43 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	300998	24.49	ppb	99
44) Cyclohexane	5.359	41	73720	18.72	ppb	98
46) Carbontetrachloride	5.554	117	87935	19.18	ppb	89
47) 1,1-Dichloropropene	5.578	75	122660	22.65	ppb	95
49) Benzene	5.901	78	368625	21.85	ppb	96
50) 1,2-Dichloroethane	5.962	62	131422	20.73	ppb	100
51) Iso-Butyl Alcohol	5.950	43	142428	418.56	ppb	91
52) n-Heptane	6.352	43	114213	22.41	ppb	87
53) 1-Butanol	6.895	56	229199	1035.42	ppb	99
54) Trichloroethene	6.834	130	85977	20.53	ppb	95
55) Methylcyclohexane	7.041	55	119125	21.62	ppb	87
56) 1,2-Diclpropane	7.127	63	93779	21.43	ppb	95
57) Dibromomethane	7.279	93	55297	22.04	ppb	97
58) 1,4-Dioxane	7.346	88	40631	423.67	ppb	98
59) Methyl Methacrylate	7.346	69	87124	21.69	ppb	92
60) Bromodichloromethane	7.498	83	108853	20.55	ppb	94
63) cis-1,3-Dichloropropene	8.035	75	145773	22.80	ppb	99
64) 4-Methyl-2-pentanone	8.242	43	121274	20.79	ppb	99
66) Toluene	8.389	91	398750	22.06	ppb	98
67) trans-1,3-Dichloropropene	8.669	75	135807	22.91	ppb	93
68) Ethyl Methacrylate	8.797	69	132539	20.26	ppb	91
69) 1,1,2-Trichloroethane	8.858	97	87105	21.58	ppb	95
72) Tetrachloroethene	8.968	164	62856	20.35	ppb	95
73) 2-Hexanone	9.145	43	89188	21.13	ppb	95
74) 1,3-Dichloropropene	9.029	76	163579	22.90	ppb	97
75) Dibromochloromethane	9.248	129	68339	21.03	ppb	92
76) N-Butyl Acetate	9.291	43	158848	19.71	ppb	95
77) 1,2-Dibromoethane	9.346	107	84024	21.27	ppb	86
78) Chlorobenzene	9.827	112	239341	20.98	ppb	98
79) 3-CBTF	9.839	180	116418	20.87	ppb	99
80) 4-CBTF	9.894	180	103868	20.08	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.913	131	75100	22.20	ppb	99
82) Ethylbenzene	9.937	106	139352	22.17	ppb	96
83) (m+p)Xylene	10.053	106	325312	42.82	ppb	100
84) o-Xylene	10.406	106	158781	21.16	ppb	94
85) Styrene	10.425	104	270800	21.56	ppb	98
87) Bromoform	10.583	173	41229	20.80	ppb	89
88) 2-CBTF	10.656	180	112959	21.61	ppb	95
89) Isopropylbenzene	10.736	105	409029	23.63	ppb	98
90) Cyclohexanone	10.827	55	120017	129.68	ppb	88
91) trans-1,4-Dichloro-2-B...	11.059	53	30341	20.86	ppb	98
92) 1,1,2,2-Tetrachloroethane	11.010	83	124544	23.20	ppb	94
93) Bromobenzene	10.992	156	97074	21.79	ppb	# 86
94) 1,2,3-Trichloropropane	11.040	110	41267	21.78	ppb	92
95) n-Propylbenzene	11.089	91	512547	23.73	ppb	99
96) 2-Chlorotoluene	11.156	91	302713	22.14	ppb	97
97) 3-Chlorotoluene	11.211	91	319779	23.39	ppb	100
98) 4-Chlorotoluene	11.248	91	350796	22.85	ppb	99
99) 1,3,5-Trimethylbenzene	11.242	105	364837	22.68	ppb	99
100) tert-Butylbenzene	11.510	119	288270	21.81	ppb	97
101) 1,2,4-Trimethylbenzene	11.553	105	358621	22.36	ppb	98
102) 3,4-DCBTF	11.614	214	89281	20.69	ppb	93
103) sec-Butylbenzene	11.693	105	434239	22.89	ppb	99
104) p-Isopropyltoluene	11.815	119	370833	22.31	ppb	97
105) 1,3-Dclbenz	11.784	146	188963	21.69	ppb	98
106) 1,4-Dclbenz	11.857	146	190791	20.34	ppb	98

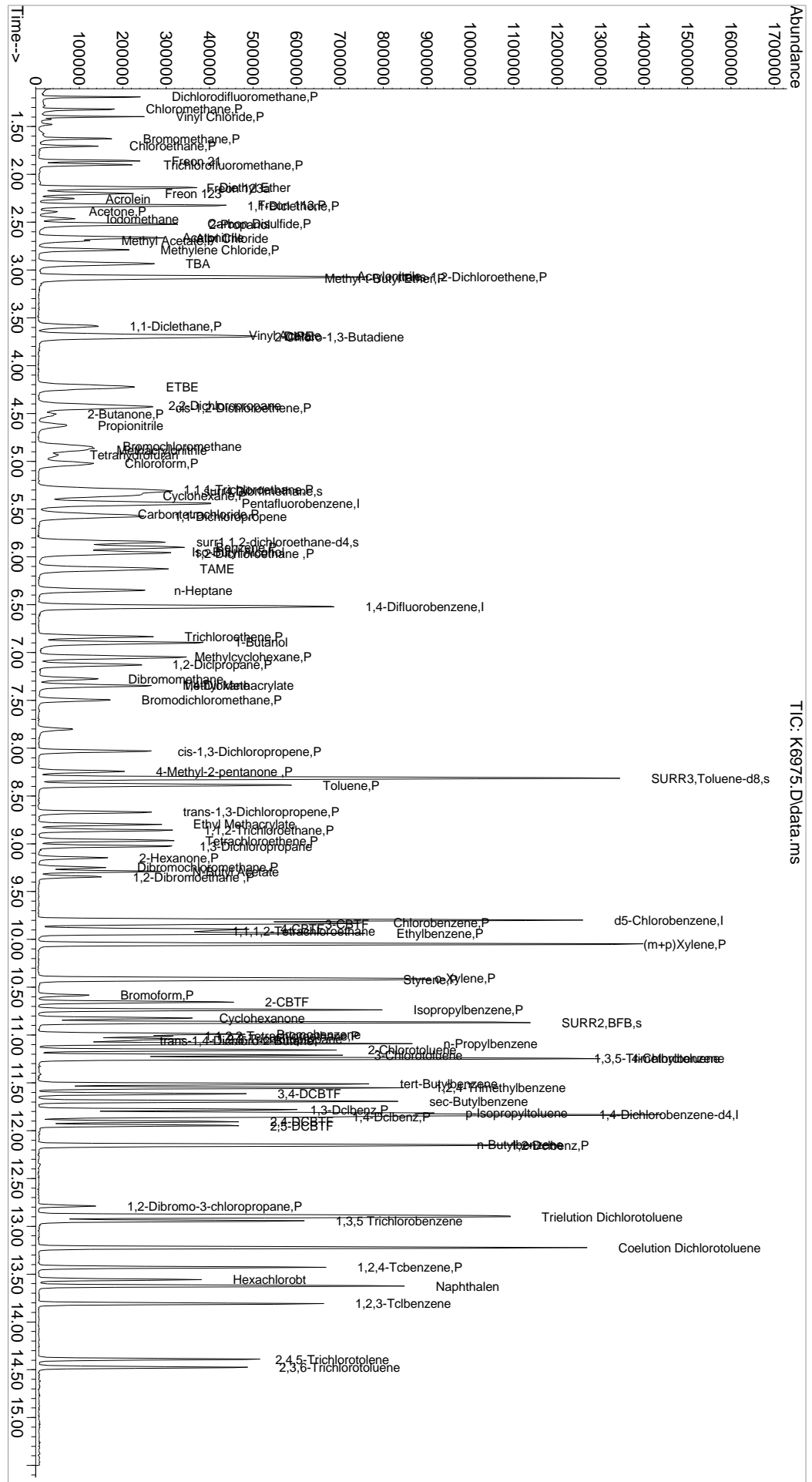
Data Path : I:\ACQUDATA\msvoal2\Data\092221\
 Data File : K6975.D
 Acq On : 22 Sep 2021 10:50 am
 Operator : K.Ruest
 Sample : LCS-FP Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 22 11:07:43 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,4-DCBTF	11.906	214	79736	21.02	ppb	94
108) 2,5-DCBTF	11.949	214	94287	22.40	ppb	98
109) n-Butylbenzene	12.144	91	350907	22.84	ppb	95
110) 1,2-Dclbenz	12.156	146	189075	21.79	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.790	157	25178	21.58	ppb	92
112) Trielution Dichlorotol...	12.900	125	551241	67.50	ppb	98
113) 1,3,5 Trichlorobenzene	12.943	180	140373	21.96	ppb	99
114) Coelution Dichlorotoluene	13.223	125	406016	45.89	ppb	97
115) 1,2,4-Tcbenzene	13.430	180	145843	23.32	ppb	94
116) Hexachlorobt	13.558	225	52078	21.13	ppb	88
117) Naphthalen	13.625	128	499290	25.39	ppb	99
118) 1,2,3-Tclbenzene	13.808	180	146022	23.31	ppb	98
119) 2,4,5-Trichlorotolene	14.393	159	101355	23.03	ppb	95
120) 2,3,6-Trichlorotoluene	14.473	159	87192	21.28	ppb	92

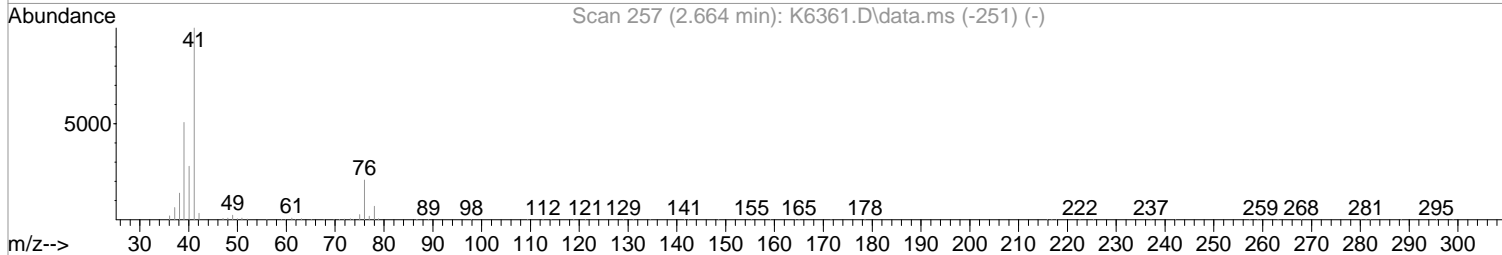
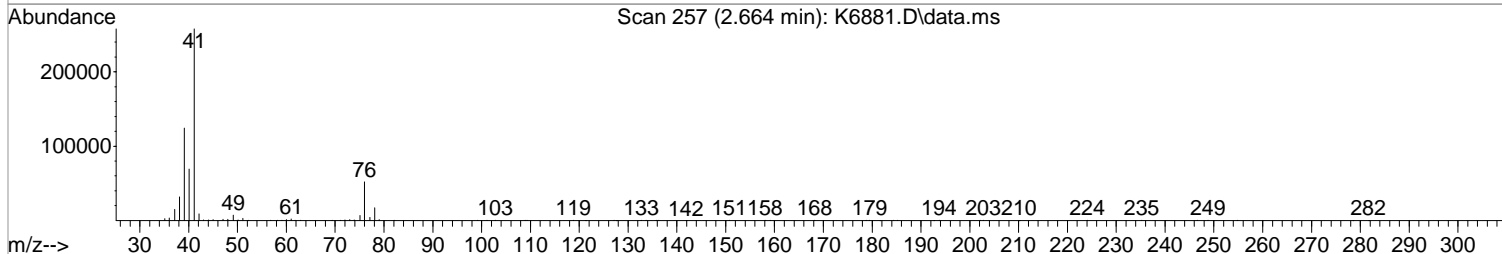
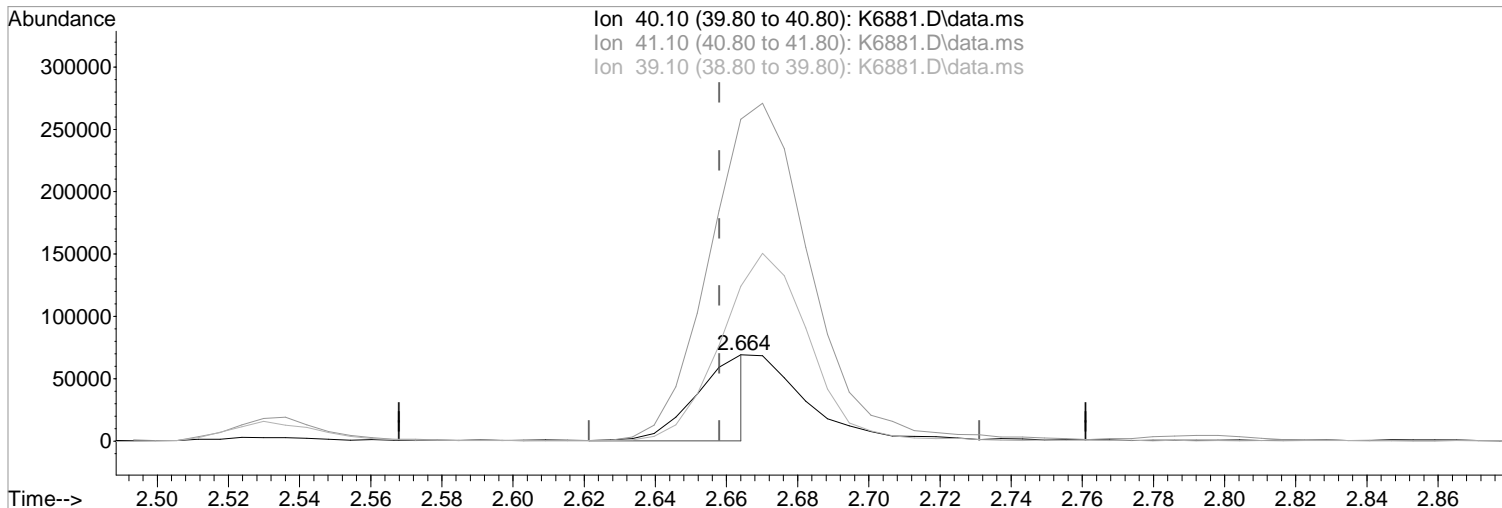
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092221\
 Data File : K6975.D
 Acq On : 22 Sep 2021 10:50 am
 Operator : K.Ruest
 Sample : LCS-FP
 Inst : MSVOA-12
 PALS Vial : 1 Sample Multiplier: 1
 Quant Time: Sep 22 11:07:43 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B MATERS 10mL Purge
 QIast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6881.D
Acq On : 20 Sep 2021 8:48 pm
Operator : K.Ruest
Sample : R2109484-009MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 21 10:05:17 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K6881.D\data.ms

(19) Acetonitrile
2.664min (+0.006) 234.03 ppb m
response 70780

Manual Integration:

After

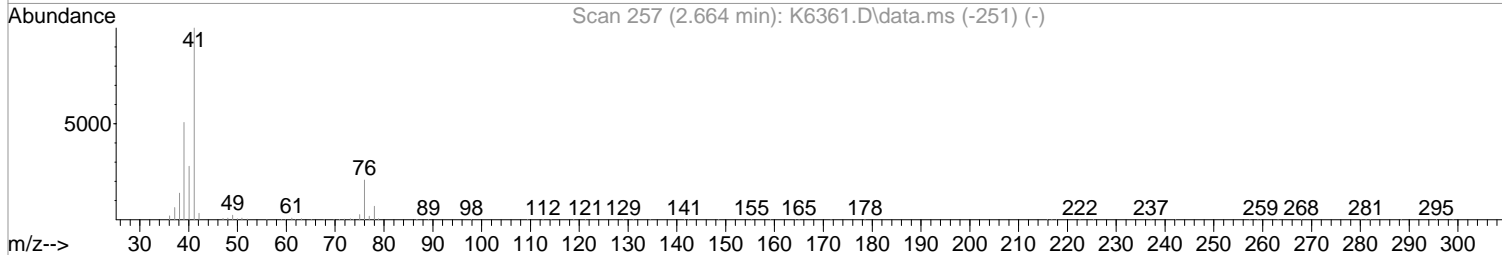
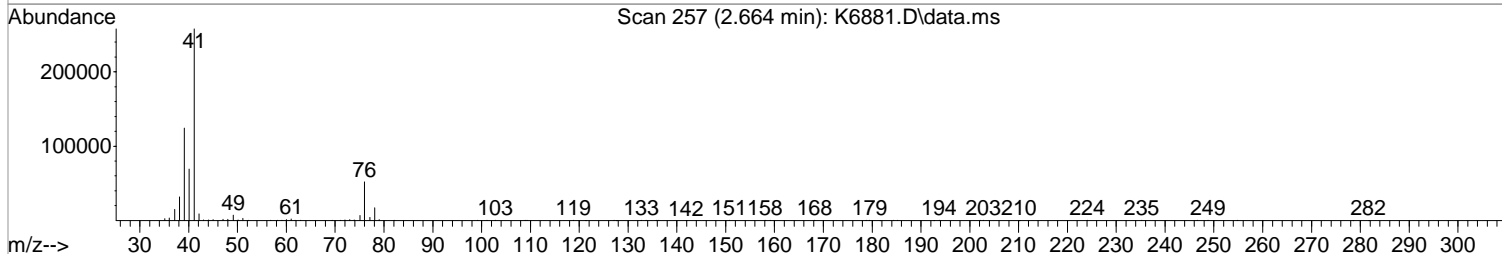
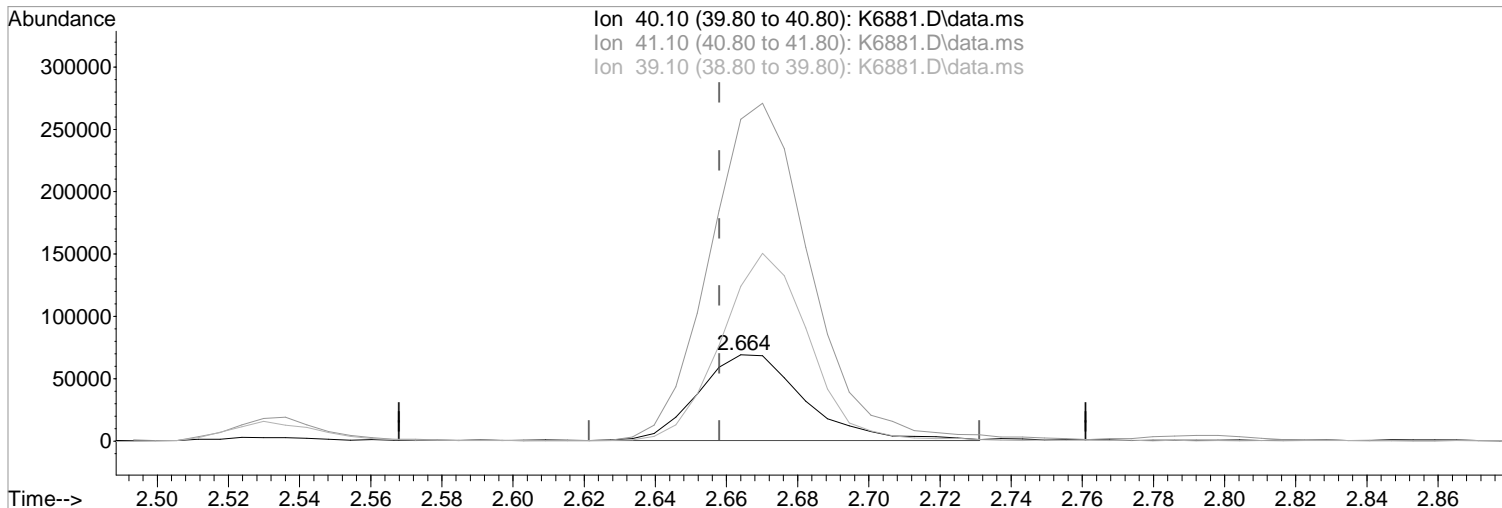
Poor integration.

09/21/21

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	372.64
39.10	180.50	179.45
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6881.D
Acq On : 20 Sep 2021 8:48 pm
Operator : K.Ruest
Sample : R2109484-009MS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 21 10:05:17 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.664min (+0.006) 470.68 ppb
response 142350

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	372.64
39.10	180.50	179.45
0.00	0.00	0.00

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6881.D
 Acq On : 20 Sep 2021 8:48 pm
 Operator : K.Ruest
 Sample : R2109484-009MS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 21 14:47:41 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.450	168	348998	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	587523	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	535446	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	258441	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	173174	54.14	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery	=	108.28%		
48) surr1,1,2-dichloroetha...	5.846	65	252573	54.31	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.62%		
65) SURR3,Toluene-d8	8.315	98	828059	55.08	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	110.16%		
70) SURR2,BFB	10.870	95	317321	53.17	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	106.34%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.195	85	287200	60.98	ppb		99
3) Chloromethane	1.323	50	304723	75.17	ppb		96
4) Vinyl Chloride	1.402	62	429955	91.08	ppb		100
5) Bromomethane	1.634	94	161957	52.58	ppb		98
6) Chloroethane	1.713	64	263875	85.15	ppb		96
7) Freon 21	1.865	67	398144	52.84	ppb		99
8) Trichlorofluoromethane	1.908	101	332080	55.48	ppb		98
9) Diethyl Ether	2.140	59	212377	57.46	ppb		99
10) Freon 123a	2.152	67	279352	62.42	ppb		92
11) Freon 123	2.207	83	272341	55.76	ppb		98
12) Acrolein	2.262	56	86739	88.12	ppb		95
13) 1,1-Diclcethene	2.335	96	208779	61.51	ppb	#	88
14) Freon 113	2.329	101	189701	57.22	ppb		98
15) Acetone	2.396	43	97146	48.58	ppb		95
16) 2-Propanol	2.530	45	439546	970.20	ppb		99
17) Iodomethane	2.469	142	228911	56.01	ppb		100
18) Carbon Disulfide	2.524	76	540908	65.86	ppb		99
19) Acetonitrile	2.664	40	70780m	234.03	ppb		
20) Allyl Chloride	2.670	76	114838	55.14	ppb	#	88
21) Methyl Acetate	2.701	43	285246	64.10	ppb		99
22) Methylene Chloride	2.798	84	213585	52.76	ppb		90
23) TBA	2.938	59	732898	930.42	ppb		94
24) Acrylonitrile	3.079	53	603375	269.94	ppb		100
25) Methyl-t-Butyl Ether	3.085	73	735301	53.90	ppb		99
26) trans-1,2-Dichloroethene	3.085	96	233646	62.92	ppb		97
28) 1,1-Diclcethane	3.591	63	626451	89.69	ppb		100
29) Vinyl Acetate	3.694	86	30345	30.57	ppb	#	9
30) DIPE	3.700	45	715101	57.29	ppb	#	80
31) 2-Chloro-1,3-Butadiene	3.706	53	351489	58.88	ppb		99
32) ETBE	4.231	59	674295	53.41	ppb		98
33) 2,2-Dichloropropane	4.432	77	317023	54.45	ppb		90
34) cis-1,2-Dichloroethene	4.444	96	1151806	269.28	ppb		97
35) 2-Butanone	4.517	43	142899	47.40	ppb		99
36) Propionitrile	4.633	54	239578	244.98	ppb		100
37) Bromochloromethane	4.853	130	126808	51.93	ppb		94
38) Methacrylonitrile	4.889	67	121382	51.08	ppb		91
39) Tetrahydrofuran	4.950	42	94470	46.97	ppb		89
40) Chloroform	5.029	83	358187	52.74	ppb		97
41) 1,1,1-Trichloroethane	5.298	97	331672	59.35	ppb		96

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6881.D
 Acq On : 20 Sep 2021 8:48 pm
 Operator : K.Ruest
 Sample : R2109484-009MS|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 14:47:41 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	691053	56.40	ppb	99
44) Cyclohexane	5.365	41	202304	52.04	ppb	95
46) Carbontetrachloride	5.560	117	227105	50.19	ppb	99
47) 1,1-Dichloropropene	5.584	75	310447	58.06	ppb	96
49) Benzene	5.907	78	899599	54.01	ppb	99
50) 1,2-Dichloroethane	5.968	62	309875	49.52	ppb	98
51) Iso-Butyl Alcohol	5.956	43	304866	907.54	ppb	98
52) n-Heptane	6.352	43	275224	54.71	ppb	98
53) 1-Butanol	6.901	56	505734	2314.30	ppb	99
54) Trichloroethene	6.840	130	560576	135.58	ppb	98
55) Methylcyclohexane	7.047	55	315350	57.98	ppb	95
56) 1,2-Diclpropane	7.133	63	233841	54.12	ppb	96
57) Dibromomethane	7.279	93	128316	51.82	ppb	87
58) 1,4-Dioxane	7.340	88	79036	834.82	ppb	98
59) Methyl Methacrylate	7.352	69	205843	51.91	ppb	92
60) Bromodichloromethane	7.498	83	262648	50.23	ppb	96
63) cis-1,3-Dichloropropene	8.035	75	354270	56.12	ppb	98
64) 4-Methyl-2-pentanone	8.242	43	285495	49.58	ppb	98
66) Toluene	8.389	91	983812	55.14	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	323030	55.19	ppb	92
68) Ethyl Methacrylate	8.797	69	322644	49.96	ppb	100
69) 1,1,2-Trichloroethane	8.858	97	197744	49.62	ppb	98
72) Tetrachloroethene	8.968	164	151668	49.15	ppb	94
73) 2-Hexanone	9.144	43	211799	50.23	ppb	93
74) 1,3-Dichloropropane	9.029	76	378486	53.03	ppb	99
75) Dibromochloromethane	9.248	129	164749	50.75	ppb	93
76) N-Butyl Acetate	9.291	43	419233	52.07	ppb	99
77) 1,2-Dibromoethane	9.346	107	203347	51.54	ppb	91
78) Chlorobenzene	9.827	112	600488	52.70	ppb	97
79) 3-CBTF	9.839	180	284468	51.04	ppb	99
80) 4-CBTF	9.894	180	255830	49.50	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.913	131	190899	56.48	ppb	96
82) Ethylbenzene	9.937	106	337584	53.77	ppb	98
83) (m+p)Xylene	10.053	106	828844	109.22	ppb	96
84) o-Xylene	10.406	106	405322	54.08	ppb	97
85) Styrene	10.425	104	680439	54.25	ppb	98
87) Bromoform	10.583	173	105256	52.43	ppb	99
88) 2-CBTF	10.656	180	273254	51.61	ppb	99
89) Isopropylbenzene	10.736	105	1043806	59.55	ppb	97
90) Cyclohexanone	10.821	55	258800	276.07	ppb	99
91) trans-1,4-Dichloro-2-B...	11.059	53	78976	51.82	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.016	83	297973	54.81	ppb	96
93) Bromobenzene	10.992	156	233169	51.67	ppb	97
94) 1,2,3-Trichloropropane	11.040	110	98973	52.84	ppb	95
95) n-Propylbenzene	11.089	91	1299481	59.40	ppb	98
96) 2-Chlorotoluene	11.156	91	751131	54.24	ppb	99
97) 3-Chlorotoluene	11.211	91	773878	55.89	ppb	99
98) 4-Chlorotoluene	11.248	91	884620	56.88	ppb	100
99) 1,3,5-Trimethylbenzene	11.242	105	930211	57.10	ppb	100
100) tert-Butylbenzene	11.516	119	751547	56.14	ppb	99
101) 1,2,4-Trimethylbenzene	11.553	105	916315	56.39	ppb	98
102) 3,4-DCBTF	11.613	214	212638	48.65	ppb	98
103) sec-Butylbenzene	11.693	105	1123400	58.46	ppb	99
104) p-Isopropyltoluene	11.815	119	949930	56.41	ppb	100
105) 1,3-Dclbenz	11.778	146	457273	51.82	ppb	94
106) 1,4-Dclbenz	11.857	146	473651	49.86	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6881.D
 Acq On : 20 Sep 2021 8:48 pm
 Operator : K.Ruest
 Sample : R2109484-009MS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 21 14:47:41 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

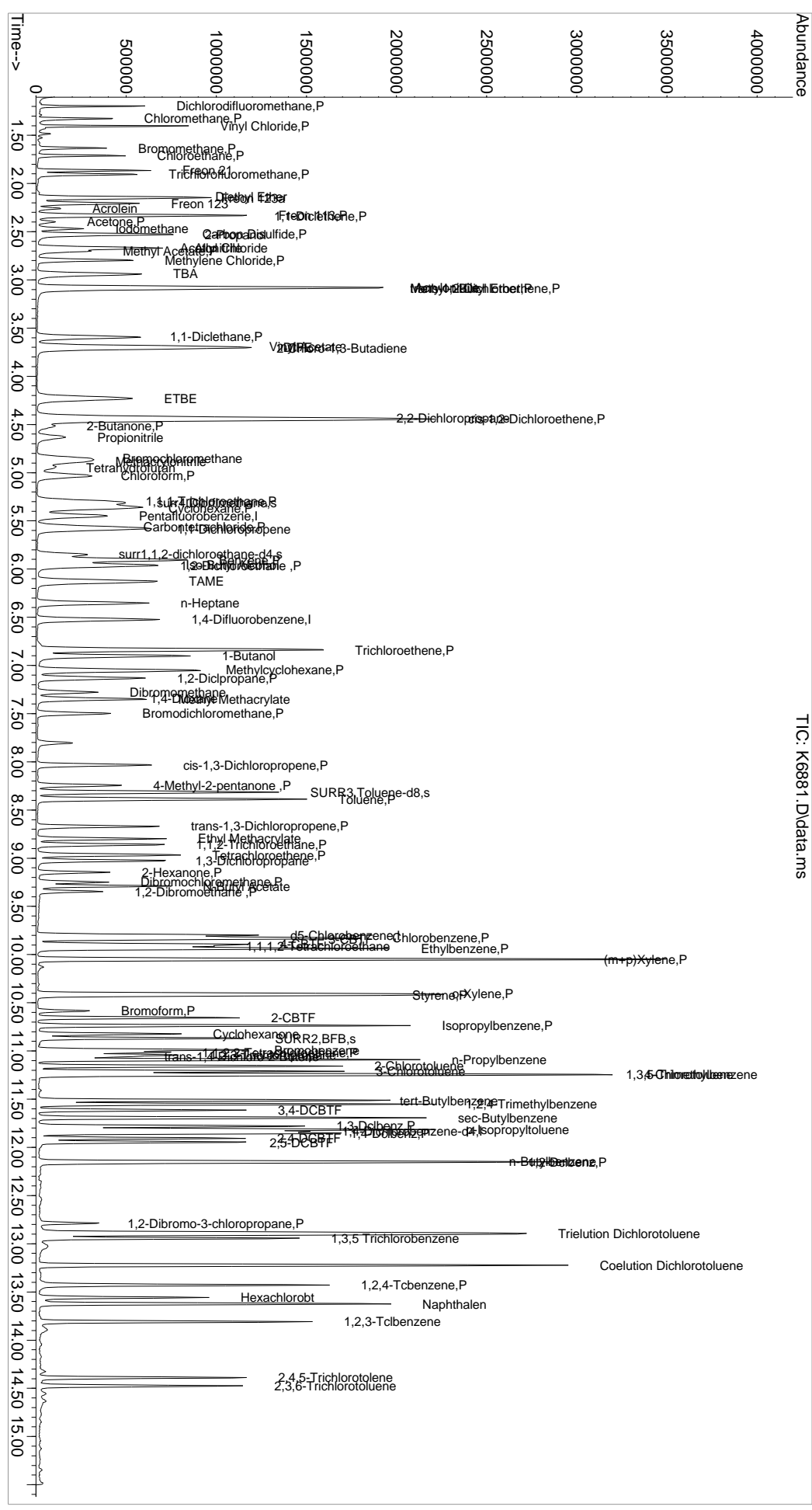
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,4-DCBTF	11.906	214	201965	52.56	ppb	98
108) 2,5-DCBTF	11.949	214	226041	53.02	ppb	96
109) n-Butylbenzene	12.144	91	891719	57.29	ppb	97
110) 1,2-Dclbenz	12.156	146	459214	52.26	ppb	94
111) 1,2-Dibromo-3-chloropr...	12.790	157	66601	56.36	ppb	95
112) Trielution Dichlorotol...	12.894	125	1335665	161.47	ppb	99
113) 1,3,5 Trichlorobenzene	12.943	180	332627	51.38	ppb	98
114) Coelution Dichlorotoluene	13.223	125	994469	110.97	ppb	96
115) 1,2,4-Tcbenzene	13.430	180	347247	54.81	ppb	97
116) Hexachlorobt	13.558	225	126863	50.81	ppb	97
117) Naphthalen	13.625	128	1142313	57.36	ppb	99
118) 1,2,3-Tclbenzene	13.808	180	330682	52.12	ppb	95
119) 2,4,5-Trichlorotolene	14.387	159	238575	53.53	ppb	98
120) 2,3,6-Trichlorotoluene	14.473	159	210342	50.67	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 09/21/21
Data Path : I:\ACQ\DATA\msvoa12\Data\092021\
Data File : K6881.D
Acq On : 20 Sep 2021 8:48 pm
Operator : K.Ruest
Sample : R2109484-009MS|1.0
Inst : MSVOA-12
PALS Vial : 25 Sample Multiplier: 1

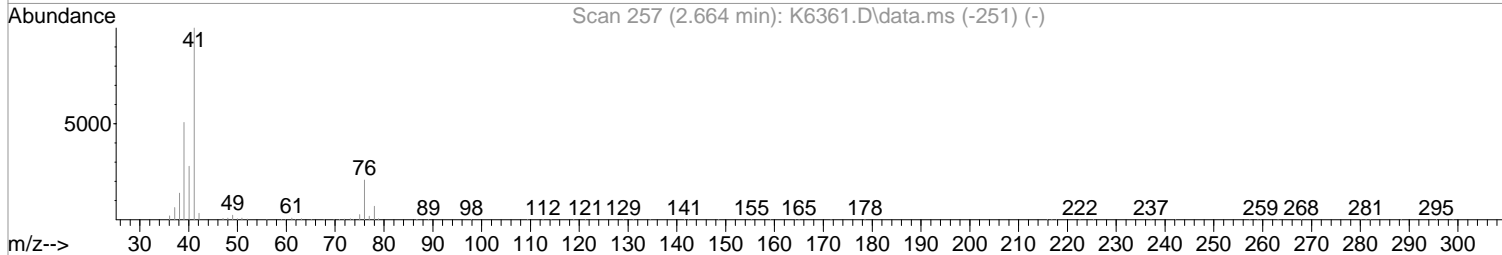
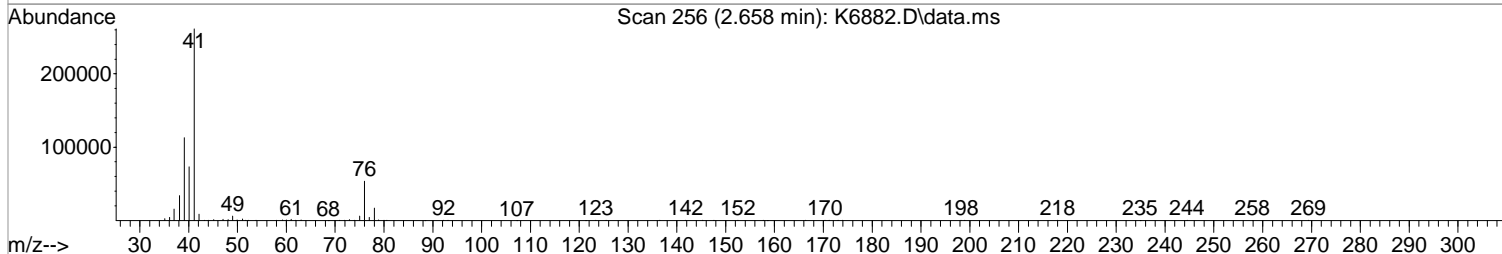
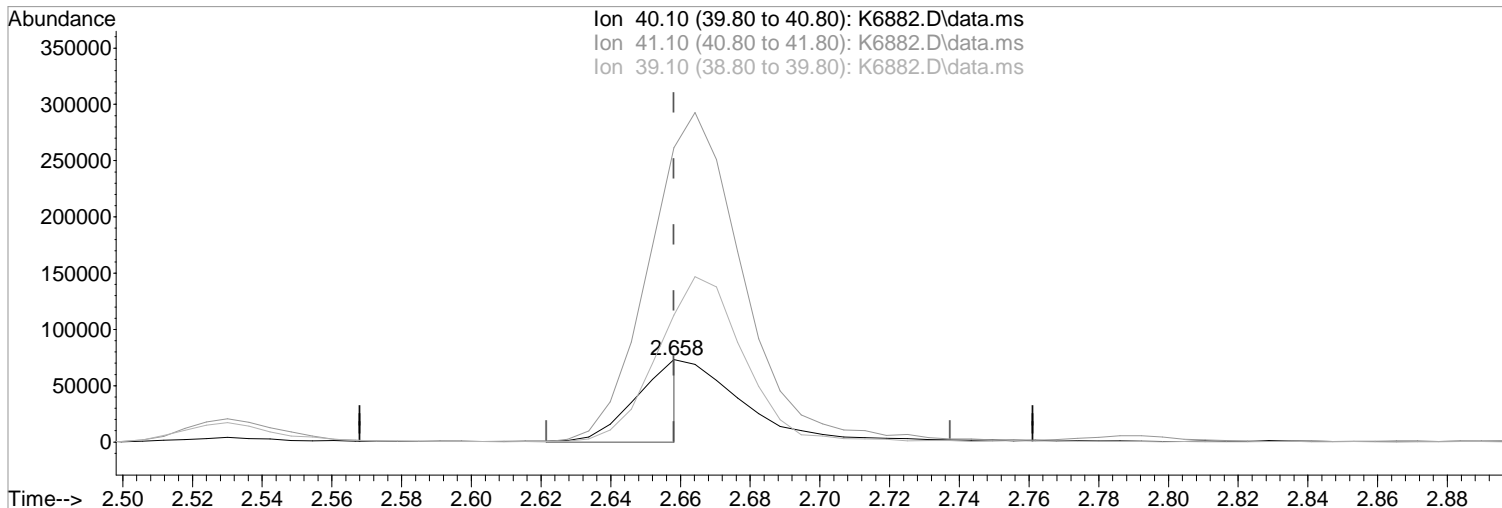
Quant Time: Sep 21 14:47:41 2021
Quant Method : I:\ACQ\DATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10ml Purge
QIast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

TIC: K6881.D\data.ms



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6882.D
Acq On : 20 Sep 2021 9:10 pm
Operator : K.Ruest
Sample : R2109484-009DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 21 10:05:42 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K6882.D\data.ms

(19) Acetonitrile
2.658min (+0.000) 219.83 ppb m
response 67727

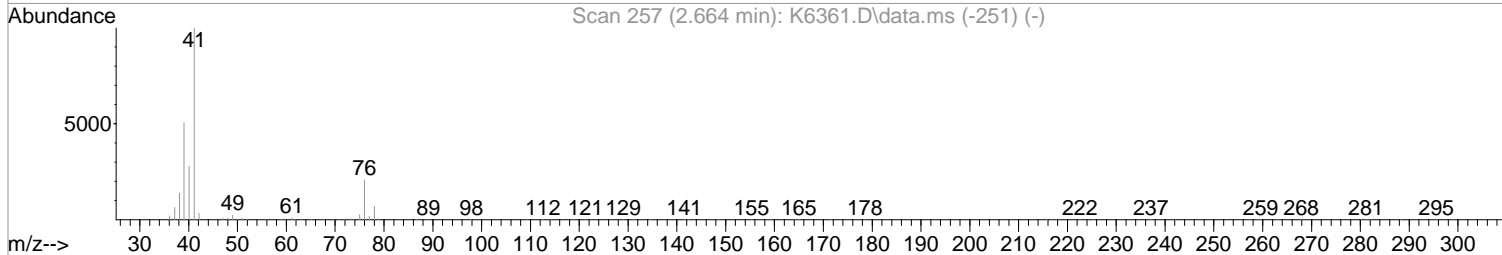
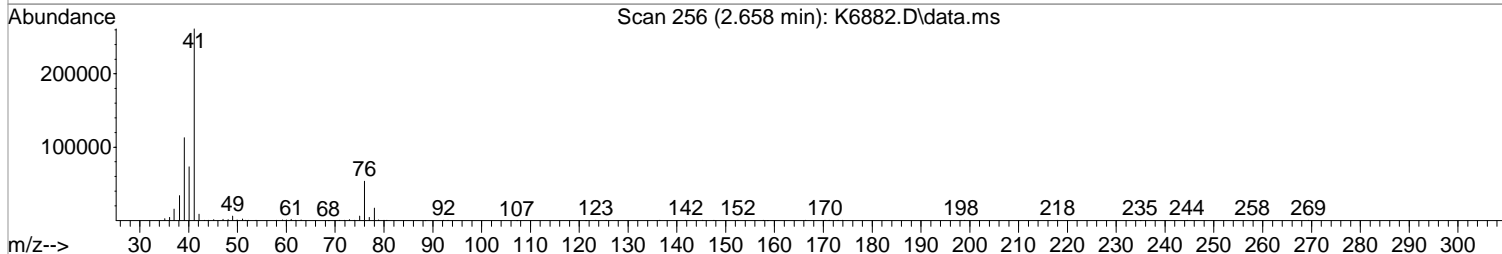
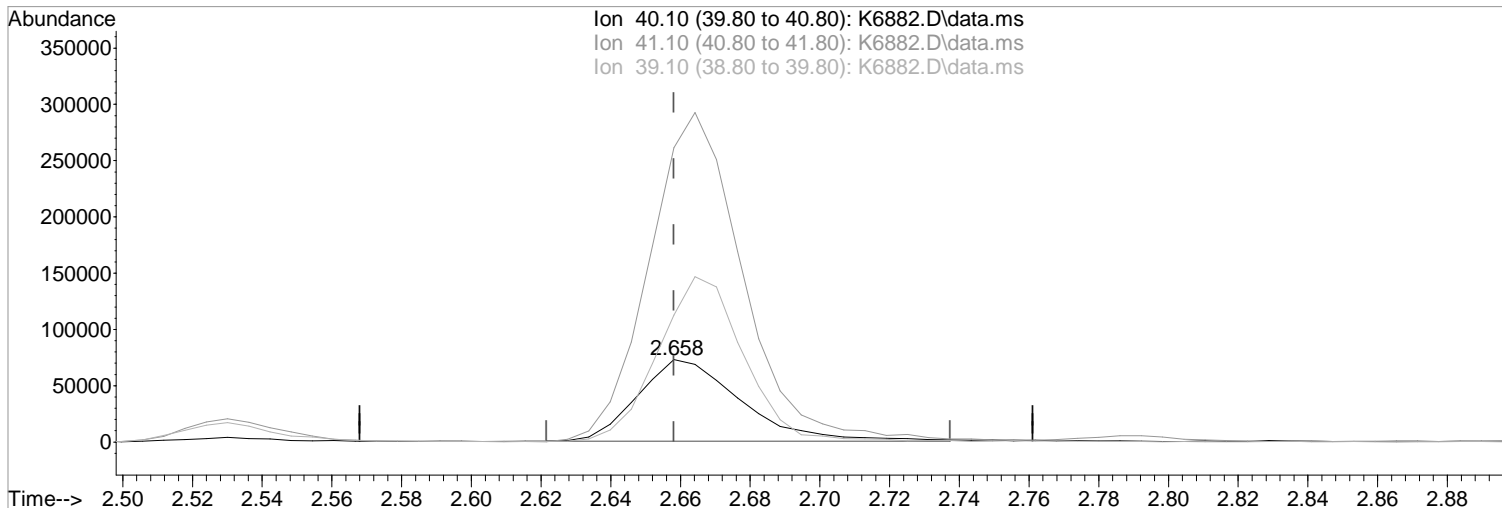
Manual Integration:
After
Poor integration.

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	356.78
39.10	180.50	153.78#
0.00	0.00	0.00

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6882.D
Acq On : 20 Sep 2021 9:10 pm
Operator : K.Ruest
Sample : R2109484-009DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 21 10:05:42 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

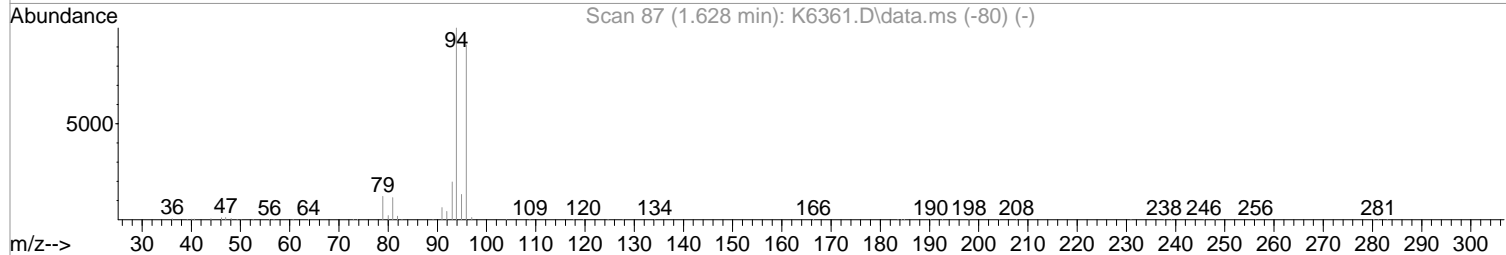
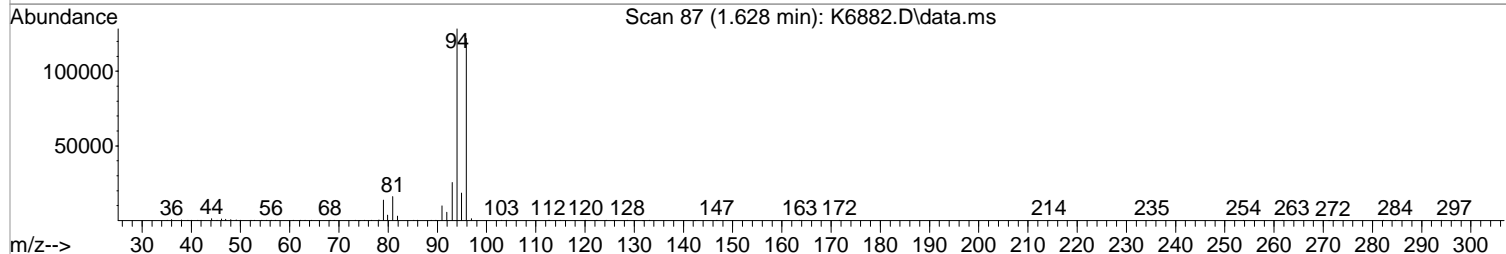
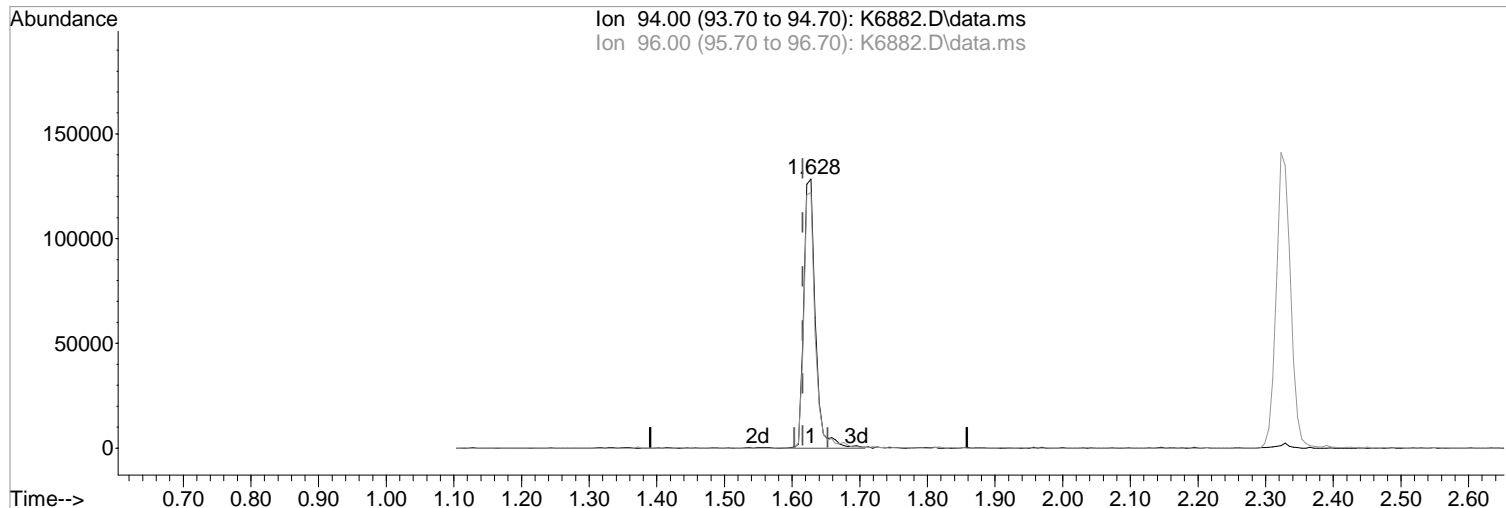


(19) Acetonitrile Manual Integration:
2.658min (+0.000) 485.59 ppb Before
response 149608
09/21/21

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	356.78
39.10	180.50	153.78#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6882.D
Acq On : 20 Sep 2021 9:10 pm
Operator : K.Ruest
Sample : R2109484-009DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 21 10:05:42 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K6882.D\data.ms

(5) Bromomethane (P)
1.628min (+0.012) 48.48 ppb m
response 152126

Manual Integration:

After

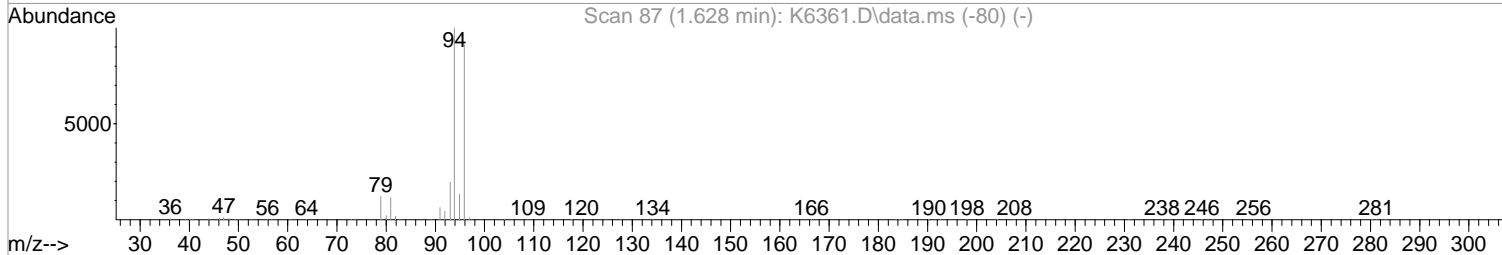
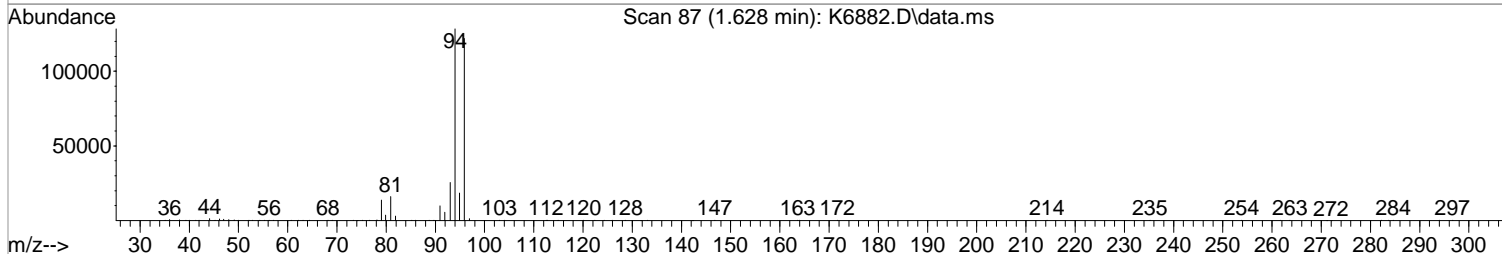
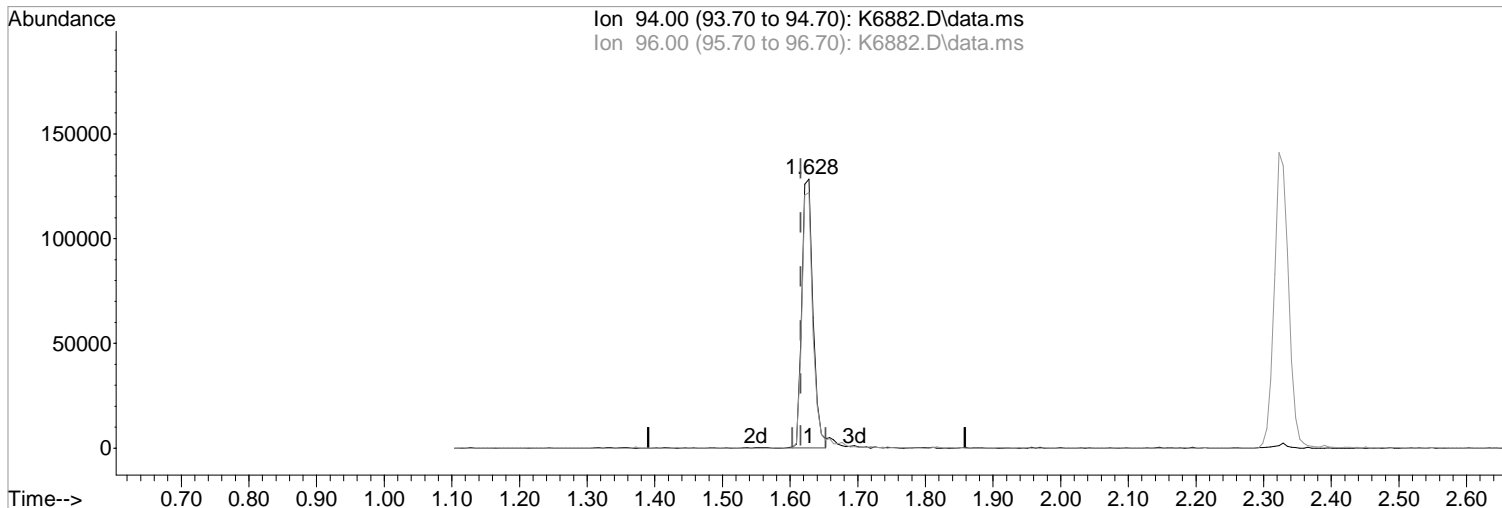
Poor integration.

09/21/21

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	94.96
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6882.D
Acq On : 20 Sep 2021 9:10 pm
Operator : K.Ruest
Sample : R2109484-009DMS|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 21 10:05:42 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.628min (+0.012) 46.56 ppb
response 146096

Manual Integration:

Before

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	94.96
0.00	0.00	0.00
0.00	0.00	0.00

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6882.D
 Acq On : 20 Sep 2021 9:10 pm
 Operator : K.Ruest
 Sample : R2109484-009DMS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 21 14:48:50 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	355529	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	591029	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	543355	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	264958	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	177875	55.28	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	110.56%	
48) surr1,1,2-dichloroetha...	5.853	65	254384	54.37	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.74%	
65) SURR3,Toluene-d8	8.316	98	846005	55.94	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	111.88%	
70) SURR2,BFB	10.870	95	331784	55.27	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	110.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.195	85	283891	59.17	ppb	97
3) Chloromethane	1.323	50	313591	75.94	ppb	99
4) Vinyl Chloride	1.396	62	430847	89.59	ppb	98
5) Bromomethane	1.628	94	152126m	48.48	ppb	
6) Chloroethane	1.707	64	264514	83.79	ppb	98
7) Freon 21	1.859	67	396137	51.60	ppb	99
8) Trichlorofluoromethane	1.896	101	326786	53.59	ppb	97
9) Diethyl Ether	2.134	59	210763	55.98	ppb	99
10) Freon 123a	2.146	67	275991	60.53	ppb	94
11) Freon 123	2.201	83	275778	55.43	ppb	92
12) Acrolein	2.256	56	95474	95.21	ppb	99
13) 1,1-Diclcethene	2.323	96	205866	59.54	ppb	# 85
14) Freon 113	2.329	101	190618	56.44	ppb	93
15) Acetone	2.396	43	107274	52.99	ppb	96
16) 2-Propanol	2.530	45	514991	1115.85	ppb	98
17) Iodomethane	2.463	142	242854	58.17	ppb	100
18) Carbon Disulfide	2.518	76	564156	67.43	ppb	97
19) Acetonitrile	2.658	40	67727m	219.83	ppb	
20) Allyl Chloride	2.664	76	116893	55.09	ppb	# 89
21) Methyl Acetate	2.701	43	300097	66.20	ppb	98
22) Methylene Chloride	2.792	84	206443	50.06	ppb	96
23) TBA	2.939	59	844291	1052.14	ppb	96
24) Acrylonitrile	3.073	53	613577	269.46	ppb	100
25) Methyl-t-Butyl Ether	3.085	73	739626	53.22	ppb	98
26) trans-1,2-Dichloroethene	3.079	96	229144	60.57	ppb	98
28) 1,1-Diclcethane	3.591	63	638152	89.69	ppb	99
29) Vinyl Acetate	3.682	86	33440	33.07	ppb	# 54
30) DIPE	3.694	45	721658	56.75	ppb	# 84
31) 2-Chloro-1,3-Butadiene	3.701	53	364002	59.86	ppb	99
32) ETBE	4.225	59	688608	53.54	ppb	95
33) 2,2-Dichloropropane	4.426	77	319701	53.90	ppb	90
34) cis-1,2-Dichloroethene	4.438	96	1151428	264.25	ppb	95
35) 2-Butanone	4.511	43	156455	50.95	ppb	98
36) Propionitrile	4.627	54	256914	257.89	ppb	97
37) Bromochloromethane	4.847	130	123632	49.70	ppb	94
38) Methacrylonitrile	4.883	67	127526	52.68	ppb	84
39) Tetrahydrofuran	4.944	42	97477	47.58	ppb	98
40) Chloroform	5.023	83	360992	52.18	ppb	97
41) 1,1,1-Trichloroethane	5.298	97	331432	58.22	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6882.D
 Acq On : 20 Sep 2021 9:10 pm
 Operator : K.Ruest
 Sample : R2109484-009DMS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 21 14:48:50 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	724361	58.03	ppb	98
44) Cyclohexane	5.359	41	205337	52.50	ppb	97
46) Carbontetrachloride	5.560	117	237092	52.08	ppb	98
47) 1,1-Dichloropropene	5.584	75	304977	56.70	ppb	99
49) Benzene	5.901	78	897294	53.55	ppb	99
50) 1,2-Dichloroethane	5.962	62	312307	49.61	ppb	98
51) Iso-Butyl Alcohol	5.956	43	344770	1020.24	ppb	99
52) n-Heptane	6.352	43	277951	54.92	ppb	99
53) 1-Butanol	6.901	56	608369	2767.46	ppb	98
54) Trichloroethene	6.834	130	551825	132.67	ppb	96
55) Methylcyclohexane	7.047	55	316823	57.90	ppb	100
56) 1,2-Diclpropane	7.133	63	224342	51.62	ppb	95
57) Dibromomethane	7.273	93	129194	51.86	ppb	96
58) 1,4-Dioxane	7.340	88	95718	1005.03	ppb	88
59) Methyl Methacrylate	7.352	69	213851	53.61	ppb	97
60) Bromodichloromethane	7.499	83	271113	51.54	ppb	95
63) cis-1,3-Dichloropropene	8.035	75	353455	55.66	ppb	98
64) 4-Methyl-2-pentanone	8.242	43	308170	53.20	ppb	96
66) Toluene	8.389	91	987860	55.04	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	332163	56.41	ppb	96
68) Ethyl Methacrylate	8.797	69	336462	51.79	ppb	92
69) 1,1,2-Trichloroethane	8.858	97	203044	50.65	ppb	96
72) Tetrachloroethene	8.968	164	158050	50.47	ppb	98
73) 2-Hexanone	9.145	43	234305	54.76	ppb	98
74) 1,3-Dichloropropane	9.029	76	383390	52.94	ppb	97
75) Dibromochloromethane	9.248	129	170388	51.72	ppb	97
76) N-Butyl Acetate	9.291	43	441875	54.08	ppb	97
77) 1,2-Dibromoethane	9.346	107	203519	50.83	ppb	90
78) Chlorobenzene	9.827	112	596694	51.61	ppb	97
79) 3-CBTF	9.840	180	301494	53.31	ppb	95
80) 4-CBTF	9.894	180	263104	50.17	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.913	131	191340	55.79	ppb	98
82) Ethylbenzene	9.937	106	337026	52.90	ppb	98
83) (m+p)Xylene	10.047	106	827355	107.43	ppb	94
84) o-Xylene	10.407	106	407184	53.53	ppb	99
85) Styrene	10.425	104	671747	52.77	ppb	98
87) Bromoform	10.583	173	112654	54.74	ppb	100
88) 2-CBTF	10.657	180	280637	51.70	ppb	94
89) Isopropylbenzene	10.736	105	1022634	56.90	ppb	99
90) Cyclohexanone	10.821	55	293875	305.77	ppb	99
91) trans-1,4-Dichloro-2-B...	11.059	53	84570	54.00	ppb	92
92) 1,1,2,2-Tetrachloroethane	11.016	83	310456	55.70	ppb	98
93) Bromobenzene	10.992	156	239138	51.69	ppb	96
94) 1,2,3-Trichloropropane	11.041	110	95421	49.58	ppb	92
95) n-Propylbenzene	11.089	91	1296898	57.82	ppb	97
96) 2-Chlorotoluene	11.156	91	760147	53.54	ppb	98
97) 3-Chlorotoluene	11.211	91	776360	54.69	ppb	99
98) 4-Chlorotoluene	11.254	91	879382	55.15	ppb	95
99) 1,3,5-Trimethylbenzene	11.242	105	924009	55.33	ppb	99
100) tert-Butylbenzene	11.510	119	744664	54.26	ppb	99
101) 1,2,4-Trimethylbenzene	11.553	105	921148	55.30	ppb	96
102) 3,4-DCBTF	11.614	214	223961	49.98	ppb	98
103) sec-Butylbenzene	11.693	105	1122938	57.00	ppb	99
104) p-Isopropyltoluene	11.815	119	938255	54.35	ppb	100
105) 1,3-Dclbenz	11.784	146	462975	51.17	ppb	94
106) 1,4-Dclbenz	11.858	146	468217	48.07	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6882.D
 Acq On : 20 Sep 2021 9:10 pm
 Operator : K.Ruest
 Sample : R2109484-009DMS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 26 Sample Multiplier: 1

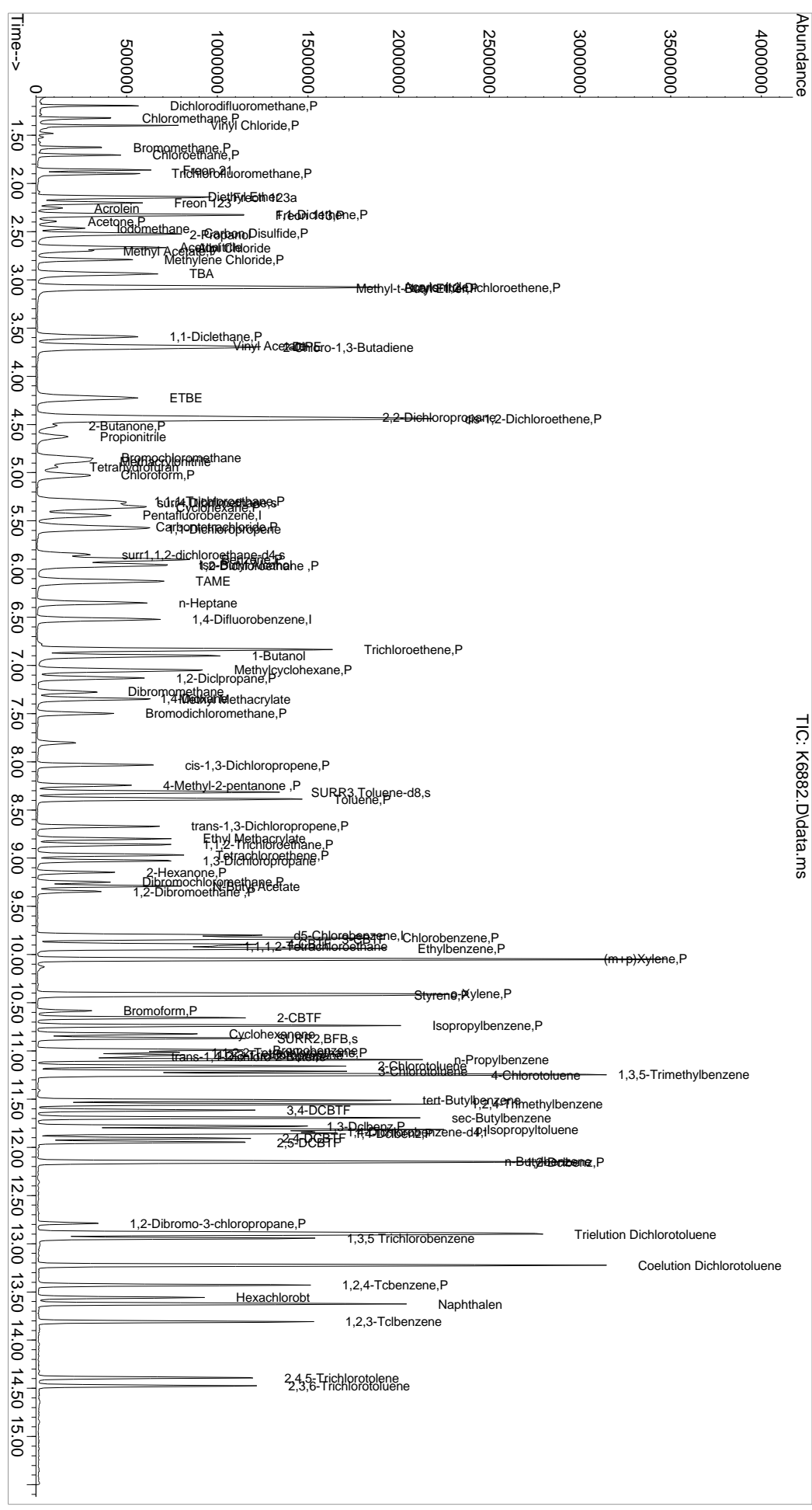
Quant Time: Sep 21 14:48:50 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,4-DCBTF	11.906	214	203633	51.69	ppb	96
108) 2,5-DCBTF	11.949	214	232092	53.10	ppb	98
109) n-Butylbenzene	12.144	91	896474	56.18	ppb	97
110) 1,2-Dclbenz	12.156	146	466890	51.82	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.790	157	67247	55.50	ppb	97
112) Trielution Dichlorotol...	12.900	125	1383667	163.16	ppb	99
113) 1,3,5 Trichlorobenzene	12.943	180	342531	51.61	ppb	97
114) Coelution Dichlorotoluene	13.223	125	1016431	110.63	ppb	98
115) 1,2,4-Tcbenzene	13.430	180	343861	52.94	ppb	97
116) Hexachlorobt	13.558	225	129030	50.41	ppb	98
117) Naphthalen	13.625	128	1166786	57.15	ppb	99
118) 1,2,3-Tclbenzene	13.808	180	340320	52.32	ppb	99
119) 2,4,5-Trichlorotolene	14.394	159	251381	55.01	ppb	97
120) 2,3,6-Trichlorotoluene	14.473	159	225007	52.87	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

09/21/21

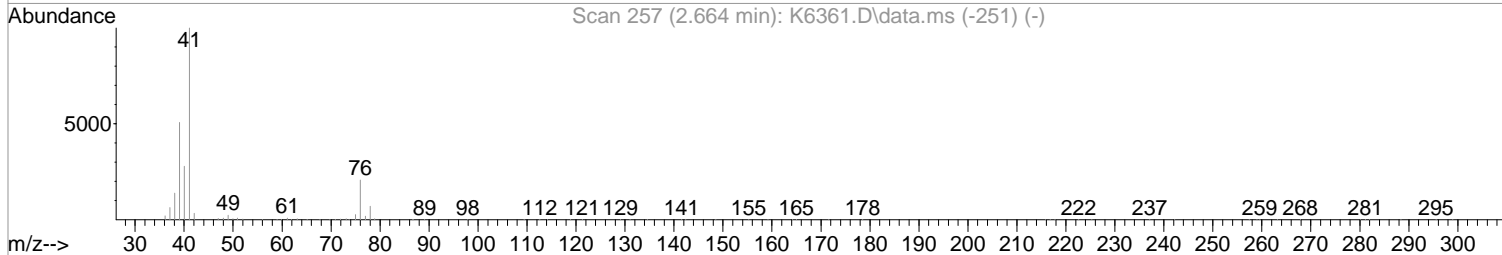
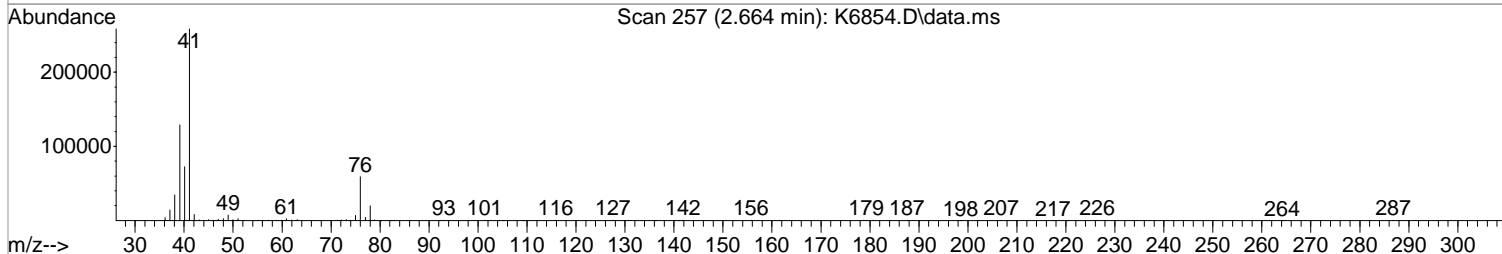
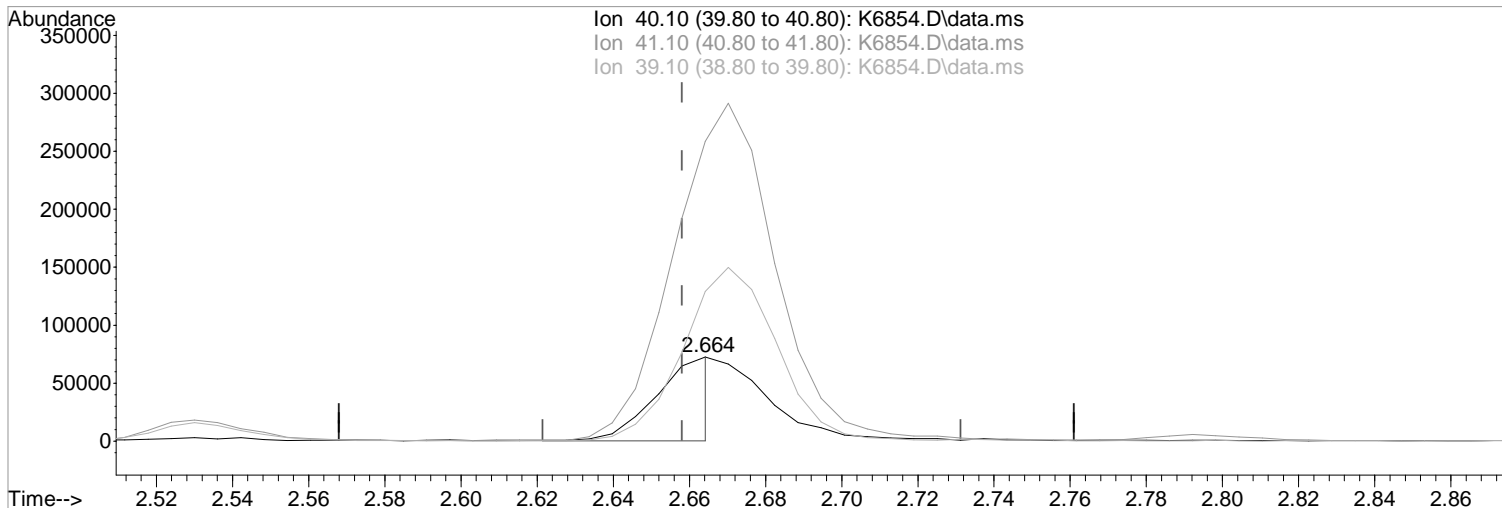
Data Path : I:\ACQDATA\msvoa12\Data\092021\
 Data File : K6882.D
 Acq On : 20 Sep 2021 9:10 pm
 Operator : K.Ruest
 Sample : R2109484-009DMS|1.0
 Inst : MSVOA-12
 PALS Vial : 26 Sample Multiplier: 1
 Quant Time: Sep 21 14:48:50 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B MATERS 10ml Purge
 Qlast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6854.D
Acq On : 20 Sep 2021 10:49 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 11:48:09 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.664min (+0.006) 249.43 ppb m
response 75737

Manual Integration:

After

Poor integration.

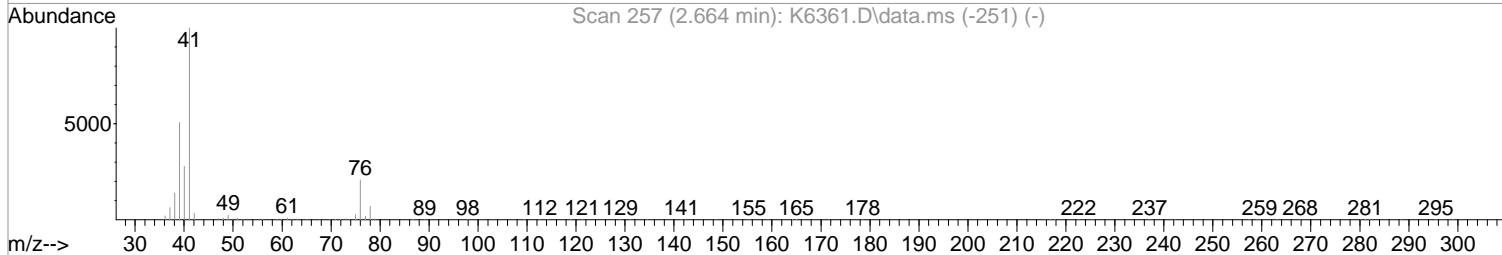
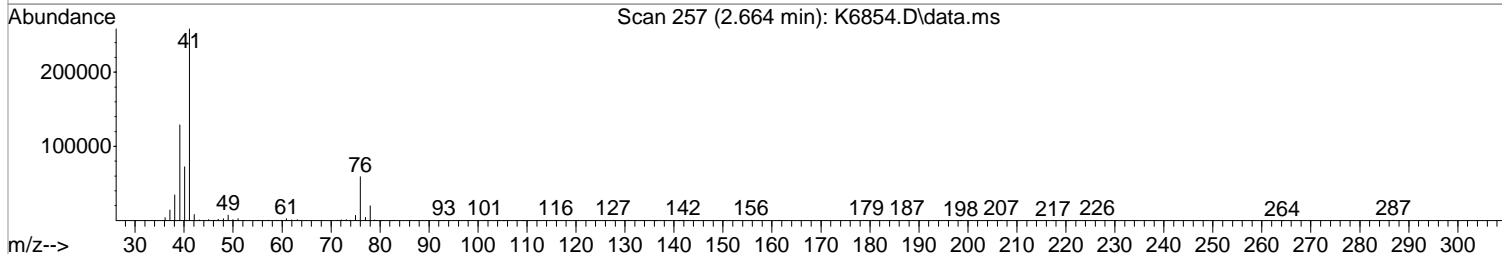
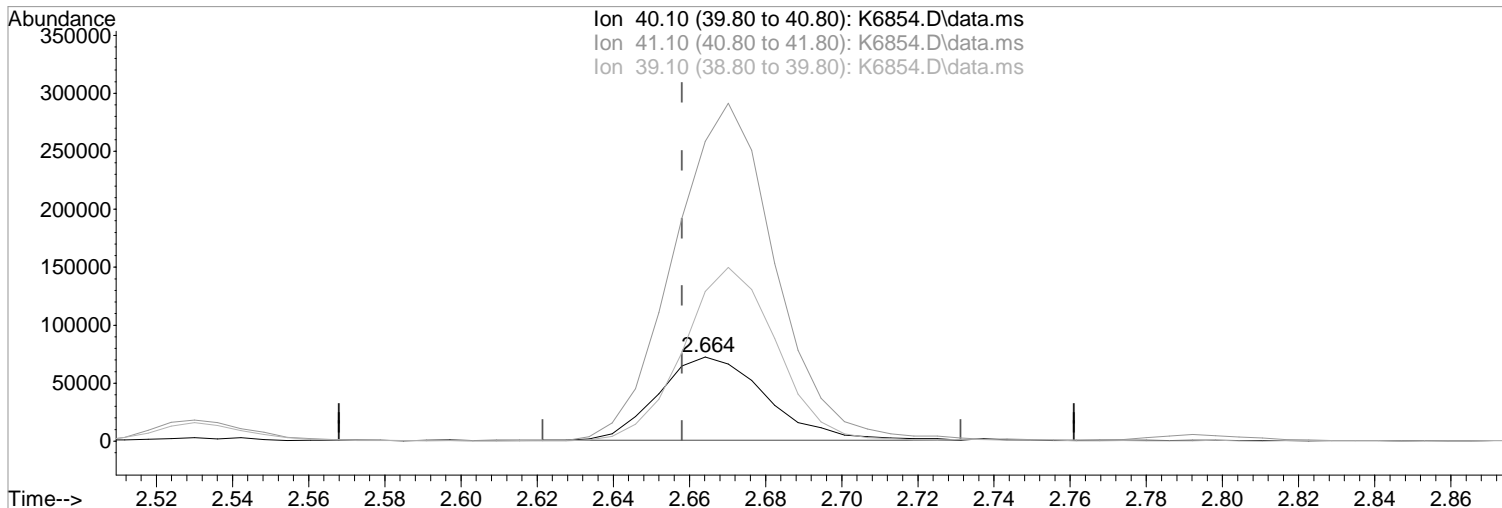
09/20/21

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	356.93
39.10	180.50	178.11
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6854.D
Acq On : 20 Sep 2021 10:49 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 11:48:09 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.664min (+0.006) 467.91 ppb
response 142077

Manual Integration:

Before

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	356.93
39.10	180.50	178.11
0.00	0.00	0.00

09/20/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.0000	50.0000	0.0	99	0.00
2 P	Dichlorodifluoromethane	50.0000	59.8231	-19.6	107	0.01
3 P	Chloromethane	50.0000	58.6279	-17.3	121	0.01
4 P	Vinyl Chloride	50.0000	56.0741	-12.1	110	0.00
5 P	Bromomethane	50.0000	59.0158	-18.0	116	0.02
6 P	Chloroethane	50.0000	54.3866	-8.8	110	0.02
7	Freon 21	50.0000	55.2345	-10.5	112	0.01
8 P	Trichlorofluoromethane	50.0000	53.2731	-6.5	105	0.02
9	Diethyl Ether	50.0000	57.2674	-14.5	113	0.00
10	Freon 123a	50.0000	57.2282	-14.5	116	0.01
11	Freon 123	50.0000	58.8561	-17.7	116	0.01
12	Acrolein	250.0000	221.5981	11.4	92	0.00
13 P	1,1-Dicethene	50.0000	56.3057	-12.6	112	0.01
14 P	Freon 113	50.0000	57.1893	-14.4	114	0.00
15 P	Acetone	50.0000	54.7244	-9.4	108	0.00
16	2-Propanol	1000.0000	952.9794	4.7	93	0.00
17	Iodomethane	50.0000	55.2910	-10.6	98	0.01
18 P	Carbon Disulfide	50.0000	57.3968	-14.8	117	0.01
19	Acetonitrile	250.0000	249.4268	0.2	98	0.00
20	Allyl Chloride	50.0000	57.8707	-15.7	112	0.00
21 P	Methyl Acetate	50.0000	51.2420	-2.5	103	0.00
22 P	Methylene Chloride	50.0000	52.9159	-5.8	113	0.01
23	TBA	1000.0000	934.8140	6.5	93	0.00
24	Acrylonitrile	250.0000	268.1424	-7.3	102	0.00
25 P	Methyl-t-Butyl Ether	50.0000	55.4734	-10.9	108	0.00
26 P	trans-1,2-Dichloroethene	50.0000	55.1819	-10.4	111	0.01
27	Halothane	-1.0000	0.0000	0.0	0	-0.02
28 P	1,1-Dicethane	50.0000	56.3757	-12.8	108	0.00
29	Vinyl Acetate	50.0000	48.8150	2.4	104	0.00
30	DIPE	50.0000	54.0820	-8.2	114	0.00
31	2-Chloro-1,3-Butadiene	50.0000	56.2319	-12.5	111	0.00
32	ETBE	50.0000	55.7404	-11.5	116	0.00
33	2,2-Dichloropropane	50.0000	55.4220	-10.8	108	0.00
34 P	cis-1,2-Dichloroethene	50.0000	53.7850	-7.6	110	0.00
35 P	2-Butanone	50.0000	48.9640	2.1	103	0.00
36	Propionitrile	250.0000	257.3077	-2.9	98	0.00
37	Bromochloromethane	50.0000	54.0110	-8.0	108	0.00
38	Methacrylonitrile	50.0000	54.8737	-9.7	108	0.01
39	Tetrahydrofuran	50.0000	49.4629	1.1	96	0.01
40 P	Chloroform	50.0000	54.8610	-9.7	105	0.00
41 P	1,1,1-Trichloroethane	50.0000	53.6486	-7.3	103	0.00
42	TAME	50.0000	55.2586	-10.5	113	0.00
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	101	0.00
44 P	Cyclohexane	50.0000	52.1048	-4.2	109	0.00
45 s	surr4,Dibrflmethane	50.0000	53.3747	-6.7	109	0.00
46 P	Carbontetrachloride	50.0000	50.1526	-0.3	102	0.00
47	1,1-Dichloropropene	50.0000	54.9999	-10.0	110	0.00
48 s	surr1,1,2-dichloroethane-d4	50.0000	53.3845	-6.8	105	0.00
49 P	Benzene	50.0000	54.2179	-8.4	109	0.00
50 P	1,2-Dichloroethane	50.0000	49.3809	1.2	100	0.00
51	Iso-Butyl Alcohol	1000.0000	928.2227	7.2	92	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	n-Heptane	50.0000	58.2583	-16.5	116	0.00
53	1-Butanol	2500.0000	2508.7780	-0.4	96	0.00
54 P	Trichloroethene	50.0000	51.0614	-2.1	107	0.00
55 P	Methylcyclohexane	50.0000	57.6735	-15.3	115	0.00
56 P	1,2-Diclp propane	50.0000	54.1231	-8.2	108	0.00
57	Dibromomethane	50.0000	51.7283	-3.5	103	0.00
58	1,4-Dioxane	1000.0000	910.2495	9.0	97	0.00
59	Methyl Methacrylate	50.0000	51.1029	-2.2	106	0.00
60 P	Bromodichloromethane	50.0000	52.0022	-4.0	107	0.00
61	2-Nitropropane	-1.0000	0.0000	0.0	86	0.00
62	2-Chloroethylvinyl Ether	50.0000	48.6804	2.6	102	0.00
63 P	cis-1,3-Dichloropropene	50.0000	56.8138	-13.6	109	0.00
64 P	4-Methyl-2-pentanone	50.0000	49.8078	0.4	103	0.00
65 s	SURR3,Toluene-d8	50.0000	55.1080	-10.2	110	0.00
66 P	Toluene	50.0000	55.1542	-10.3	110	0.00
67 P	trans-1,3-Dichloropropene	50.0000	56.6417	-13.3	106	0.00
68	Ethyl Methacrylate	50.0000	54.9501	-9.9	104	0.00
69 P	1,1,2-Trichloroethane	50.0000	51.3394	-2.7	109	0.00
70 s	SURR2,BFB	50.0000	53.5101	-7.0	110	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	102	0.00
72 P	Tetrachloroethene	50.0000	52.1304	-4.3	110	0.00
73 P	2-Hexanone	50.0000	52.9046	-5.8	105	0.00
74	1,3-Dichloropropene	50.0000	54.4108	-8.8	107	0.00
75 P	Dibromochloromethane	50.0000	56.3256	-12.7	107	0.00
76	N-Butyl Acetate	50.0000	53.8703	-7.7	102	0.00
77 P	1,2-Dibromoethane	50.0000	55.1324	-10.3	111	0.00
78 P	Chlorobenzene	50.0000	53.6372	-7.3	110	0.00
79	3-CBTF	50.0000	52.6215	-5.2	118	0.00
80	4-CBTF	50.0000	49.4084	1.2	115	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	56.0414	-12.1	106	0.00
82 P	Ethylbenzene	50.0000	55.3973	-10.8	112	0.00
83 P	(m+p)Xylene	100.0000	112.4710	-12.5	109	0.00
84 P	o-Xylene	50.0000	54.6106	-9.2	107	0.00
85 P	Styrene	50.0000	55.7412	-11.5	106	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	102	0.00
87 P	Bromoform	50.0000	56.1689	-12.3	106	0.00
88	2-CBTF	50.0000	52.2258	-4.5	117	0.00
89 P	Isopropylbenzene	50.0000	57.1750	-14.3	109	0.00
90	Cyclohexanone	1000.0000	1127.8822	-12.8	103	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	52.9249	-5.8	104	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	55.0750	-10.2	104	0.00
93	Bromobenzene	50.0000	52.3520	-4.7	107	0.00
94	1,2,3-Trichloropropene	50.0000	51.8613	-3.7	102	0.00
95	n-Propylbenzene	50.0000	58.5664	-17.1	110	0.00
96	2-Chlorotoluene	50.0000	55.5833	-11.2	107	0.00
97	3-Chlorotoluene	50.0000	55.2051	-10.4	116	0.00
98	4-Chlorotoluene	50.0000	56.1051	-12.2	109	0.00
99	1,3,5-Trimethylbenzene	50.0000	58.5906	-17.2	109	0.00
100	tert-Butylbenzene	50.0000	55.3104	-10.6	107	0.00
101	1,2,4-Trimethylbenzene	50.0000	57.4476	-14.9	108	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	3,4-DCBTF	50.0000	51.0836	-2.2	119	0.00
103	sec-Butylbenzene	50.0000	58.4314	-16.9	111	0.00
104	p-Isopropyltoluene	50.0000	58.2056	-16.4	111	0.00
105 P	1,3-Dclbenz	50.0000	53.9944	-8.0	107	0.00
106 P	1,4-Dclbenz	50.0000	50.3737	-0.7	103	0.00
107	2,4-DCBTF	50.0000	52.2929	-4.6	120	0.00
108	2,5-DCBTF	50.0000	54.8135	-9.6	121	0.00
109	n-Butylbenzene	50.0000	60.3817	-20.8#	112	0.00
110 P	1,2-Dclbenz	50.0000	53.8733	-7.7	107	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	55.2662	-10.5	102	0.00
112	Trielution Dichlorotoluene	150.0000	166.1678	-10.8	119	0.00
113	1,3,5 Trichlorobenzene	50.0000	53.5437	-7.1	120	0.00
114	Coelution Dichlorotoluene	100.0000	113.7935	-13.8	119	0.00
115 P	1,2,4-Tcbenzene	50.0000	55.1831	-10.4	108	0.00
116	Hexachlorobt	50.0000	52.5384	-5.1	108	0.00
117	Naphthalen	50.0000	57.3336	-14.7	102	0.00
118	1,2,3-Tclbenzene	50.0000	54.5283	-9.1	106	0.00
119	2,4,5-Trichlorotolene	50.0000	55.7148	-11.4	116	0.00
120	2,3,6-Trichlorotoluene	50.0000	52.6334	-5.3	113	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.450	168	350395	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	594319	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	535832	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	266850	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	172688	53.37	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery =	106.74%			
48) surr1,1,2-dichloroetha...	5.846	65	251150	53.38	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	106.76%			
65) SURR3,Toluene-d8	8.315	98	838070	55.11	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	110.22%			
70) SURR2,BFB	10.864	95	323028	53.51	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	107.02%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.201	85	282881	59.82	ppb		96
3) Chloromethane	1.329	50	238608	58.63	ppb		97
4) Vinyl Chloride	1.402	62	265773	56.07	ppb		99
5) Bromomethane	1.634	94	182508	59.02	ppb		98
6) Chloroethane	1.713	64	169209	54.39	ppb		98
7) Freon 21	1.865	67	417880	55.23	ppb		100
8) Trichlorofluoromethane	1.908	101	320139	53.27	ppb		96
9) Diethyl Ether	2.140	59	212508	57.27	ppb		94
10) Freon 123a	2.152	67	257154	57.23	ppb		96
11) Freon 123	2.207	83	288589	58.86	ppb		98
12) Acrolein	2.256	56	219009	221.60	ppb		95
13) 1,1-Diclcethene	2.335	96	191879	56.31	ppb	#	87
14) Freon 113	2.329	101	190347	57.19	ppb		90
15) Acetone	2.396	43	108923	54.72	ppb		92
16) 2-Propanol	2.530	45	433473	952.98	ppb		99
17) Iodomethane	2.469	142	226684	55.29	ppb		100
18) Carbon Disulfide	2.524	76	473262	57.40	ppb		98
19) Acetonitrile	2.664	40	75737m	249.43	ppb		
20) Allyl Chloride	2.670	76	121010	57.87	ppb		95
21) Methyl Acetate	2.701	43	228940	51.24	ppb		99
22) Methylene Chloride	2.798	84	215079	52.92	ppb		90
23) TBA	2.938	59	739307	934.81	ppb		94
24) Acrylonitrile	3.073	53	601764	268.14	ppb		97
25) Methyl-t-Butyl Ether	3.091	73	759830	55.47	ppb		99
26) trans-1,2-Dichloroethene	3.085	96	205736	55.18	ppb		96
28) 1,1-Diclcethane	3.591	63	395334	56.38	ppb		96
29) Vinyl Acetate	3.688	86	48654	48.81	ppb	#	89
30) DIPE	3.694	45	677792	54.08	ppb		90
31) 2-Chloro-1,3-Butadiene	3.707	53	337000	56.23	ppb		97
32) ETBE	4.231	59	706589	55.74	ppb		97
33) 2,2-Dichloropropane	4.426	77	323979	55.42	ppb		97
34) cis-1,2-Dichloroethene	4.444	96	230979	53.78	ppb		98
35) 2-Butanone	4.517	43	148191	48.96	ppb		96
36) Propionitrile	4.633	54	252636	257.31	ppb		99
37) Bromochloromethane	4.853	130	132418	54.01	ppb		93
38) Methacrylonitrile	4.889	67	130914	54.87	ppb		97
39) Tetrahydrofuran	4.944	42	99873	49.46	ppb		99
40) Chloroform	5.030	83	373912	54.86	ppb		97
41) 1,1,1-Trichloroethane	5.298	97	300990	53.65	ppb		97

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	679831	55.26	ppb	98
44) Cyclohexane	5.359	41	204918	52.10	ppb	98
46) Carbontetrachloride	5.560	117	229582	50.15	ppb	99
47) 1,1-Dichloropropene	5.584	75	297489	55.00	ppb	98
49) Benzene	5.901	78	913553	54.22	ppb	99
50) 1,2-Dichloroethane	5.962	62	312577	49.38	ppb	94
51) Iso-Butyl Alcohol	5.956	43	315421	928.22	ppb	95
52) n-Heptane	6.352	43	296466	58.26	ppb	97
53) 1-Butanol	6.901	56	554574	2508.78	ppb	98
54) Trichloroethene	6.840	130	213571	51.06	ppb	97
55) Methylcyclohexane	7.054	55	317334	57.67	ppb	95
56) 1,2-Diclpropane	7.133	63	236548	54.12	ppb	93
57) Dibromomethane	7.279	93	129581	51.73	ppb	89
58) 1,4-Dioxane	7.334	88	87174	910.25	ppb	97
59) Methyl Methacrylate	7.352	69	204986	51.10	ppb	95
60) Bromodichloromethane	7.499	83	275077	52.00	ppb	95
62) 2-Chloroethylvinyl Ether	7.901	63	138559	48.68	ppb	98
63) cis-1,3-Dichloropropene	8.029	75	362789	56.81	ppb	99
64) 4-Methyl-2-pentanone	8.242	43	290124	49.81	ppb	94
66) Toluene	8.389	91	995380	55.15	ppb	100
67) trans-1,3-Dichloropropene	8.669	75	335357	56.64	ppb	97
68) Ethyl Methacrylate	8.797	69	359002	54.95	ppb	96
69) 1,1,2-Trichloroethane	8.858	97	206962	51.34	ppb	96
72) Tetrachloroethene	8.968	164	160984	52.13	ppb	97
73) 2-Hexanone	9.145	43	223232	52.90	ppb	98
74) 1,3-Dichloropropene	9.023	76	388600	54.41	ppb	99
75) Dibromochloromethane	9.248	129	182980	56.33	ppb	94
76) N-Butyl Acetate	9.291	43	434066	53.87	ppb	98
77) 1,2-Dibromoethane	9.346	107	217675	55.13	ppb	87
78) Chlorobenzene	9.827	112	611602	53.64	ppb	96
79) 3-CBTF	9.840	180	293485	52.62	ppb	99
80) 4-CBTF	9.894	180	255529	49.41	ppb	93
81) 1,1,1,2-Tetrachloroethane	9.913	131	189546	56.04	ppb	94
82) Ethylbenzene	9.937	106	348076	55.40	ppb	99
83) (m+p)Xylene	10.047	106	854169	112.47	ppb	96
84) o-Xylene	10.407	106	409619	54.61	ppb	100
85) Styrene	10.425	104	699711	55.74	ppb	97
87) Bromoform	10.583	173	116430	56.17	ppb	97
88) 2-CBTF	10.656	180	285531	52.23	ppb	96
89) Isopropylbenzene	10.736	105	1034859	57.17	ppb	98
90) Cyclohexanone	10.821	55	1091744	1127.88	ppb	98
91) trans-1,4-Dichloro-2-B...	11.059	53	83384	52.92	ppb	90
92) 1,1,2,2-Tetrachloroethane	11.010	83	309174	55.08	ppb	99
93) Bromobenzene	10.992	156	243938	52.35	ppb	96
94) 1,2,3-Trichloropropane	11.041	110	100370	51.86	ppb	94
95) n-Propylbenzene	11.089	91	1322973	58.57	ppb	98
96) 2-Chlorotoluene	11.156	91	794801	55.58	ppb	99
97) 3-Chlorotoluene	11.211	91	789250	55.21	ppb	98
98) 4-Chlorotoluene	11.248	91	900970	56.11	ppb	100
99) 1,3,5-Trimethylbenzene	11.242	105	985532	58.59	ppb	99
100) tert-Butylbenzene	11.510	119	764563	55.31	ppb	99
101) 1,2,4-Trimethylbenzene	11.553	105	963837	57.45	ppb	97
102) 3,4-DCBTF	11.614	214	230549	51.08	ppb	96
103) sec-Butylbenzene	11.693	105	1159446	58.43	ppb	100
104) p-Isopropyltoluene	11.815	119	1012057	58.21	ppb	99
105) 1,3-Dclbenz	11.778	146	491992	53.99	ppb	95

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

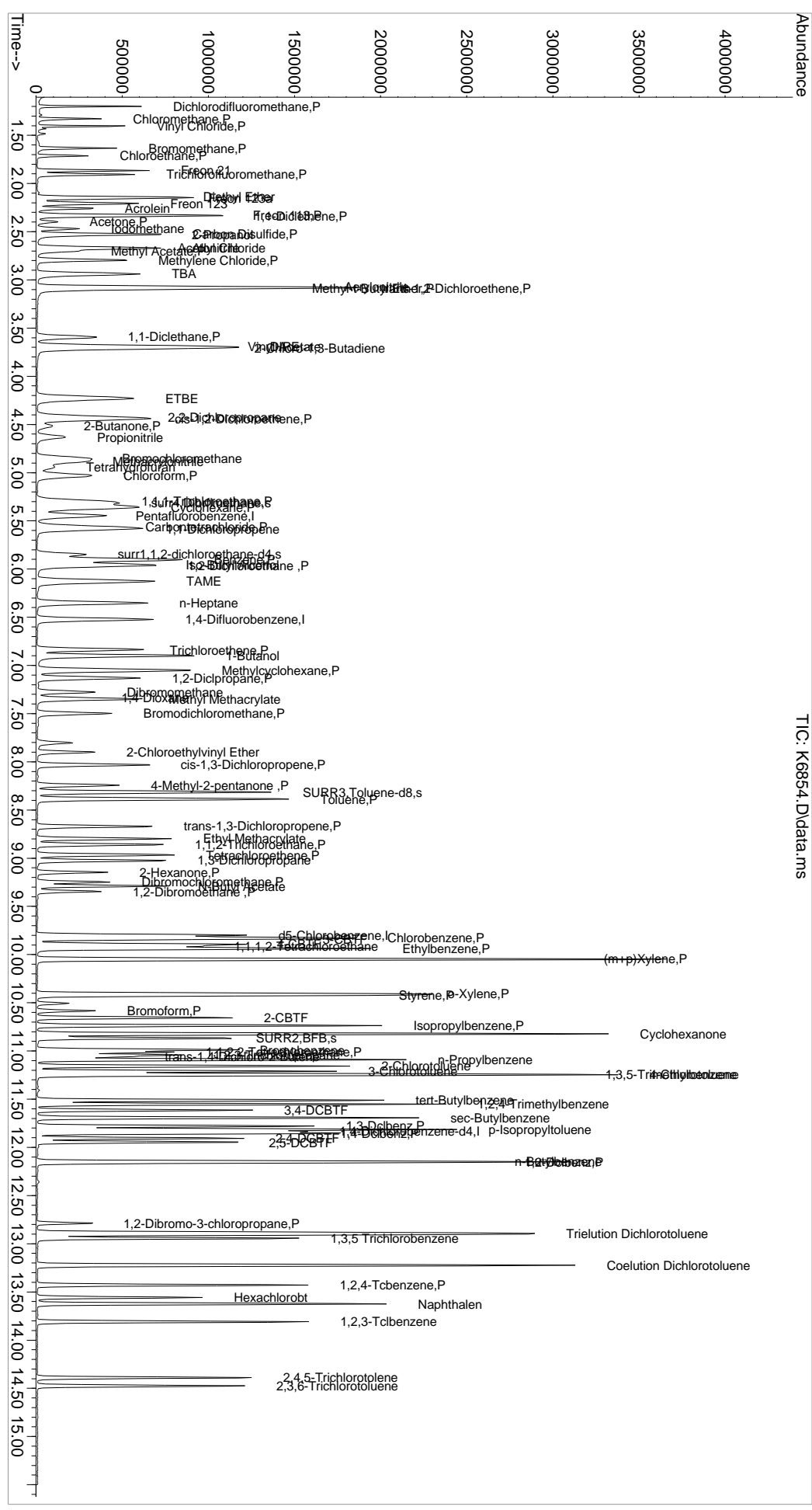
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.857	146	494120	50.37	ppb	98
107) 2,4-DCBTF	11.906	214	207482	52.29	ppb	97
108) 2,5-DCBTF	11.949	214	241287	54.81	ppb	97
109) n-Butylbenzene	12.144	91	970351	60.38	ppb	98
110) 1,2-Dclbenz	12.156	146	488835	53.87	ppb	95
111) 1,2-Dibromo-3-chloropr...	12.790	157	67436	55.27	ppb	98
112) Trielution Dichlorotol...	12.894	125	1419245	166.17	ppb	99
113) 1,3,5 Trichlorobenzene	12.943	180	357899	53.54	ppb	96
114) Coelution Dichlorotoluene	13.223	125	1052922	113.79	ppb	99
115) 1,2,4-Tcbenzene	13.430	180	361010	55.18	ppb	96
116) Hexachlorobt	13.558	225	135437	52.54	ppb	97
117) Naphthalen	13.625	128	1178989	57.33	ppb	100
118) 1,2,3-Tclbenzene	13.808	180	357200	54.53	ppb	90
119) 2,4,5-Trichlorotolene	14.387	159	256407	55.71	ppb	100
120) 2,3,6-Trichlorotoluene	14.473	159	225581	52.63	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

09/20/21
Data Path : I:\ACQDATA\msvoa12\Data\092021\
Data File : K6854.D
Acq On : 20 Sep 2021 10:49 am
Operator : K.Ruest
Sample : CCV
Inst : MSVOA-12
Sample Multiplier: 1

Quant Time: Sep 20 12:00:25 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B MATERS 10mL Purge
QIast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

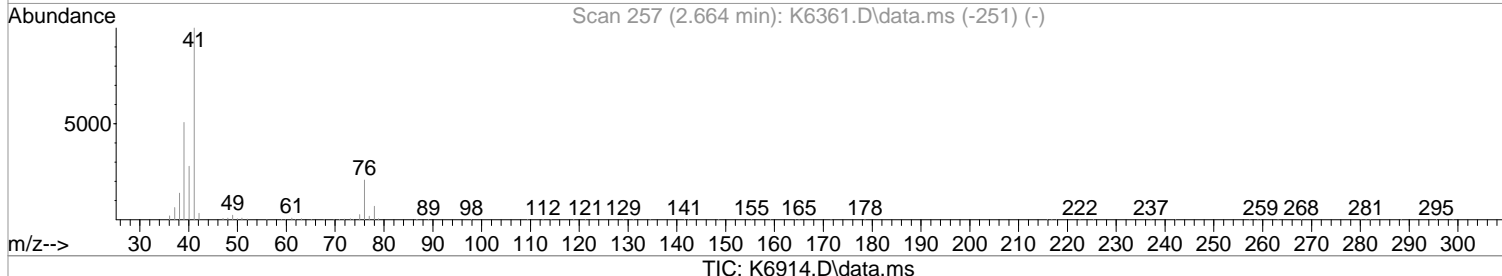
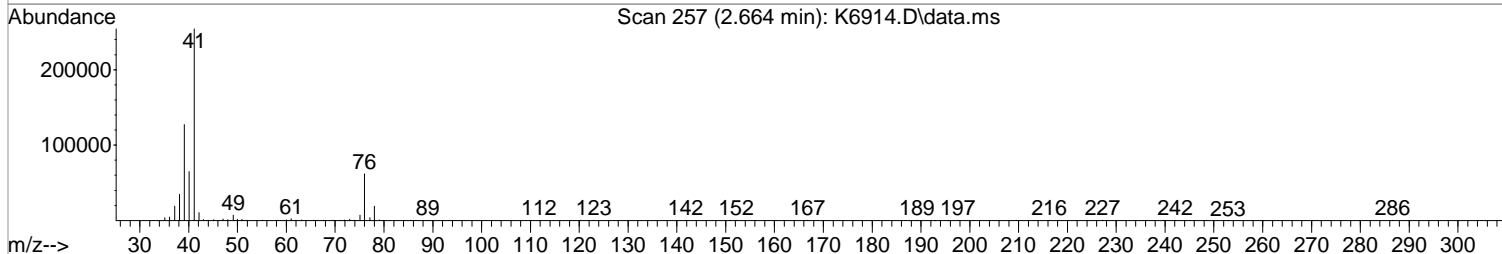
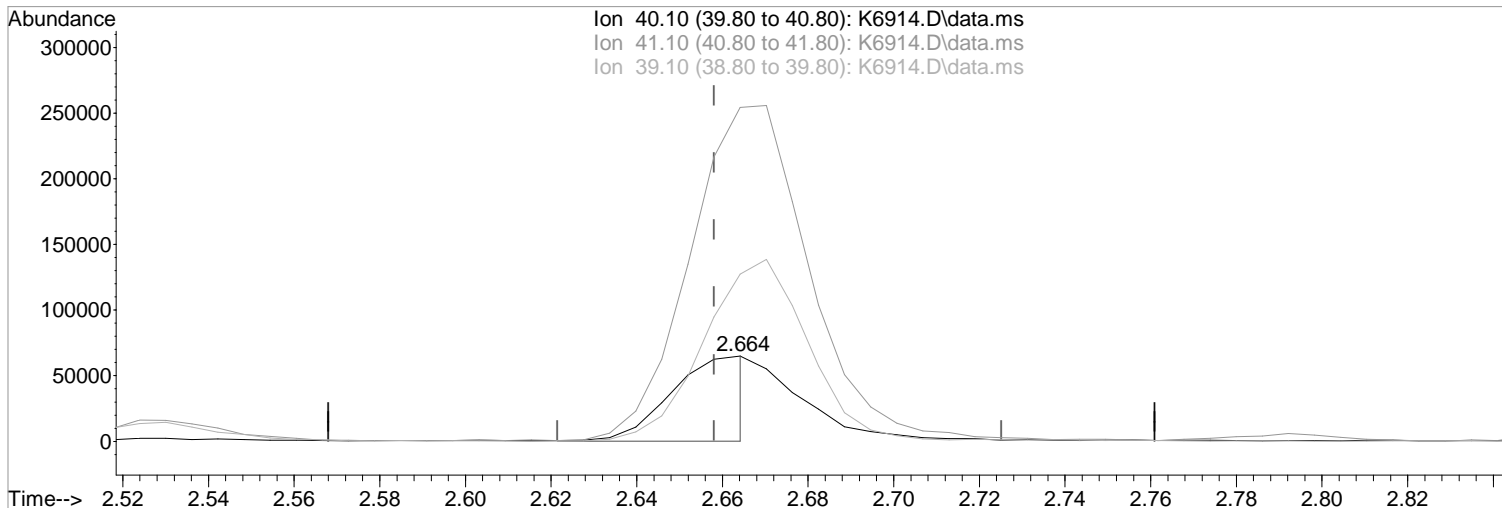
TIC: K6854.D\data.ms



Data Path : I:\ACQUDATA\msvoa12\Data\092121\
Data File : K6914.D
Acq On : 21 Sep 2021 10:38 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:03:05 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.664min (+0.006) 268.85 ppb m
response 80804

Manual Integration:

After

Poor integration.

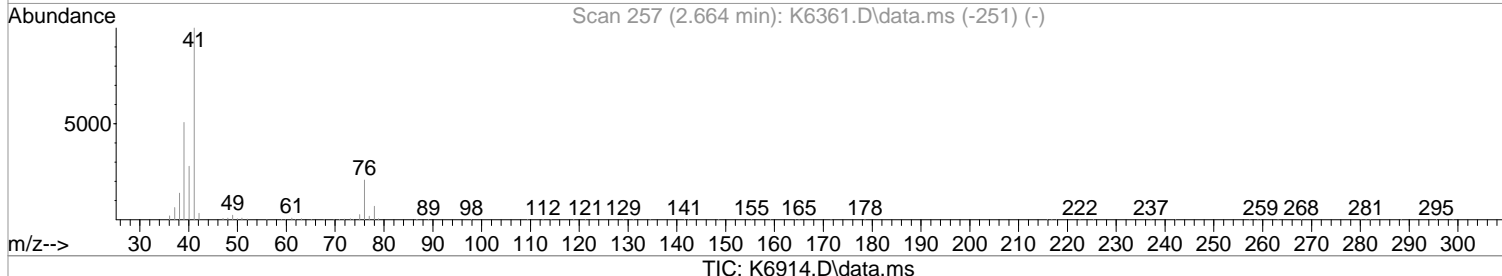
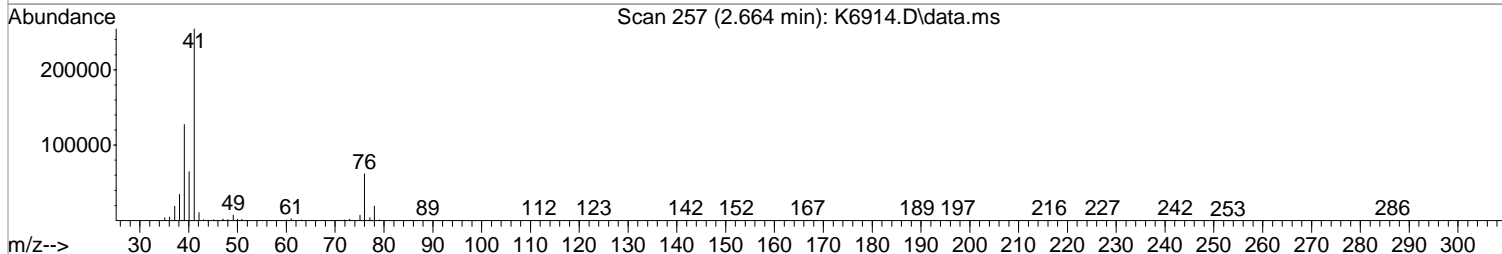
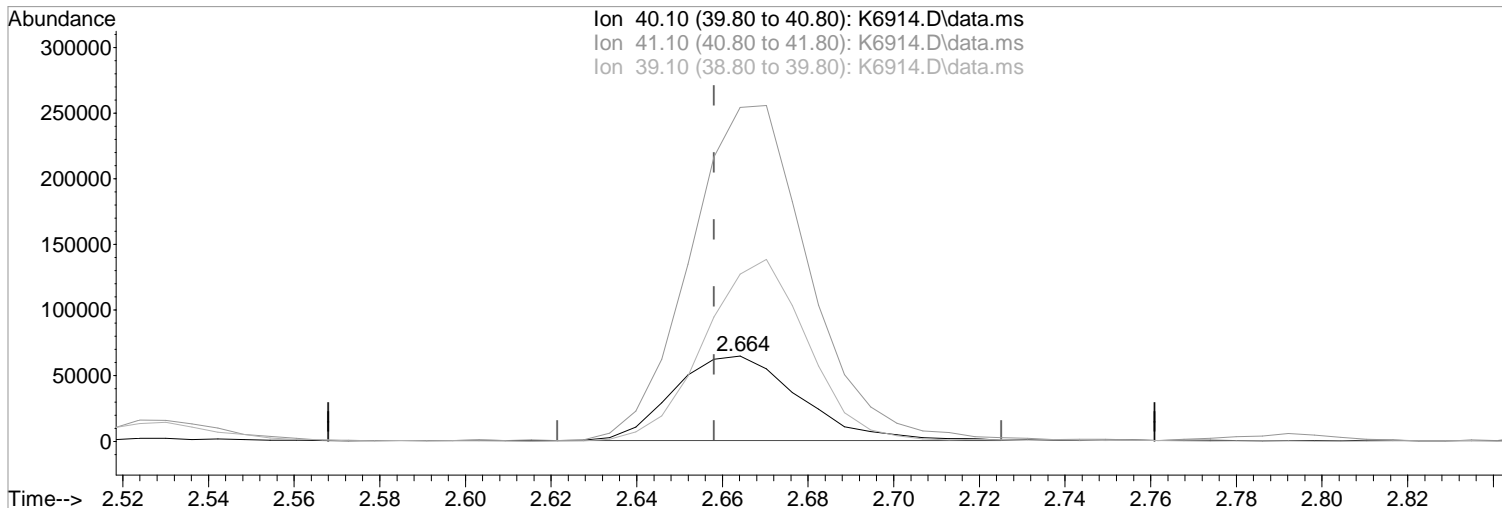
09/21/21

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	391.10#
39.10	180.50	195.82
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\092121\
Data File : K6914.D
Acq On : 21 Sep 2021 10:38 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:03:05 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.664min (+0.006) 438.12 ppb
response 131680

Manual Integration:

Before

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	391.10#
39.10	180.50	195.82
0.00	0.00	0.00

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6914.D
 Acq On : 21 Sep 2021 10:38 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:03:29 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.0000	50.0000	0.0	98	0.00
2 P	Dichlorodifluoromethane	50.0000	60.3120	-20.6#	107	0.00
3 P	Chloromethane	50.0000	54.4854	-9.0	111	0.00
4 P	Vinyl Chloride	50.0000	51.9281	-3.9	100	0.00
5 P	Bromomethane	50.0000	54.3441	-8.7	106	0.02
6 P	Chloroethane	50.0000	50.3010	-0.6	101	0.02
7	Freon 21	50.0000	54.0720	-8.1	108	0.01
8 P	Trichlorofluoromethane	50.0000	49.3636	1.3	96	0.01
9	Diethyl Ether	50.0000	56.0799	-12.2	110	0.00
10	Freon 123a	50.0000	55.8191	-11.6	112	0.00
11	Freon 123	50.0000	56.9579	-13.9	111	0.01
12	Acrolein	250.0000	221.4904	11.4	91	0.00
13 P	1,1-Dicethene	50.0000	51.0826	-2.2	101	0.00
14 P	Freon 113	50.0000	53.0992	-6.2	105	0.00
15 P	Acetone	50.0000	50.0263	-0.1	98	0.00
16	2-Propanol	1000.0000	904.7845	9.5	88	0.00
17	Iodomethane	50.0000	52.4283	-4.9	92	0.01
18 P	Carbon Disulfide	50.0000	56.0601	-12.1	113	0.01
19	Acetonitrile	250.0000	268.8487	-7.5	104	0.00
20	Allyl Chloride	50.0000	54.4717	-8.9	104	0.00
21 P	Methyl Acetate	50.0000	49.4835	1.0	99	0.00
22 P	Methylene Chloride	50.0000	50.1951	-0.4	106	0.00
23	TBA	1000.0000	851.0392	14.9	84	0.00
24	Acrylonitrile	250.0000	256.7475	-2.7	97	0.00
25 P	Methyl-t-Butyl Ether	50.0000	53.5322	-7.1	103	0.00
26 P	trans-1,2-Dichloroethene	50.0000	51.4153	-2.8	102	0.00
27	Halothane	-1.0000	0.0000	0.0	0	-4.25#
28 P	1,1-Dicethane	50.0000	52.5990	-5.2	100	0.00
29	Vinyl Acetate	50.0000	51.4827	-3.0	108	0.00
30	DIPE	50.0000	50.7914	-1.6	106	0.00
31	2-Chloro-1,3-Butadiene	50.0000	55.8245	-11.6	109	0.00
32	ETBE	50.0000	51.7847	-3.6	106	0.00
33	2,2-Dichloropropane	50.0000	51.2601	-2.5	98	0.00
34 P	cis-1,2-Dichloroethene	50.0000	50.8661	-1.7	103	0.00
35 P	2-Butanone	50.0000	47.5534	4.9	99	0.00
36	Propionitrile	250.0000	240.3172	3.9	91	0.00
37	Bromochloromethane	50.0000	50.0213	-0.0	99	0.00
38	Methacrylonitrile	50.0000	51.3236	-2.6	100	0.00
39	Tetrahydrofuran	50.0000	45.9298	8.1	88	0.00
40 P	Chloroform	50.0000	51.3343	-2.7	98	0.00
41 P	1,1,1-Trichloroethane	50.0000	49.4429	1.1	94	0.00
42	TAME	50.0000	51.8917	-3.8	105	0.00
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	100	0.00
44 P	Cyclohexane	50.0000	51.6553	-3.3	107	0.00
45 s	surr4,Dibrflmethane	50.0000	54.6992	-9.4	110	0.00
46 P	Carbontetrachloride	50.0000	44.6055	10.8	90	0.00
47	1,1-Dichloropropene	50.0000	49.9350	0.1	99	0.00
48 s	surr1,1,2-dichloroethane-d4	50.0000	52.4034	-4.8	102	0.00
49 P	Benzene	50.0000	50.9260	-1.9	102	0.00
50 P	1,2-Dichloroethane	50.0000	48.6218	2.8	98	0.00
51	Iso-Butyl Alcohol	1000.0000	850.7417	14.9	84	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6914.D
 Acq On : 21 Sep 2021 10:38 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:03:29 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	n-Heptane	50.0000	53.2872	-6.6	106	0.00
53	1-Butanol	2500.0000	2326.4890	6.9	89	-0.01
54 P	Trichloroethene	50.0000	47.8723	4.3	99	0.00
55 P	Methylcyclohexane	50.0000	58.0694	-16.1	115	0.00
56 P	1,2-Diclp propane	50.0000	50.1458	-0.3	99	0.00
57	Dibromomethane	50.0000	49.8844	0.2	98	0.00
58	1,4-Dioxane	1000.0000	910.4044	9.0	96	0.00
59	Methyl Methacrylate	50.0000	48.8332	2.3	101	0.00
60 P	Bromodichloromethane	50.0000	48.1063	3.8	98	0.00
61	2-Nitropropane	-1.0000	0.0000	0.0	75	0.00
62	2-Chloroethylvinyl Ether	50.0000	49.3517	1.3	103	0.00
63 P	cis-1,3-Dichloropropene	50.0000	52.1703	-4.3	99	0.00
64 P	4-Methyl-2-pentanone	50.0000	47.6218	4.8	98	0.00
65 s	SURR3,Toluene-d8	50.0000	55.2338	-10.5	110	0.00
66 P	Toluene	50.0000	51.1300	-2.3	101	0.00
67 P	trans-1,3-Dichloropropene	50.0000	51.1694	-2.3	95	0.00
68	Ethyl Methacrylate	50.0000	52.3806	-4.8	98	0.00
69 P	1,1,2-Trichloroethane	50.0000	48.3590	3.3	102	0.00
70 s	SURR2,BFB	50.0000	53.9699	-7.9	110	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	102	0.00
72 P	Tetrachloroethene	50.0000	46.1022	7.8	98	0.00
73 P	2-Hexanone	50.0000	49.2862	1.4	99	0.00
74	1,3-Dichloropropene	50.0000	51.0532	-2.1	101	0.00
75 P	Dibromochloromethane	50.0000	51.1436	-2.3	98	0.00
76	N-Butyl Acetate	50.0000	52.1201	-4.2	99	0.00
77 P	1,2-Dibromoethane	50.0000	48.3548	3.3	98	0.00
78 P	Chlorobenzene	50.0000	49.0414	1.9	101	0.00
79	3-CBTF	50.0000	47.1325	5.7	107	0.00
80	4-CBTF	50.0000	45.3368	9.3	106	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	50.4825	-1.0	96	0.00
82 P	Ethylbenzene	50.0000	48.7099	2.6	99	0.00
83 P	(m+p)Xylene	100.0000	101.9864	-2.0	99	0.00
84 P	o-Xylene	50.0000	50.2671	-0.5	99	0.00
85 P	Styrene	50.0000	51.8485	-3.7	99	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	99	0.00
87 P	Bromoform	50.0000	50.4237	-0.8	93	0.00
88	2-CBTF	50.0000	47.3155	5.4	103	0.00
89 P	Isopropylbenzene	50.0000	52.4910	-5.0	98	0.00
90	Cyclohexanone	1000.0000	937.9753	6.2	84	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	47.5372	4.9	91	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	50.3784	-0.8	93	0.00
93	Bromobenzene	50.0000	48.7929	2.4	97	0.00
94	1,2,3-Trichloropropene	50.0000	47.0762	5.8	91	0.00
95	n-Propylbenzene	50.0000	54.3336	-8.7	99	0.00
96	2-Chlorotoluene	50.0000	52.5328	-5.1	98	0.00
97	3-Chlorotoluene	50.0000	52.1332	-4.3	107	0.00
98	4-Chlorotoluene	50.0000	52.3820	-4.8	99	0.00
99	1,3,5-Trimethylbenzene	50.0000	54.1146	-8.2	98	0.00
100	tert-Butylbenzene	50.0000	51.6333	-3.3	97	0.00
101	1,2,4-Trimethylbenzene	50.0000	53.2157	-6.4	98	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6914.D
 Acq On : 21 Sep 2021 10:38 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:03:29 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	3,4-DCBTF	50.0000	47.6486	4.7	109	0.00
103	sec-Butylbenzene	50.0000	54.2752	-8.6	100	0.00
104	p-Isopropyltoluene	50.0000	53.7526	-7.5	100	0.00
105 P	1,3-Dclbenz	50.0000	50.8800	-1.8	98	0.00
106 P	1,4-Dclbenz	50.0000	49.1522	1.7	98	0.00
107	2,4-DCBTF	50.0000	48.3194	3.4	108	0.00
108	2,5-DCBTF	50.0000	50.8319	-1.7	109	0.00
109	n-Butylbenzene	50.0000	55.0199	-10.0	99	0.00
110 P	1,2-Dclbenz	50.0000	50.0678	-0.1	97	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	50.2717	-0.5	90	0.00
112	Trielution Dichlorotoluene	150.0000	158.3312	-5.6	111	0.00
113	1,3,5 Trichlorobenzene	50.0000	49.9356	0.1	109	0.00
114	Coelution Dichlorotoluene	100.0000	108.3228	-8.3	111	0.00
115 P	1,2,4-Tcbenzene	50.0000	50.9144	-1.8	97	0.00
116	Hexachlorobt	50.0000	48.3358	3.3	97	0.00
117	Naphthalen	50.0000	54.1471	-8.3	94	0.00
118	1,2,3-Tclbenzene	50.0000	51.0008	-2.0	96	0.00
119	2,4,5-Trichlorotolene	50.0000	54.2676	-8.5	110	0.00
120	2,3,6-Trichlorotoluene	50.0000	50.7697	-1.5	106	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoal2\Data\092121\
 Data File : K6914.D
 Acq On : 21 Sep 2021 10:38 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:03:29 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	346831	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	589644	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	538006	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	260217	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	175581	54.70	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	109.40%	
48) surr1,1,2-dichloroetha...	5.846	65	244595	52.40	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	104.80%	
65) SURR3,Toluene-d8	8.315	98	833376	55.23	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	110.46%	
70) SURR2,BFB	10.864	95	323241	53.97	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	107.94%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.195	85	282292	60.31	ppb	98
3) Chloromethane	1.323	50	219493	54.49	ppb	100
4) Vinyl Chloride	1.402	62	243619	51.93	ppb	100
5) Bromomethane	1.634	94	166351	54.34	ppb	95
6) Chloroethane	1.713	64	154906	50.30	ppb	93
7) Freon 21	1.866	67	404924	54.07	ppb	99
8) Trichlorofluoromethane	1.902	101	293628	49.36	ppb	95
9) Diethyl Ether	2.140	59	205985	56.08	ppb	98
10) Freon 123a	2.146	67	248271	55.82	ppb	91
11) Freon 123	2.207	83	276441	56.96	ppb	98
12) Acrolein	2.256	56	216676	221.49	ppb	95
13) 1,1-Dicethene	2.329	96	172309	51.08	ppb	94
14) Freon 113	2.329	101	174936	53.10	ppb	93
15) Acetone	2.396	43	99208	50.03	ppb	94
16) 2-Propanol	2.530	45	407365	904.78	ppb	100
17) Iodomethane	2.469	142	211960	52.43	ppb	99
18) Carbon Disulfide	2.524	76	457539	56.06	ppb	99
19) Acetonitrile	2.664	40	80804m	268.85	ppb	
20) Allyl Chloride	2.670	76	112744	54.47	ppb	# 83
21) Methyl Acetate	2.701	43	218835	49.48	ppb	98
22) Methylene Chloride	2.792	84	201945	50.20	ppb	93
23) TBA	2.938	59	666207	851.04	ppb	97
24) Acrylonitrile	3.073	53	570331	256.75	ppb	95
25) Methyl-t-Butyl Ether	3.085	73	725783	53.53	ppb	100
26) trans-1,2-Dichloroethene	3.079	96	189743	51.42	ppb	96
28) 1,1-Dicethane	3.591	63	365098	52.60	ppb	98
29) Vinyl Acetate	3.688	86	50791	51.48	ppb	# 96
30) DIPE	3.694	45	630078	50.79	ppb	93
31) 2-Chloro-1,3-Butadiene	3.707	53	331156	55.82	ppb	98
32) ETBE	4.219	59	649768	51.78	ppb	99
33) 2,2-Dichloropropane	4.420	77	296602	51.26	ppb	97
34) cis-1,2-Dichloroethene	4.444	96	216222	50.87	ppb	97
35) 2-Butanone	4.517	43	142458	47.55	ppb	90
36) Propionitrile	4.621	54	233554	240.32	ppb	99
37) Bromochloromethane	4.847	130	121389	50.02	ppb	91
38) Methacrylonitrile	4.883	67	121199	51.32	ppb	97
39) Tetrahydrofuran	4.938	42	91796	45.93	ppb	86
40) Chloroform	5.030	83	346533	51.33	ppb	96
41) 1,1,1-Trichloroethane	5.298	97	274573	49.44	ppb	95

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6914.D
 Acq On : 21 Sep 2021 10:38 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 21 12:03:29 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	631916	51.89	ppb	98
44) Cyclohexane	5.353	41	201552	51.66	ppb	97
46) Carbontetrachloride	5.560	117	202583	44.61	ppb	95
47) 1,1-Dichloropropene	5.578	75	267969	49.93	ppb	99
49) Benzene	5.901	78	851336	50.93	ppb	99
50) 1,2-Dichloroethane	5.962	62	305351	48.62	ppb	98
51) Iso-Butyl Alcohol	5.956	43	286818	850.74	ppb	93
52) n-Heptane	6.346	43	269036	53.29	ppb	93
53) 1-Butanol	6.895	56	510233	2326.49	ppb	97
54) Trichloroethene	6.834	130	198657	47.87	ppb	98
55) Methylcyclohexane	7.047	55	316999	58.07	ppb	95
56) 1,2-Diclpropane	7.133	63	217441	50.15	ppb	100
57) Dibromomethane	7.273	93	123979	49.88	ppb	88
58) 1,4-Dioxane	7.340	88	86503	910.40	ppb	95
59) Methyl Methacrylate	7.346	69	194341	48.83	ppb	97
60) Bromodichloromethane	7.499	83	252467	48.11	ppb	98
62) 2-Chloroethylvinyl Ether	7.901	63	139365	49.35	ppb	100
63) cis-1,3-Dichloropropene	8.029	75	330517	52.17	ppb	98
64) 4-Methyl-2-pentanone	8.242	43	275209	47.62	ppb	98
66) Toluene	8.389	91	915496	51.13	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	300574	51.17	ppb	94
68) Ethyl Methacrylate	8.797	69	339523	52.38	ppb	100
69) 1,1,2-Trichloroethane	8.858	97	193414	48.36	ppb	99
72) Tetrachloroethene	8.968	164	142946	46.10	ppb	96
73) 2-Hexanone	9.145	43	208808	49.29	ppb	99
74) 1,3-Dichloropropene	9.029	76	366100	51.05	ppb	97
75) Dibromochloromethane	9.248	129	166820	51.14	ppb	95
76) N-Butyl Acetate	9.291	43	421668	52.12	ppb	99
77) 1,2-Dibromoethane	9.346	107	191690	48.35	ppb	90
78) Chlorobenzene	9.827	112	561467	49.04	ppb	100
79) 3-CBTF	9.840	180	263938	47.13	ppb	96
80) 4-CBTF	9.894	180	235423	45.34	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.913	131	171437	50.48	ppb	95
82) Ethylbenzene	9.937	106	307299	48.71	ppb	99
83) (m+p)Xylene	10.047	106	777685	101.99	ppb	91
84) o-Xylene	10.407	106	378569	50.27	ppb	99
85) Styrene	10.425	104	653487	51.85	ppb	99
87) Bromoform	10.583	173	101923	50.42	ppb	94
88) 2-CBTF	10.656	180	252255	47.32	ppb	96
89) Isopropylbenzene	10.736	105	926463	52.49	ppb	100
90) Cyclohexanone	10.821	55	885354	937.98	ppb	95
91) trans-1,4-Dichloro-2-B...	11.059	53	72641	47.54	ppb	91
92) 1,1,2,2-Tetrachloroethane	11.010	83	275779	50.38	ppb	98
93) Bromobenzene	10.992	156	221703	48.79	ppb	93
94) 1,2,3-Trichloropropane	11.041	110	89130	47.08	ppb	# 90
95) n-Propylbenzene	11.089	91	1196850	54.33	ppb	100
96) 2-Chlorotoluene	11.156	91	732510	52.53	ppb	97
97) 3-Chlorotoluene	11.211	91	726806	52.13	ppb	100
98) 4-Chlorotoluene	11.248	91	820274	52.38	ppb	98
99) 1,3,5-Trimethylbenzene	11.242	105	887616	54.11	ppb	99
100) tert-Butylbenzene	11.510	119	695993	51.63	ppb	98
101) 1,2,4-Trimethylbenzene	11.553	105	870642	53.22	ppb	98
102) 3,4-DCBTF	11.614	214	209701	47.65	ppb	97
103) sec-Butylbenzene	11.693	105	1050205	54.28	ppb	98
104) p-Isopropyltoluene	11.815	119	911399	53.75	ppb	99
105) 1,3-Dclbenz	11.784	146	452090	50.88	ppb	96

Data Path : I:\ACQUDATA\msvoal2\Data\092121\
 Data File : K6914.D
 Acq On : 21 Sep 2021 10:38 am
 Operator : K.Ruest
 Sample : CCV Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

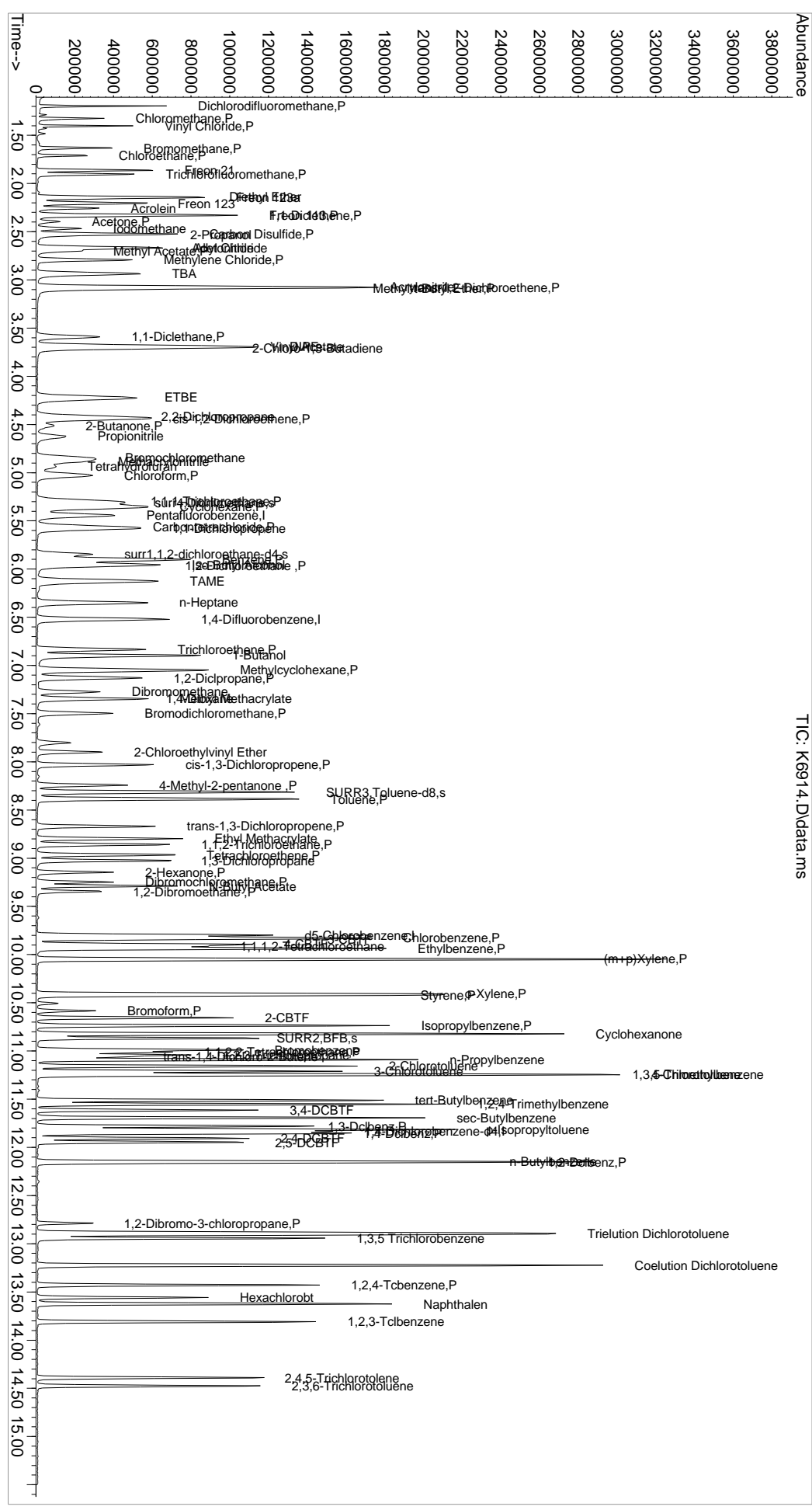
Quant Time: Sep 21 12:03:29 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.857	146	470154	49.15	ppb	96
107) 2,4-DCBTF	11.906	214	186951	48.32	ppb	97
108) 2,5-DCBTF	11.949	214	218198	50.83	ppb	94
109) n-Butylbenzene	12.144	91	862208	55.02	ppb	98
110) 1,2-Dclbenz	12.156	146	443012	50.07	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.790	157	59817	50.27	ppb	95
112) Trielution Dichlorotol...	12.894	125	1318698	158.33	ppb	97
113) 1,3,5 Trichlorobenzene	12.943	180	325485	49.94	ppb	98
114) Coelution Dichlorotoluene	13.223	125	977388	108.32	ppb	98
115) 1,2,4-Tcbenzene	13.430	180	324805	50.91	ppb	92
116) Hexachlorobt	13.558	225	121506	48.34	ppb	97
117) Naphthalen	13.625	128	1085787	54.15	ppb	99
118) 1,2,3-Tclbenzene	13.808	180	325788	51.00	ppb	97
119) 2,4,5-Trichlorotolene	14.394	159	243539	54.27	ppb	99
120) 2,3,6-Trichlorotoluene	14.473	159	212185	50.77	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

09/21/21
Data Path : I:\ACQDATA\msvoa12\Data\092121\
Data File : K6914.D
Acq On : 21 Sep 2021 10:38 am
Operator : K.Ruest
Sample : CCV
Inst : MSVOA-12
PALS Vial : 1 Sample Multiplier: 1

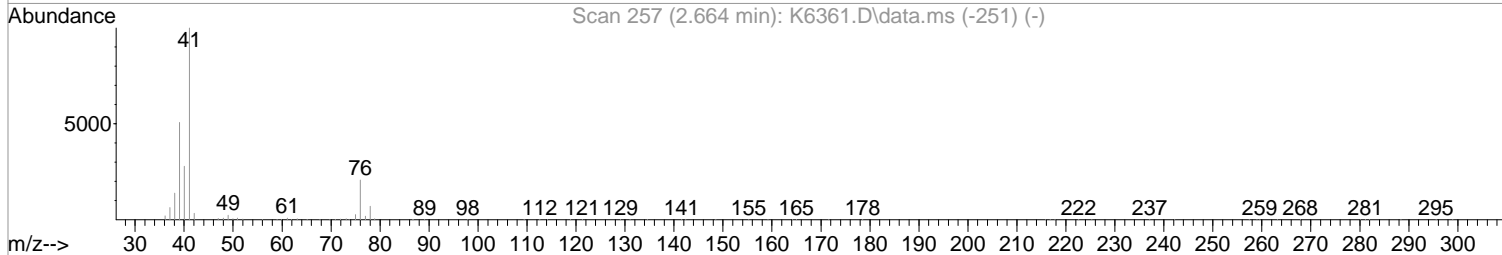
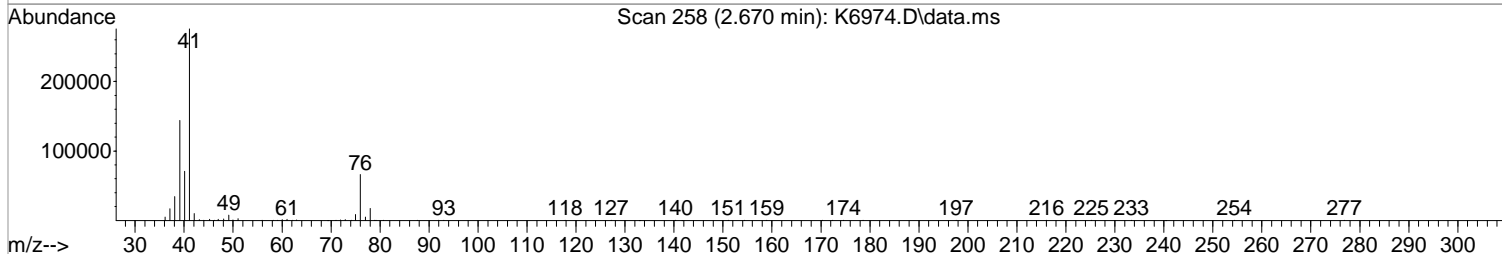
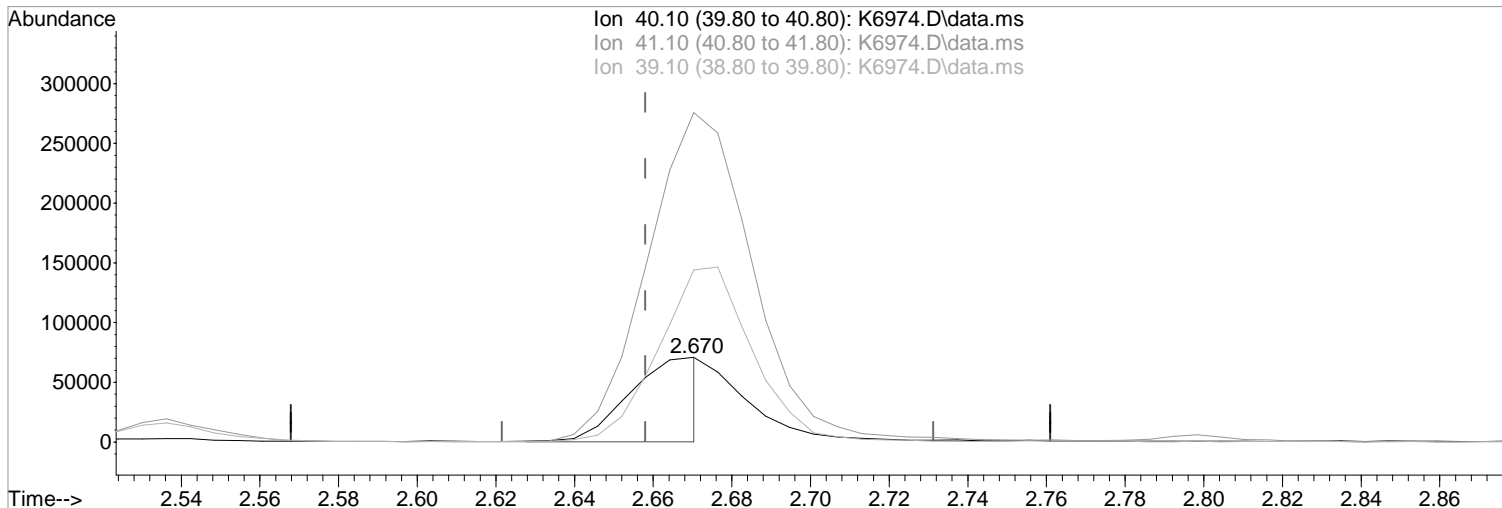
Quant Time: Sep 21 12:03:29 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B MATERS 10ml Purge
QIast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\092221\
Data File : K6974.D
Acq On : 22 Sep 2021 10:21 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 10:37:32 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.670min (+0.012) 298.49 ppb m
response 89452

Manual Integration:

After

Poor integration.

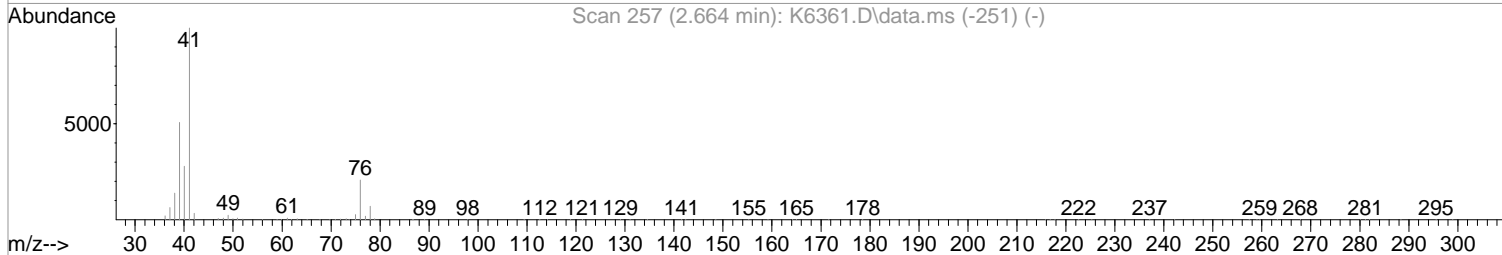
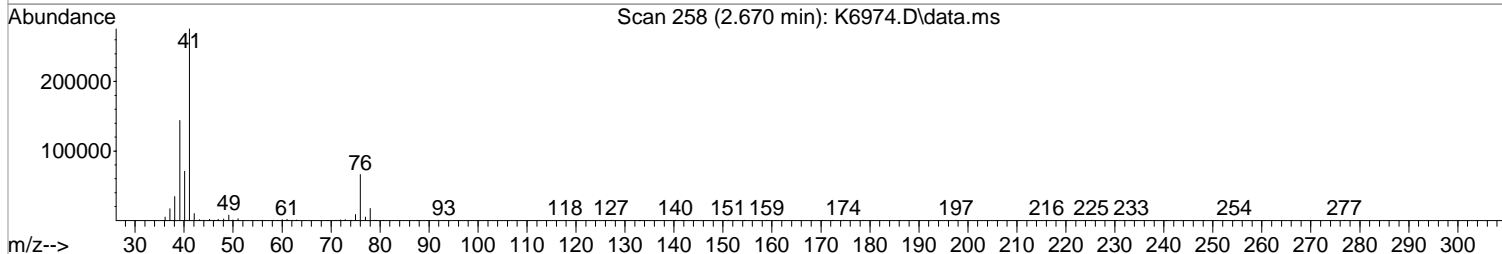
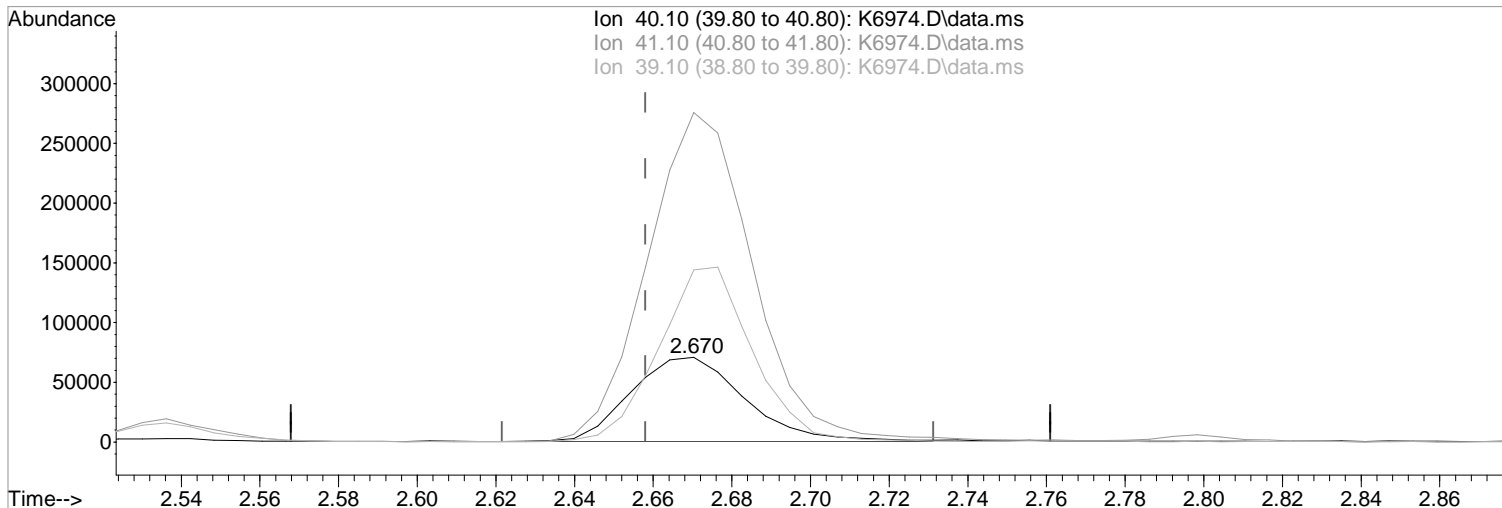
09/22/21

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	389.47#
39.10	180.50	203.18#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
Data File : K6974.D
Acq On : 22 Sep 2021 10:21 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 10:37:32 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.670min (+0.012) 473.75 ppb
response 141977

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	389.47#
39.10	180.50	203.18#
0.00	0.00	0.00

09/22/21

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6974.D
 Acq On : 22 Sep 2021 10:21 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 10:38:12 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.0000	50.0000	0.0	98	0.00
2 P	Dichlorodifluoromethane	50.0000	57.4945	-15.0	102	0.01
3 P	Chloromethane	50.0000	57.4672	-14.9	117	0.01
4 P	Vinyl Chloride	50.0000	52.5231	-5.0	101	0.01
5 P	Bromomethane	50.0000	52.4594	-4.9	102	0.02
6 P	Chloroethane	50.0000	51.7646	-3.5	103	0.02
7	Freon 21	50.0000	50.6614	-1.3	101	0.01
8 P	Trichlorofluoromethane	50.0000	49.0647	1.9	95	0.02
9	Diethyl Ether	50.0000	56.2720	-12.5	110	0.01
10	Freon 123a	50.0000	50.5407	-1.1	101	0.01
11	Freon 123	50.0000	52.8796	-5.8	103	0.01
12	Acrolein	250.0000	223.4262	10.6	91	0.01
13 P	1,1-Dicethene	50.0000	54.0932	-8.2	107	0.01
14 P	Freon 113	50.0000	54.1617	-8.3	106	0.01
15 P	Acetone	50.0000	45.4757	9.0	90	0.01
16	2-Propanol	1000.0000	959.8870	4.0	93	0.00
17	Iodomethane	50.0000	52.4980	-5.0	91	0.02
18 P	Carbon Disulfide	50.0000	54.6472	-9.3	110	0.01
19	Acetonitrile	250.0000	298.4861	-19.4	116	0.01
20	Allyl Chloride	50.0000	53.1670	-6.3	101	0.01
21 P	Methyl Acetate	50.0000	50.3767	-0.8	100	0.01
22 P	Methylene Chloride	50.0000	50.5093	-1.0	106	0.01
23	TBA	1000.0000	916.5552	8.3	90	0.00
24	Acrylonitrile	250.0000	265.3780	-6.2	100	0.00
25 P	Methyl-t-Butyl Ether	50.0000	55.3316	-10.7	106	0.00
26 P	trans-1,2-Dichloroethene	50.0000	52.4046	-4.8	104	0.01
27	Halothane	-1.0000	0.0000	0.0	0	-4.25#
28 P	1,1-Dicethane	50.0000	53.6433	-7.3	101	0.01
29	Vinyl Acetate	50.0000	50.2821	-0.6	106	0.00
30	DIPE	50.0000	52.7864	-5.6	110	0.00
31	2-Chloro-1,3-Butadiene	50.0000	53.8883	-7.8	105	0.01
32	ETBE	50.0000	53.4712	-6.9	109	0.00
33	2,2-Dichloropropane	50.0000	51.0035	-2.0	98	0.01
34 P	cis-1,2-Dichloroethene	50.0000	52.1500	-4.3	106	0.00
35 P	2-Butanone	50.0000	47.1097	5.8	98	0.01
36	Propionitrile	250.0000	250.2973	-0.1	94	0.00
37	Bromochloromethane	50.0000	50.7996	-1.6	100	0.00
38	Methacrylonitrile	50.0000	50.9282	-1.9	99	0.01
39	Tetrahydrofuran	50.0000	44.9597	10.1	86	0.02
40 P	Chloroform	50.0000	51.3672	-2.7	97	0.01
41 P	1,1,1-Trichloroethane	50.0000	50.1187	-0.2	95	0.01
42	TAME	50.0000	54.0479	-8.1	109	0.00
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	99	0.00
44 P	Cyclohexane	50.0000	47.6411	4.7	98	0.00
45 s	surr4,Dibrflmethane	50.0000	54.7838	-9.6	110	0.00
46 P	Carbontetrachloride	50.0000	45.8759	8.2	92	0.00
47	1,1-Dichloropropene	50.0000	51.0333	-2.1	101	0.00
48 s	surr1,1,2-dichloroethane-d4	50.0000	52.0918	-4.2	101	0.00
49 P	Benzene	50.0000	51.3084	-2.6	102	0.00
50 P	1,2-Dichloroethane	50.0000	48.2548	3.5	96	0.00
51	Iso-Butyl Alcohol	1000.0000	913.7857	8.6	90	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6974.D
 Acq On : 22 Sep 2021 10:21 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 10:38:12 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	n-Heptane	50.0000	54.3784	-8.8	107	0.00
53	1-Butanol	2500.0000	2402.4261	3.9	91	0.00
54 P	Trichloroethene	50.0000	48.3544	3.3	100	0.00
55 P	Methylcyclohexane	50.0000	52.6628	-5.3	103	0.00
56 P	1,2-Diclp propane	50.0000	51.4197	-2.8	101	0.00
57	Dibromomethane	50.0000	51.9883	-4.0	102	0.00
58	1,4-Dioxane	1000.0000	914.5807	8.5	96	0.00
59	Methyl Methacrylate	50.0000	49.6582	0.7	102	0.00
60 P	Bromodichloromethane	50.0000	48.5664	2.9	98	0.00
61	2-Nitropropane	-1.0000	0.0000	0.0	78	0.00
62	2-Chloroethylvinyl Ether	50.0000	48.9259	2.1	101	0.00
63 P	cis-1,3-Dichloropropene	50.0000	53.5711	-7.1	101	0.00
64 P	4-Methyl-2-pentanone	50.0000	49.2806	1.4	101	0.00
65 s	SURR3,Toluene-d8	50.0000	55.7781	-11.6	110	0.00
66 P	Toluene	50.0000	51.2793	-2.6	101	0.00
67 P	trans-1,3-Dichloropropene	50.0000	52.9664	-5.9	97	0.00
68	Ethyl Methacrylate	50.0000	55.7513	-11.5	104	0.00
69 P	1,1,2-Trichloroethane	50.0000	47.8715	4.3	100	0.00
70 s	SURR2,BFB	50.0000	55.3043	-10.6	112	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	100	0.00
72 P	Tetrachloroethene	50.0000	47.9194	4.2	100	0.00
73 P	2-Hexanone	50.0000	50.2109	-0.4	98	0.00
74	1,3-Dichloropropene	50.0000	53.3311	-6.7	103	0.00
75 P	Dibromochloromethane	50.0000	52.4527	-4.9	98	0.00
76	N-Butyl Acetate	50.0000	52.0413	-4.1	97	0.00
77 P	1,2-Dibromoethane	50.0000	50.8180	-1.6	100	0.00
78 P	Chlorobenzene	50.0000	51.6175	-3.2	104	0.00
79	3-CBTF	50.0000	49.6881	0.6	110	0.00
80	4-CBTF	50.0000	47.2932	5.4	108	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	52.5815	-5.2	98	0.00
82 P	Ethylbenzene	50.0000	50.6169	-1.2	101	0.00
83 P	(m+p)Xylene	100.0000	105.5595	-5.6	101	0.00
84 P	o-Xylene	50.0000	51.6502	-3.3	99	0.00
85 P	Styrene	50.0000	52.3547	-4.7	98	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	99	0.00
87 P	Bromoform	50.0000	51.2641	-2.5	94	0.00
88	2-CBTF	50.0000	49.3184	1.4	108	0.00
89 P	Isopropylbenzene	50.0000	53.4336	-6.9	100	0.00
90	Cyclohexanone	1000.0000	607.1395	39.3#	54	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	50.3789	-0.8	96	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	51.4517	-2.9	95	0.00
93	Bromobenzene	50.0000	51.1216	-2.2	102	0.00
94	1,2,3-Trichloropropene	50.0000	48.5202	3.0	93	0.00
95	n-Propylbenzene	50.0000	55.1978	-10.4	101	0.00
96	2-Chlorotoluene	50.0000	52.6982	-5.4	99	0.00
97	3-Chlorotoluene	50.0000	52.8918	-5.8	108	0.00
98	4-Chlorotoluene	50.0000	53.4352	-6.9	101	0.00
99	1,3,5-Trimethylbenzene	50.0000	54.7022	-9.4	99	0.00
100	tert-Butylbenzene	50.0000	52.2921	-4.6	99	0.00
101	1,2,4-Trimethylbenzene	50.0000	55.3066	-10.6	102	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\092221\
 Data File : K6974.D
 Acq On : 22 Sep 2021 10:21 am
 Operator : K.Ruest
 Sample : CCV Inst : MSVOA-12
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 22 10:38:12 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	3,4-DCBTF	50.0000	47.4988	5.0	108	0.00
103	sec-Butylbenzene	50.0000	54.1140	-8.2	100	0.00
104	p-Isopropyltoluene	50.0000	54.3002	-8.6	101	0.00
105 P	1,3-Dclbenz	50.0000	51.2530	-2.5	99	0.00
106 P	1,4-Dclbenz	50.0000	49.8317	0.3	100	0.00
107	2,4-DCBTF	50.0000	49.0052	2.0	110	0.00
108	2,5-DCBTF	50.0000	51.4038	-2.8	111	0.00
109	n-Butylbenzene	50.0000	56.5791	-13.2	102	0.00
110 P	1,2-Dclbenz	50.0000	51.5156	-3.0	100	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	51.9434	-3.9	93	0.00
112	Trielution Dichlorotoluene	150.0000	159.7793	-6.5	112	0.00
113	1,3,5 Trichlorobenzene	50.0000	52.2975	-4.6	114	0.00
114	Coelution Dichlorotoluene	100.0000	108.9785	-9.0	111	0.00
115 P	1,2,4-Tcbenzene	50.0000	52.5979	-5.2	100	0.00
116	Hexachlorobt	50.0000	48.8984	2.2	98	0.00
117	Naphthalen	50.0000	55.7061	-11.4	97	0.00
118	1,2,3-Tclbenzene	50.0000	51.4950	-3.0	97	0.00
119	2,4,5-Trichlorotolene	50.0000	55.7339	-11.5	113	0.00
120	2,3,6-Trichlorotoluene	50.0000	53.3359	-6.7	111	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6974.D
 Acq On : 22 Sep 2021 10:21 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 10:38:12 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.450	168	345827	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	585323	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	526667	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	260225	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.322	113	174564	54.78	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery	=	109.56%		
48) surr1,1,2-dichloroetha...	5.853	65	241359	52.09	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	104.18%		
65) SURR3,Toluene-d8	8.316	98	835421	55.78	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	111.56%		
70) SURR2,BFB	10.870	95	328806	55.30	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	110.60%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.201	85	268326	57.49	ppb		99
3) Chloromethane	1.329	50	230835	57.47	ppb		100
4) Vinyl Chloride	1.408	62	245697	52.52	ppb		99
5) Bromomethane	1.634	94	160117	52.46	ppb		89
6) Chloroethane	1.713	64	158952	51.76	ppb		100
7) Freon 21	1.866	67	378285	50.66	ppb		100
8) Trichlorofluoromethane	1.908	101	291005	49.06	ppb		97
9) Diethyl Ether	2.146	59	206092	56.27	ppb		94
10) Freon 123a	2.152	67	224143	50.54	ppb		91
11) Freon 123	2.207	83	255904	52.88	ppb		98
12) Acrolein	2.262	56	217937	223.43	ppb		90
13) 1,1-Diclcethene	2.335	96	181936	54.09	ppb	#	82
14) Freon 113	2.335	101	177920	54.16	ppb		90
15) Acetone	2.402	43	90555	45.48	ppb		90
16) 2-Propanol	2.536	45	430923	959.89	ppb		96
17) Iodomethane	2.475	142	211647	52.50	ppb		98
18) Carbon Disulfide	2.524	76	444716	54.65	ppb		97
19) Acetonitrile	2.670	40	89452m	298.49	ppb		
20) Allyl Chloride	2.676	76	109725	53.17	ppb	#	92
21) Methyl Acetate	2.707	43	222140	50.38	ppb		98
22) Methylene Chloride	2.798	84	202621	50.51	ppb		95
23) TBA	2.945	59	715417	916.56	ppb		97
24) Acrylonitrile	3.079	53	587796	265.38	ppb		95
25) Methyl-t-Butyl Ether	3.091	73	748007	55.33	ppb		98
26) trans-1,2-Dichloroethene	3.085	96	192834	52.40	ppb		94
28) 1,1-Diclcethane	3.597	63	371269	53.64	ppb		98
29) Vinyl Acetate	3.688	86	49463	50.28	ppb	#	81
30) DIPE	3.701	45	652930	52.79	ppb		100
31) 2-Chloro-1,3-Butadiene	3.713	53	318745	53.89	ppb		93
32) ETBE	4.231	59	668987	53.47	ppb		97
33) 2,2-Dichloropropane	4.432	77	294263	51.00	ppb		95
34) cis-1,2-Dichloroethene	4.444	96	221038	52.15	ppb		89
35) 2-Butanone	4.524	43	140720	47.11	ppb		99
36) Propionitrile	4.633	54	242549	250.30	ppb		99
37) Bromochloromethane	4.853	130	122921	50.80	ppb		91
38) Methacrylonitrile	4.889	67	119917	50.93	ppb		92
39) Tetrahydrofuran	4.950	42	89597	44.96	ppb		95
40) Chloroform	5.036	83	345749	51.37	ppb		95
41) 1,1,1-Trichloroethane	5.304	97	277520	50.12	ppb		99

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6974.D
 Acq On : 22 Sep 2021 10:21 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 22 10:38:12 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	656268	54.05	ppb	99
44) Cyclohexane	5.365	41	184527	47.64	ppb	98
46) Carbontetrachloride	5.560	117	206826	45.88	ppb	94
47) 1,1-Dichloropropene	5.584	75	271856	51.03	ppb	97
49) Benzene	5.907	78	851443	51.31	ppb	99
50) 1,2-Dichloroethane	5.968	62	300826	48.25	ppb	98
51) Iso-Butyl Alcohol	5.956	43	305815	913.79	ppb	88
52) n-Heptane	6.353	43	272533	54.38	ppb	96
53) 1-Butanol	6.901	56	523026	2402.43	ppb	99
54) Trichloroethene	6.834	130	199187	48.35	ppb	94
55) Methylcyclohexane	7.054	55	285378	52.66	ppb	98
56) 1,2-Diclpropane	7.133	63	221331	51.42	ppb	91
57) Dibromomethane	7.279	93	128261	51.99	ppb	91
58) 1,4-Dioxane	7.340	88	86263	914.58	ppb	77
59) Methyl Methacrylate	7.352	69	196176	49.66	ppb	98
60) Bromodichloromethane	7.499	83	253014	48.57	ppb	97
62) 2-Chloroethylvinyl Ether	7.901	63	137150	48.93	ppb	97
63) cis-1,3-Dichloropropene	8.035	75	336905	53.57	ppb	99
64) 4-Methyl-2-pentanone	8.242	43	282708	49.28	ppb	98
66) Toluene	8.389	91	911441	51.28	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	308850	52.97	ppb	96
68) Ethyl Methacrylate	8.797	69	358723	55.75	ppb	100
69) 1,1,2-Trichloroethane	8.858	97	190061	47.87	ppb	96
72) Tetrachloroethene	8.968	164	145449	47.92	ppb	95
73) 2-Hexanone	9.145	43	208242	50.21	ppb	96
74) 1,3-Dichloropropene	9.029	76	374374	53.33	ppb	98
75) Dibromochloromethane	9.248	129	167484	52.45	ppb	93
76) N-Butyl Acetate	9.291	43	412157	52.04	ppb	99
77) 1,2-Dibromoethane	9.346	107	197209	50.82	ppb	94
78) Chlorobenzene	9.827	112	578506	51.62	ppb	97
79) 3-CBTF	9.840	180	272385	49.69	ppb	98
80) 4-CBTF	9.895	180	240406	47.29	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.913	131	174802	52.58	ppb	92
82) Ethylbenzene	9.937	106	312600	50.62	ppb	93
83) (m+p)Xylene	10.053	106	787967	105.56	ppb	97
84) o-Xylene	10.407	106	380787	51.65	ppb	100
85) Styrene	10.425	104	645959	52.35	ppb	97
87) Bromoform	10.583	173	103625	51.26	ppb	100
88) 2-CBTF	10.657	180	262941	49.32	ppb	98
89) Isopropylbenzene	10.736	105	943130	53.43	ppb	100
90) Cyclohexanone	10.821	55	573096	607.14	ppb	99
91) trans-1,4-Dichloro-2-B...	11.059	53	77206	50.38	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.016	83	281663	51.45	ppb	99
93) Bromobenzene	10.992	156	232291	51.12	ppb	98
94) 1,2,3-Trichloropropane	11.041	110	91777	48.52	ppb	91
95) n-Propylbenzene	11.089	91	1215922	55.20	ppb	98
96) 2-Chlorotoluene	11.156	91	734838	52.70	ppb	99
97) 3-Chlorotoluene	11.211	91	737404	52.89	ppb	100
98) 4-Chlorotoluene	11.254	91	836792	53.44	ppb	95
99) 1,3,5-Trimethylbenzene	11.242	105	897283	54.70	ppb	99
100) tert-Butylbenzene	11.516	119	704894	52.29	ppb	99
101) 1,2,4-Trimethylbenzene	11.553	105	904879	55.31	ppb	95
102) 3,4-DCBTF	11.614	214	209048	47.50	ppb	99
103) sec-Butylbenzene	11.693	105	1047119	54.11	ppb	99
104) p-Isopropyltoluene	11.815	119	920711	54.30	ppb	100
105) 1,3-Dclbenz	11.784	146	455418	51.25	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6974.D
 Acq On : 22 Sep 2021 10:21 am
 Operator : K.Ruest
 Sample : CCV Inst : MSVOA-12
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

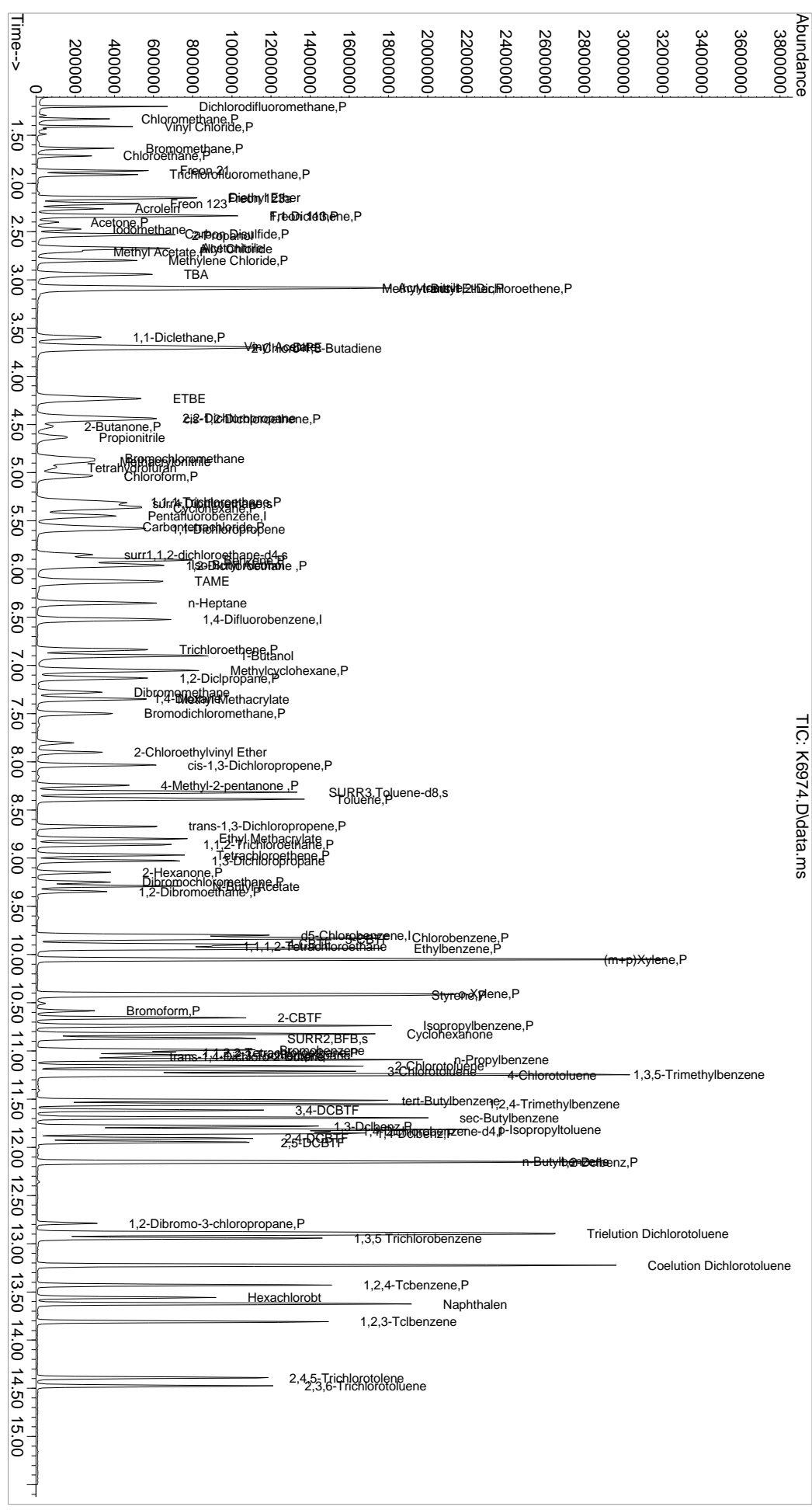
Quant Time: Sep 22 10:38:12 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.858	146	476668	49.83	ppb	96
107) 2,4-DCBTF	11.906	214	189610	49.01	ppb	98
108) 2,5-DCBTF	11.949	214	220660	51.40	ppb	96
109) n-Butylbenzene	12.144	91	886669	56.58	ppb	96
110) 1,2-Dclbenz	12.156	146	455837	51.52	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.790	157	61808	51.94	ppb	92
112) Trielution Dichlorotol...	12.894	125	1330800	159.78	ppb	97
113) 1,3,5 Trichlorobenzene	12.943	180	340891	52.30	ppb	96
114) Coelution Dichlorotoluene	13.223	125	983334	108.98	ppb	98
115) 1,2,4-Tcbenzene	13.430	180	335555	52.60	ppb	98
116) Hexachlorobt	13.558	225	122924	48.90	ppb	96
117) Naphthalen	13.625	128	1117082	55.71	ppb	99
118) 1,2,3-Tclbenzene	13.808	180	328955	51.50	ppb	98
119) 2,4,5-Trichlorotolene	14.394	159	250127	55.73	ppb	97
120) 2,3,6-Trichlorotoluene	14.473	159	222917	53.34	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

09/22/21
 Data Path : I:\ACQDATA\msvoa12\Data\092221\
 Data File : K6974.D
 Acq On : 22 Sep 2021 10:21 am
 Operator : K.Ruest
 Sample : CCV
 Inst : MSVOA-12
 PALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 22 10:38:12 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B MATERS 10ml Purge
 QIast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

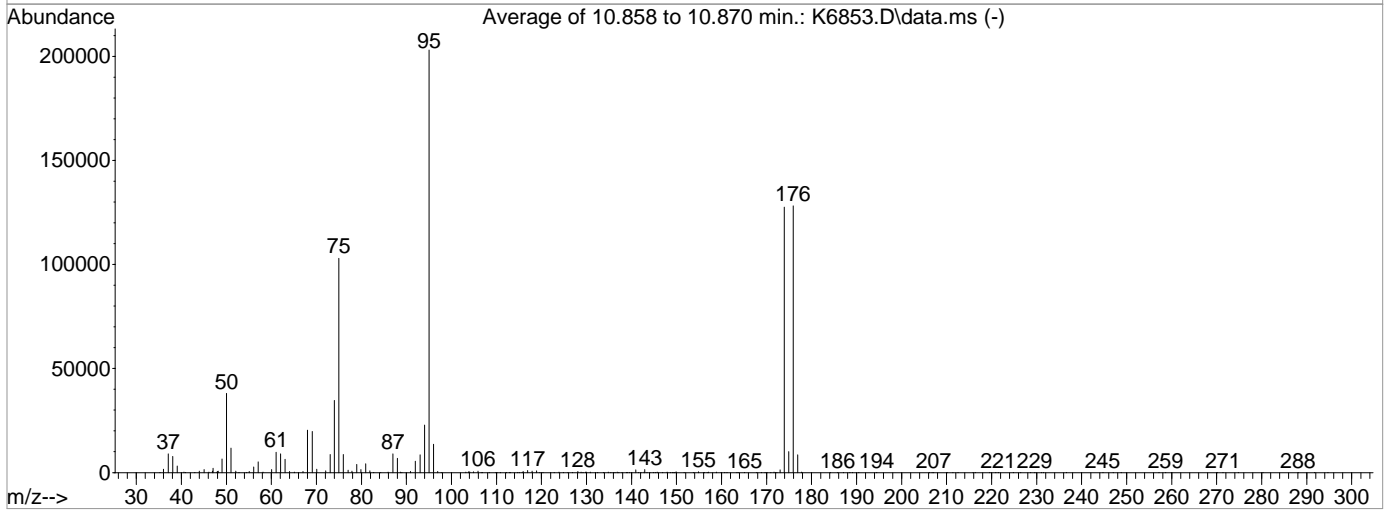
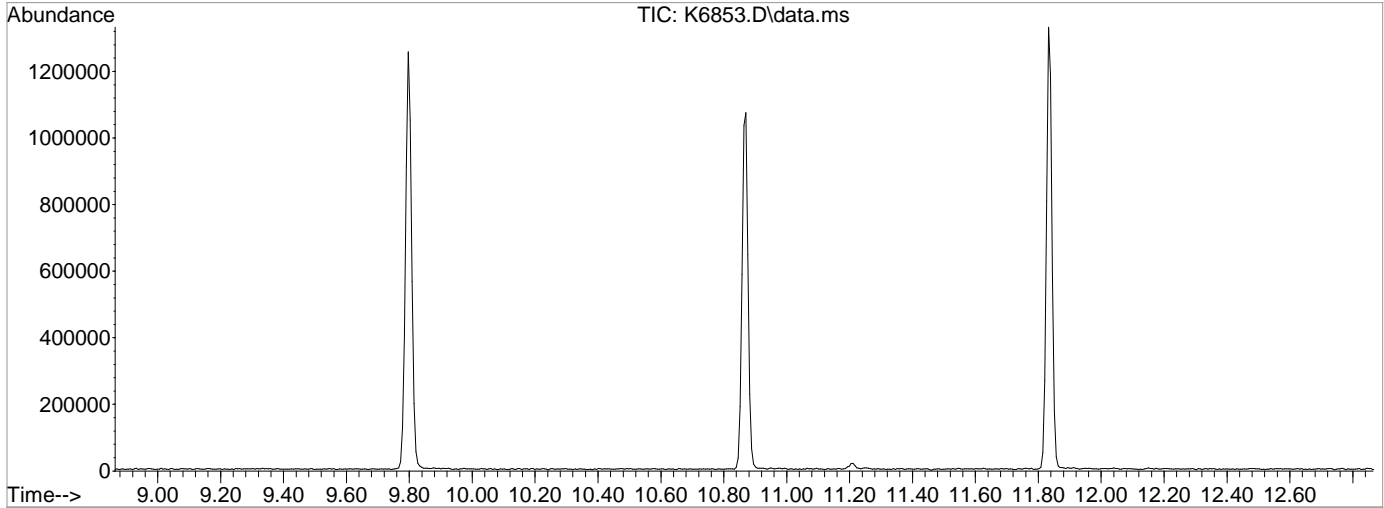


Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6853.D
Acq On : 20 Sep 2021 10:20 am
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Fri Sep 03 10:14:47 2021



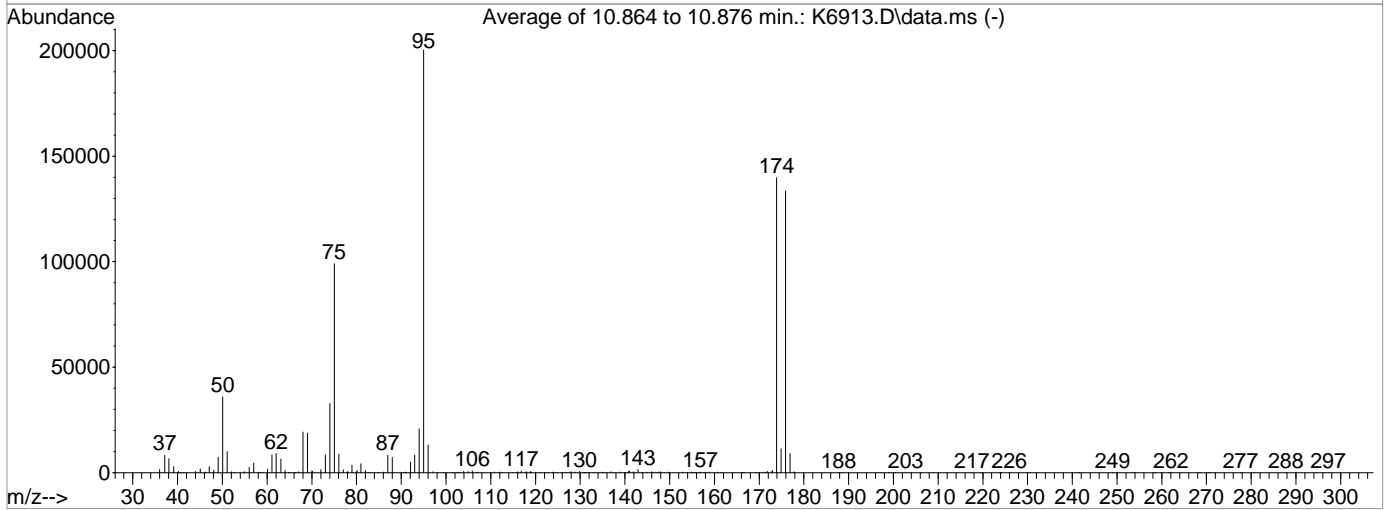
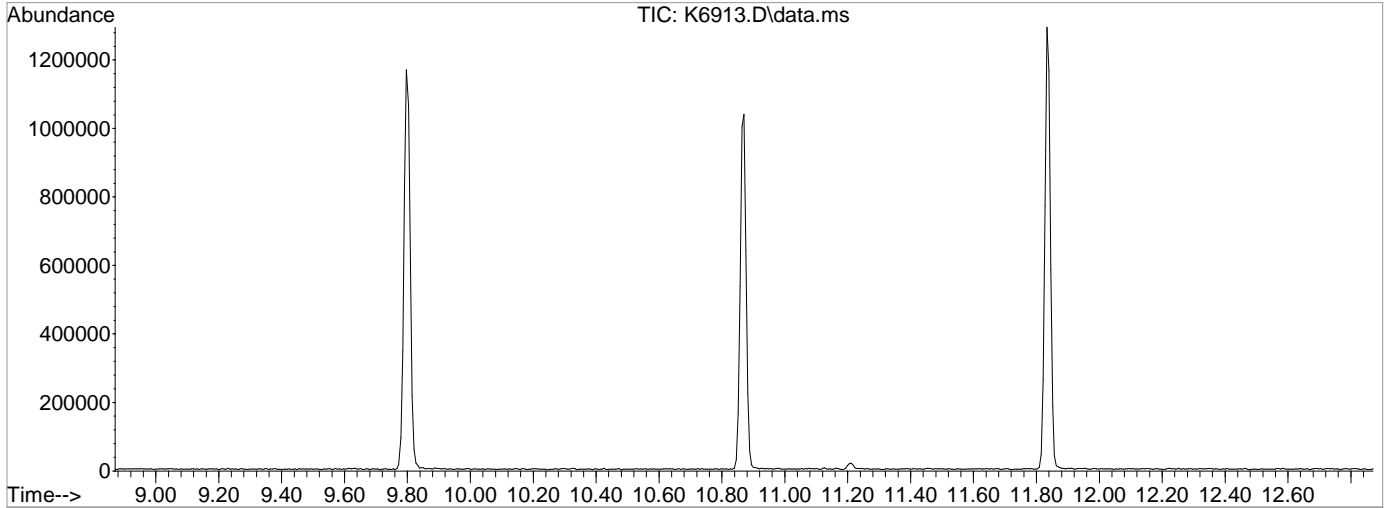
AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1594

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	37992	PASS
75	95	30	60	50.7	103000	PASS
95	95	100	100	100.0	203077	PASS
96	95	5	9	6.7	13641	PASS
173	174	0.00	2	1.0	1305	PASS
174	95	50	120	62.8	127453	PASS
175	174	5	9	7.9	10042	PASS
176	174	95	101	100.5	128085	PASS
177	176	5	9	6.7	8523	PASS

Data Path : I:\ACQUDATA\msvoa12\Data\092121\
 Data File : K6913.D
 Acq On : 21 Sep 2021 10:00 am
 Operator : K.Ruest
 Sample : TUNE
 Misc :
 ALS Vial : 2 Sample Multiplier: 1
 Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Fri Sep 03 10:14:47 2021



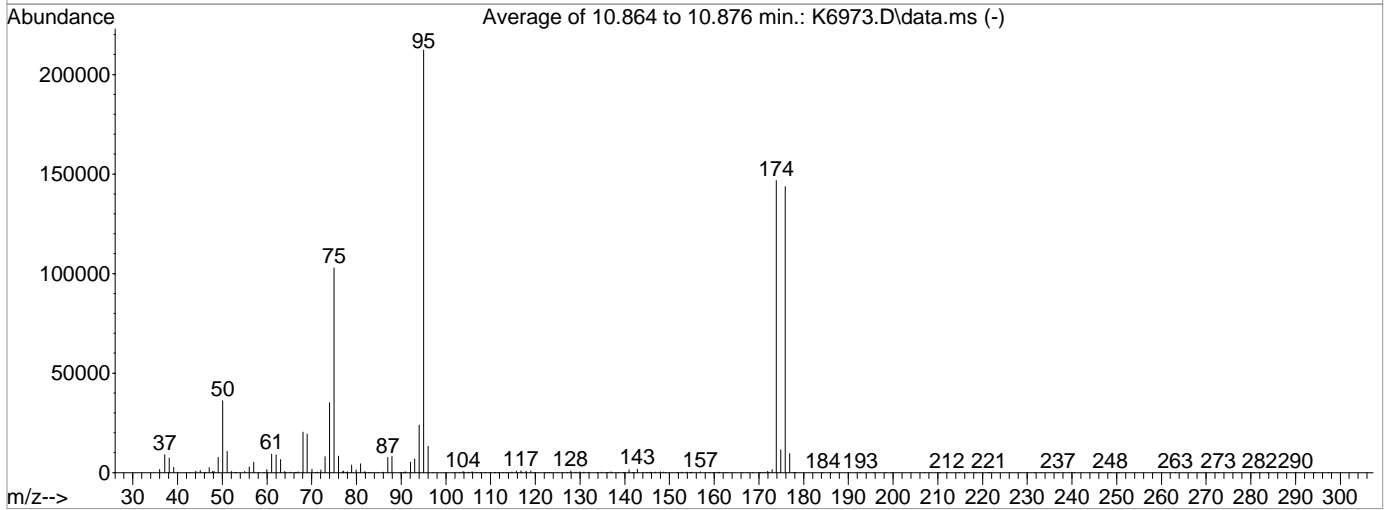
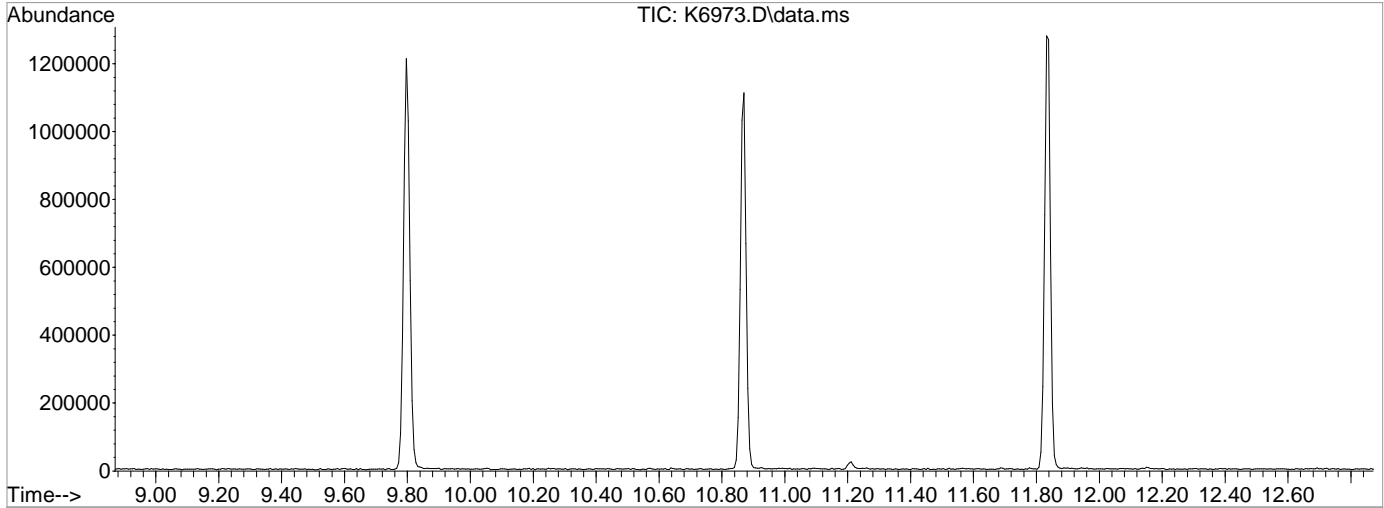
AutoFind: Scans 1602, 1603, 1604; Background Corrected with Scan 1595

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	35909	PASS
75	95	30	60	49.4	98979	PASS
95	95	100	100	100.0	200405	PASS
96	95	5	9	6.6	13177	PASS
173	174	0.00	2	0.7	1048	PASS
174	95	50	120	69.7	139739	PASS
175	174	5	9	8.1	11360	PASS
176	174	95	101	95.6	133619	PASS
177	176	5	9	6.7	8962	PASS

Data Path : I:\ACQUDATA\msvoa12\Data\092221\
 Data File : K6973.D
 Acq On : 22 Sep 2021 9:43 am
 Operator : K.Ruest
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1
 Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Fri Sep 03 10:14:47 2021



AutoFind: Scans 1602, 1603, 1604; Background Corrected with Scan 1593

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	36112	PASS
75	95	30	60	48.4	102787	PASS
95	95	100	100	100.0	212373	PASS
96	95	5	9	6.2	13195	PASS
173	174	0.00	2	1.0	1459	PASS
174	95	50	120	69.0	146632	PASS
175	174	5	9	7.8	11458	PASS
176	174	95	101	97.9	143608	PASS
177	176	5	9	6.7	9561	PASS

ALS Group USA, Corp.

DBA ALS Environmental

QC/QC Report

Date Analyzed: 9/2/21 12:07

**ICAL Tune Summary
Volatile Organic Compounds by GC/MS**

File ID: I:\ACQUADATA\msvoa12\Data\090221\K6356.D

Analytical Method: 8260C/624.1

Instrument ID: R-MS-12

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	18.9	34549	PASS
75	95	30	60	50.9	93243	PASS
95	95	100	100	100.0	183147	PASS
96	95	5	9	6.6	12166	PASS
173	174	0	2	1.2	1539	PASS
174	95	50	120	70.7	129480	PASS
175	174	5	9	8.6	11139	PASS
176	174	95	101	99.9	129336	PASS
177	176	5	9	6.2	8072	PASS

Sample Name	Lab Code	File ID:	Date Analyzes: Q
1.0ppb	1.0ppb	I:\ACQUADATA\msvoa12\Data\090221\K6357.D	9/2/21 12:29
2.0ppb	2.0ppb	I:\ACQUADATA\msvoa12\Data\090221\K6358.D	9/2/21 12:51
5.0ppb	5.0ppb	I:\ACQUADATA\msvoa12\Data\090221\K6359.D	9/2/21 13:13
20ppb	20ppb	I:\ACQUADATA\msvoa12\Data\090221\K6360.D	9/2/21 13:35
50ppb	50ppb	I:\ACQUADATA\msvoa12\Data\090221\K6361.D	9/2/21 13:57
100ppb	100ppb	I:\ACQUADATA\msvoa12\Data\090221\K6362.D	9/2/21 14:18
150ppb	150ppb	I:\ACQUADATA\msvoa12\Data\090221\K6363.D	9/2/21 14:40
200ppb	200ppb	I:\ACQUADATA\msvoa12\Data\090221\K6364.D	9/2/21 15:02
ICV-50	ICV-50	I:\ACQUADATA\msvoa12\Data\090221\K6368.D	9/2/21 16:40

Analysis: SD00+02412021 Analyst: Y. West pH strips: N/A Tune Method: W090221
 Date: 9/2/21 Balance ID: N/A ResCl strips: N/A Run Method: ↓
 Instr: 12 50 ml Class A used for dilution FV Syringes: 217091 + 202106 LIMS Run#: 1CAL

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							U0353		
2	TRV							U0354		
1	18 BLK	(SD00)	(SD00) SD					U0355	Y	(cont'd) 11:13
2	0.5 ppm	5ul						U0356	Y	
3	1.0	10ul						U0357	Y	
4	2.0	20ul						U0358	Y	
5	5.0	50ul						U0359	Y	
6	20							U0360	Y	
7	SD							U0361	Y	
8	100							U0362	Y	
9	150							U0363	Y	
10	200							U0364	Y	
11	BLK							U0365	-	
12								U0366	-	
13								U0367	-	
1	1CV-SD							U0368	Y	
2	BLK							U0369	-	

END
 YR 9/3/21

SD0
 Primary Oct: 218147
 Primary R+: 219026
 Primary T6: 218576
 Primary HSL: 218923

All samples = 5 ml + 5 ul combined IS/Sur. 5 ml purged

200 Secondary R+: 218150
 SD Secondary Oct: 218948
 Secondary HSL: 218705

Combined IS/Sur: Surrogate SD: 219023
 Internal Std: 219024
 Reagents: = 1CV

10ul → 1.0ml MeOH = 5 ppm

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2109484
Calibration Date: 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2100117-01	0.5ppb	I:\ACQUADATA\msvoa12\Data\090221\K6356.D	09/02/2021 12:07
02	RC2100117-02	1.0ppb	I:\ACQUADATA\msvoa12\Data\090221\K6357.D	09/02/2021 12:29
03	RC2100117-03	2.0ppb	I:\ACQUADATA\msvoa12\Data\090221\K6358.D	09/02/2021 12:51
04	RC2100117-04	5.0ppb	I:\ACQUADATA\msvoa12\Data\090221\K6359.D	09/02/2021 13:13
05	RC2100117-05	20ppb	I:\ACQUADATA\msvoa12\Data\090221\K6360.D	09/02/2021 13:35
06	RC2100117-06	50ppb	I:\ACQUADATA\msvoa12\Data\090221\K6361.D	09/02/2021 13:57
07	RC2100117-07	100ppb	I:\ACQUADATA\msvoa12\Data\090221\K6362.D	09/02/2021 14:18
08	RC2100117-08	150ppb	I:\ACQUADATA\msvoa12\Data\090221\K6363.D	09/02/2021 14:40
09	RC2100117-09	200ppb	I:\ACQUADATA\msvoa12\Data\090221\K6364.D	09/02/2021 15:02

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8585	02	1.000	0.8017	03	2.000	0.8029	04	5.000	0.8101
05	20.000	0.7424	06	50.000	0.8241	07	100.000	0.7763	08	150.000	0.8016
09	200.000	0.7877									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.128	02	1.000	0.9369	03	2.000	0.935	04	5.000	1.054
05	20.000	0.9801	06	50.000	1.034	07	100.000	0.9778	08	150.000	0.9915
09	200.000	0.9683									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5512	02	1.000	0.448	03	2.000	0.4884	04	5.000	0.5264
05	20.000	0.46	06	50.000	0.4824	07	100.000	0.4687	08	150.000	0.4779
09	200.000	0.4735									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5456	05	20.000	0.4792	06	50.000	0.497	07	100.000	0.5099
08	200.000	0.5076									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.2814	05	20.000	0.2613	06	50.000	0.2697	07	100.000	0.2769
08	200.000	0.2716									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3361	02	1.000	0.3286	03	2.000	0.3224	04	5.000	0.2847
05	20.000	0.262	06	50.000	0.2781	07	100.000	0.2598	08	150.000	0.2624
09	200.000	0.2594									

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2109484
Calibration Date: 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

Analyte

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.394	05	20.000	1.184	06	50.000	1.287	07	100.000	1.289
08	200.000	1.243									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3717	02	1.000	0.4206	03	2.000	0.3682	04	5.000	0.381
05	20.000	0.3263	06	50.000	0.3391	07	100.000	0.3171	08	150.000	0.3294
09	200.000	0.3136									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7912	02	1.000	0.6684	03	2.000	0.6636	04	5.000	0.7104
05	20.000	0.6316	06	50.000	0.686	07	100.000	0.6456	08	150.000	0.6517
09	200.000	0.6386									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7145	02	1.000	0.6919	03	2.000	0.6405	04	5.000	0.5991
05	20.000	0.5433	06	50.000	0.5917	07	100.000	0.5729	08	150.000	0.5864
09	200.000	0.575									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6083	02	1.000	0.5661	03	2.000	0.5046	04	5.000	0.5603
05	20.000	0.4835	06	50.000	0.526	07	100.000	0.5091	08	150.000	0.522
09	200.000	0.5082									

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2109484
Calibration Date: 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	4.0	20	0.8006	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	6.2	20	1.001	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	6.7	20	0.4863	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	4.8	20	0.5079	
Dibromofluoromethane	SURR	Average RF	% RSD	2.8	20	0.2722	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	11.1	20	0.2882	0.200
Toluene-d8	SURR	Average RF	% RSD	6.0	20	1.279	
Trichloroethene (TCE)	TRG	Average RF	% RSD	10.2	20	0.3519	0.200
Vinyl Chloride	TRG	Average RF	% RSD	7.3	20	0.6763	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	9.4	20	0.6128	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	7.3	20	0.532	0.100

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2109484
Calibration Date: 9/2/2021

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2100117-10	ICV-50	I:\ACQUDATA\msvoa12\Data\090221\K6368.D	09/02/2021 16:40

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	49.9	8.006E-1	7.992E-1	-0.174	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.1	1.001E0	9.833E-1	-1.732	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	47.8	4.863E-1	4.654E-1	-4.304	±30	Average RF
Tetrachloroethene (PCE)	50.0	46.6	2.882E-1	2.685E-1	-6.836	±30	Average RF
Trichloroethene (TCE)	50.0	45.2	3.519E-1	3.179E-1	-9.658	±30	Average RF
Vinyl Chloride	50.0	51.9	6.763E-1	7.015E-1	3.72	±30	Average RF
cis-1,2-Dichloroethene	50.0	48.3	6.128E-1	5.925E-1	-3.315	±30	Average RF
trans-1,2-Dichloroethene	50.0	48.2	5.32E-1	5.133E-1	-3.513	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.4	5.079E-1	5.119E-1	0.786	±30	Average RF
Dibromofluoromethane	50.0	53.2	2.722E-1	2.896E-1	6.39	±30	Average RF
Toluene-d8	50.0	51.3	1.279E0	1.313E0	2.66	±30	Average RF

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484
Date Analyzed: 09/20/21 10:49

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa12\Data\092021\K6854.D\
Signal ID: 1

Calibration Date: 9/2/2021
Calibration ID: RC2100117
Analysis Lot: 739267
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	53.6	0.8006	0.859	7.3	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	56.4	1.0007	1.1283	12.8	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	56.3	0.4863	0.5476	12.6	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	52.1	0.2882	0.3004	4.3	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.1	0.3519	0.3594	2.1	NA	±20	Average RF
Vinyl Chloride	50.0	56.1	0.6763	0.7585	12.1	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	53.8	0.6128	0.6592	7.6	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	55.2	0.532	0.5872	10.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	53.5	0.5079	0.5435	7.0	NA	±20	Average RF
Dibromofluoromethane	50.0	53.4	0.2722	0.2906	6.7	NA	±20	Average RF
Toluene-d8	50.0	55.1	1.2794	1.4101	10.2	NA	±20	Average RF

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484
Date Analyzed: 09/21/21 10:38

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa12\Data\092121\K6914.D\
Signal ID: 1

Calibration Date: 9/2/2021
Calibration ID: RC2100117
Analysis Lot: 739434
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	49.4	0.8006	0.7917	-1.1	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	52.6	1.0007	1.0527	5.2	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	51.1	0.4863	0.4968	2.2	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	46.1	0.2882	0.2657	-7.8	NA	±20	Average RF
Trichloroethene (TCE)	50.0	47.9	0.3519	0.3369	-4.3	NA	±20	Average RF
Vinyl Chloride	50.0	51.9	0.6763	0.7024	3.9	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	50.9	0.6128	0.6234	1.7	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	51.4	0.532	0.5471	2.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	54.0	0.5079	0.5482	7.9	NA	±20	Average RF
Dibromofluoromethane	50.0	54.7	0.2722	0.2978	9.4	NA	±20	Average RF
Toluene-d8	50.0	55.2	1.2794	1.4134	10.5	NA	±20	Average RF

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484
Date Analyzed: 09/22/21 10:21

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa12\Data\092221\K6974.D\
Signal ID: 1

Calibration Date: 9/2/2021
Calibration ID: RC2100117
Analysis Lot: 739610
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	50.1	0.8006	0.8025	0.2	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	53.6	1.0007	1.0736	7.3	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	54.1	0.4863	0.5261	8.2	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	47.9	0.2882	0.2762	-4.2	NA	±20	Average RF
Trichloroethene (TCE)	50.0	48.4	0.3519	0.3403	-3.3	NA	±20	Average RF
Vinyl Chloride	50.0	52.5	0.6763	0.7105	5.0	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	52.2	0.6128	0.6392	4.3	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	52.4	0.532	0.5576	4.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	55.3	0.5079	0.5618	10.6	NA	±20	Average RF
Dibromofluoromethane	50.0	54.8	0.2722	0.2982	9.6	NA	±20	Average RF
Toluene-d8	50.0	55.8	1.2794	1.4273	11.6	NA	±20	Average RF

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:739267
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\092021\K6853.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	10:20:00	
I:\ACQUDATA\msvoa12\Data\092021\K6854.D\	Continuing Calibration Verification	RQ2111589-02	9/20/2021	10:49:00	
I:\ACQUDATA\msvoa12\Data\092021\K6855.D\	Lab Control Sample	RQ2111589-03	9/20/2021	11:15:00	
I:\ACQUDATA\msvoa12\Data\092021\K6856.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	11:36:00	
I:\ACQUDATA\msvoa12\Data\092021\K6858.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	12:28:00	
I:\ACQUDATA\msvoa12\Data\092021\K6859.D\	Method Blank	RQ2111589-06	9/20/2021	12:50:00	
I:\ACQUDATA\msvoa12\Data\092021\K6860.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	13:12:00	
I:\ACQUDATA\msvoa12\Data\092021\K6861.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	13:34:00	
I:\ACQUDATA\msvoa12\Data\092021\K6862.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	13:56:00	
I:\ACQUDATA\msvoa12\Data\092021\K6863.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	14:17:00	
I:\ACQUDATA\msvoa12\Data\092021\K6864.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	14:39:00	
I:\ACQUDATA\msvoa12\Data\092021\K6866.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	15:22:00	
I:\ACQUDATA\msvoa12\Data\092021\K6867.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	15:44:00	
I:\ACQUDATA\msvoa12\Data\092021\K6868.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	16:06:00	
I:\ACQUDATA\msvoa12\Data\092021\K6869.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	16:28:00	
I:\ACQUDATA\msvoa12\Data\092021\K6870.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	16:49:00	
I:\ACQUDATA\msvoa12\Data\092021\K6874.D\	MW-17-091421	R2109484-009	9/20/2021	18:16:00	
I:\ACQUDATA\msvoa12\Data\092021\K6875.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	18:38:00	
I:\ACQUDATA\msvoa12\Data\092021\K6876.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	18:59:00	
I:\ACQUDATA\msvoa12\Data\092021\K6877.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	19:21:00	
I:\ACQUDATA\msvoa12\Data\092021\K6878.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	19:43:00	
I:\ACQUDATA\msvoa12\Data\092021\K6879.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	20:04:00	
I:\ACQUDATA\msvoa12\Data\092021\K6880.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	20:26:00	

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:739267
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\092021\K6881.D\	MW-17-091421 MS	RQ2111589-07	9/20/2021	20:48:00	
I:\ACQUDATA\msvoa12\Data\092021\K6882.D\	MW-17-091421 DMS	RQ2111589-08	9/20/2021	21:10:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:739434
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUADATA\msvoa12\Data\092121\K6913.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	10:00:00	
I:\ACQUADATA\msvoa12\Data\092121\K6914.D\	Continuing Calibration Verification	RQ2111654-02	9/21/2021	10:38:00	
I:\ACQUADATA\msvoa12\Data\092121\K6915.D\	Lab Control Sample	RQ2111654-03	9/21/2021	11:16:00	
I:\ACQUADATA\msvoa12\Data\092121\K6918.D\	Method Blank	RQ2111654-04	9/21/2021	12:34:00	
I:\ACQUADATA\msvoa12\Data\092121\K6919.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	12:56:00	
I:\ACQUADATA\msvoa12\Data\092121\K6920.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	13:18:00	
I:\ACQUADATA\msvoa12\Data\092121\K6921.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	13:39:00	
I:\ACQUADATA\msvoa12\Data\092121\K6922.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	14:01:00	
I:\ACQUADATA\msvoa12\Data\092121\K6923.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	14:23:00	
I:\ACQUADATA\msvoa12\Data\092121\K6924.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	14:45:00	
I:\ACQUADATA\msvoa12\Data\092121\K6925.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	15:06:00	
I:\ACQUADATA\msvoa12\Data\092121\K6926.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	15:28:00	
I:\ACQUADATA\msvoa12\Data\092121\K6928.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	16:12:00	
I:\ACQUADATA\msvoa12\Data\092121\K6929.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	16:33:00	
I:\ACQUADATA\msvoa12\Data\092121\K6930.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	16:55:00	
I:\ACQUADATA\msvoa12\Data\092121\K6931.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	17:17:00	
I:\ACQUADATA\msvoa12\Data\092121\K6932.D\	Trip Blank-091421	R2109484-003	9/21/2021	17:39:00	
I:\ACQUADATA\msvoa12\Data\092121\K6933.D\	FB-091421	R2109484-006	9/21/2021	18:00:00	
I:\ACQUADATA\msvoa12\Data\092121\K6934.D\	DMW-3-091421	R2109484-001	9/21/2021	18:22:00	
I:\ACQUADATA\msvoa12\Data\092121\K6935.D\	TMP-A-091421	R2109484-002	9/21/2021	18:44:00	
I:\ACQUADATA\msvoa12\Data\092121\K6936.D\	MW-13-091421	R2109484-005	9/21/2021	19:06:00	
I:\ACQUADATA\msvoa12\Data\092121\K6937.D\	MW-10-091421	R2109484-007	9/21/2021	19:28:00	
I:\ACQUADATA\msvoa12\Data\092121\K6938.D\	MW-9-091421	R2109484-008	9/21/2021	19:49:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:739434
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\092121\K6939.D\	MW-8-091421	R2109484-010	9/21/2021	20:11:00	
I:\ACQUDATA\msvoa12\Data\092121\K6940.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	20:33:00	
I:\ACQUDATA\msvoa12\Data\092121\K6941.D\	ZZZZZZZ	ZZZZZZZ	9/21/2021	20:55:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:739610
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUADATA\msvoa12\Data\092221\K6973.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	09:43:00	
I:\ACQUADATA\msvoa12\Data\092221\K6974.D\	Continuing Calibration Verification	RQ2111750-02	9/22/2021	10:21:00	
I:\ACQUADATA\msvoa12\Data\092221\K6975.D\	Lab Control Sample	RQ2111750-03	9/22/2021	10:50:00	
I:\ACQUADATA\msvoa12\Data\092221\K6979.D\	Method Blank	RQ2111750-04	9/22/2021	12:27:00	
I:\ACQUADATA\msvoa12\Data\092221\K6980.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	12:49:00	
I:\ACQUADATA\msvoa12\Data\092221\K6981.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	13:11:00	
I:\ACQUADATA\msvoa12\Data\092221\K6982.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	13:33:00	
I:\ACQUADATA\msvoa12\Data\092221\K6983.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	13:55:00	
I:\ACQUADATA\msvoa12\Data\092221\K6984.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	14:17:00	
I:\ACQUADATA\msvoa12\Data\092221\K6985.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	14:38:00	
I:\ACQUADATA\msvoa12\Data\092221\K6986.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	15:00:00	
I:\ACQUADATA\msvoa12\Data\092221\K6987.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	15:22:00	
I:\ACQUADATA\msvoa12\Data\092221\K6988.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	15:44:00	
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I:\ACQUADATA\msvoa12\Data\092221\K6991.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	16:49:00	
I:\ACQUADATA\msvoa12\Data\092221\K6992.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	17:11:00	
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I:\ACQUADATA\msvoa12\Data\092221\K6995.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	18:16:00	
I:\ACQUADATA\msvoa12\Data\092221\K6996.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	18:37:00	
I:\ACQUADATA\msvoa12\Data\092221\K6997.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	18:59:00	
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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:739610
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\092221\K6999.D\	MW-8-091421	R2109484-010	9/22/2021	19:43:00	
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I:\ACQUDATA\msvoa12\Data\092221\K7001.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	20:26:00	
I:\ACQUDATA\msvoa12\Data\092221\K7002.D\	ZZZZZZZ	ZZZZZZZ	9/22/2021	20:48:00	

Analysis: 8200 detectors Analyst: Y. West pH strips: 205521 Tune Method: 10099 1009221
 Date: 9/21/21 Balance ID: 01A ResCl strips: N/A Run Method: 339867 (100)
 Instr: 12 50 mL Class A used for dilution FV Syringes: 217091 LIMS Run#: 739444
 Data Path: jacquedatetmsvoa1\InstID\Date

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	RL							KA12		
2	TVE		P0211654.01					KA913	Y	(cont'd) 10:00
1	CCV		02					KA914	YC	
1	LCS.FP		03					KA915	YD	
1	RL							KA916	(C)	AD-40
2	MPLK.wmp							KA917	YS	
2	MPLK.FP		04					KA918	YB	
4	P2109572.007	1.0		(L) 6056	4	1	22	KA919	Y	
5		008	1.0		1	1	22	KA920	Y	
6		009	1.0		1	1	22	KA921	Y	
7		010	1.0		1	1	22	KA922	Y	
8		011	1.0		1	1	22	KA923	Y	
9	P2109990.015	1.0		P138	4	2	22	KA924	Y	
10		014	2.5		2	2	22	KA925	(C)	(C) CR+100R
11	P2109991.004	2.5			1	2	22	KA926	(C)	(C) CR
12	RL							KA927		
13	P2109585.004	1.0			2	1	22	KA928	Y	
14		001	1.0		1	1	22	KA929	Y	
15		002	1.0		1	1	22	KA930	Y	
16		003	1.0		1	1	22	KA931	Y	
17	P2109484.008	1.0		6046	4	1	22	KA932	Y	
18		006	1.0		1	1	22	KA933	Y	
19		001	1.0		1	1	22	KA934	Y	
20		002	1.0		1	1	22	KA935	Y	
21		005	1.0		1	1	22	KA936	Y	
22		007	1.0		1	1	22	KA937	Y	
23		008	1.0		1	1	22	KA938	Y	
24		010	2.5		1	1	22	KA939	(C)	MDT 5.0 (G5120CE + TCE)
25	P2109585.003	1.0			3	2	22	KA940	YD	PermOC
26		003	1.0		1	3	22	KA941	YD	
27	RL							KA942		

All samples = 5 mL + 5 uL combined IS/Sur. 5 mL purged

500 Primary OC: 218147
 Primary FT: 219026
 Primary TG: 219349
 Primary HK: 218923

500 Secondary OC: 218150
 Secondary FT: 219170
 Secondary TG: 218908
 Secondary HK:

10 uL
 500 Secondary OC: 218150
 Secondary FT: 219170
 Secondary TG: 218908
 Secondary HK:

Combined IS/Sur: 219023
 Surrogate SD: 219024
 Internal Std SD: 219024
 Reagents:

Analysis: 8260+024 water Analyst: K. Duest pH strips: 205521 Tune Method: W050231
 Date: 9/20/21 Balance ID: N/A ResCl strips: 102420 Run Method: ↓
 Instr: 12 50 mL Class A used for dilution FV Syringes: 2170911 LIMS Run#: 739267

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BVL							V0851		
2	↓							V0852		
3	TUNE		10211589.01					V0853	Y	(auto) 10:20
1	CCV							V0854	Y	
1	L15.FP							V0855	Y	
2	L15.vump							V0856	Y	
1	BVL							V0857	Y	
2	MRLV.vump							V0858	Y	
3	MRLV.FP							V0859	Y	
4	P2109517.003	1.0						V0860	Y	
5	↓	1.0						V0861	Y	
6	P2109509.005	1.0						V0862	Y	
7	↓	1.0						V0863	Y	
8	P2109594.001	1.0						V0864	Y	
9	P2109595.001	1.0						V0865	Y	
10	P21091092.002	1.0	50 (1/50mls)					V0866	Y	not 10
11	↓	1.0						V0867	Y	
12	↓	1.0						V0868	Y	
13	↓	1.0						V0869	Y	
14	P2109484.011	1.0						V0870	Y	
15	↓	1.0	5/50mls					V0871	Y	not 1.0
16	↓	1.0						V0872	Y	
17	BVL							V0873	Y	
18	↓	1.0	(N/D)					V0874	Y	
19	↓	1.0						V0875	Y	
20	↓	1.0						V0876	Y	
21	P2109334.018	3SD	1/2SDmls					V0877	Y	(N/D) mek
22	P2109575.001	10	5/50mls					V0878	Y	
23	P2109519.002	1.0						V0879	Y	
24	↓	1.0						V0880	Y	(Sediment) ↓
25	P2109444.009	1.0	ms					V0881	Y	
26	↓	1.0	msD					V0882	Y	

SPD
 Primary Out: 218147
 Primary Ft: 219026
 Primary T6: 218976
 Primary Hx: 218923

All samples = 5 mL + 5 mL combined IS/Surr.
 5 mL purged
 20D Secondary Out: 219105
 50D Secondary Out: 219170
 20D Secondary Hx: 218948

Combined IS/Surr
 Surrogate SD: 219023
 Internal Std SD: 219024
 Reagents:
 -10uul
 20D Secondary Out: 219105
 50D Secondary Out: 219170
 20D Secondary Hx: 218948
 = L15 / 4.2uul
 vial = ms/D

Analysis: 8300 meters Analyst: Y Buest pH strips: 205521 Tune Method: W090221
 Date: 9/20/21 Balance ID: N/A ResCl strips: N/A Run Method: ↓
 Instr: 12 50 mL Class A used for dilution FV Syringes: 217091 LIMS Run#: 739610

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	NVE		P2109175D.01					W0973	Y	(auto) 9:43
2	CCV		02					W0974	YC	
1	LCS.FP		03					W0975	Y0	
2	LCS.jmp							W0976	Y0	
1	BVK							W0977	Y0	
2	MULT.jmp							W0978	Y0	apt-10
3	MULT.FP		04					W0979	Y0	
4	P2109475.009	1.0		DDO	19519	4	1	W0980	Y	
5		1.0						W0981	Y	
6		1.0						W0982	Y	
7		1.0						W0983	Y	
8		1.0						W0984	Y	
9		1.0						W0985	Y	
10		1.0						W0986	Y	
11	P2109477.001	1.0			19526	4	1	W0987	Y	
12	P2109365.001	1.0			8043	4	1	W0988	Y	
13	P2109707.001	1.0	5750mLs		15014	2	1	W0989	Y	heavy
14		1.0						W0990	Y	
15		1.0						W0991	Y	
16		1.0						W0992	Y	
17		1.0						W0993	Y	
18		1.0						W0994	Y	
19		1.0						W0995	Y	
20		1.0						W0996	Y	
21		1.0						W0997	Y	
22		1.0						W0998	Y	
23	P2109451.010	5.0	10/50mLs		16416	4	2	W0999	Y	
24	P2109415.001	1.0		DDO	19519	4	2	W2000	Y0	
25		1.0						W2001	Y0	
26	CCV.B							W2002	YC	20:48
27	BVK							W2003	-	

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

SDD Primary/CCV: 218147
 Primary/Rt: 219026
 Primary/T6: 219349
 Primary/HxL: 218983

SDD Secondary/Rt: 219105
 Secondary/CCV: 218150
 Secondary/T6: 219170
 Secondary/HxL: 219368

Combined IS/Surr: 219023
 Surrogate SD: 219024
 Internal Std SD: 219024
 Reagents: 20:48
 name vial = ms/0

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 10:40
Date Received: 09/15/21 08:05

Sample Name: MW-11-091421
Lab Code: R2109484-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.71 J	1.0	0.20	1	09/20/21 18:38	
1,1-Dichloroethane (1,1-DCA)	0.46 J	1.0	0.20	1	09/20/21 18:38	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/20/21 18:38	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/20/21 18:38	
Trichloroethene (TCE)	0.21 J	1.0	0.20	1	09/20/21 18:38	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/20/21 18:38	
cis-1,2-Dichloroethene	0.32 J	1.0	0.23	1	09/20/21 18:38	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/20/21 18:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/20/21 18:38	
Dibromofluoromethane	108	80 - 116	09/20/21 18:38	
Toluene-d8	111	87 - 121	09/20/21 18:38	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21 14:55
Date Received: 09/15/21 08:05

Sample Name: MW-16-091421
Lab Code: R2109484-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	24	1.0	0.20	1	09/20/21 16:49	
1,1-Dichloroethane (1,1-DCA)	32	1.0	0.20	1	09/20/21 16:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/20/21 16:49	
Tetrachloroethene (PCE)	0.52 J	1.0	0.21	1	09/20/21 16:49	
Trichloroethene (TCE)	80	1.0	0.20	1	09/20/21 16:49	
Vinyl Chloride	0.24 J	1.0	0.20	1	09/20/21 16:49	
cis-1,2-Dichloroethene	130	1.0	0.23	1	09/20/21 16:49	
trans-1,2-Dichloroethene	5.0	1.0	0.20	1	09/20/21 16:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	09/20/21 16:49	
Dibromofluoromethane	109	80 - 116	09/20/21 16:49	
Toluene-d8	109	87 - 121	09/20/21 16:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003
Sample Matrix: Water

Service Request: R2109484
Date Collected: 09/14/21
Date Received: 09/15/21 08:05

Sample Name: Dup-091421
Lab Code: R2109484-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

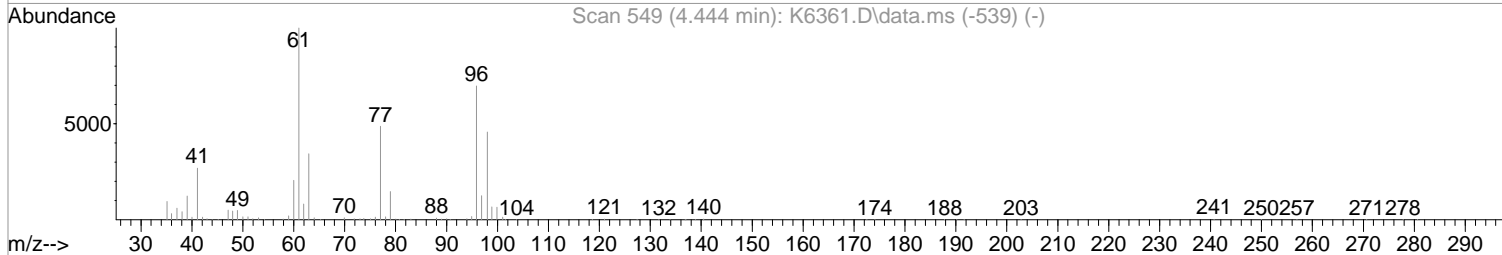
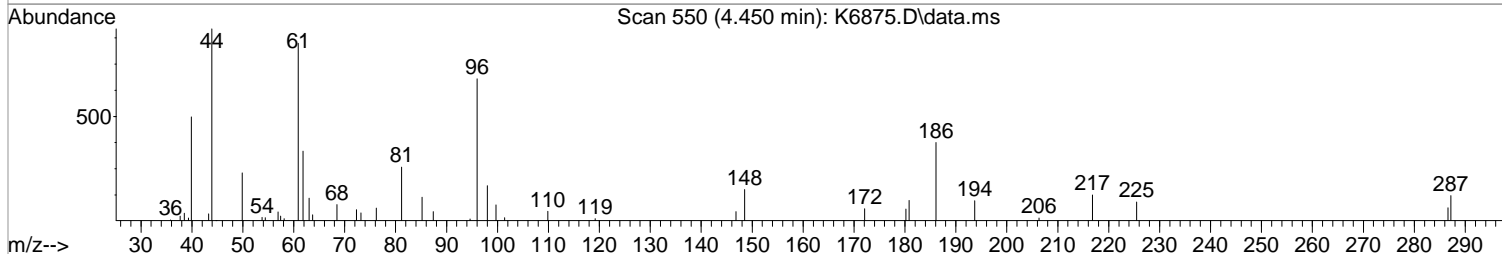
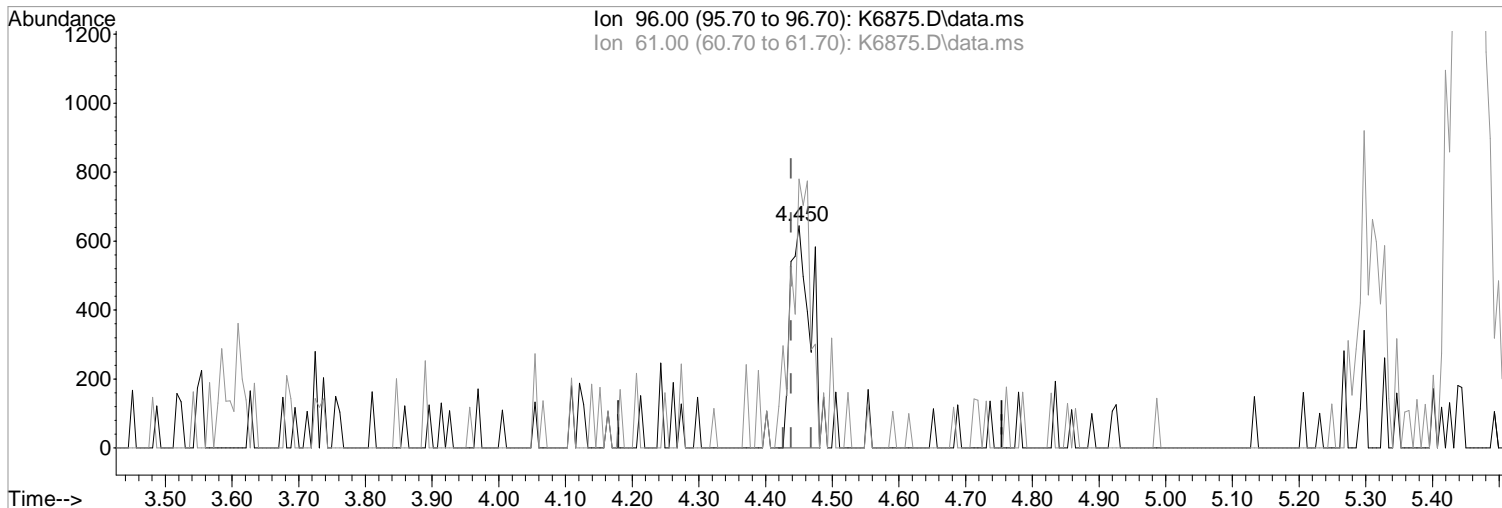
Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	24	1.0	0.20	1	09/20/21 18:59	
1,1-Dichloroethane (1,1-DCA)	30	1.0	0.20	1	09/20/21 18:59	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/20/21 18:59	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/20/21 18:59	
Trichloroethene (TCE)	75	1.0	0.20	1	09/20/21 18:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/20/21 18:59	
cis-1,2-Dichloroethene	120	1.0	0.23	1	09/20/21 18:59	
trans-1,2-Dichloroethene	4.6	1.0	0.20	1	09/20/21 18:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/20/21 18:59	
Dibromofluoromethane	109	80 - 116	09/20/21 18:59	
Toluene-d8	107	87 - 121	09/20/21 18:59	

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
Data File : K6875.D
Acq On : 20 Sep 2021 6:38 pm
Operator : K.Ruest
Sample : R2109484-004|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 20 18:54:31 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.450min (+0.012) 0.32 ppb m
response 1341

Ion	Exp%	Act%
96.00	100	100
61.00	145.20	121.12#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

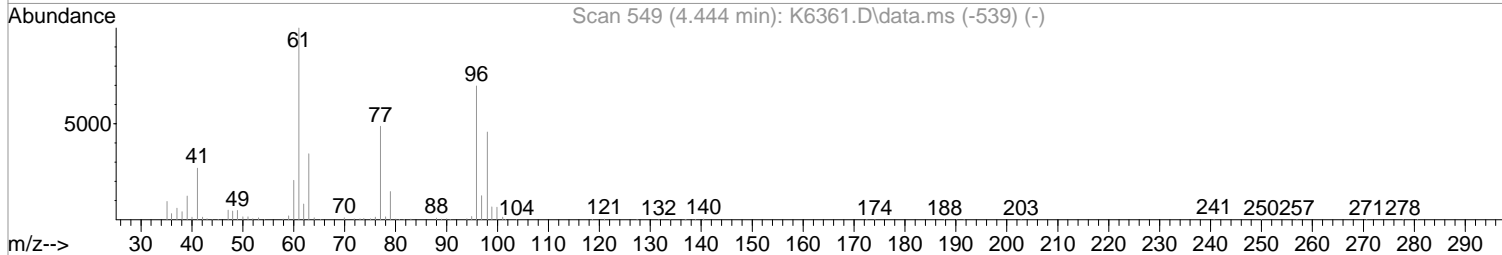
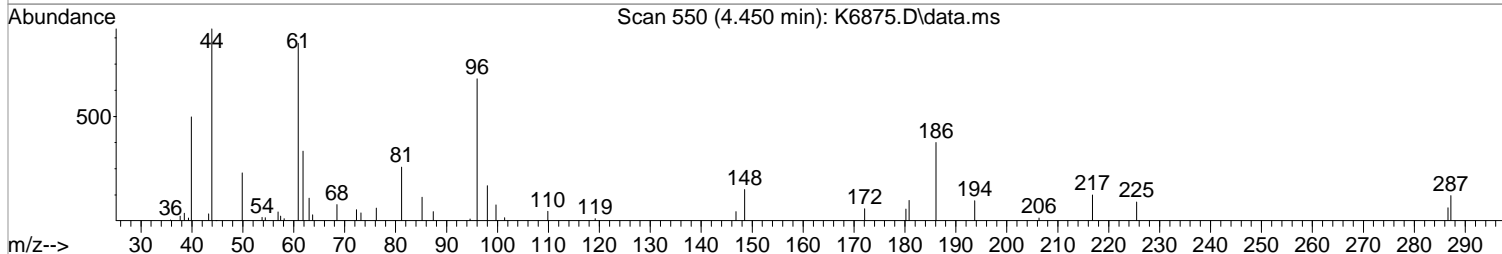
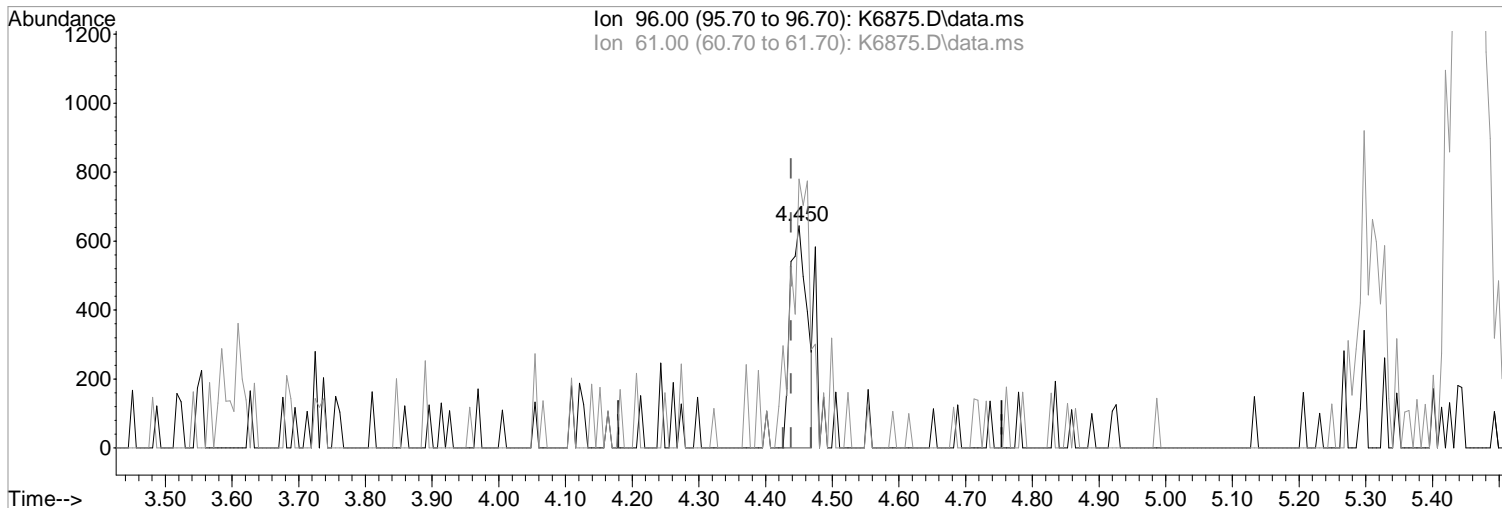
After

Poor integration.

09/21/21

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
 Data File : K6875.D
 Acq On : 20 Sep 2021 6:38 pm
 Operator : K.Ruest
 Sample : R2109484-004|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 20 18:54:31 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.450min (+0.012) 0.27 ppb

response 1129

Ion	Exp%	Act%
96.00	100	100
61.00	145.20	121.12#
0.00	0.00	0.00
0.00	0.00	0.00

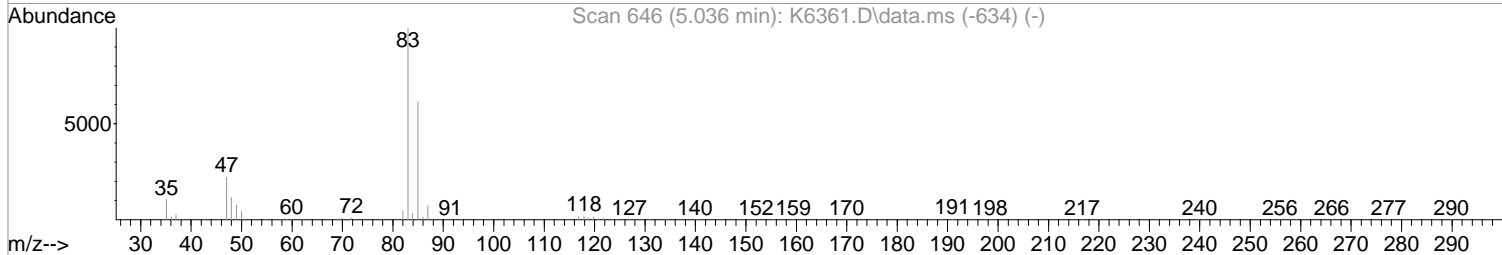
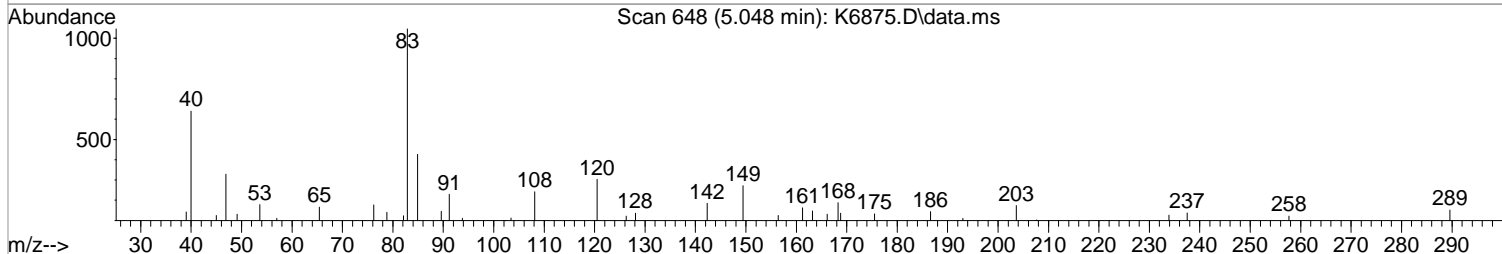
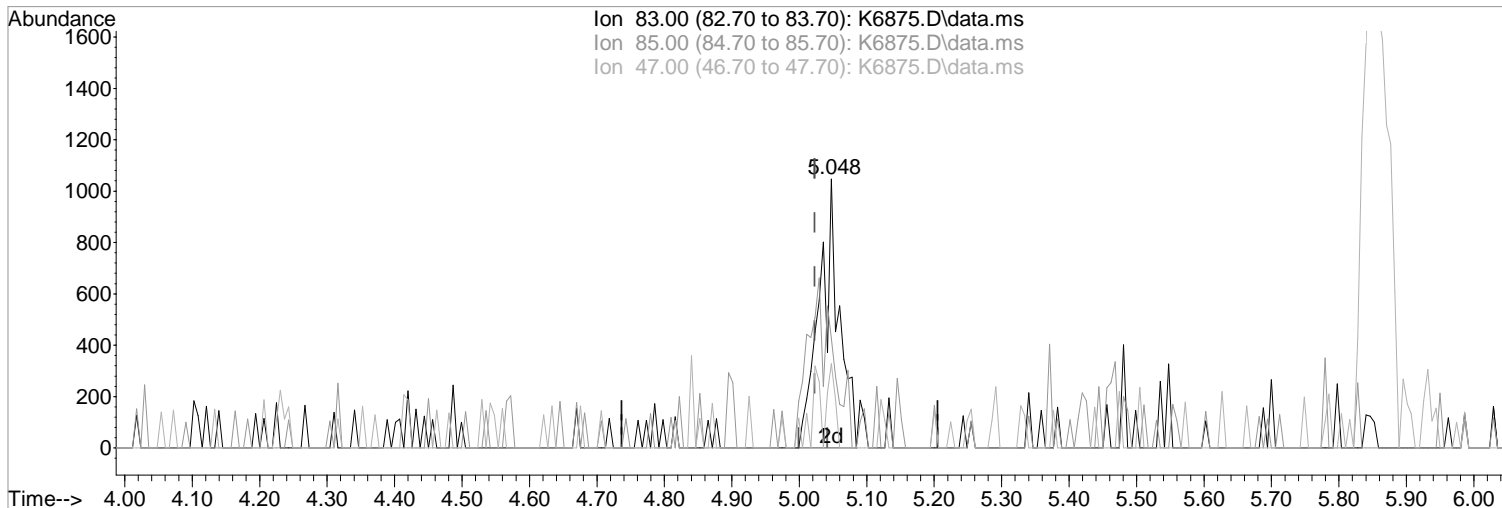
Manual Integration:

Before

09/21/21

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
Data File : K6875.D
Acq On : 20 Sep 2021 6:38 pm
Operator : K.Ruest
Sample : R2109484-004|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 20 18:54:31 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(40) Chloroform (P)

5.048min (+0.025) -0.18 ppb m

response 2098

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	40.78#
47.00	22.10	31.33
0.00	0.00	0.00

Manual Integration:

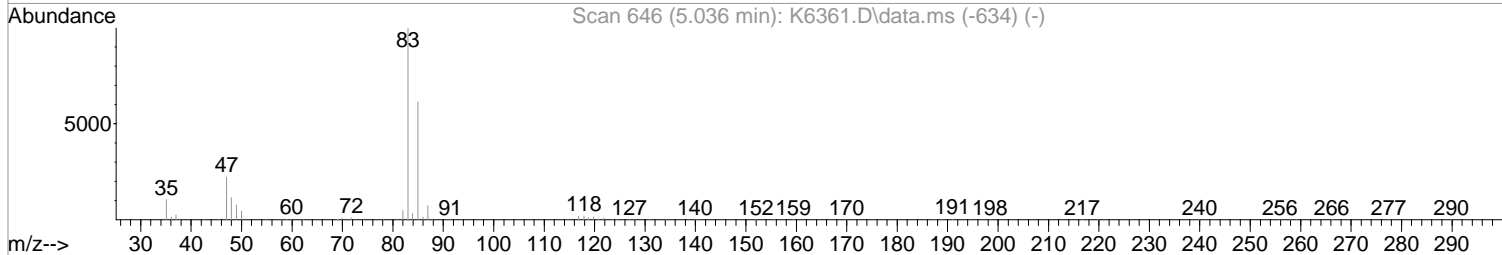
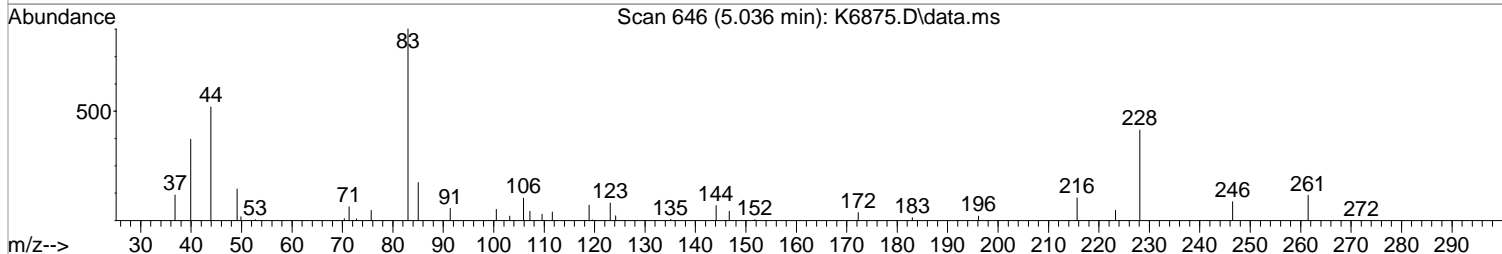
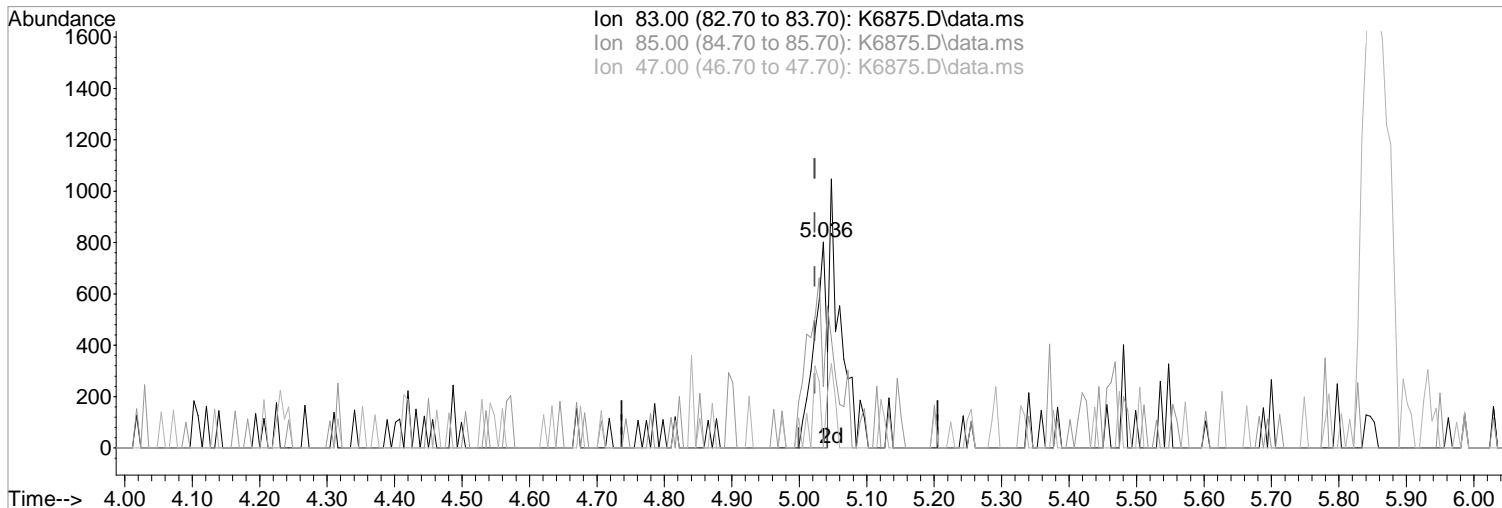
After

Split Peak

09/21/21

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
Data File : K6875.D
Acq On : 20 Sep 2021 6:38 pm
Operator : K.Ruest
Sample : R2109484-004|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 20 18:54:31 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(40) Chloroform (P)

5.036min (+0.013) -0.35 ppb
response 1020

Manual Integration:

Before

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	29.80#
47.00	22.10	0.00#
0.00	0.00	0.00

09/21/21

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
 Data File : K6875.D
 Acq On : 20 Sep 2021 6:38 pm
 Operator : K.Ruest
 Sample : R2109484-004|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 21 14:26:55 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

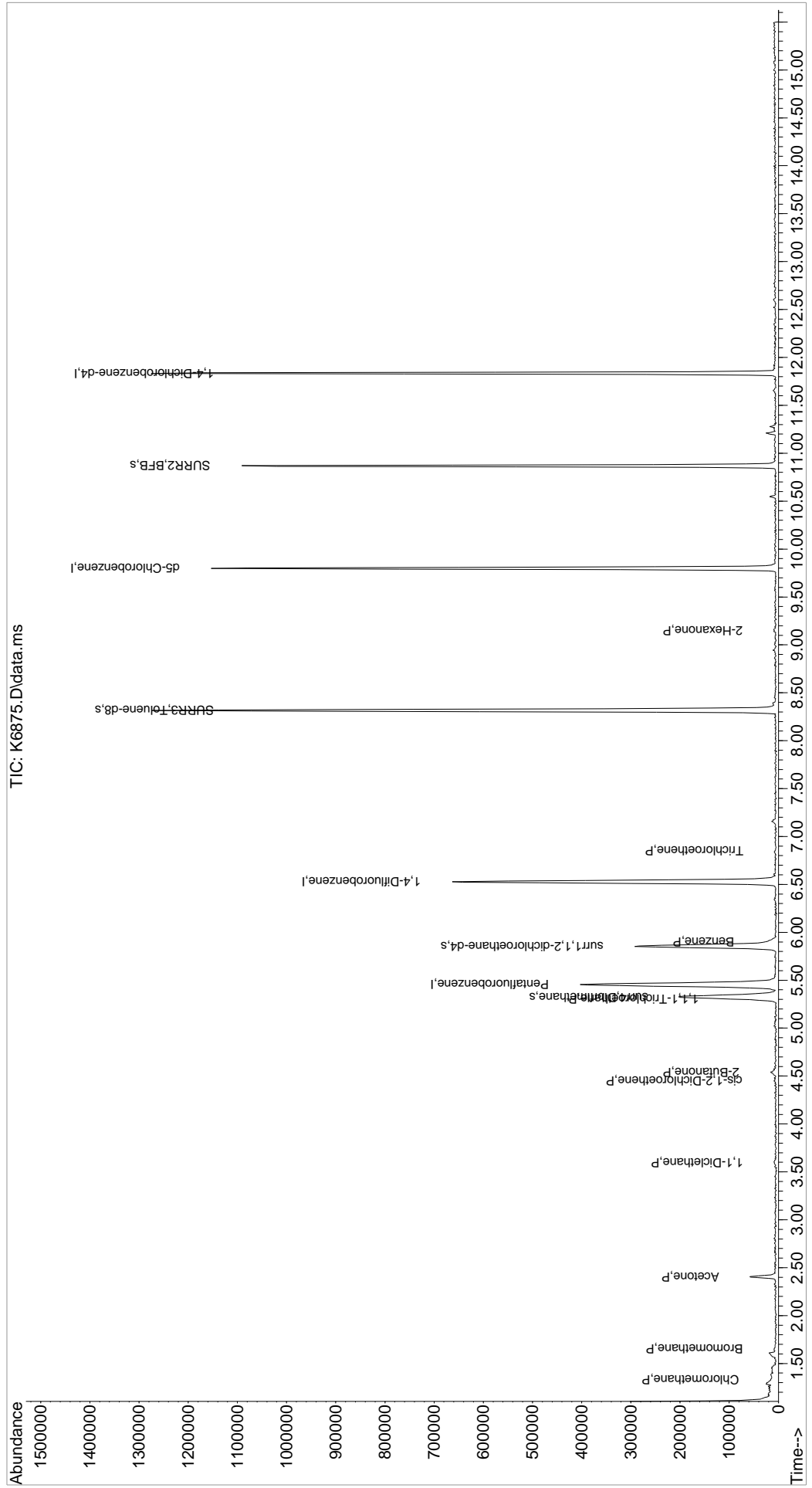
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.456	168	337908	50.00	ppb	0.01	
43) 1,4-Difluorobenzene	6.529	114	562096	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	508114	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	238722	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.322	113	165200	53.99	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery	=	107.98%		
48) surr1,1,2-dichloroetha...	5.852	65	248515	55.85	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	111.70%		
65) SURR3,Toluene-d8	8.315	98	801686	55.74	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	111.48%		
70) SURR2,BFB	10.870	95	299616	52.48	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	104.96%		
Target Compounds							
							Qvalue
3) Chloromethane	1.335	50	831	0.21	ppb		72
5) Bromomethane	1.652	94	1274	0.43	ppb		95
15) Acetone	2.402	43	54290	26.74	ppb		97
28) 1,1-Dicethane	3.597	63	3090	0.46	ppb		71
34) cis-1,2-Dichloroethene	4.450	96	1341m	0.32	ppb		
35) 2-Butanone	4.542	43	14517	4.97	ppb		87
40) Chloroform	5.048	83	2098m	Below	Cal		
41) 1,1,1-Trichloroethane	5.304	97	3841	0.71	ppb	#	55
49) Benzene	5.901	78	10289	0.65	ppb	#	59
54) Trichloroethene	6.852	130	815	0.21	ppb	#	47
73) 2-Hexanone	9.144	43	2136	0.53	ppb		86

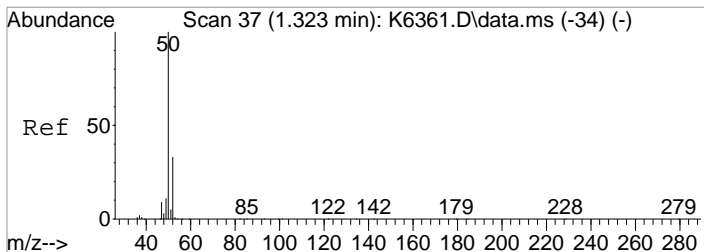
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092021\
 Data File : K6875.D
 Acq On : 20 Sep 2021 6:38 pm
 Operator : K.Ruest
 Sample : R2109484-004|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

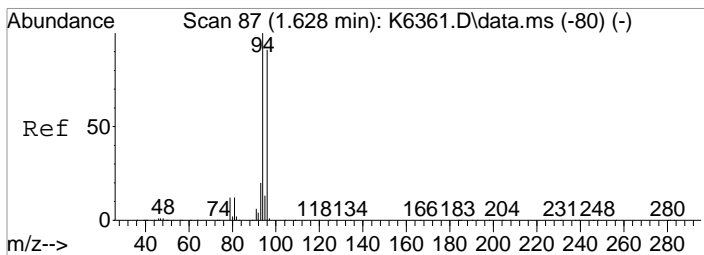
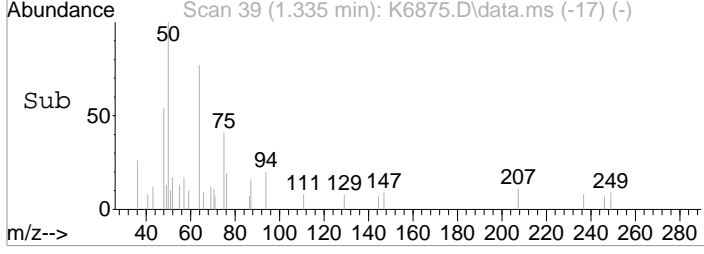
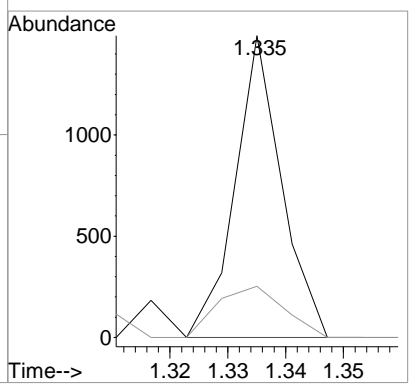
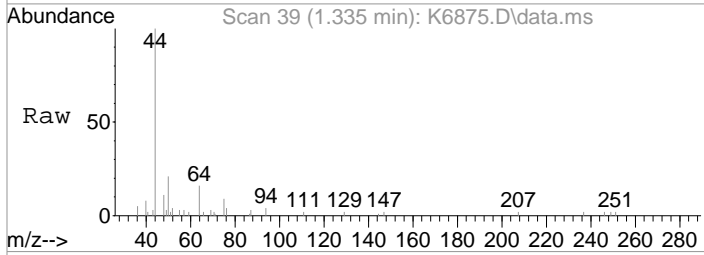
Quant Time: Sep 21 14:26:55 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





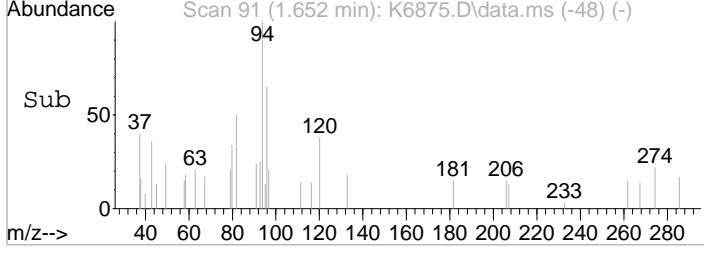
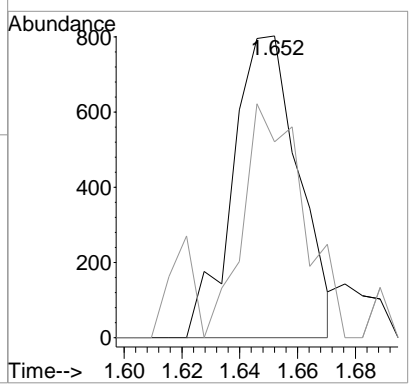
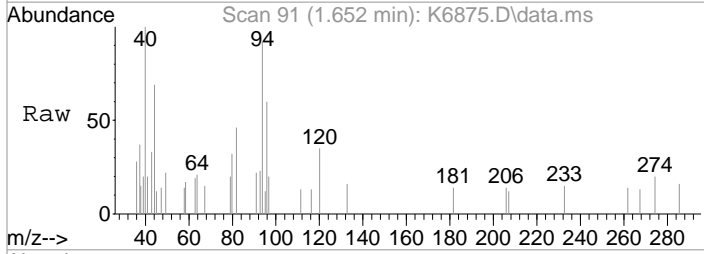
#3
Chloromethane
Concen: 0.21 ppb
RT: 1.335 min Scan# 39
Delta R.T. 0.018 min
Lab File: K6875.D
Acq: 20 Sep 2021 6:38 pm

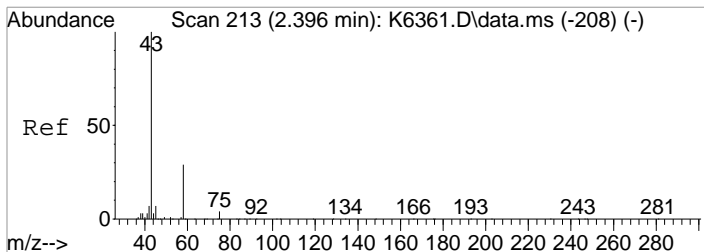
Tgt Ion	Resp	Lower	Upper
50	100		
52	17.0	12.7	52.7



#5
Bromomethane
Concen: 0.43 ppb
RT: 1.652 min Scan# 91
Delta R.T. 0.037 min
Lab File: K6875.D
Acq: 20 Sep 2021 6:38 pm

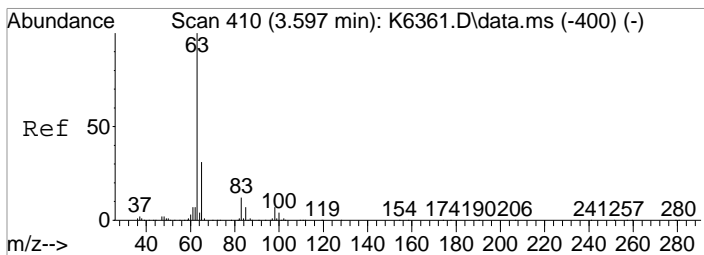
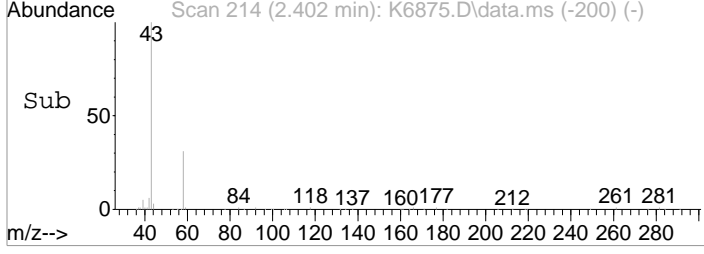
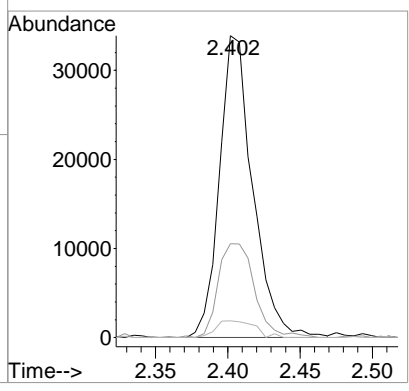
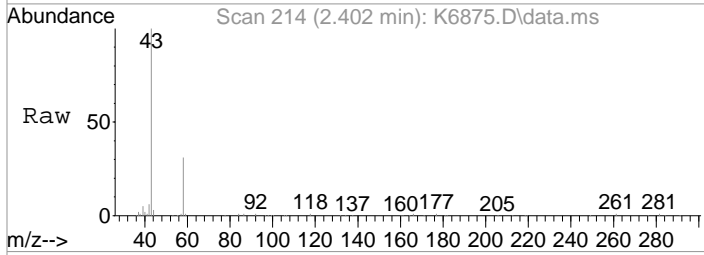
Tgt Ion	Resp	Lower	Upper
94	100		
96	86.2	71.0	111.0





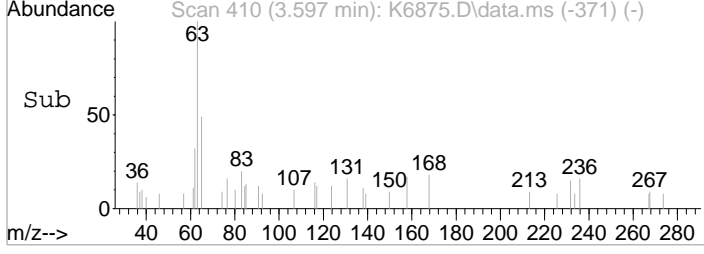
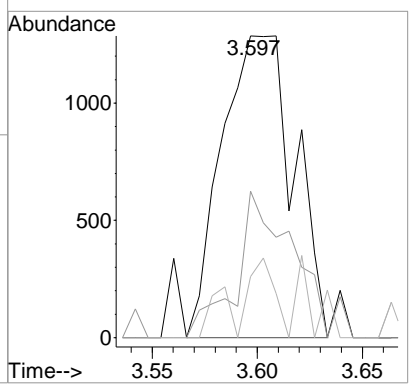
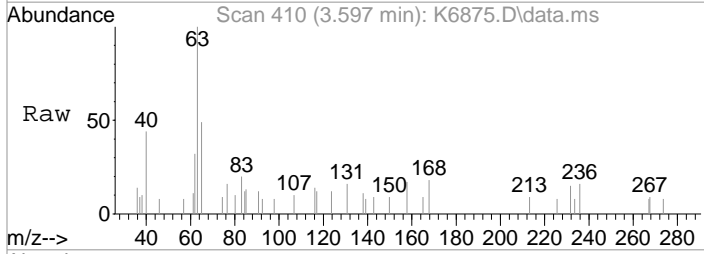
#15
 Acetone
 Concen: 26.74 ppb
 RT: 2.402 min Scan# 214
 Delta R.T. 0.013 min
 Lab File: K6875.D
 Acq: 20 Sep 2021 6:38 pm

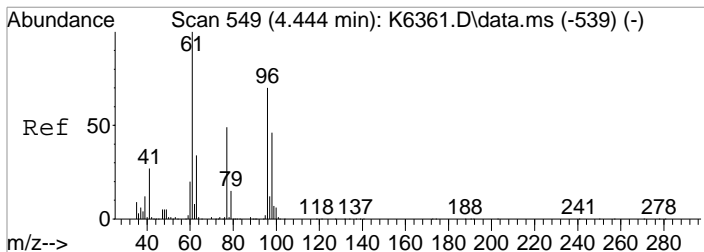
Tgt Ion	Resp	Lower	Upper
43	54290		
58	31.1	9.6	49.6
42	5.6	0.0	27.7



#28
 1,1-Diclcethane
 Concen: 0.46 ppb
 RT: 3.597 min Scan# 410
 Delta R.T. 0.012 min
 Lab File: K6875.D
 Acq: 20 Sep 2021 6:38 pm

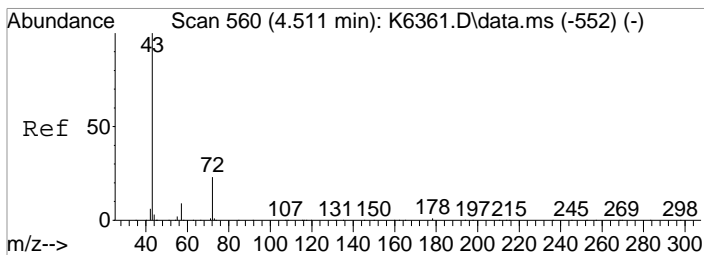
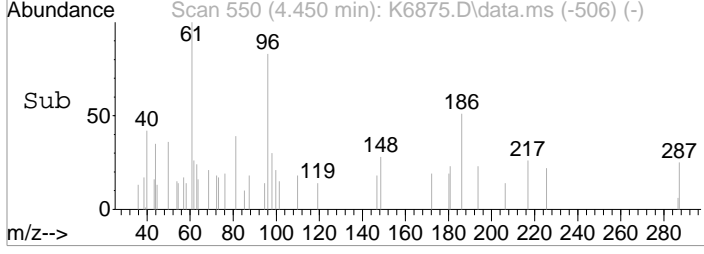
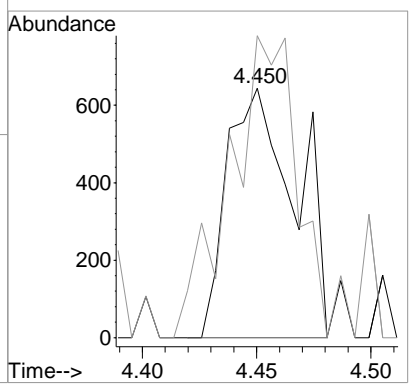
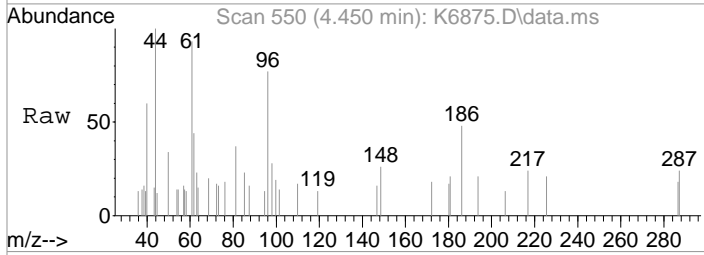
Tgt Ion	Resp	Lower	Upper
63	3090		
65	48.6	10.8	50.8
83	20.3	0.0	32.3





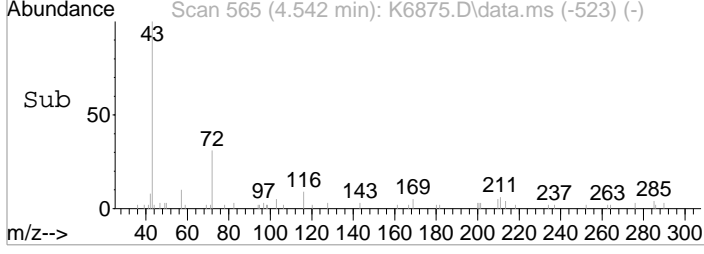
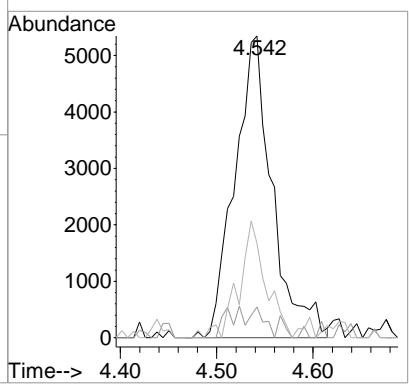
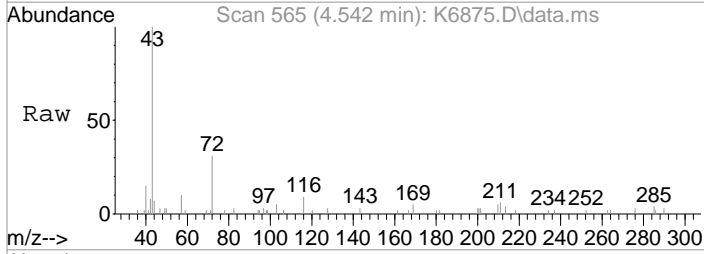
#34
 cis-1,2-Dichloroethene
 Concen: 0.32 ppb m
 RT: 4.450 min Scan# 550
 Delta R.T. 0.012 min
 Lab File: K6875.D
 Acq: 20 Sep 2021 6:38 pm

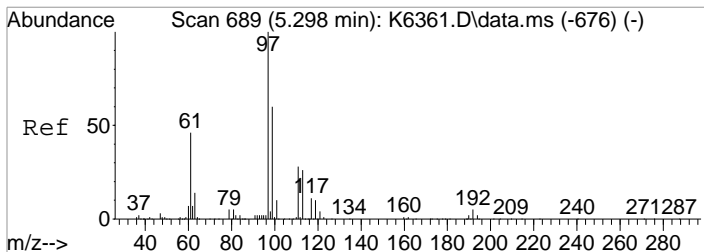
Tgt Ion	Resp	Lower	Upper
96	1341		
96	100		
61	121.1	125.2	165.2#



#35
 2-Butanone
 Concen: 4.97 ppb
 RT: 4.542 min Scan# 565
 Delta R.T. 0.030 min
 Lab File: K6875.D
 Acq: 20 Sep 2021 6:38 pm

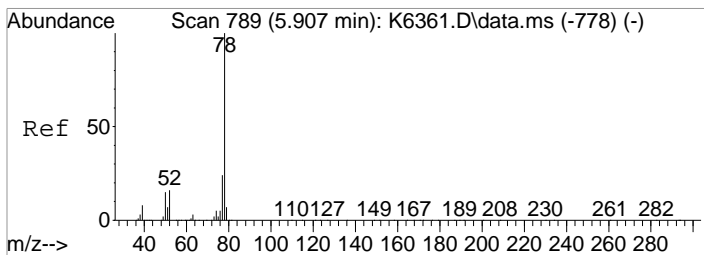
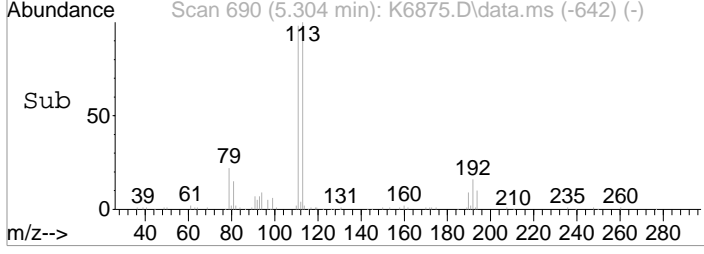
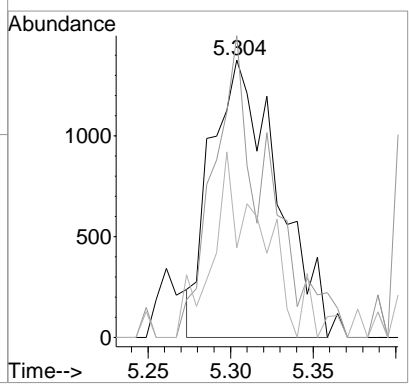
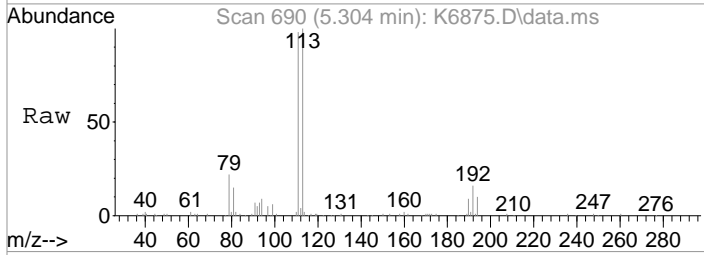
Tgt Ion	Resp	Lower	Upper
43	14517		
43	100		
57	10.2	0.0	28.6
72	31.3	3.4	43.4





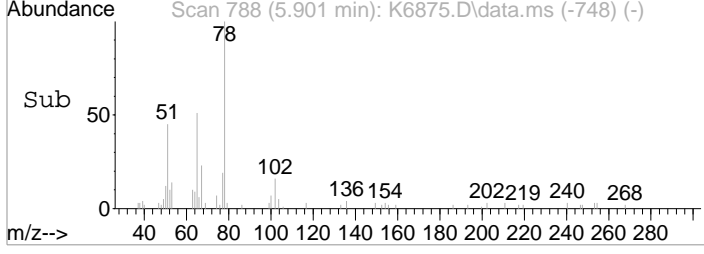
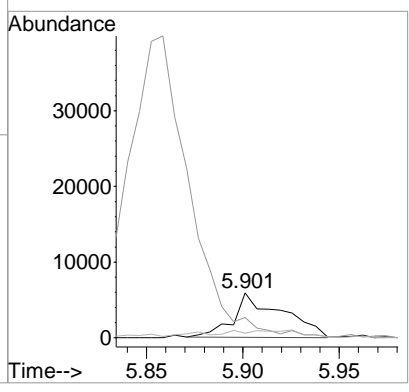
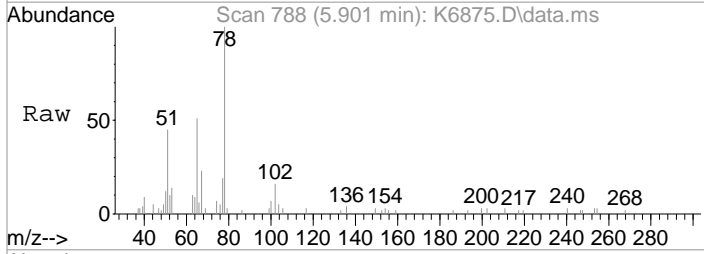
#41
 1,1,1-Trichloroethane
 Concen: 0.71 ppb
 RT: 5.304 min Scan# 690
 Delta R.T. 0.012 min
 Lab File: K6875.D
 Acq: 20 Sep 2021 6:38 pm

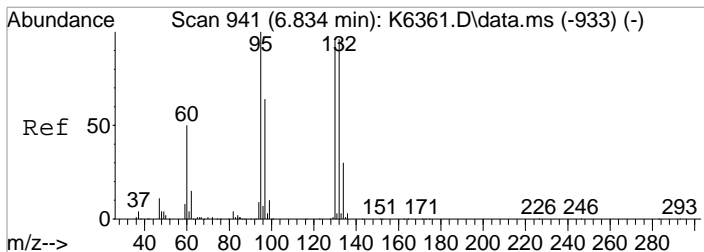
Tgt Ion	Resp	Lower	Upper
97	100		
99	108.8	40.3	80.3#
61	32.3	26.2	66.2



#49
 Benzene
 Concen: 0.65 ppb
 RT: 5.901 min Scan# 788
 Delta R.T. -0.000 min
 Lab File: K6875.D
 Acq: 20 Sep 2021 6:38 pm

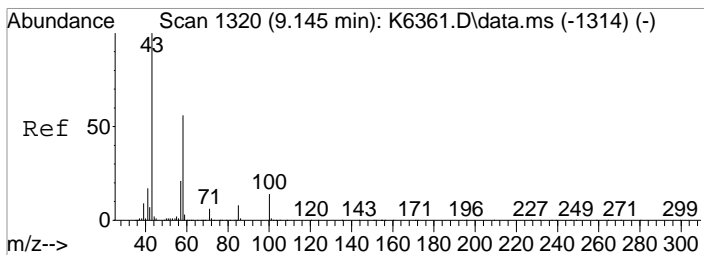
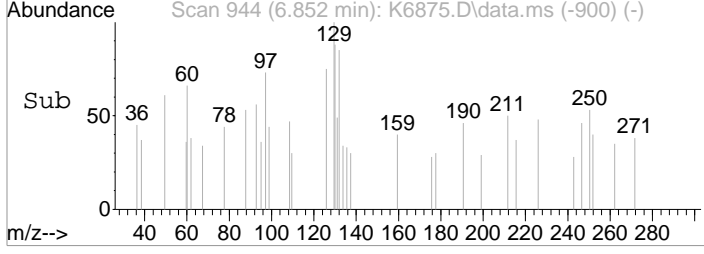
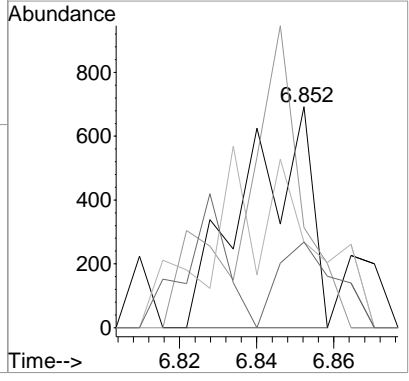
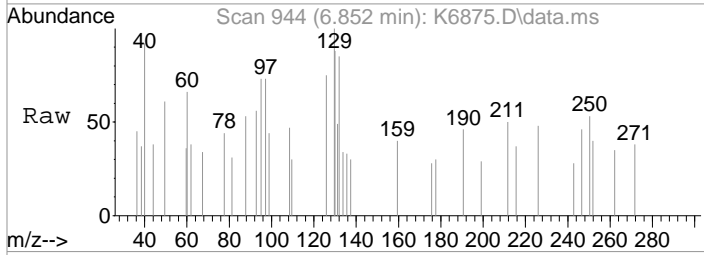
Tgt Ion	Resp	Lower	Upper
78	100		
51	44.9	0.0	35.9#
52	10.5	0.0	36.2





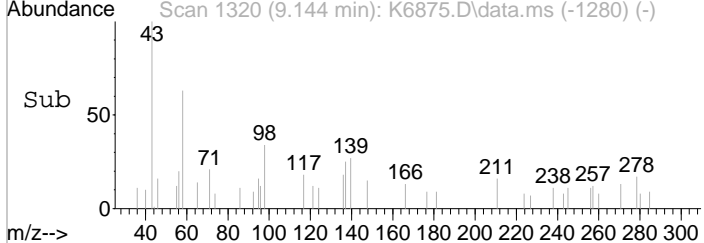
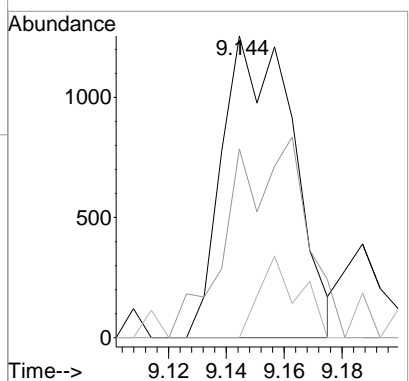
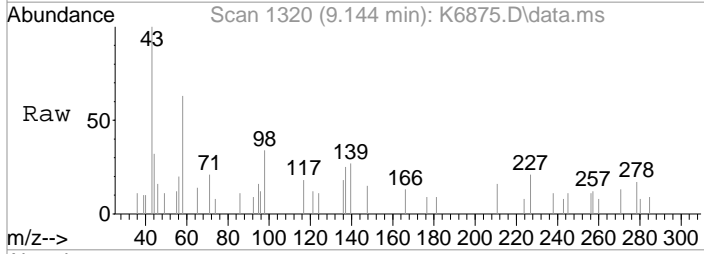
#54
 Trichloroethene
 Concen: 0.21 ppb
 RT: 6.852 min Scan# 944
 Delta R.T. 0.018 min
 Lab File: K6875.D
 Acq: 20 Sep 2021 6:38 pm

Tgt Ion	Resp	Lower	Upper
130	100		
132	45.3	79.7	119.7#
95	38.7	83.8	123.8#
97	38.7	46.5	86.5#



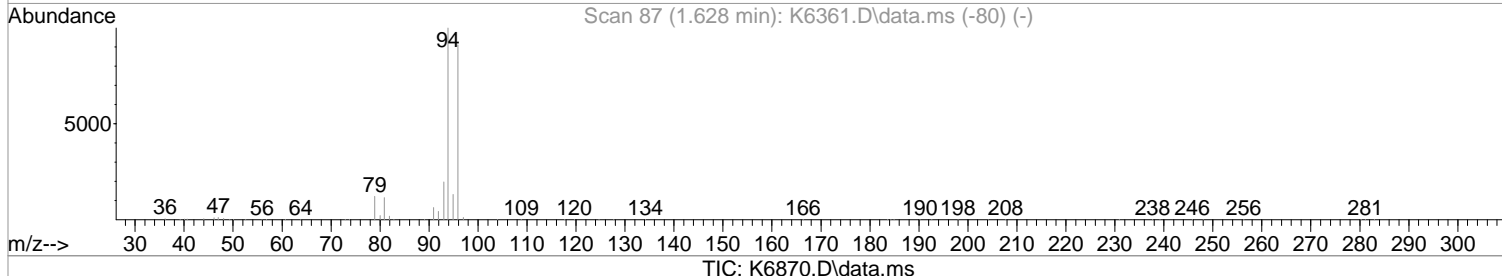
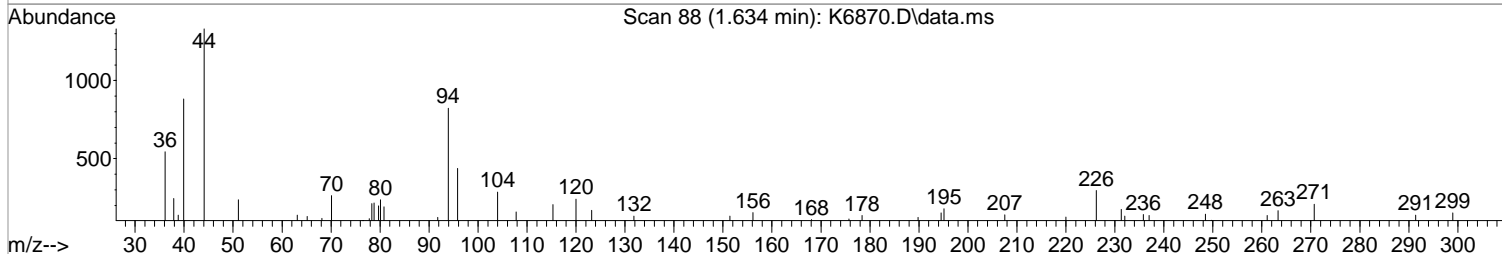
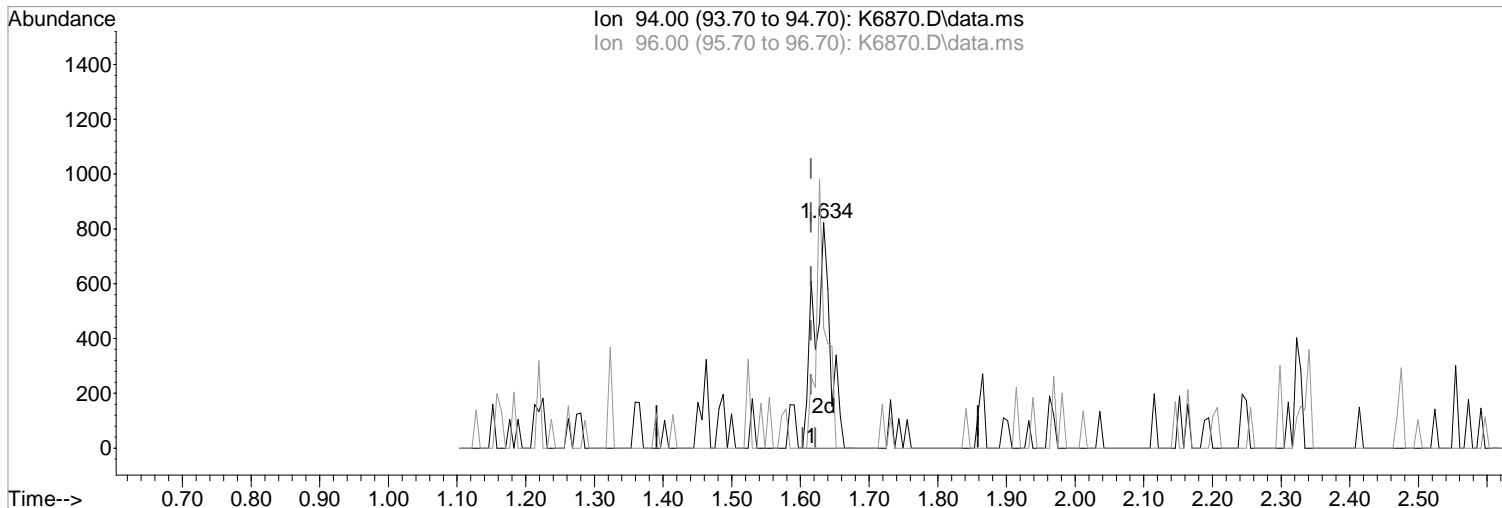
#73
 2-Hexanone
 Concen: 0.53 ppb
 RT: 9.144 min Scan# 1320
 Delta R.T. -0.000 min
 Lab File: K6875.D
 Acq: 20 Sep 2021 6:38 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	62.6	36.0	76.0
100	0.0	0.0	33.5



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6870.D
Acq On : 20 Sep 2021 4:49 pm
Operator : K.Ruest
Sample : R2109484-011|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 20 17:13:13 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.634min (+0.018) 0.44 ppb m
response 1321

Manual Integration:

After

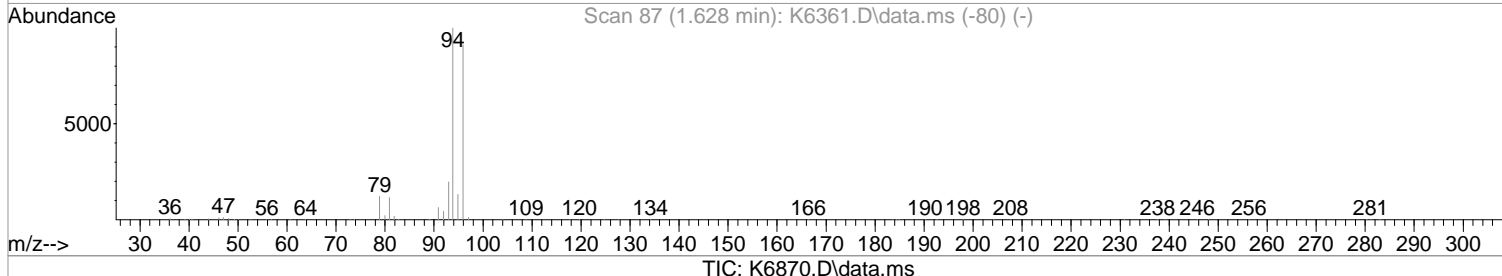
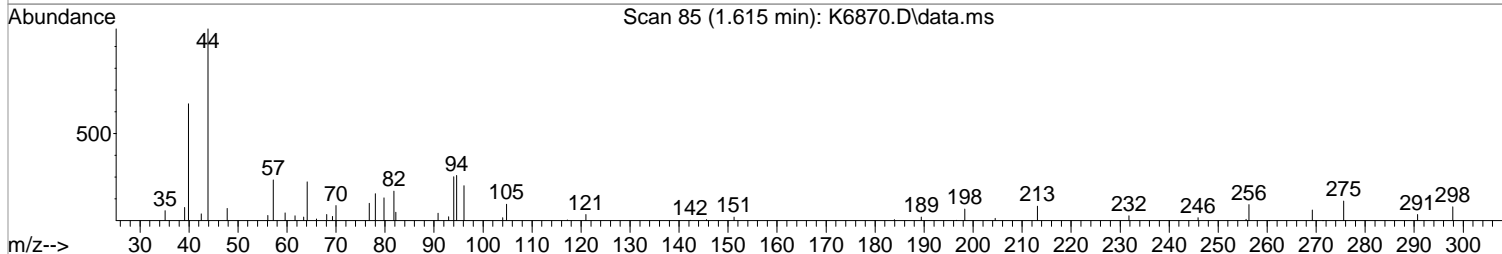
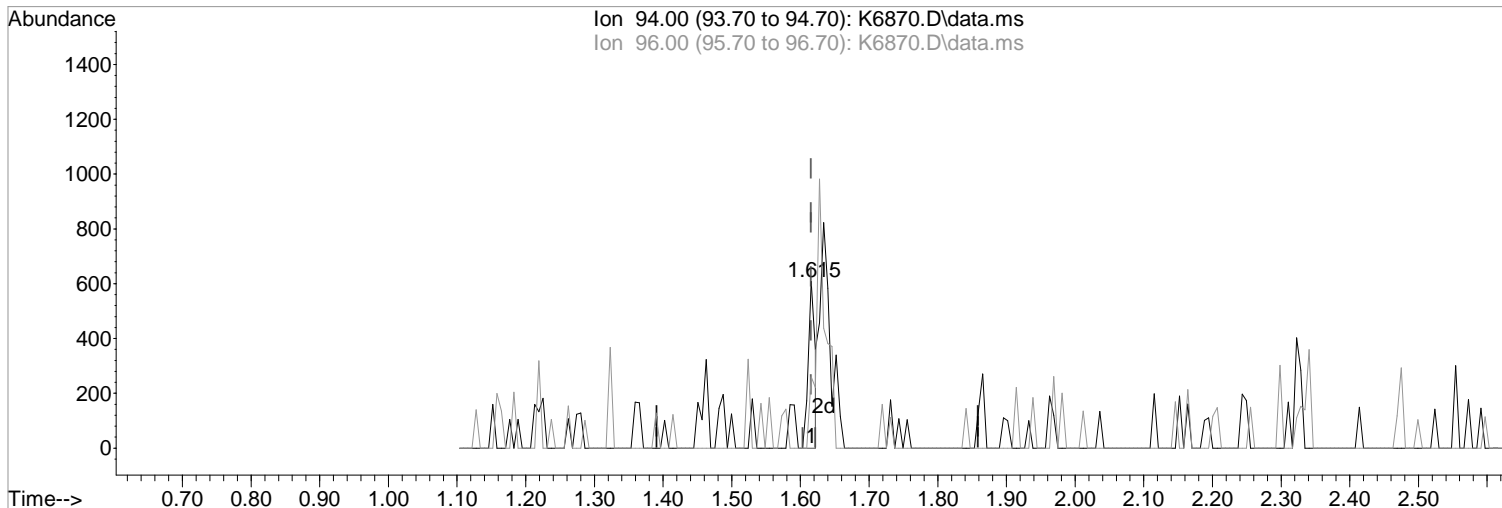
Split Peak

09/21/21

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	53.22#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
Data File : K6870.D
Acq On : 20 Sep 2021 4:49 pm
Operator : K.Ruest
Sample : R2109484-011|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 20 17:13:13 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(5) Bromomethane (P)
1.615min (-0.000) 0.14 ppb
response 417

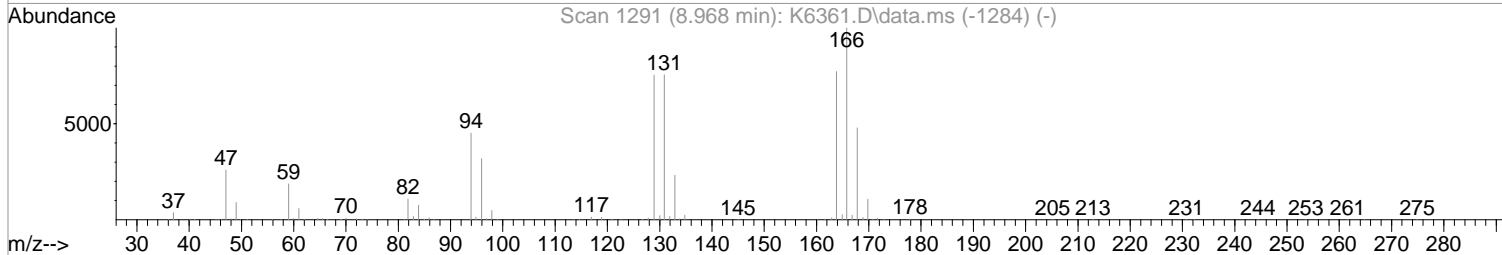
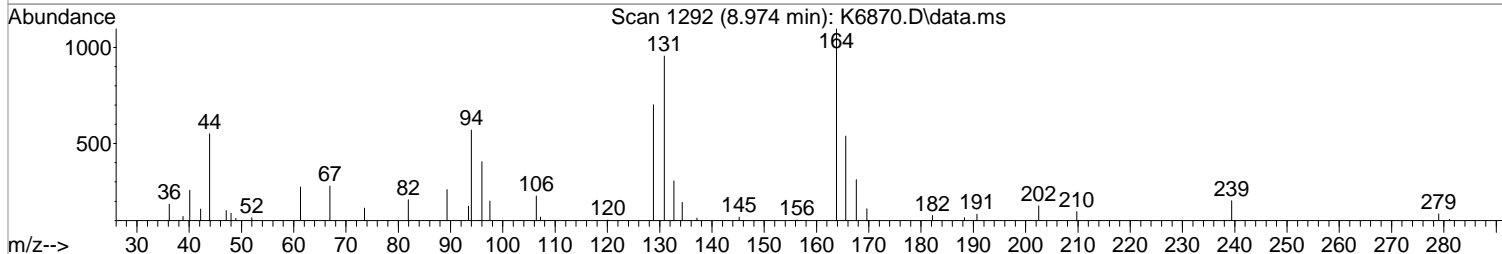
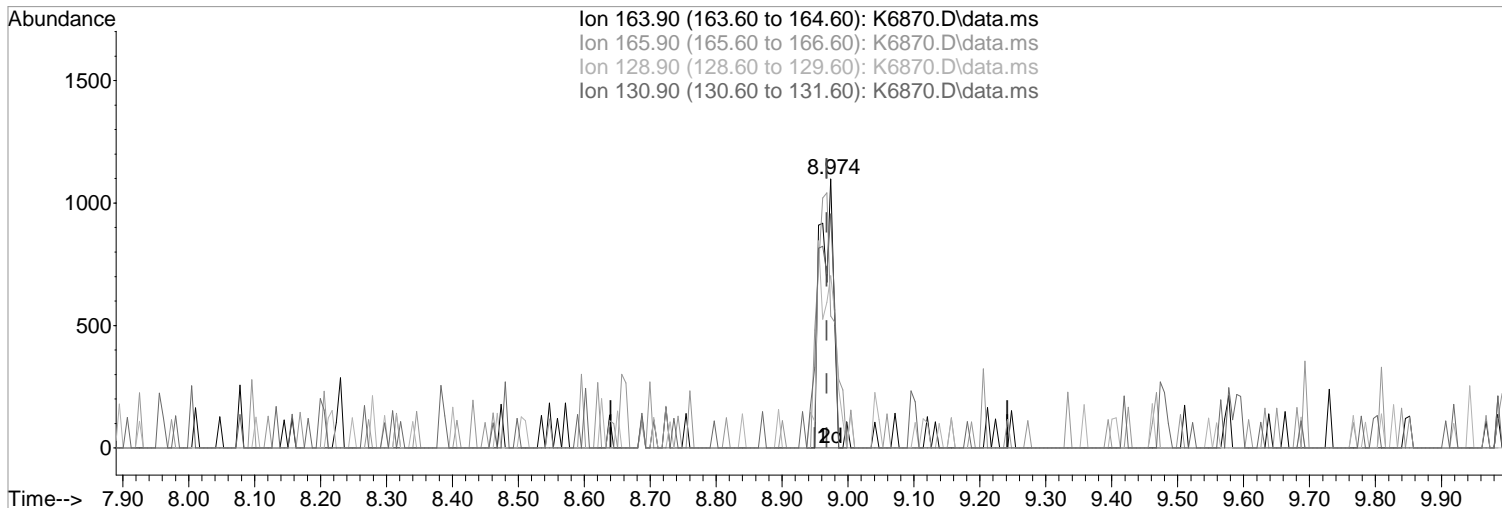
Manual Integration:
Before

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	42.76#
0.00	0.00	0.00
0.00	0.00	0.00

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6870.D
Acq On : 20 Sep 2021 4:49 pm
Operator : K.Ruest
Sample : R2109484-011|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 20 17:13:13 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(72) Tetrachloroethene (P)

8.974min (+0.006) 0.52 ppb m

response 1540

Ion Exp% Act%

163.90 100 100

165.90 129.50 49.09#

128.90 97.60 64.03#

130.90 97.90 86.98

Manual Integration:

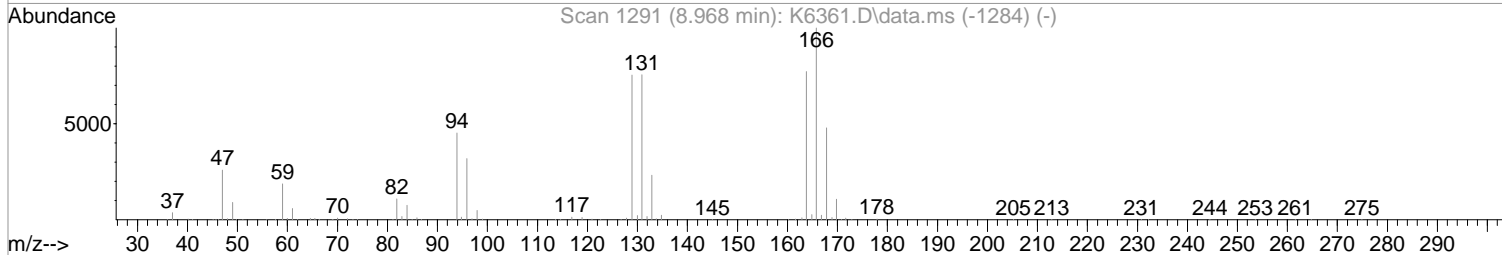
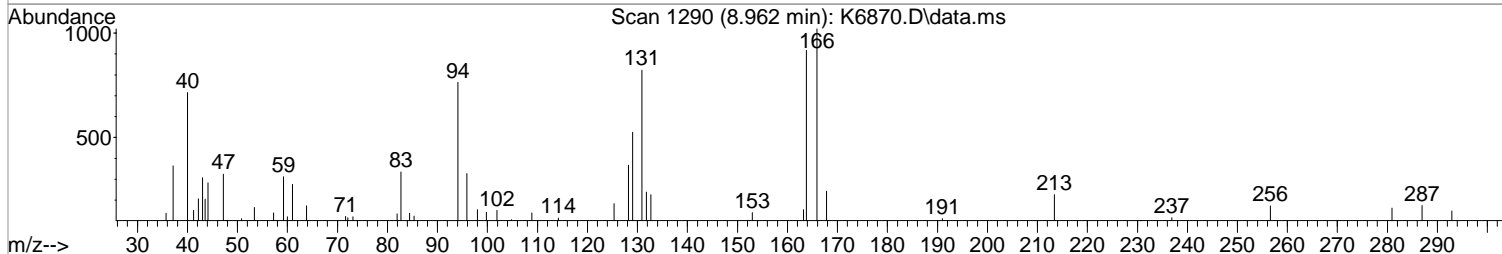
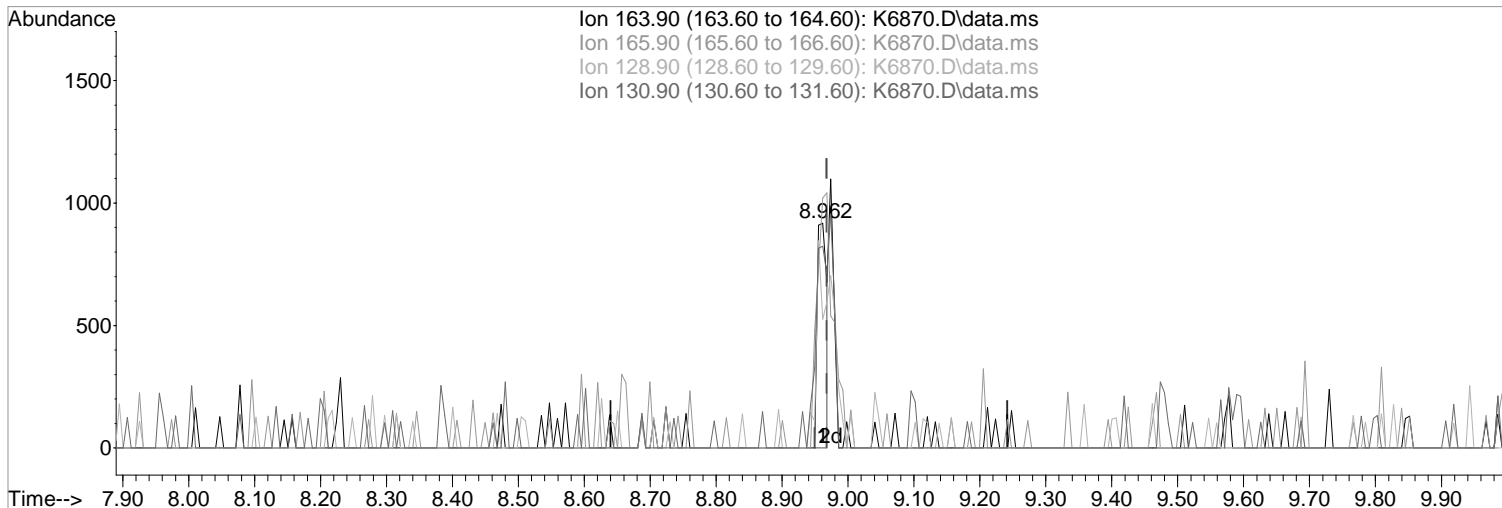
After

Split Peak

09/21/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6870.D
Acq On : 20 Sep 2021 4:49 pm
Operator : K.Ruest
Sample : R2109484-011|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 20 17:13:13 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K6870.D\data.ms

(72) Tetrachloroethene (P)
8.962min (-0.006) 0.31 ppb
response 916

Manual Integration:
Before

Ion	Exp%	Act%
163.90	100	100
165.90	129.50	111.22
128.90	97.60	57.30#
130.90	97.90	89.65

09/21/21

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
 Data File : K6870.D
 Acq On : 20 Sep 2021 4:49 pm
 Operator : K.Ruest
 Sample : R2109484-011|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 12:47:09 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

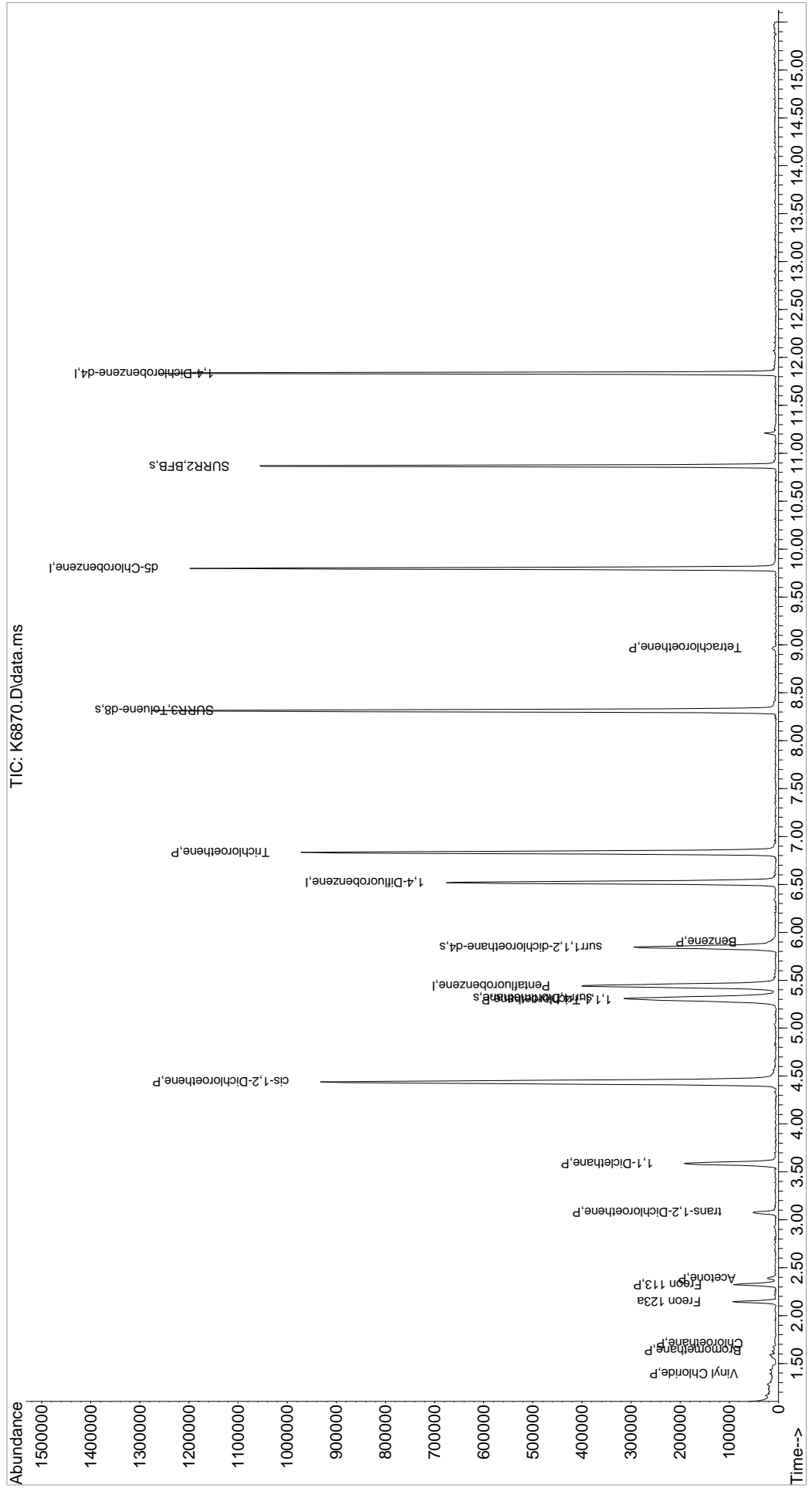
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	343367	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	583785	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	515919	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	242801	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	172425	54.26	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	108.52%	
48) surr1,1,2-dichloroetha...	5.846	65	245891	53.21	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	106.42%	
65) SURR3,Toluene-d8	8.315	98	814892	54.55	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	109.10%	
70) SURR2,BFB	10.864	95	313287	52.83	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	105.66%	
Target Compounds						
4) Vinyl Chloride	1.396	62	1112	0.24	ppb	Qvalue # 38
5) Bromomethane	1.634	94	1321m	0.44	ppb	
6) Chloroethane	1.713	64	769	0.25	ppb	74
10) Freon 123a	2.146	67	38052	8.64	ppb	93
14) Freon 113	2.323	101	28816	8.83	ppb	97
15) Acetone	2.390	43	16302	6.33	ppb	98
26) trans-1,2-Dichloroethene	3.079	96	18240	4.99	ppb	88
28) 1,1-Dicethane	3.591	63	216610	31.52	ppb	100
34) cis-1,2-Dichloroethene	4.438	96	528045	125.48	ppb	89
41) 1,1,1-Trichloroethane	5.298	97	134641	24.49	ppb	94
49) Benzene	5.901	78	9152	0.55	ppb	# 68
54) Trichloroethene	6.834	130	330200	80.37	ppb	97
72) Tetrachloroethene	8.974	164	1540m	0.52	ppb	

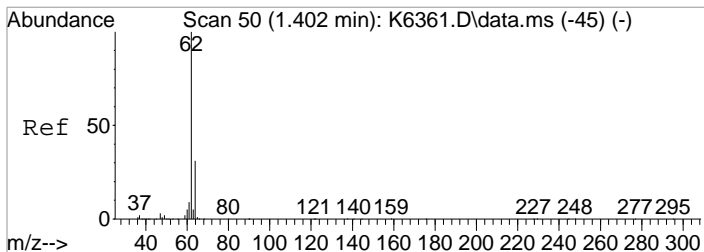
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092021\
 Data File : K6870.D
 Acq On : 20 Sep 2021 4:49 pm
 Operator : K.Ruest
 Sample : R2109484-011|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

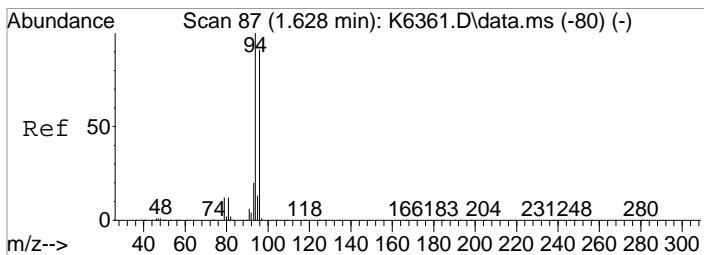
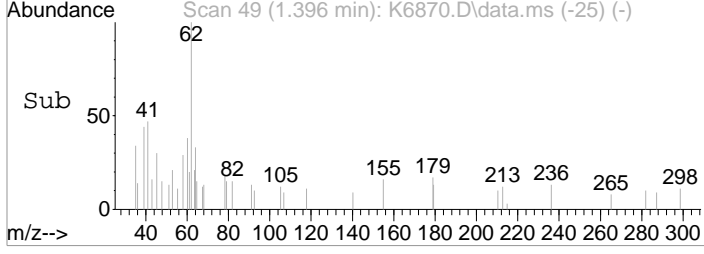
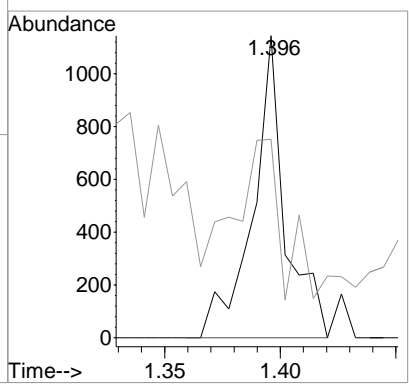
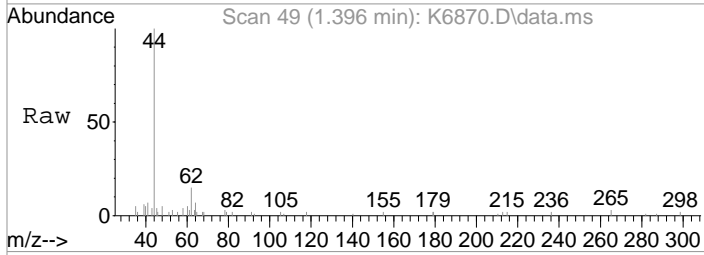
Quant Time: Sep 21 12:47:09 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





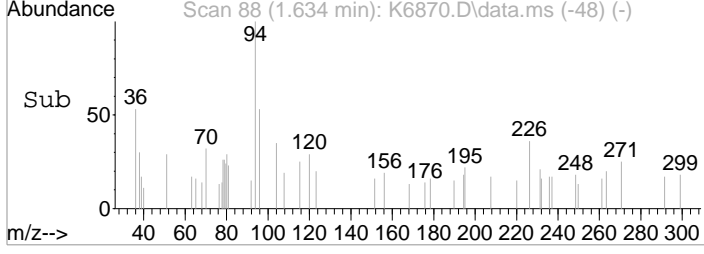
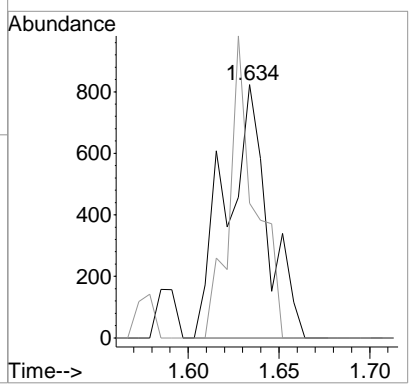
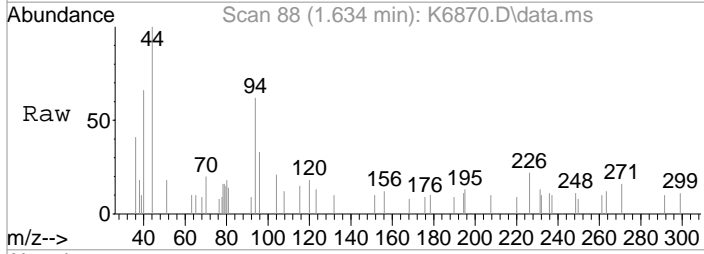
#4
 Vinyl Chloride
 Concen: 0.24 ppb
 RT: 1.396 min Scan# 49
 Delta R.T. -0.000 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

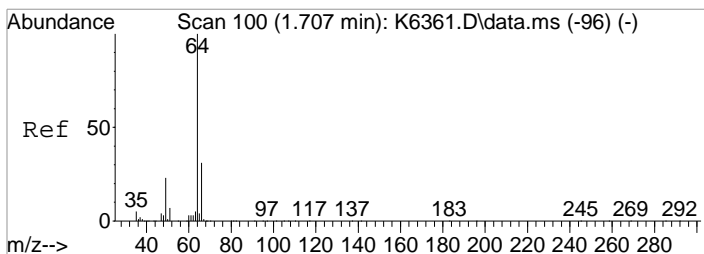
Tgt Ion	Resp	Lower	Upper
62	100		
64	65.7	11.5	51.5#



#5
 Bromomethane
 Concen: 0.44 ppb m
 RT: 1.634 min Scan# 88
 Delta R.T. 0.018 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

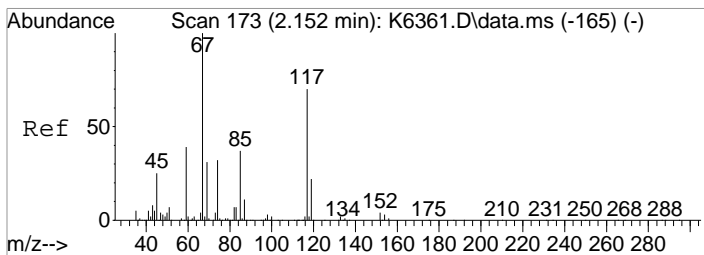
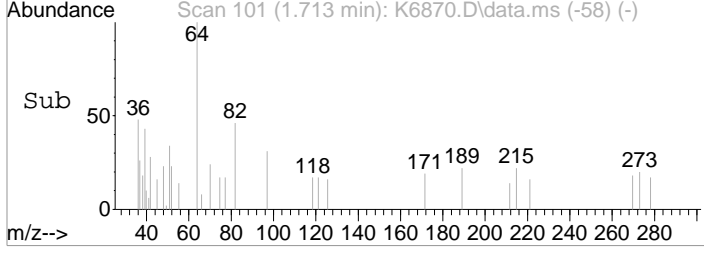
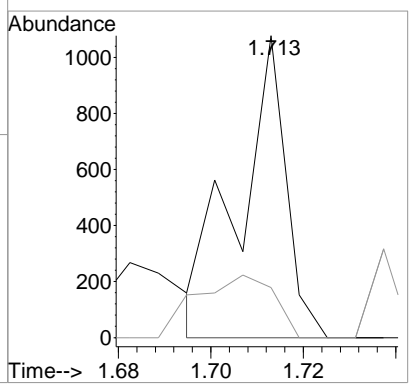
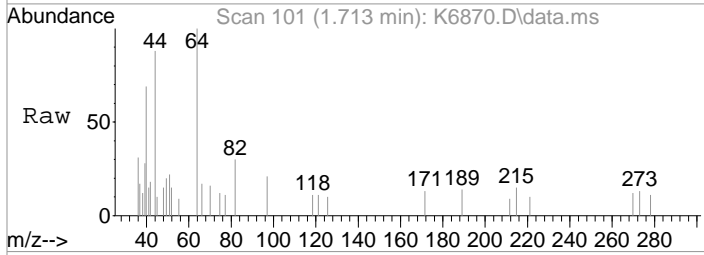
Tgt Ion	Resp	Lower	Upper
94	100		
96	53.2	71.0	111.0#





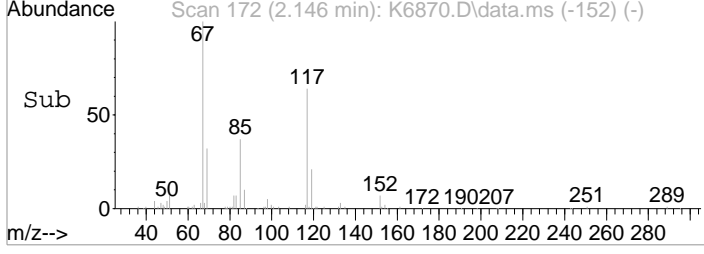
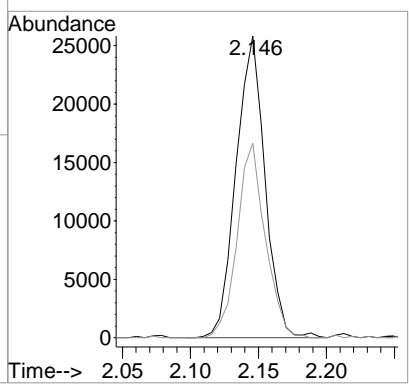
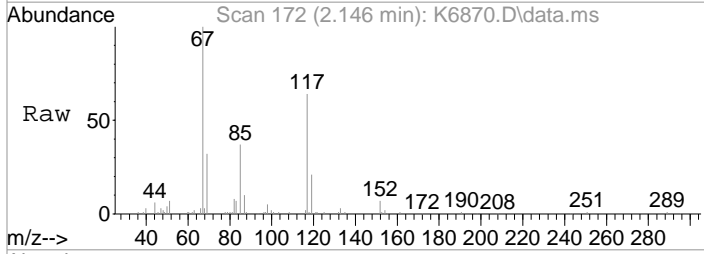
#6
 Chloroethane
 Concen: 0.25 ppb
 RT: 1.713 min Scan# 101
 Delta R.T. 0.018 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

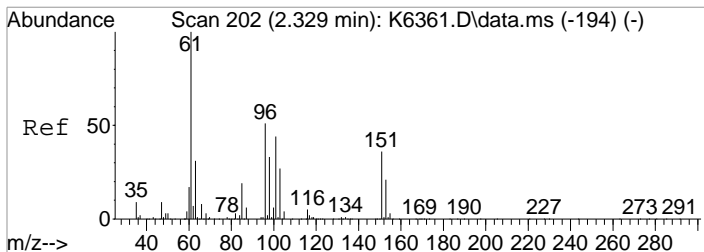
Tgt Ion	Resp	Lower	Upper
64	100		
66	16.6	10.7	50.7



#10
 Freon 123a
 Concen: 8.64 ppb
 RT: 2.146 min Scan# 172
 Delta R.T. 0.006 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

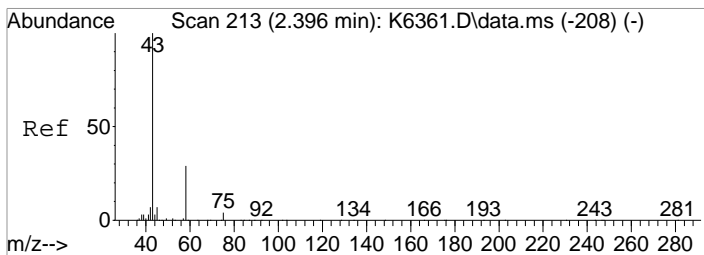
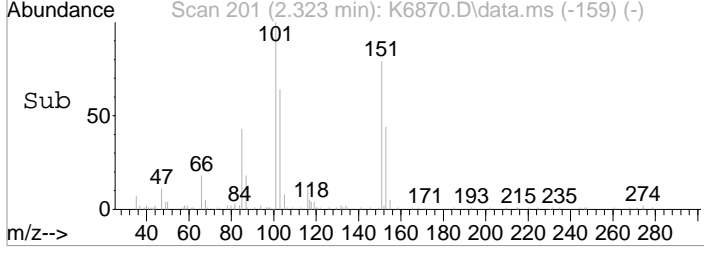
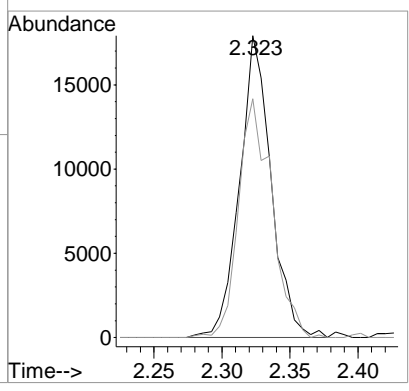
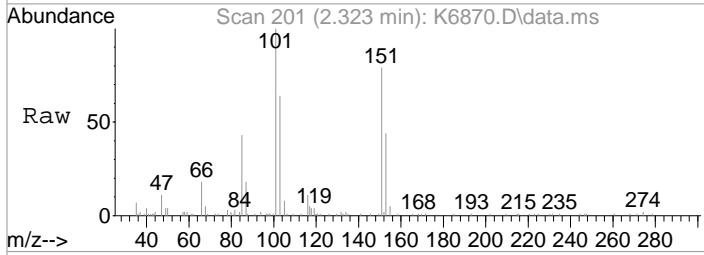
Tgt Ion	Resp	Lower	Upper
67	100		
117	64.4	50.5	90.5





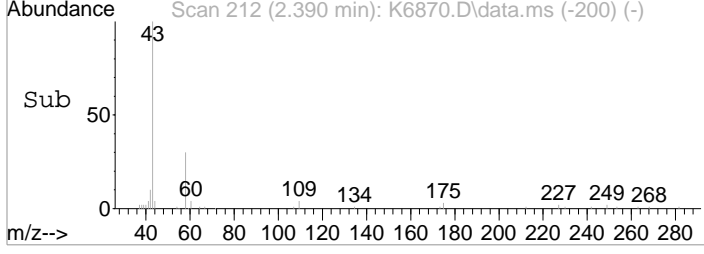
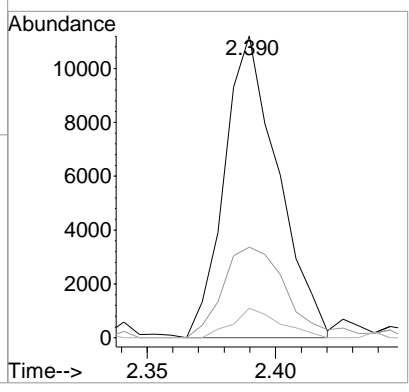
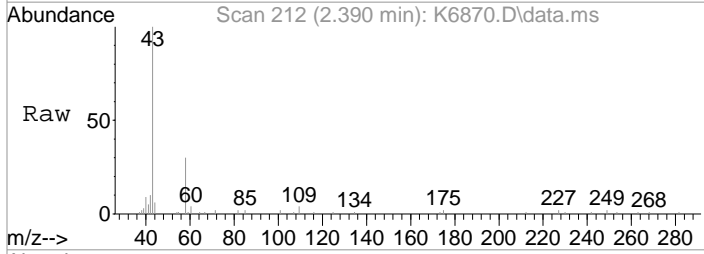
#14
 Freon 113
 Concen: 8.83 ppb
 RT: 2.323 min Scan# 201
 Delta R.T. -0.000 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

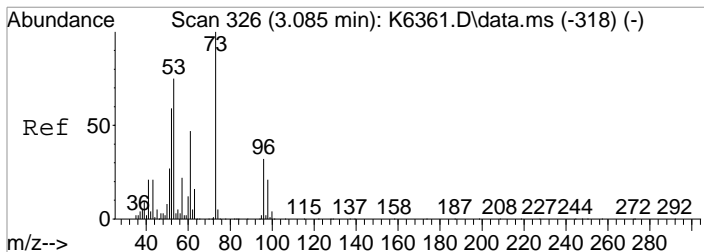
Tgt Ion	Resp	Lower	Upper
101	28816		
101	100		
151	79.1	62.0	102.0



#15
 Acetone
 Concen: 6.33 ppb
 RT: 2.390 min Scan# 212
 Delta R.T. 0.001 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

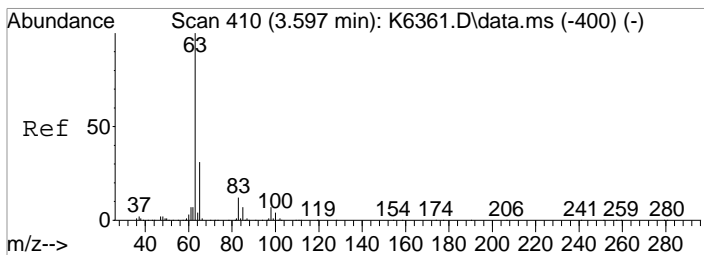
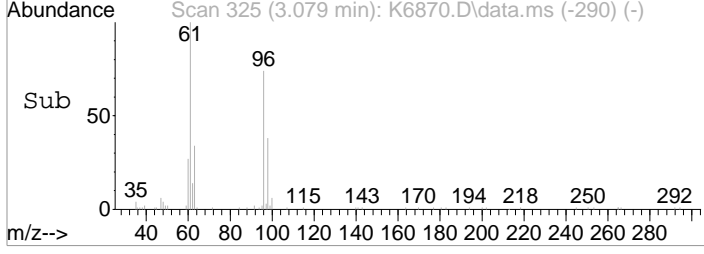
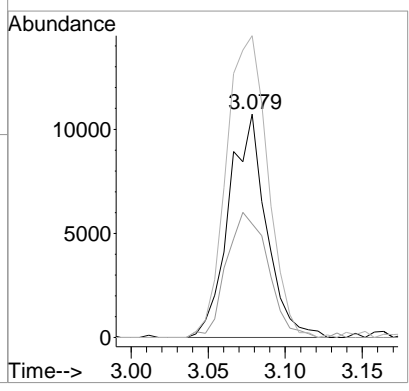
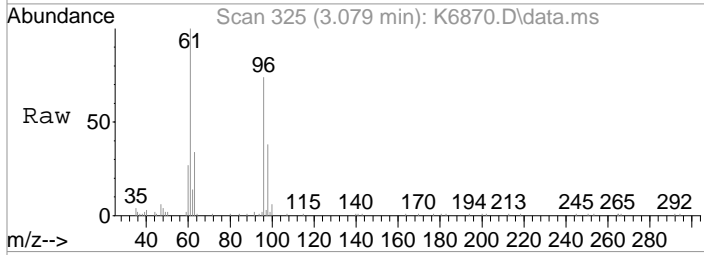
Tgt Ion	Resp	Lower	Upper
43	16302		
43	100		
58	30.0	9.6	49.6
42	9.7	0.0	27.7





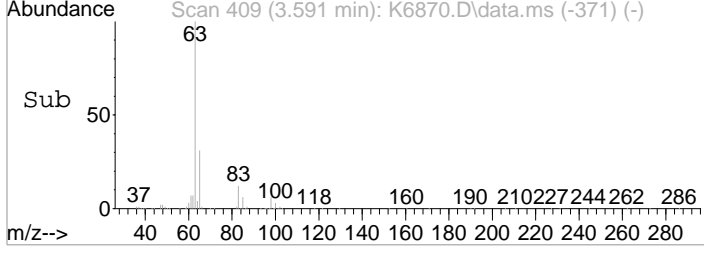
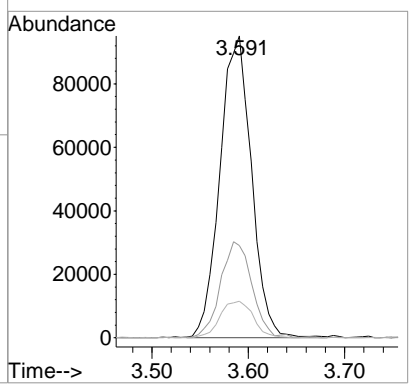
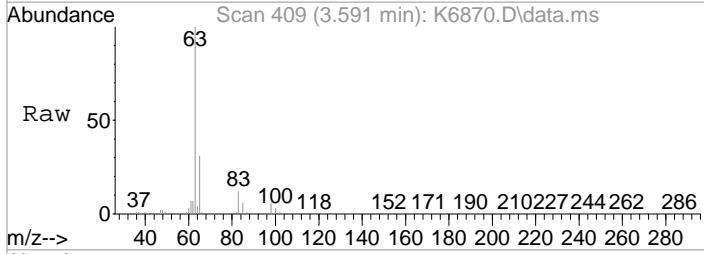
#26
 trans-1,2-Dichloroethene
 Concen: 4.99 ppb
 RT: 3.079 min Scan# 325
 Delta R.T. 0.006 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

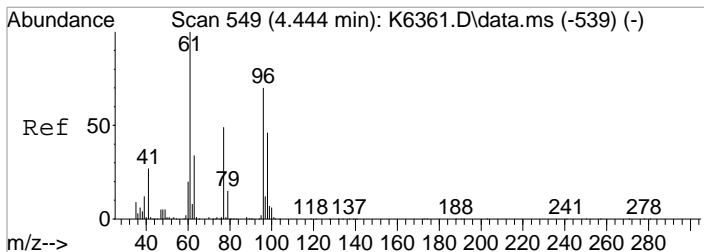
Tgt Ion	Resp	Lower	Upper
96	18240		
96	100		
98	50.8	44.1	84.1
61	135.1	127.9	167.9



#28
 1,1-Dicethane
 Concen: 31.52 ppb
 RT: 3.591 min Scan# 409
 Delta R.T. 0.006 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

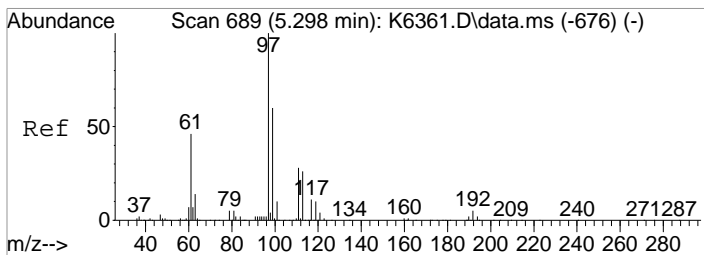
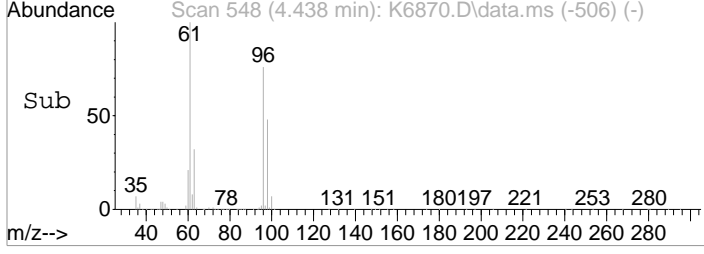
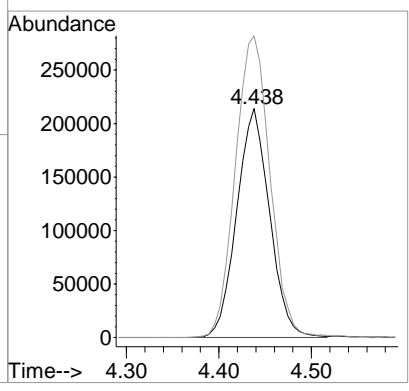
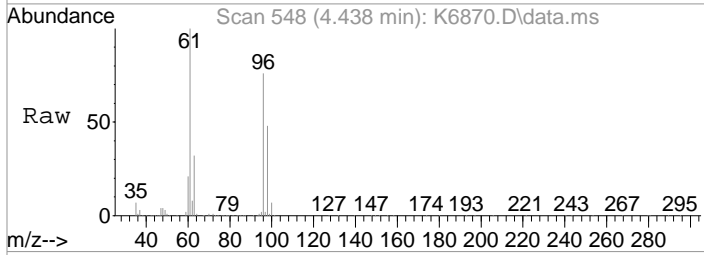
Tgt Ion	Resp	Lower	Upper
63	216610		
63	100		
65	30.5	10.8	50.8
83	12.1	0.0	32.3





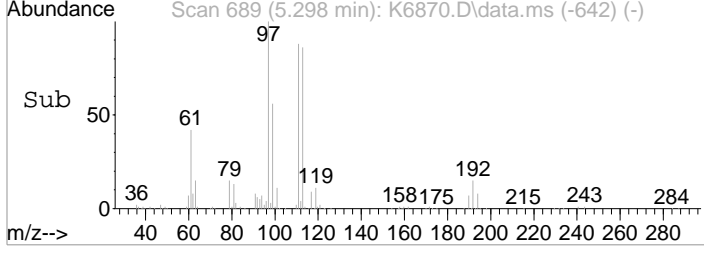
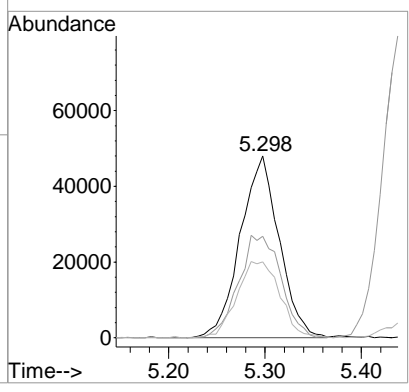
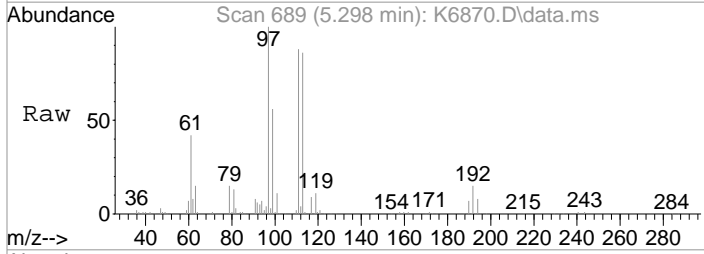
#34
cis-1,2-Dichloroethene
Concen: 125.48 ppb
RT: 4.438 min Scan# 548
Delta R.T. -0.000 min
Lab File: K6870.D
Acq: 20 Sep 2021 4:49 pm

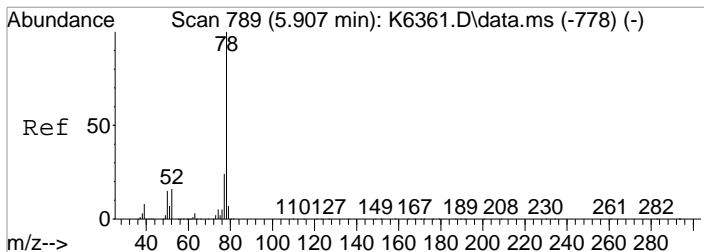
Tgt Ion	Resp	Lower	Upper
96	528045		
96	100		
61	131.8	125.2	165.2



#41
1,1,1-Trichloroethane
Concen: 24.49 ppb
RT: 5.298 min Scan# 689
Delta R.T. 0.006 min
Lab File: K6870.D
Acq: 20 Sep 2021 4:49 pm

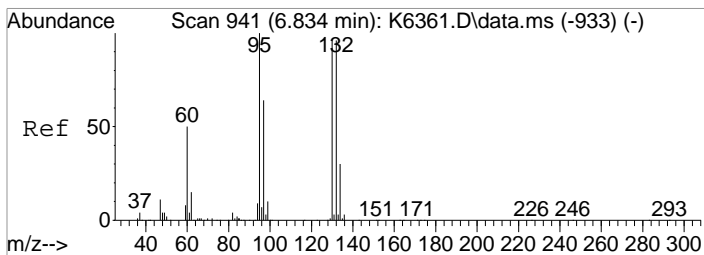
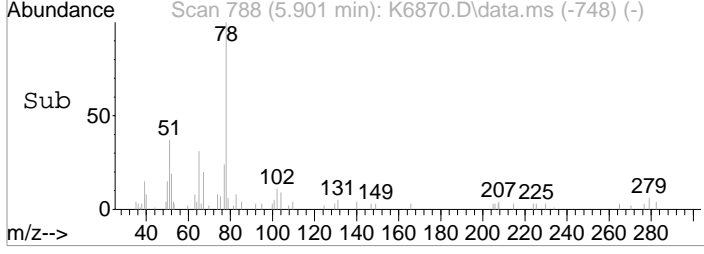
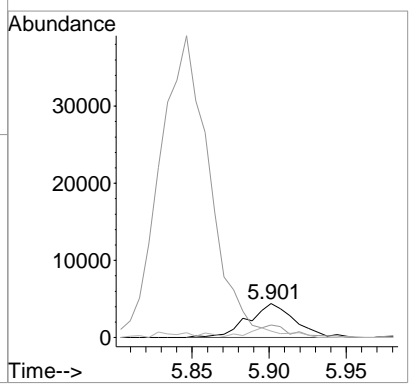
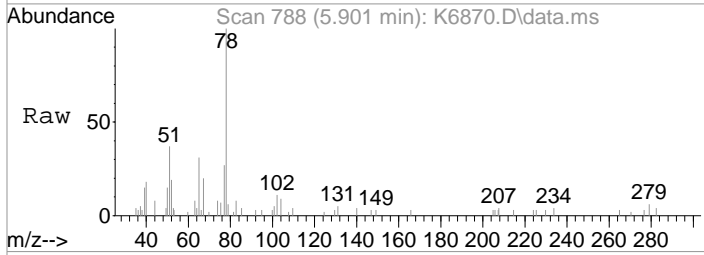
Tgt Ion	Resp	Lower	Upper
97	134641		
97	100		
99	55.9	40.3	80.3
61	41.8	26.2	66.2





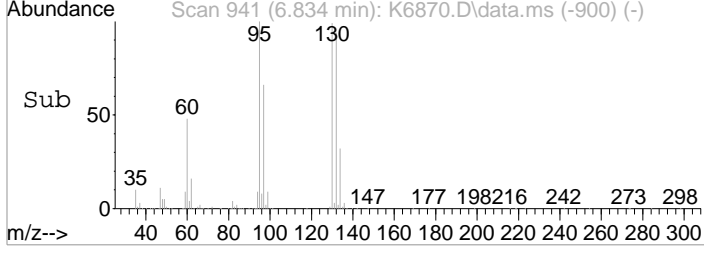
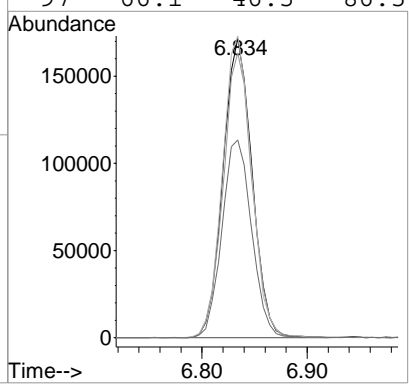
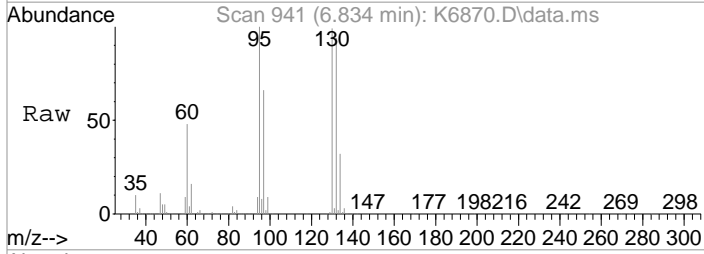
#49
 Benzene
 Concen: 0.55 ppb
 RT: 5.901 min Scan# 788
 Delta R.T. -0.000 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

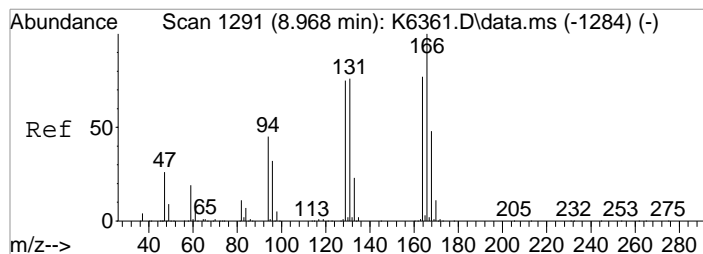
Tgt Ion	Resp	Lower	Upper
78	100		
51	36.8	0.0	35.9#
52	22.4	0.0	36.2



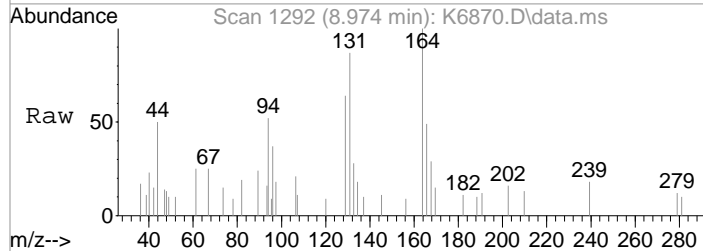
#54
 Trichloroethene
 Concen: 80.37 ppb
 RT: 6.834 min Scan# 941
 Delta R.T. -0.000 min
 Lab File: K6870.D
 Acq: 20 Sep 2021 4:49 pm

Tgt Ion	Resp	Lower	Upper
130	100		
132	95.2	79.7	119.7
95	100.9	83.8	123.8
97	66.1	46.5	86.5

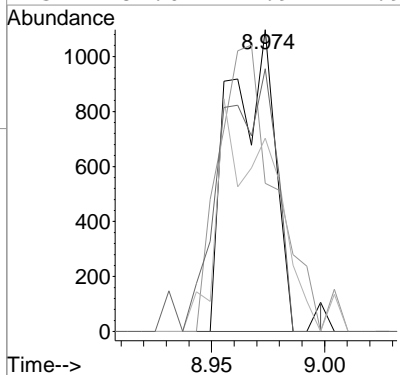
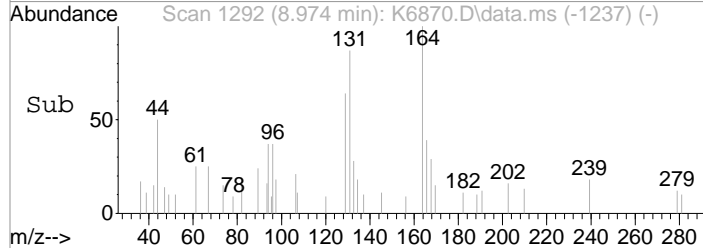




#72
Tetrachloroethene
Concen: 0.52 ppb m
RT: 8.974 min Scan# 1292
Delta R.T. 0.006 min
Lab File: K6870.D
Acq: 20 Sep 2021 4:49 pm

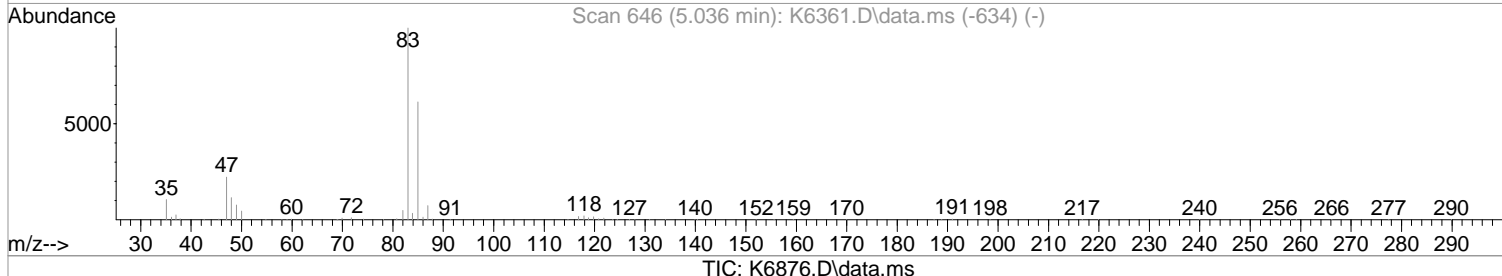
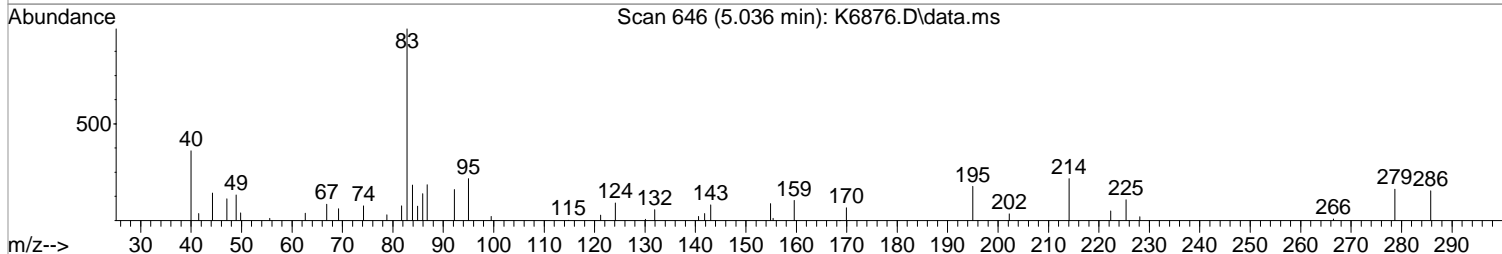
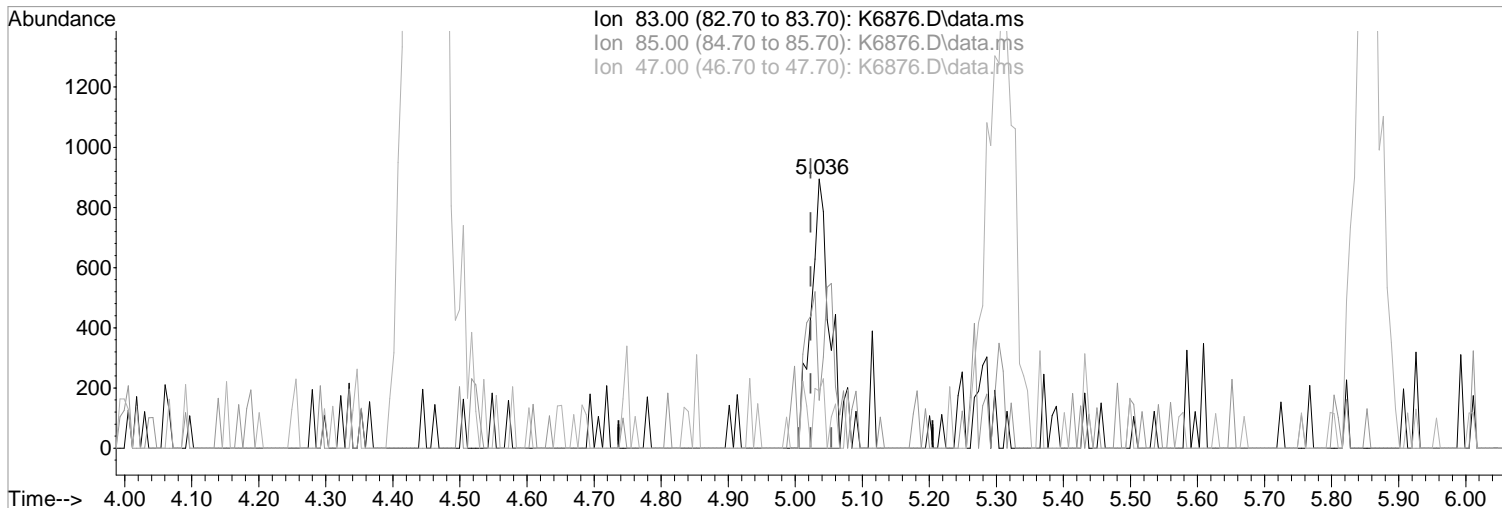


Tgt Ion	Resp	Lower	Upper
164	100		
166	49.1	109.5	149.5#
129	64.0	77.6	117.6#
131	87.0	77.9	117.9



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6876.D
Acq On : 20 Sep 2021 6:59 pm
Operator : K.Ruest
Sample : R2109484-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 21 09:59:36 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(40) Chloroform (P)

5.036min (+0.013) -0.25 ppb m

response 1643

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	17.79#
47.00	22.10	21.25
0.00	0.00	0.00

Manual Integration:

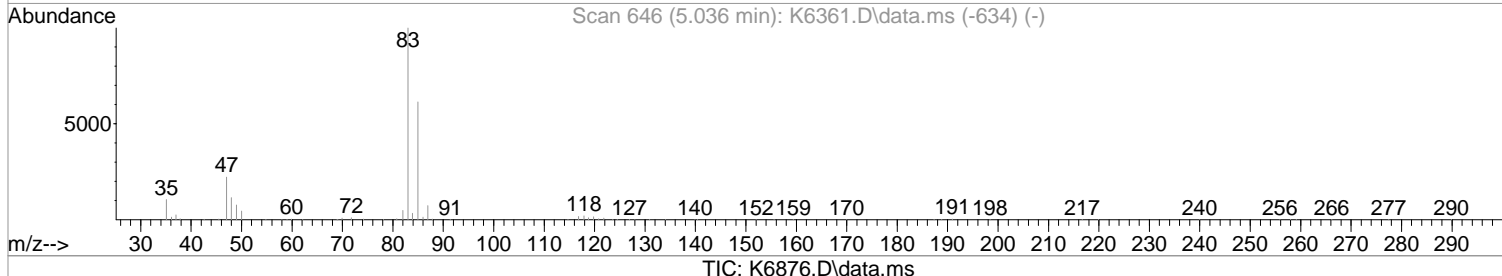
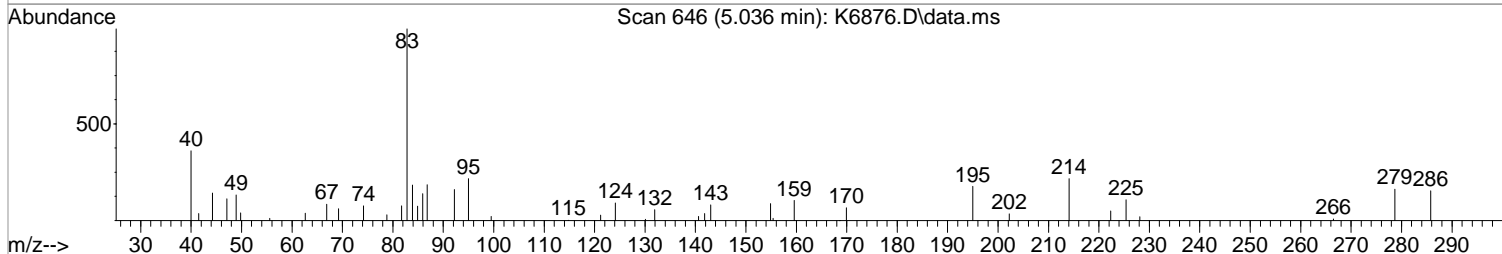
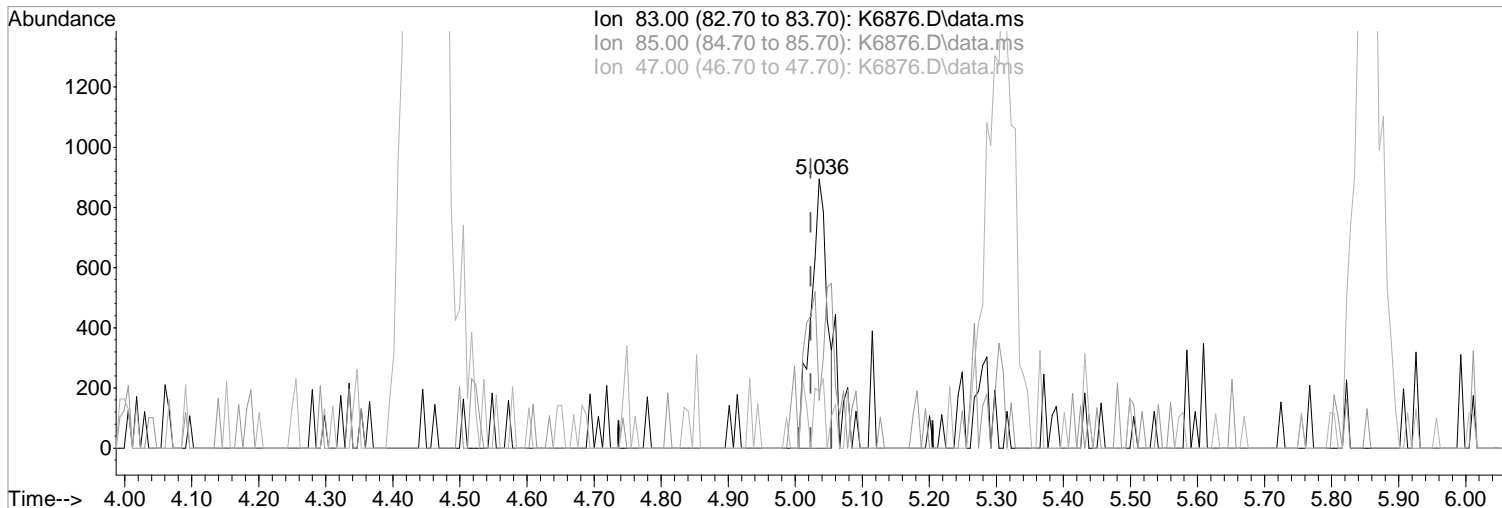
After

Poor integration.

09/21/21

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
Data File : K6876.D
Acq On : 20 Sep 2021 6:59 pm
Operator : K.Ruest
Sample : R2109484-012|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 21 09:59:36 2021
Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(40) Chloroform (P)

5.036min (+0.013) -0.28 ppb

response 1480

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	17.79#
47.00	22.10	21.25
0.00	0.00	0.00

Manual Integration:

Before

09/21/21

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
 Data File : K6876.D
 Acq On : 20 Sep 2021 6:59 pm
 Operator : K.Ruest
 Sample : R2109484-012|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 21 14:29:23 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

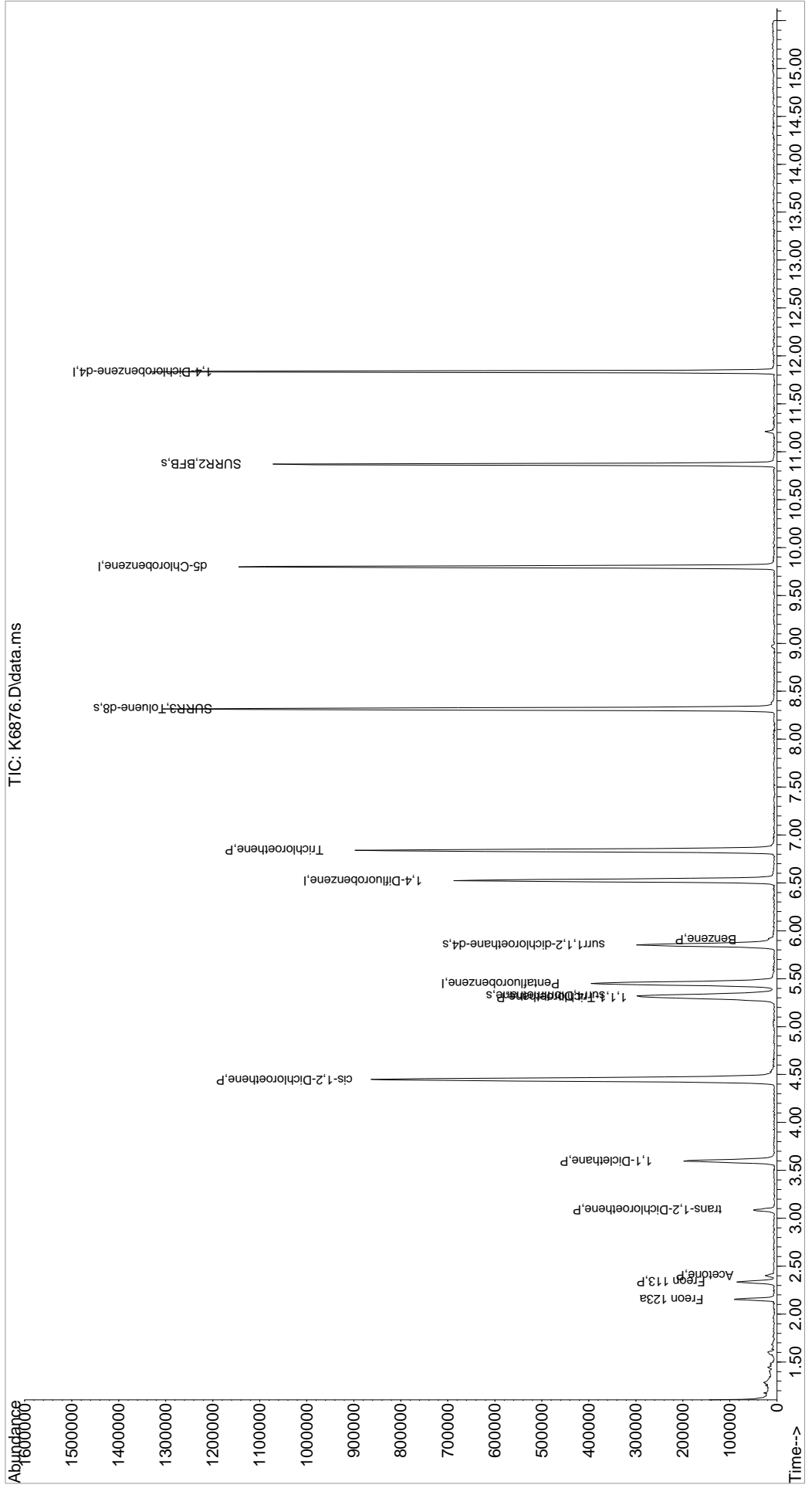
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.450	168	342518	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	584760	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	509733	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	244837	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.322	113	174037	54.67	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery	=	109.34%		
48) surr1,1,2-dichloroetha...	5.853	65	251097	54.25	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.50%		
65) SURR3,Toluene-d8	8.315	98	796890	53.26	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	106.52%		
70) SURR2,BFB	10.870	95	300935	50.67	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	101.34%		
Target Compounds							
							Qvalue
10) Freon 123a	2.158	67	35428	8.07	ppb		95
14) Freon 113	2.335	101	29110	8.95	ppb		97
15) Acetone	2.402	43	17216	6.82	ppb		92
26) trans-1,2-Dichloroethene	3.085	96	16750	4.60	ppb		95
28) 1,1-Dicethane	3.597	63	207115	30.21	ppb		98
34) cis-1,2-Dichloroethene	4.444	96	497410	118.49	ppb		92
40) Chloroform	5.036	83	1643m	Below	Cal		
41) 1,1,1-Trichloroethane	5.304	97	131370	23.95	ppb		97
49) Benzene	5.907	78	9867	0.60	ppb		90
54) Trichloroethene	6.840	130	306707	74.53	ppb		97

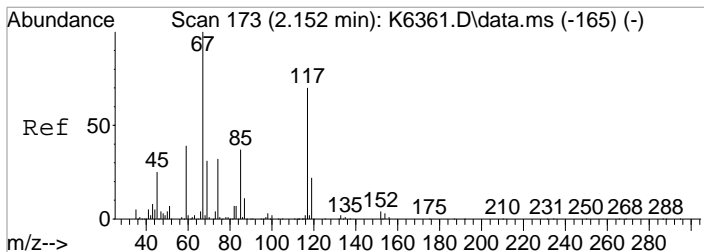
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092021\
Data File : K6876.D
Acq On : 20 Sep 2021 6:59 pm
Operator : K.Ruest
Sample : R2109484-012|1.0
Misc : VERINA 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

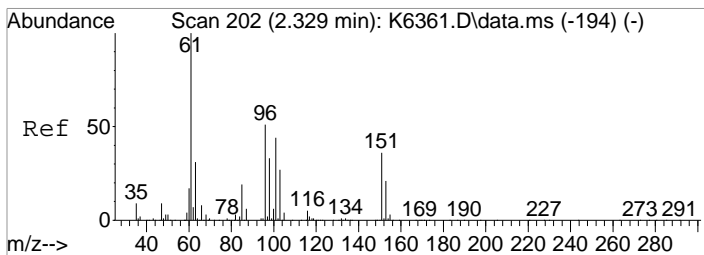
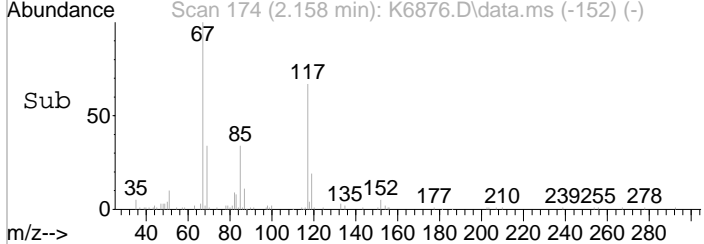
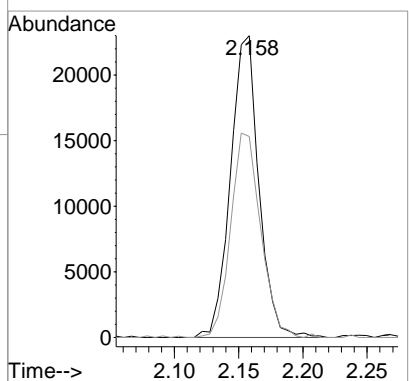
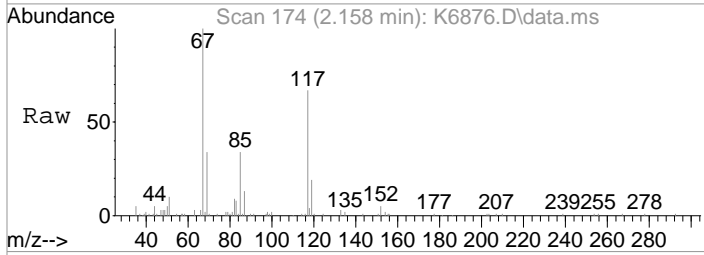
Quant Time: Sep 21 14:29:23 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration





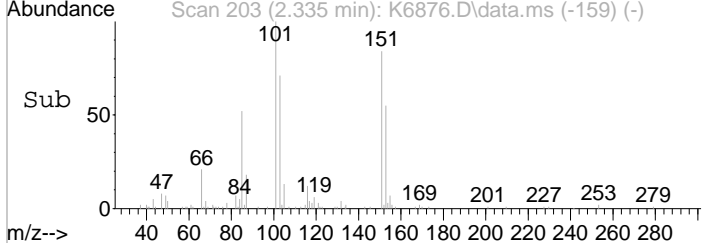
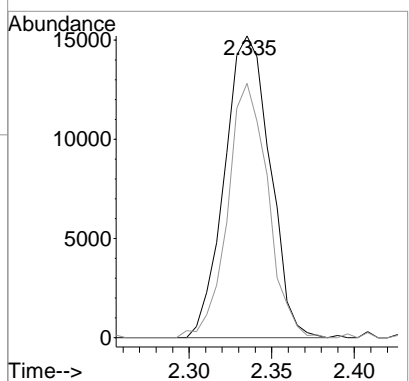
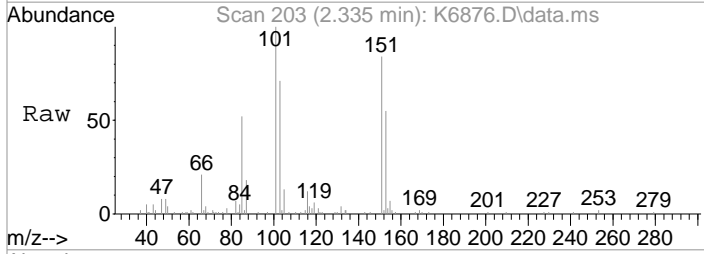
#10
 Freon 123a
 Concen: 8.07 ppb
 RT: 2.158 min Scan# 174
 Delta R.T. 0.018 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

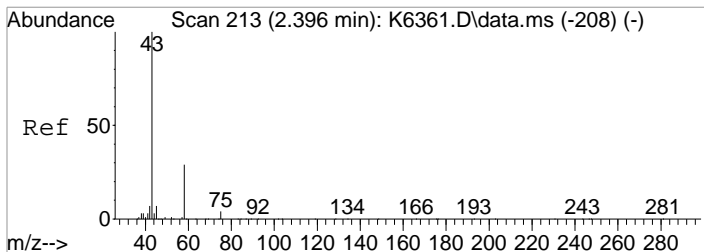
Tgt Ion	Resp	Lower	Upper
67	35428		
117	66.5	50.5	90.5



#14
 Freon 113
 Concen: 8.95 ppb
 RT: 2.335 min Scan# 203
 Delta R.T. 0.012 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

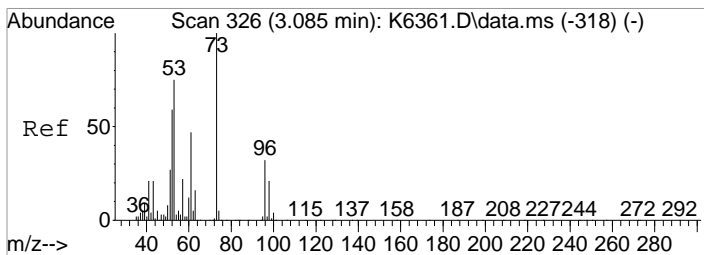
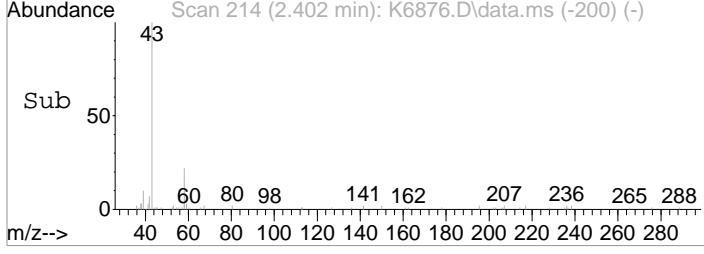
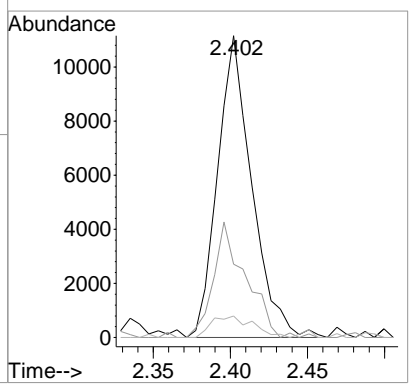
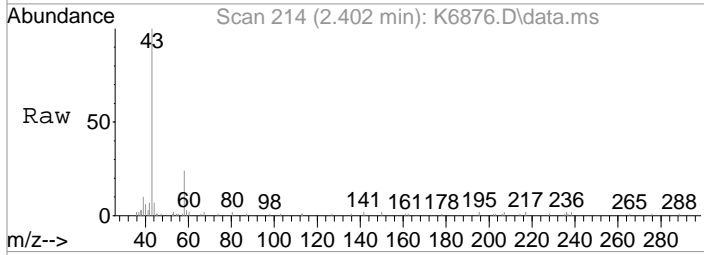
Tgt Ion	Resp	Lower	Upper
101	29110		
151	84.3	62.0	102.0





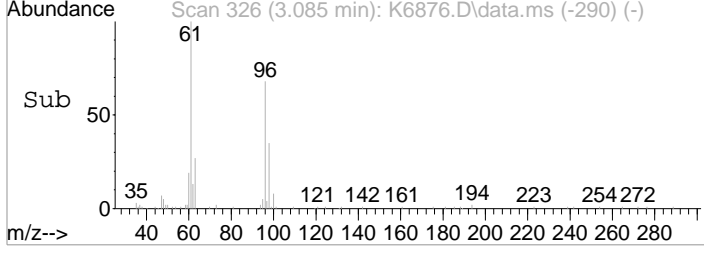
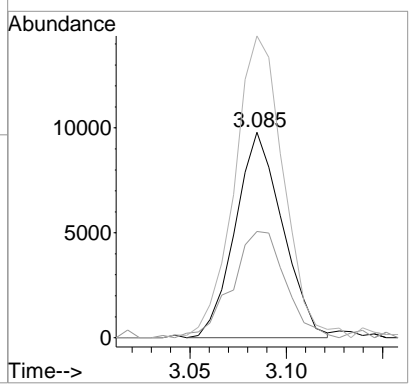
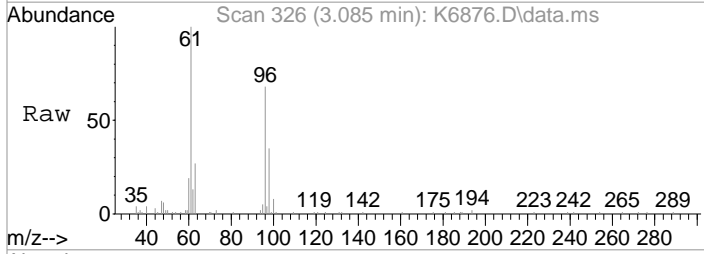
#15
 Acetone
 Concen: 6.82 ppb
 RT: 2.402 min Scan# 214
 Delta R.T. 0.013 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

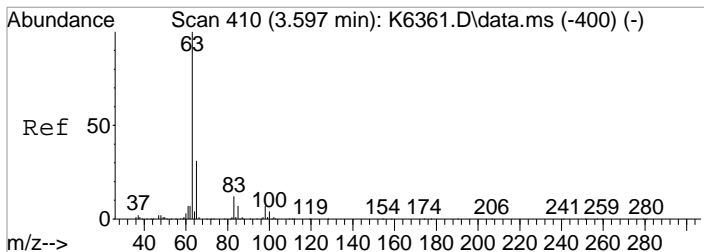
Tgt Ion	Resp	Lower	Upper
43	17216		
58	24.3	9.6	49.6
42	7.2	0.0	27.7



#26
 trans-1,2-Dichloroethene
 Concen: 4.60 ppb
 RT: 3.085 min Scan# 326
 Delta R.T. 0.012 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

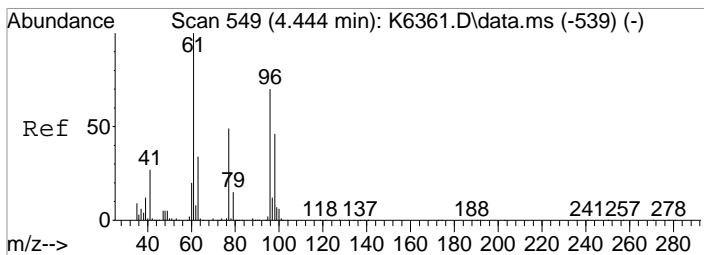
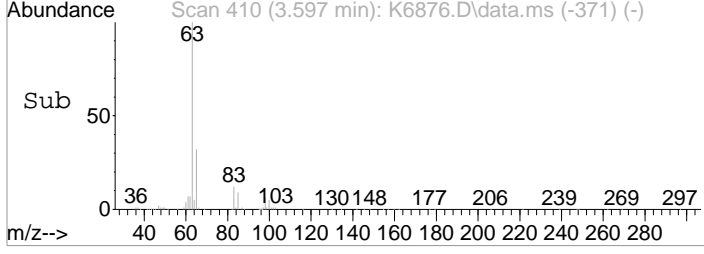
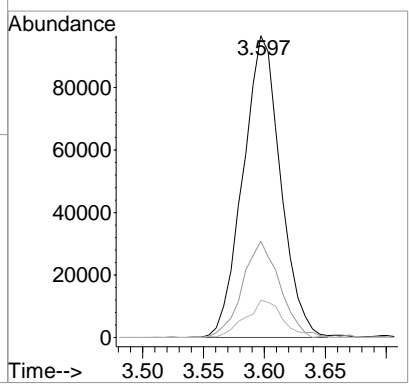
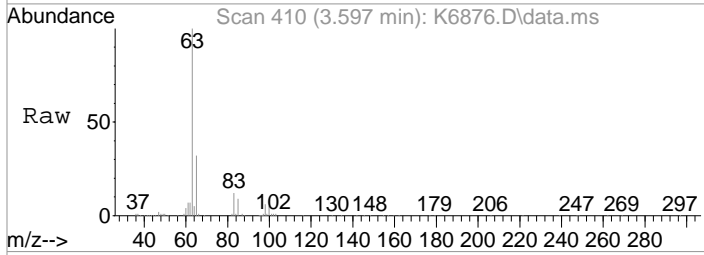
Tgt Ion	Resp	Lower	Upper
96	16750		
98	51.8	44.1	84.1
61	146.9	127.9	167.9





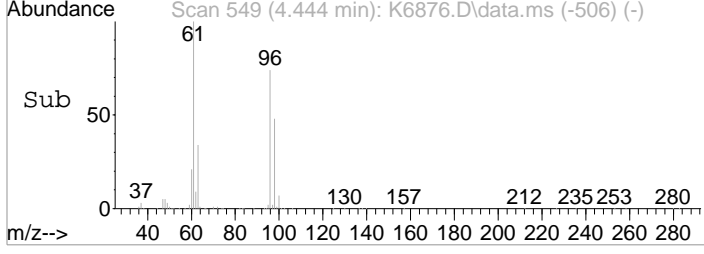
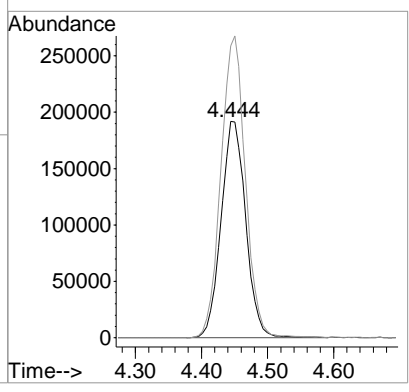
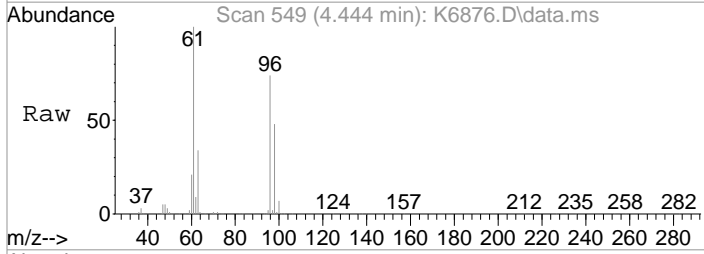
#28
 1,1-Dicloroethane
 Concen: 30.21 ppb
 RT: 3.597 min Scan# 410
 Delta R.T. 0.012 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

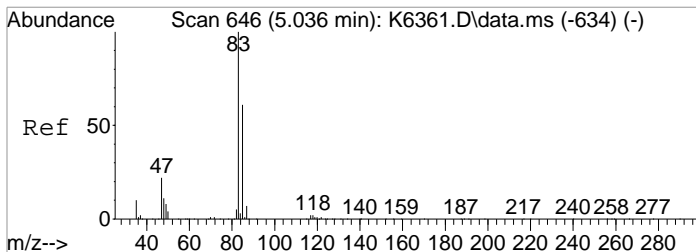
Tgt Ion	Resp	Lower	Upper
63	100		
65	32.0	10.8	50.8
83	12.3	0.0	32.3



#34
 cis-1,2-Dichloroethene
 Concen: 118.49 ppb
 RT: 4.444 min Scan# 549
 Delta R.T. 0.006 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

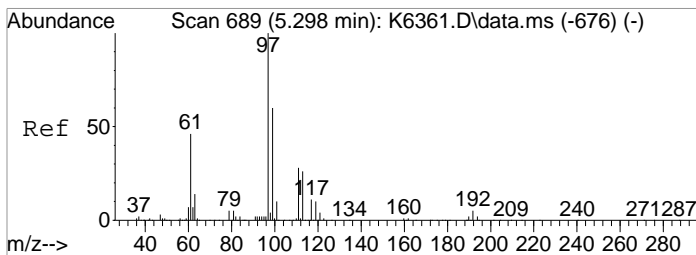
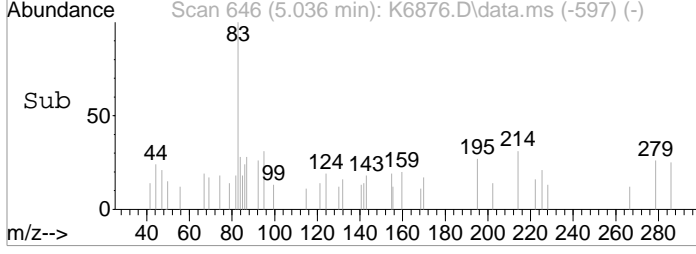
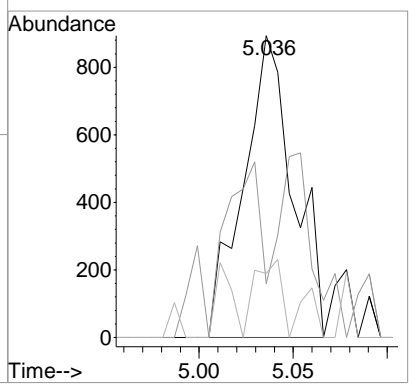
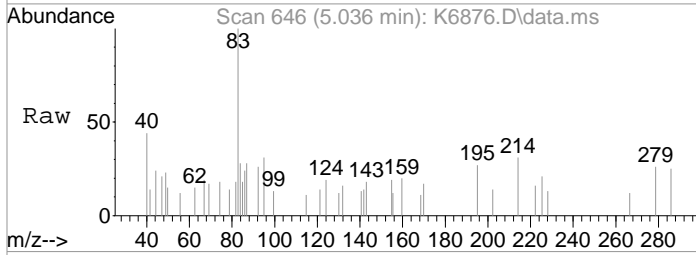
Tgt Ion	Resp	Lower	Upper
96	100		
61	135.0	125.2	165.2





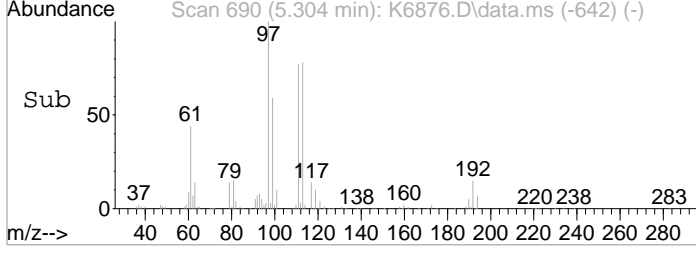
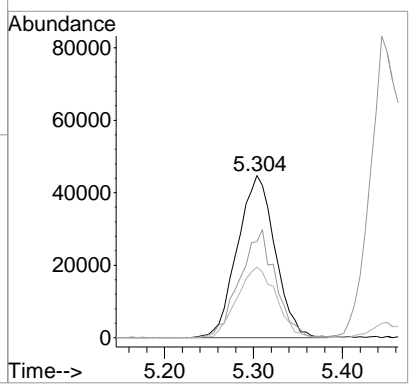
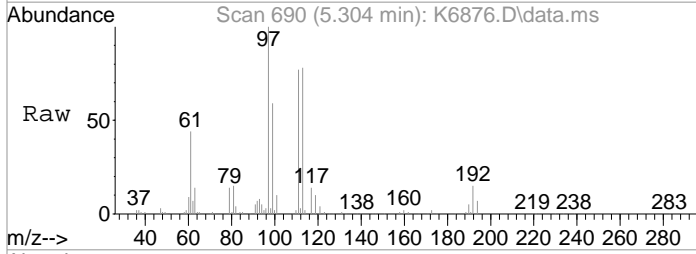
#40
 Chloroform
 Concen: Below Cal m
 RT: 5.036 min Scan# 646
 Delta R.T. 0.013 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

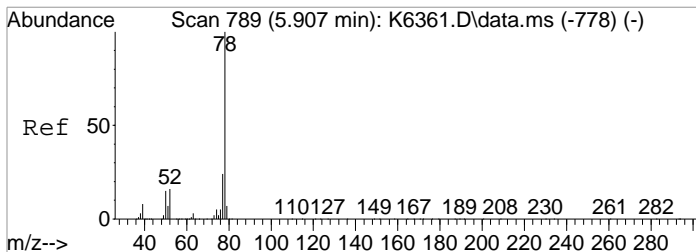
Tgt Ion	83	Resp	1643
Ion Ratio	Lower	Upper	
83	100		
85	17.8	41.5	81.5#
47	21.3	2.1	42.1



#41
 1,1,1-Trichloroethane
 Concen: 23.95 ppb
 RT: 5.304 min Scan# 690
 Delta R.T. 0.012 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

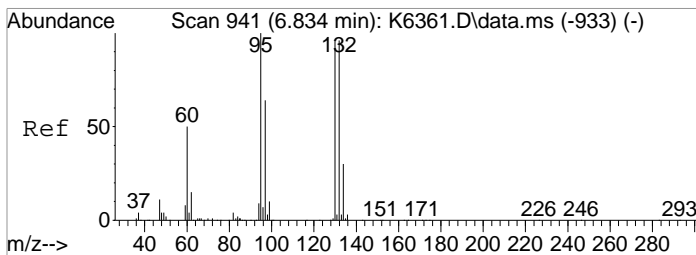
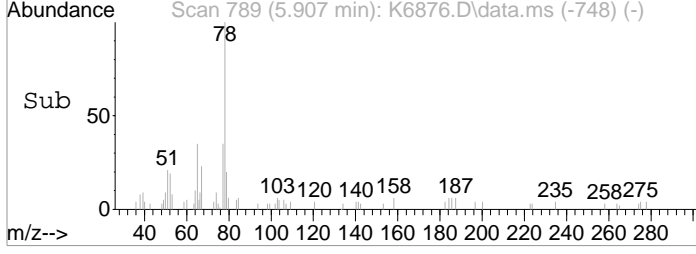
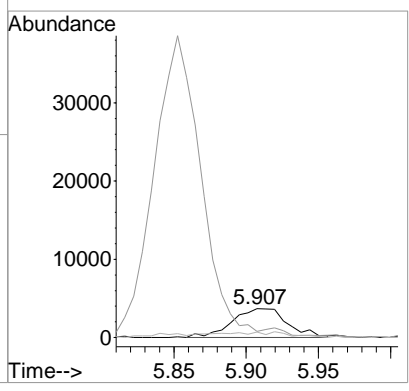
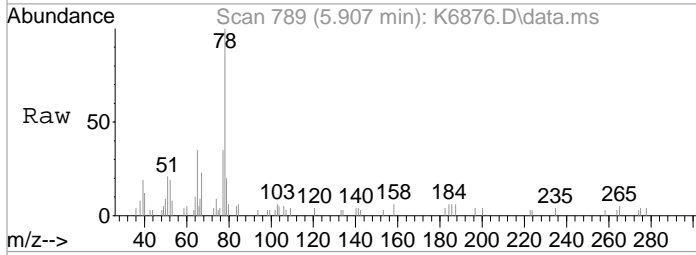
Tgt Ion	97	Resp	131370
Ion Ratio	Lower	Upper	
97	100		
99	59.2	40.3	80.3
61	43.5	26.2	66.2





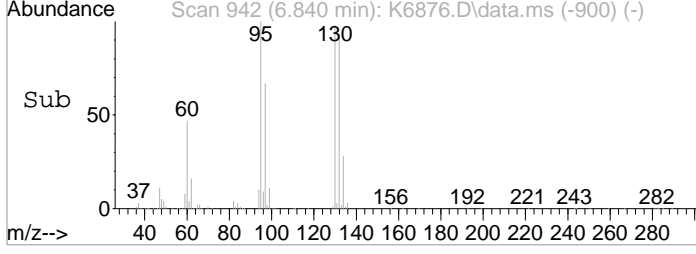
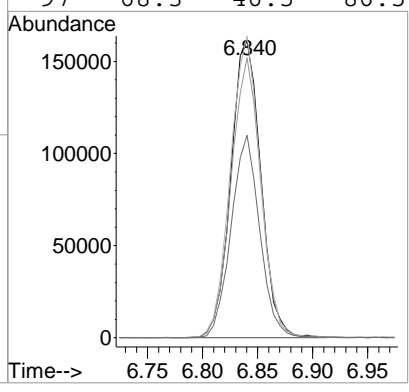
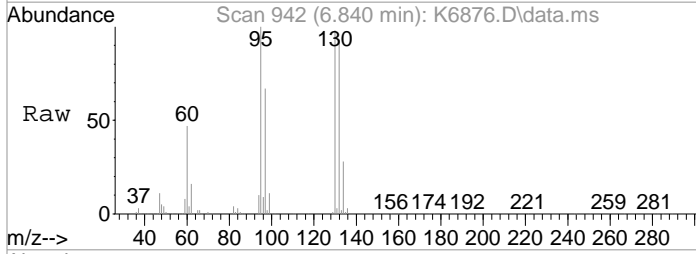
#49
 Benzene
 Concen: 0.60 ppb
 RT: 5.907 min Scan# 789
 Delta R.T. 0.006 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

Tgt Ion	Resp	Lower	Upper
78	100		
51	21.4	0.0	35.9
52	19.4	0.0	36.2



#54
 Trichloroethene
 Concen: 74.53 ppb
 RT: 6.840 min Scan# 942
 Delta R.T. 0.006 min
 Lab File: K6876.D
 Acq: 20 Sep 2021 6:59 pm

Tgt Ion	Resp	Lower	Upper
130	100		
132	94.4	79.7	119.7
95	101.8	83.8	123.8
97	68.3	46.5	86.5



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6858.D
 Acq On : 20 Sep 2021 12:28 pm
 Operator : K.Ruest
 Sample : MBLK-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 14:42:11 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

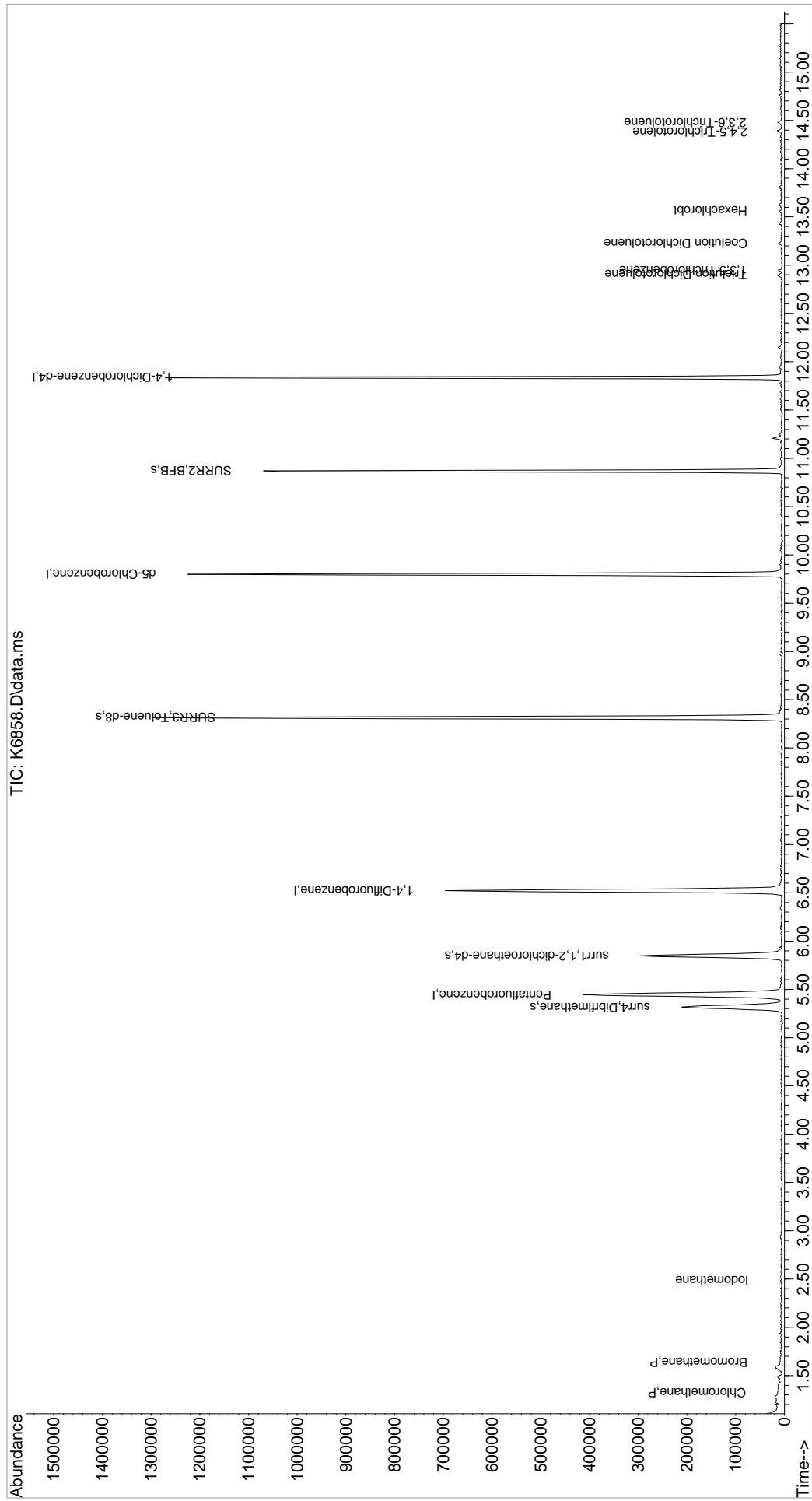
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	354067	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	581553	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	527405	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	245599	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	170049	53.71	ppb	0.00
Spiked Amount	50.000	Range 80 - 116	Recovery	=	107.42%	
48) surr1,1,2-dichloroetha...	5.847	65	250427	54.40	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.80%	
65) SURR3,Toluene-d8	8.316	98	816522	54.87	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	109.74%	
70) SURR2,BFB	10.870	95	310464	52.56	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	105.12%	
Target Compounds						
3) Chloromethane	1.323	50	985	0.24	ppb	Qvalue 93
5) Bromomethane	1.634	94	1266	0.41	ppb	# 73
15) Acetone	2.396	43	1569	Below	Cal	78
17) Iodomethane	2.481	142	1185	1.65	ppb	# 65
112) Trielution Dichlorotol...	12.900	125	3156	0.40	ppb	# 74
113) 1,3,5 Trichlorobenzene	12.943	180	1364	0.22	ppb	# 60
114) Coelution Dichlorotoluene	13.229	125	2006	0.24	ppb	# 74
116) Hexachlorobt	13.565	225	626	0.26	ppb	# 71
119) 2,4,5-Trichlorotoluene	14.382	159	1585	0.37	ppb	# 45
120) 2,3,6-Trichlorotoluene	14.479	159	952	0.24	ppb	# 80

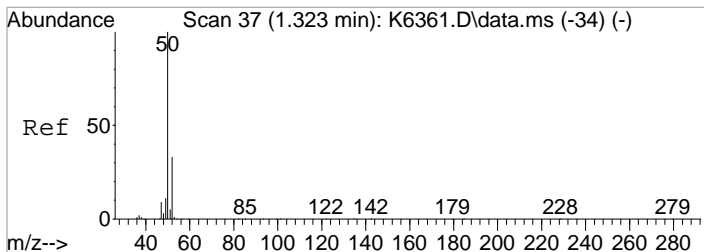
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092021\
 Data File : K6858.D
 Acq On : 20 Sep 2021 12:28 pm
 Operator : K.Ruest
 Sample : BLK-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

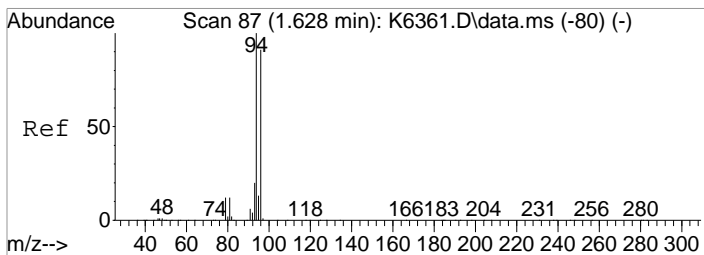
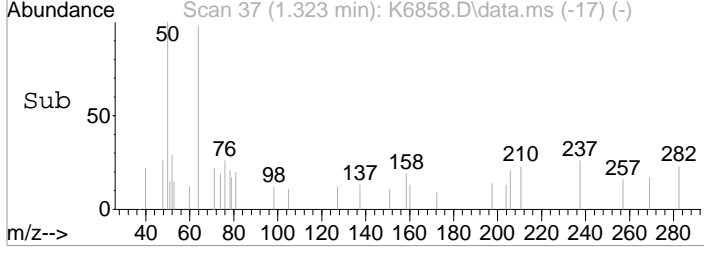
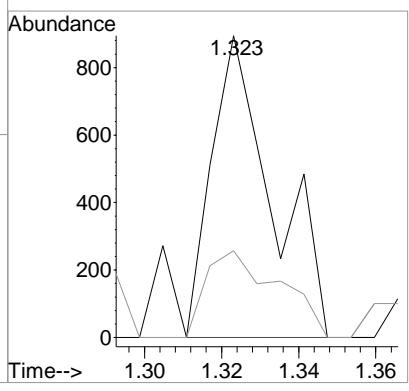
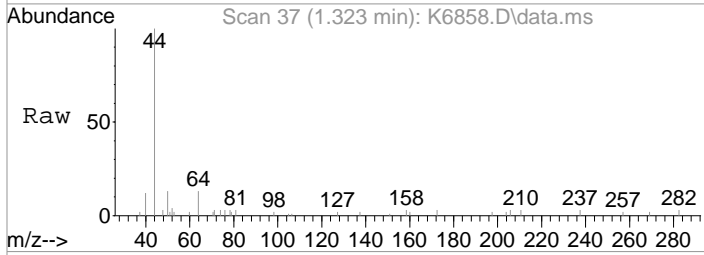
Quant Time: Sep 20 14:42:11 2021
 Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration





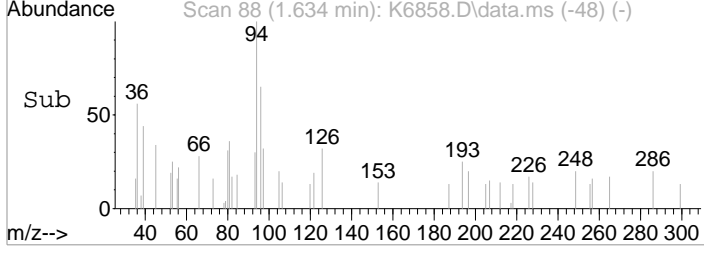
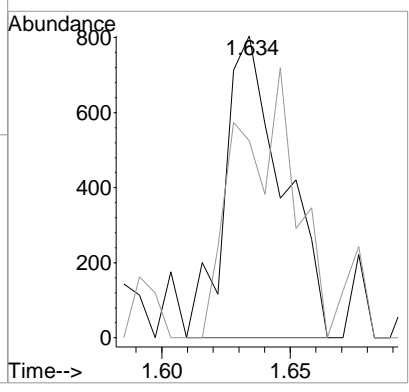
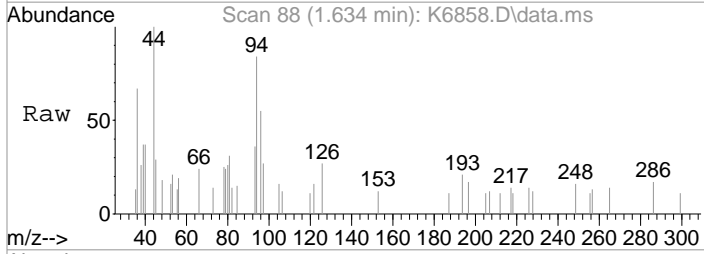
#3
 Chloromethane
 Concen: 0.24 ppb
 RT: 1.323 min Scan# 37
 Delta R.T. 0.006 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

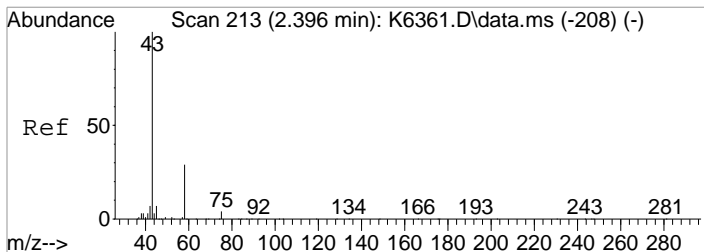
Tgt Ion	Resp	Lower	Upper
50	100		
52	28.7	12.7	52.7



#5
 Bromomethane
 Concen: 0.41 ppb
 RT: 1.634 min Scan# 88
 Delta R.T. 0.018 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

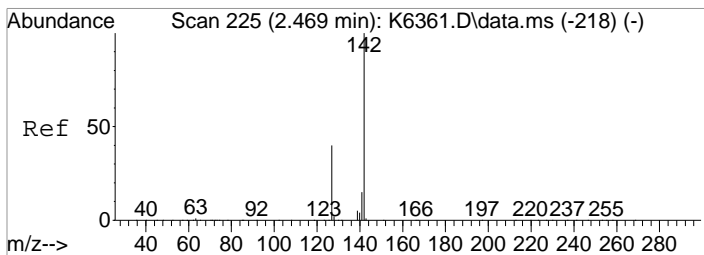
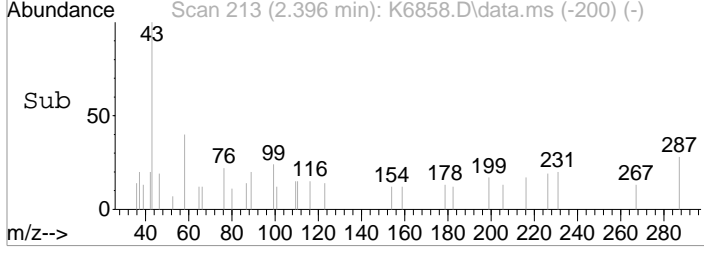
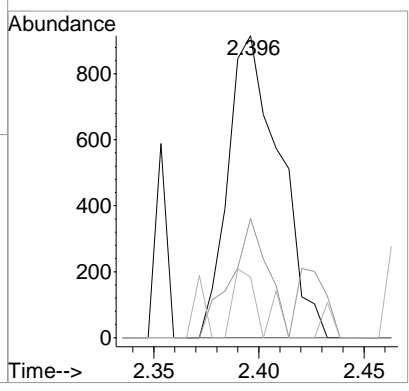
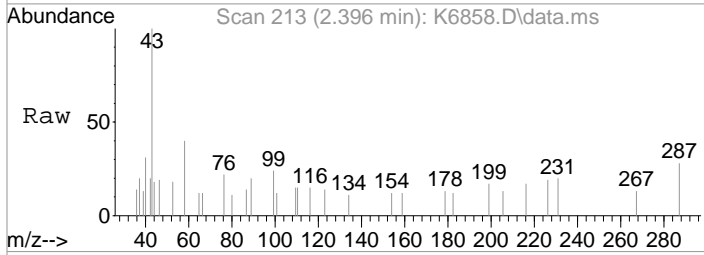
Tgt Ion	Resp	Lower	Upper
94	100		
96	65.2	71.0	111.0#





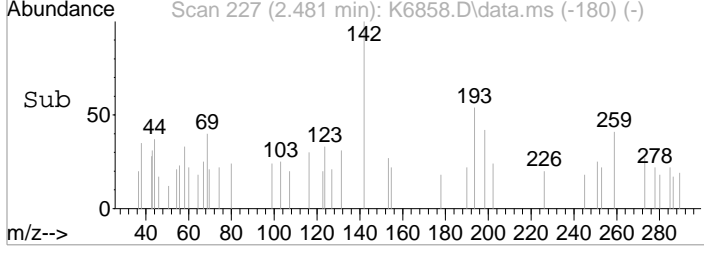
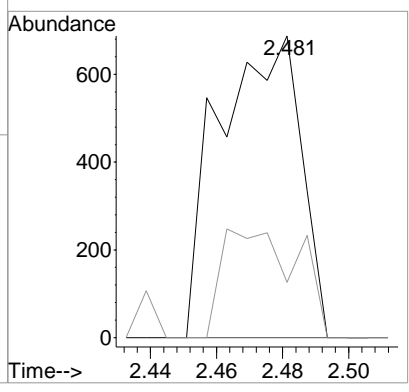
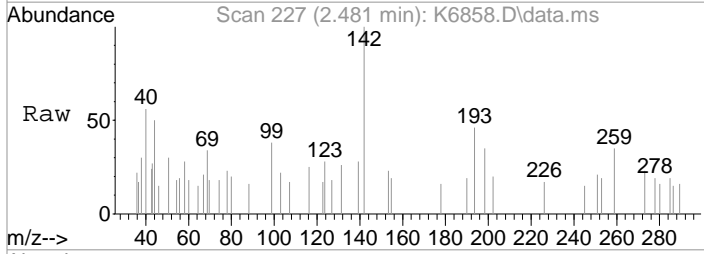
#15
 Acetone
 Concen: Below Cal
 RT: 2.396 min Scan# 213
 Delta R.T. 0.007 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

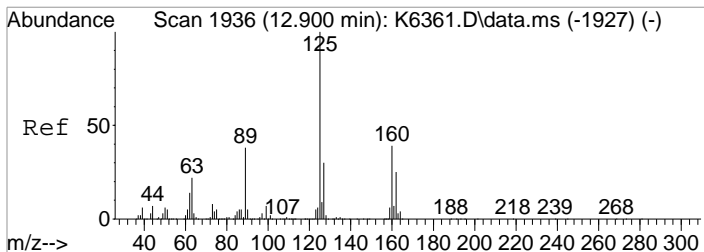
Tgt Ion	Resp	Lower	Upper
43	1569		
58	39.5	9.6	49.6
42	20.1	0.0	27.7



#17
 Iodomethane
 Concen: 1.65 ppb
 RT: 2.481 min Scan# 227
 Delta R.T. 0.025 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

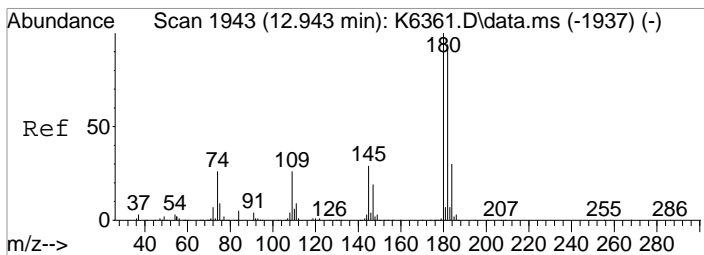
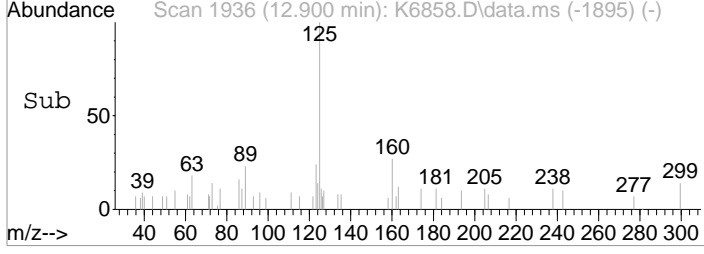
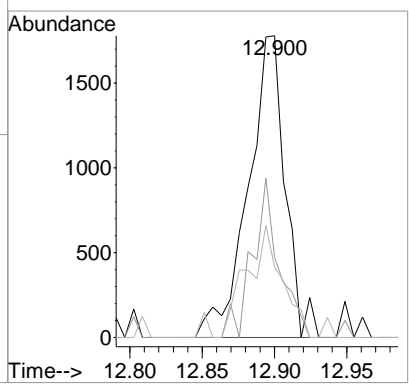
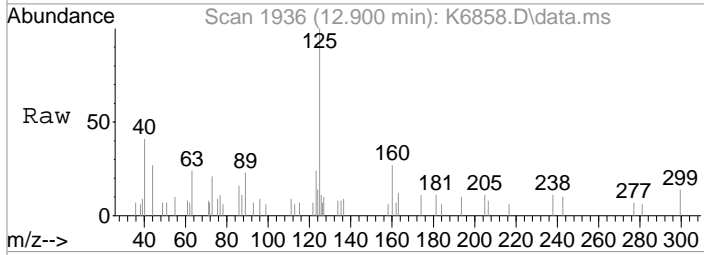
Tgt Ion	Resp	Lower	Upper
142	1185		
127	18.3	19.6	59.6#





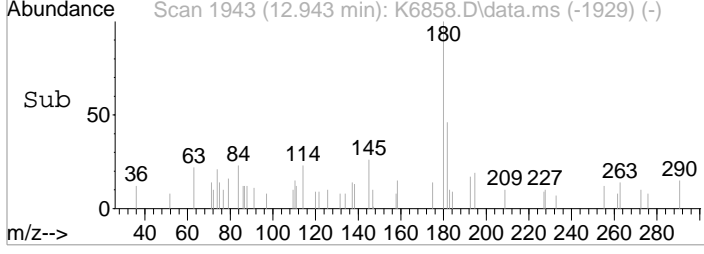
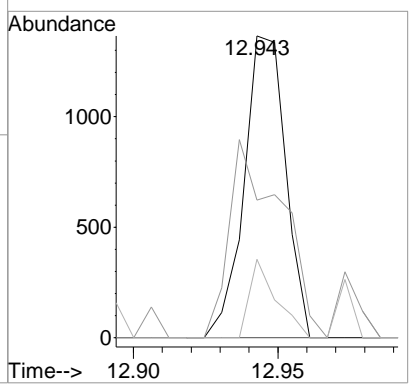
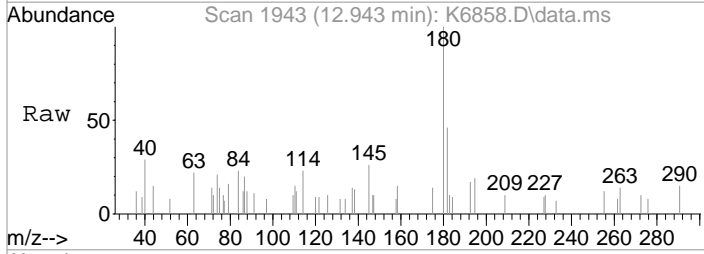
#112
 Trielution Dichlorotoluene
 Concen: 0.40 ppb
 RT: 12.900 min Scan# 1936
 Delta R.T. 0.000 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

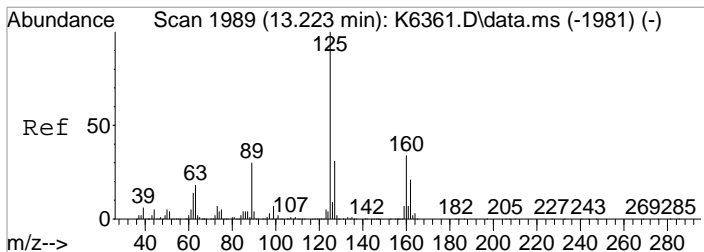
Tgt Ion	Resp	Lower	Upper
125	3156		
160	24.0	31.0	46.4#
89	21.1	30.4	45.6#



#113
 1,3,5 Trichlorobenzene
 Concen: 0.22 ppb
 RT: 12.943 min Scan# 1943
 Delta R.T. -0.006 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

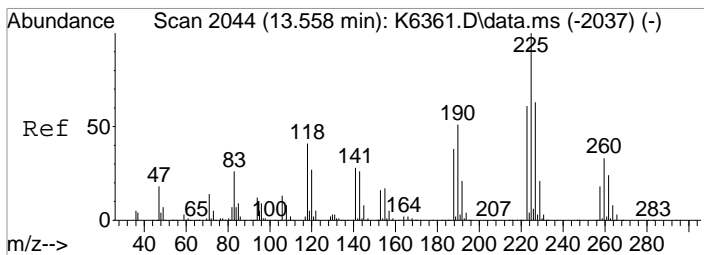
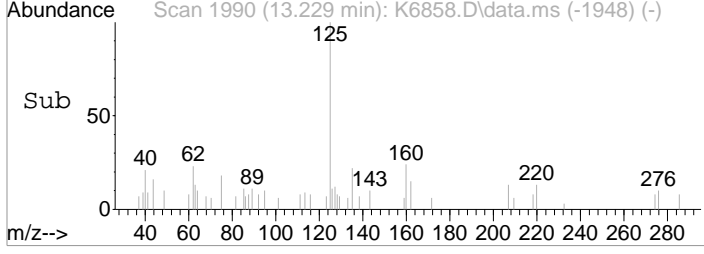
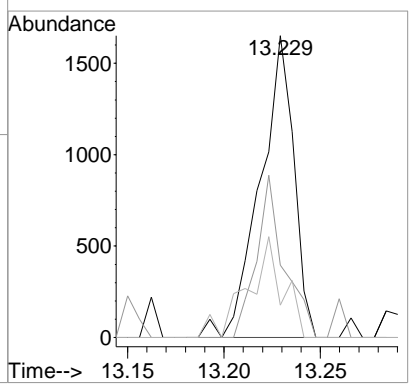
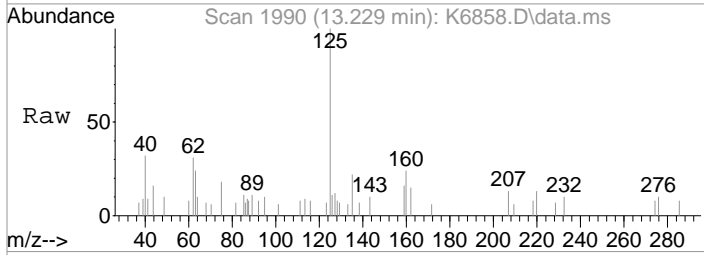
Tgt Ion	Resp	Lower	Upper
180	1364		
182	45.6	75.4	113.2#
145	26.0	23.5	35.3





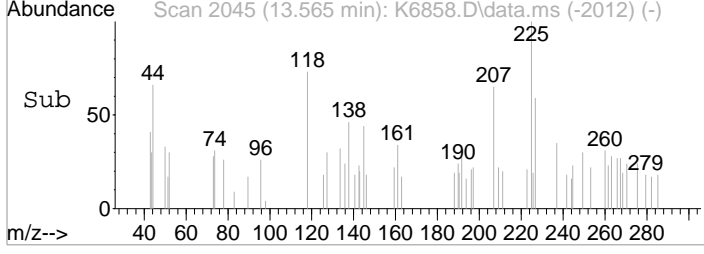
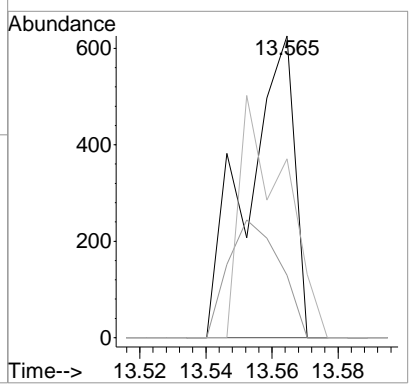
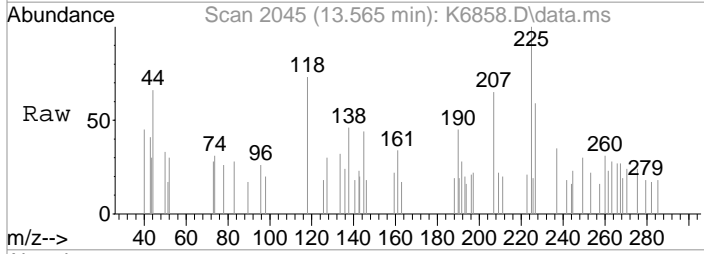
#114
 Coelution Dichlorotoluene
 Concen: 0.24 ppb
 RT: 13.229 min Scan# 1990
 Delta R.T. 0.006 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

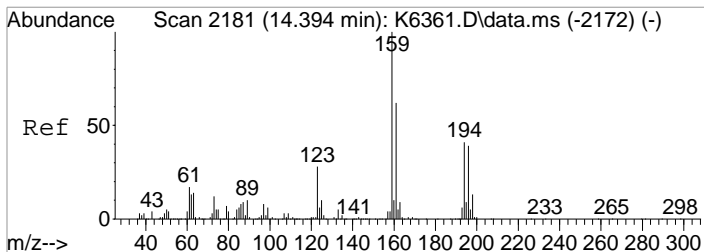
Tgt Ion	Resp	Lower	Upper
125	100		
160	23.9	27.5	41.3#
89	10.7	23.9	35.9#



#116
 Hexachlorobt
 Concen: 0.26 ppb
 RT: 13.565 min Scan# 2045
 Delta R.T. 0.006 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

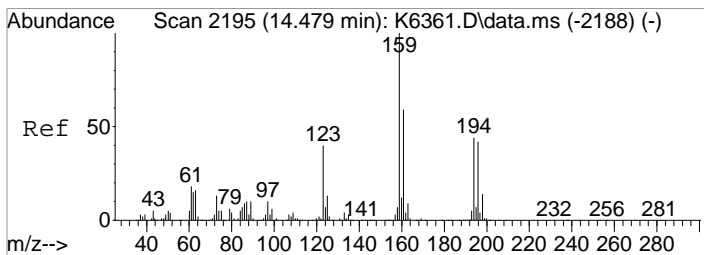
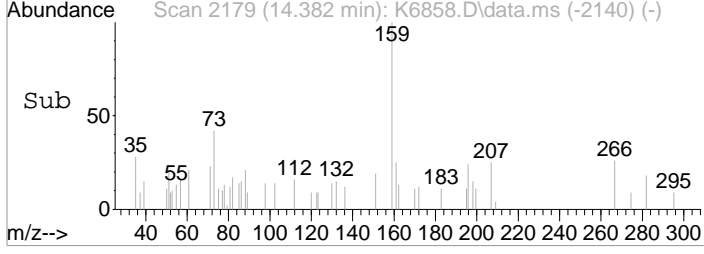
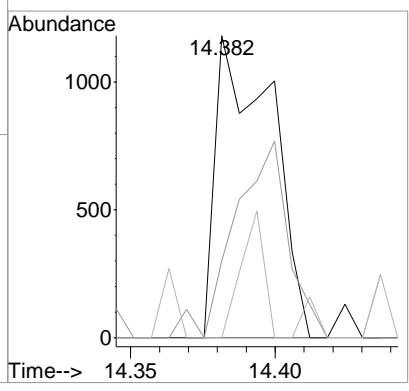
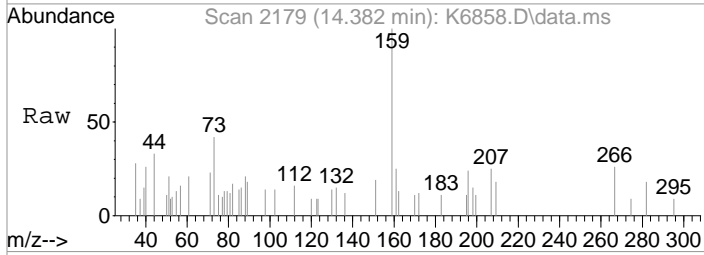
Tgt Ion	Resp	Lower	Upper
225	100		
223	20.6	41.3	81.3#
227	59.3	43.2	83.2





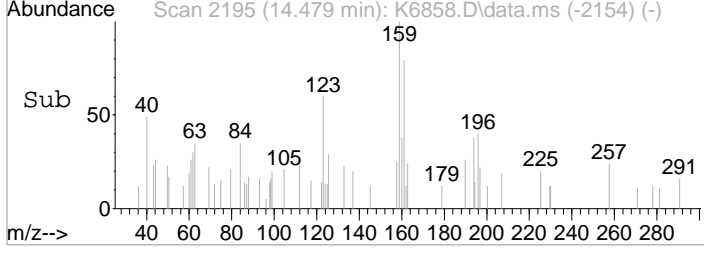
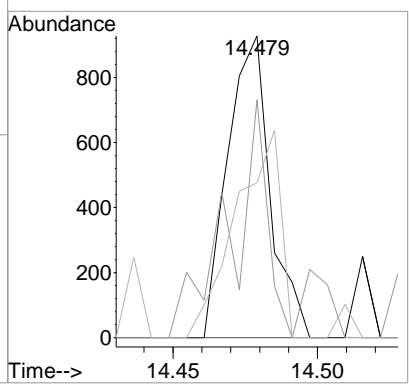
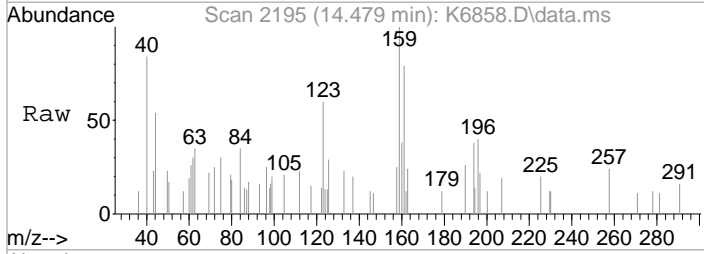
#119
 2,4,5-Trichlorotolene
 Concen: 0.37 ppb
 RT: 14.382 min Scan# 2179
 Delta R.T. -0.012 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

Tgt Ion	Resp	Lower	Upper
159	1585		
161	25.4	49.9	74.9#
194	0.0	32.5	48.7#



#120
 2,3,6-Trichlorotoluene
 Concen: 0.24 ppb
 RT: 14.479 min Scan# 2195
 Delta R.T. 0.000 min
 Lab File: K6858.D
 Acq: 20 Sep 2021 12:28 pm

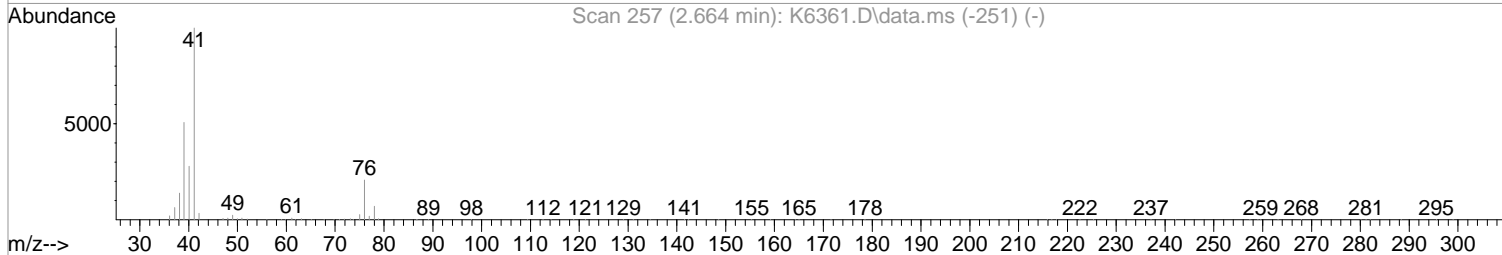
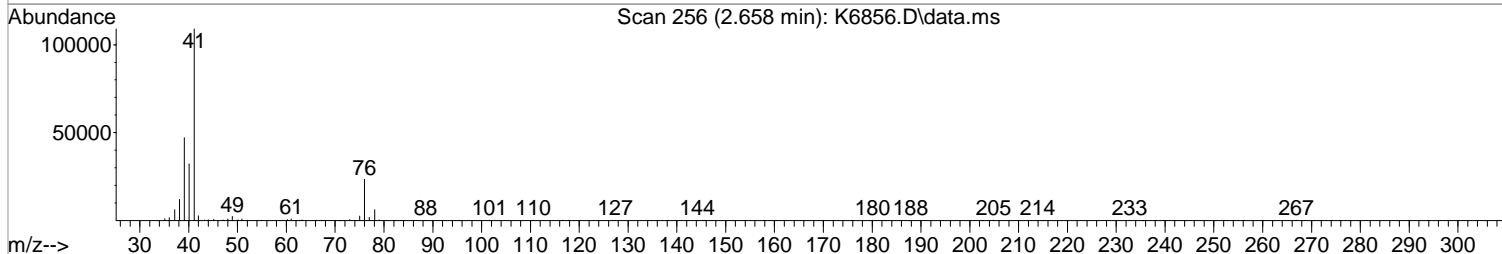
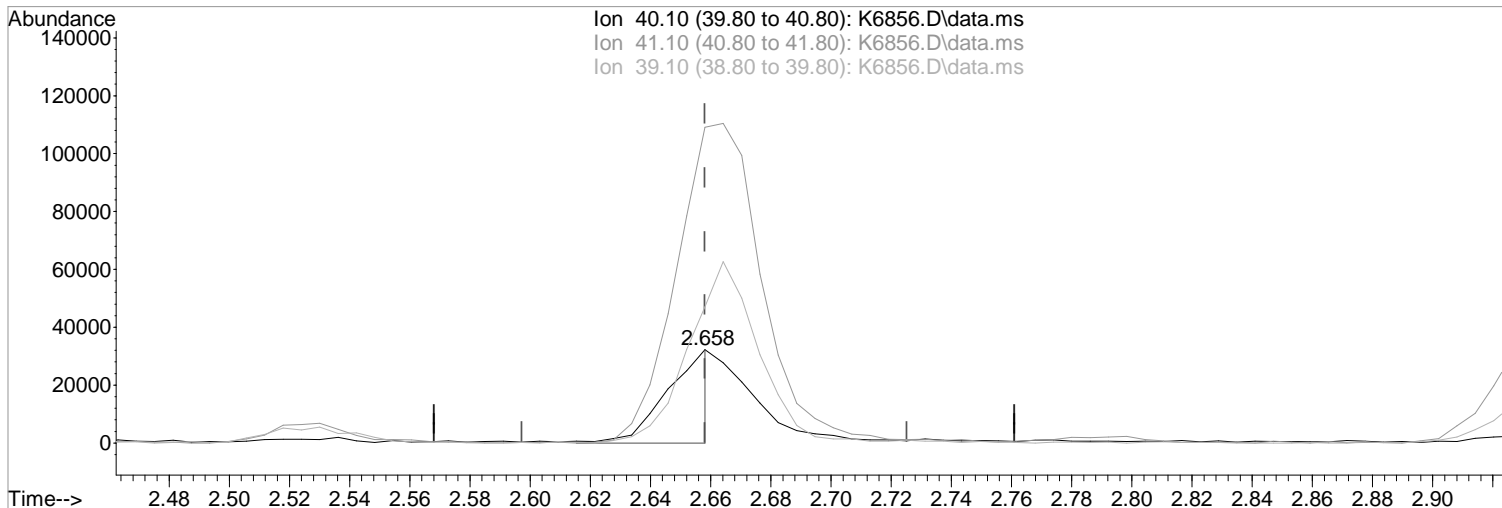
Tgt Ion	Resp	Lower	Upper
159	952		
161	78.9	47.1	70.7#
194	51.3	35.4	53.0



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6856.D
 Acq On : 20 Sep 2021 11:36 am
 Operator : K.Ruest
 Sample : LCS-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:05:07 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration



(19) Acetonitrile
 2.658min (+0.000) 108.62 ppb m
 response 33277

Manual Integration:

After

Poor integration.

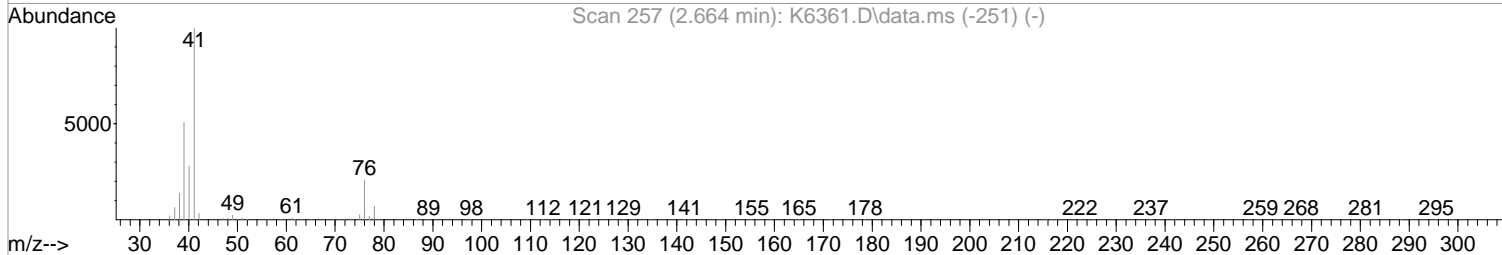
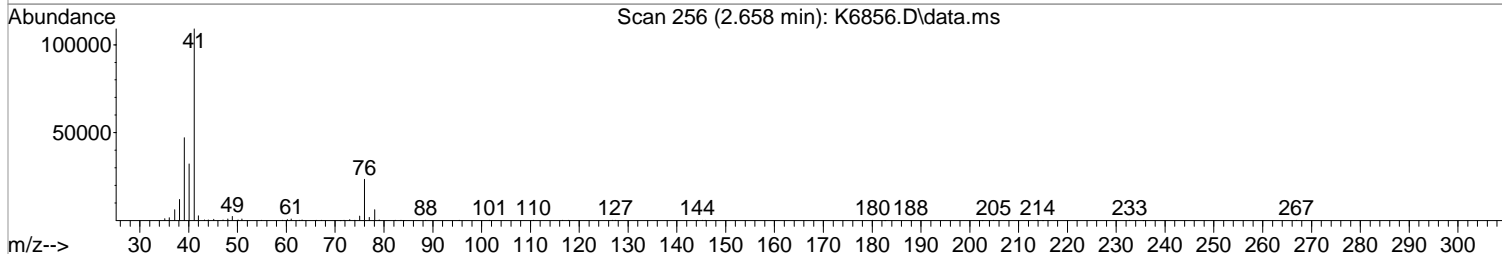
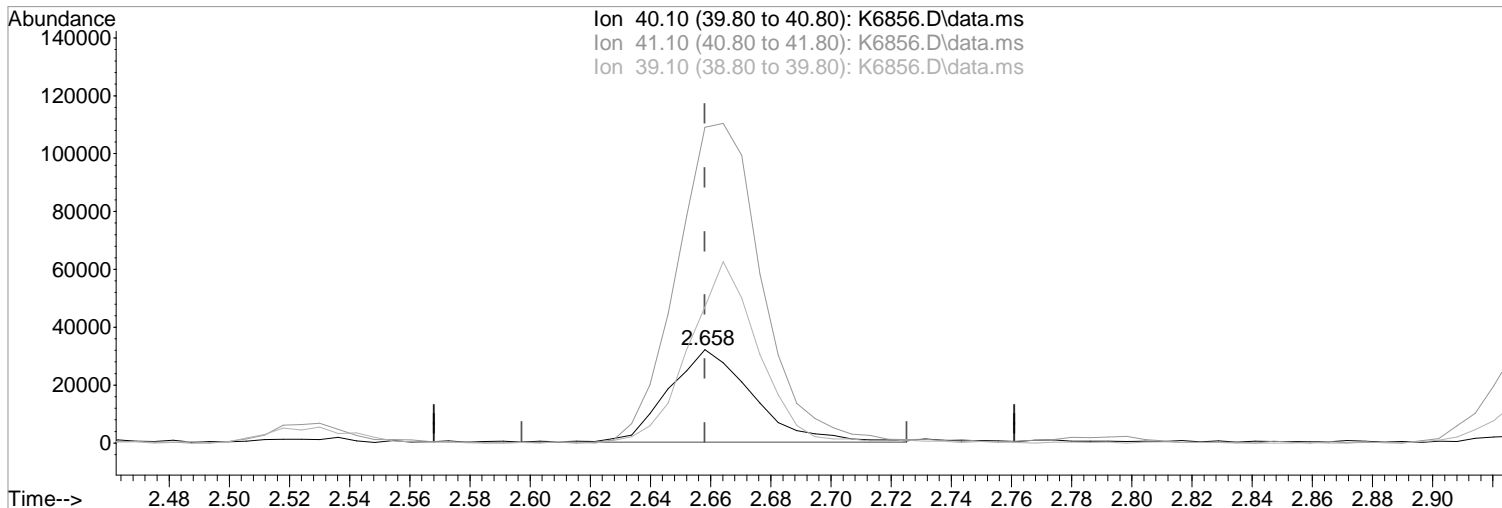
Ion	Exp%	Act%
40.10	100	100
41.10	356.60	338.10
39.10	180.50	145.88#
0.00	0.00	0.00

09/20/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6856.D
Acq On : 20 Sep 2021 11:36 am
Operator : K.Ruest
Sample : LCS-UNP
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:05:07 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K6856.D\data.ms

(19) Acetonitrile
2.658min (+0.000) 204.19 ppb
response 62556

Manual Integration:
Before

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	338.10
39.10	180.50	145.88#
0.00	0.00	0.00

09/20/21

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6856.D
 Acq On : 20 Sep 2021 11:36 am
 Operator : K.Ruest
 Sample : LCS-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:05:36 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.444	168	353538	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	607537	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	539453	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	262329	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.310	113	175999	53.21	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery =	106.42%			
48) surr1,1,2-dichloroetha...	5.846	65	255332	53.09	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	106.18%			
65) SURR3,Toluene-d8	8.316	98	846222	54.43	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	108.86%			
70) SURR2,BFB	10.864	95	327543	53.08	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	106.16%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.189	85	112208	23.52	ppb		96
3) Chloromethane	1.317	50	122150	29.75	ppb		96
4) Vinyl Chloride	1.396	62	121124	25.33	ppb		97
5) Bromomethane	1.628	94	71324	22.86	ppb		98
6) Chloroethane	1.707	64	77418	24.66	ppb		98
7) Freon 21	1.859	67	148070	19.40	ppb		95
8) Trichlorofluoromethane	1.902	101	122375	20.18	ppb		91
9) Diethyl Ether	2.134	59	92086	24.60	ppb		100
10) Freon 123a	2.146	67	95021	20.96	ppb		89
11) Freon 123	2.201	83	99899	20.19	ppb		99
12) Acrolein	2.256	56	39318	39.43	ppb		90
13) 1,1-Dicethene	2.329	96	75466	21.95	ppb	#	81
14) Freon 113	2.323	101	71162	21.19	ppb		83
15) Acetone	2.390	43	40639	18.43	ppb		91
16) 2-Propanol	2.524	45	173597	378.26	ppb		97
17) Iodomethane	2.463	142	84681	21.90	ppb		95
18) Carbon Disulfide	2.518	76	216563	26.03	ppb		97
19) Acetonitrile	2.658	40	33277m	108.62	ppb		
20) Allyl Chloride	2.664	76	46558	22.07	ppb	#	92
21) Methyl Acetate	2.695	43	116688	25.89	ppb		96
22) Methylene Chloride	2.786	84	91059	22.20	ppb		89
23) TBA	2.932	59	328238	411.35	ppb		97
24) Acrylonitrile	3.073	53	261797	115.62	ppb		96
25) Methyl-t-Butyl Ether	3.079	73	316464	22.90	ppb		98
26) trans-1,2-Dichloroethene	3.073	96	82808	22.01	ppb		94
28) 1,1-Dicethane	3.585	63	157149	22.21	ppb		95
29) Vinyl Acetate	3.676	86	13812	13.73	ppb	#	81
30) DIPE	3.688	45	284432	22.49	ppb		89
31) 2-Chloro-1,3-Butadiene	3.701	53	139336	23.04	ppb		95
32) ETBE	4.219	59	276187	21.59	ppb		97
33) 2,2-Dichloropropane	4.420	77	128247	21.74	ppb		98
34) cis-1,2-Dichloroethene	4.438	96	90999	21.00	ppb		94
35) 2-Butanone	4.517	43	60121	19.69	ppb		97
36) Propionitrile	4.627	54	106745	107.75	ppb		91
37) Bromochloromethane	4.847	130	54754	22.13	ppb		87
38) Methacrylonitrile	4.889	67	53337	22.16	ppb		93
39) Tetrahydrofuran	4.944	42	40397	19.83	ppb		91
40) Chloroform	5.030	83	148563	21.30	ppb		98
41) 1,1,1-Trichloroethane	5.292	97	121746	21.51	ppb		95

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6856.D
 Acq On : 20 Sep 2021 11:36 am
 Operator : K.Ruest
 Sample : LCS-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:05:36 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	287435	23.16	ppb	98
44) Cyclohexane	5.347	41	74289	18.48	ppb	96
46) Carbontetrachloride	5.554	117	86022	18.38	ppb	95
47) 1,1-Dichloropropene	5.578	75	113807	20.58	ppb	96
49) Benzene	5.901	78	360962	20.96	ppb	99
50) 1,2-Dichloroethane	5.962	62	127640	19.73	ppb	99
51) Iso-Butyl Alcohol	5.950	43	136119	391.86	ppb	99
52) n-Heptane	6.346	43	105591	20.30	ppb	94
53) 1-Butanol	6.895	56	211346	935.28	ppb	99
54) Trichloroethene	6.834	130	86168	20.15	ppb	96
55) Methylcyclohexane	7.047	55	116141	20.65	ppb	96
56) 1,2-Diclpropane	7.127	63	92364	20.67	ppb	99
57) Dibromomethane	7.267	93	55476	21.66	ppb	92
58) 1,4-Dioxane	7.340	88	37935	387.49	ppb	99
59) Methyl Methacrylate	7.352	69	89110	21.73	ppb	97
60) Bromodichloromethane	7.499	83	108490	20.06	ppb	96
62) 2-Chloroethylvinyl Ether	7.901	63	55342	19.02	ppb	99
63) cis-1,3-Dichloropropene	8.029	75	149752	22.94	ppb	97
64) 4-Methyl-2-pentanone	8.242	43	111598	18.74	ppb	96
66) Toluene	8.389	91	387090	20.98	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	137375	22.70	ppb	93
68) Ethyl Methacrylate	8.797	69	131880	19.75	ppb	95
69) 1,1,2-Trichloroethane	8.858	97	87059	21.13	ppb	94
72) Tetrachloroethene	8.968	164	60140	19.34	ppb	95
73) 2-Hexanone	9.145	43	82516	19.42	ppb	98
74) 1,3-Dichloropropene	9.023	76	165391	23.00	ppb	99
75) Dibromochloromethane	9.248	129	72431	22.15	ppb	98
76) N-Butyl Acetate	9.285	43	160620	19.80	ppb	96
77) 1,2-Dibromoethane	9.346	107	84996	21.38	ppb	94
78) Chlorobenzene	9.827	112	239904	20.90	ppb	99
79) 3-CBTF	9.840	180	110495	19.68	ppb	92
80) 4-CBTF	9.894	180	95784	18.40	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.913	131	75635	22.21	ppb	94
82) Ethylbenzene	9.937	106	125246	19.80	ppb	95
83) (m+p)Xylene	10.047	106	313044	40.94	ppb	92
84) o-Xylene	10.407	106	155516	20.59	ppb	100
85) Styrene	10.425	104	262638	20.78	ppb	98
87) Bromoform	10.583	173	44462	21.82	ppb	95
88) 2-CBTF	10.657	180	102711	19.11	ppb	99
89) Isopropylbenzene	10.736	105	380212	21.37	ppb	98
90) Cyclohexanone	10.821	55	230806	242.56	ppb	98
91) trans-1,4-Dichloro-2-B...	11.059	53	30510	20.42	ppb	93
92) 1,1,2,2-Tetrachloroethane	11.010	83	125067	22.66	ppb	98
93) Bromobenzene	10.992	156	92478	20.19	ppb	93
94) 1,2,3-Trichloropropane	11.041	110	41469	21.28	ppb	97
95) n-Propylbenzene	11.089	91	482221	21.72	ppb	99
96) 2-Chlorotoluene	11.156	91	288588	20.53	ppb	95
97) 3-Chlorotoluene	11.211	91	299863	21.34	ppb	97
98) 4-Chlorotoluene	11.248	91	345233	21.87	ppb	99
99) 1,3,5-Trimethylbenzene	11.242	105	350070	21.17	ppb	96
100) tert-Butylbenzene	11.510	119	273946	20.16	ppb	97
101) 1,2,4-Trimethylbenzene	11.553	105	343597	20.83	ppb	100
102) 3,4-DCBTF	11.614	214	78985	17.80	ppb	95
103) sec-Butylbenzene	11.693	105	406044	20.82	ppb	99
104) p-Isopropyltoluene	11.815	119	344410	20.15	ppb	95
105) 1,3-Dclbenz	11.778	146	182075	20.33	ppb	94

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6856.D
 Acq On : 20 Sep 2021 11:36 am
 Operator : K.Ruest
 Sample : LCS-UNP Inst : MSVOA-12
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 12:05:36 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

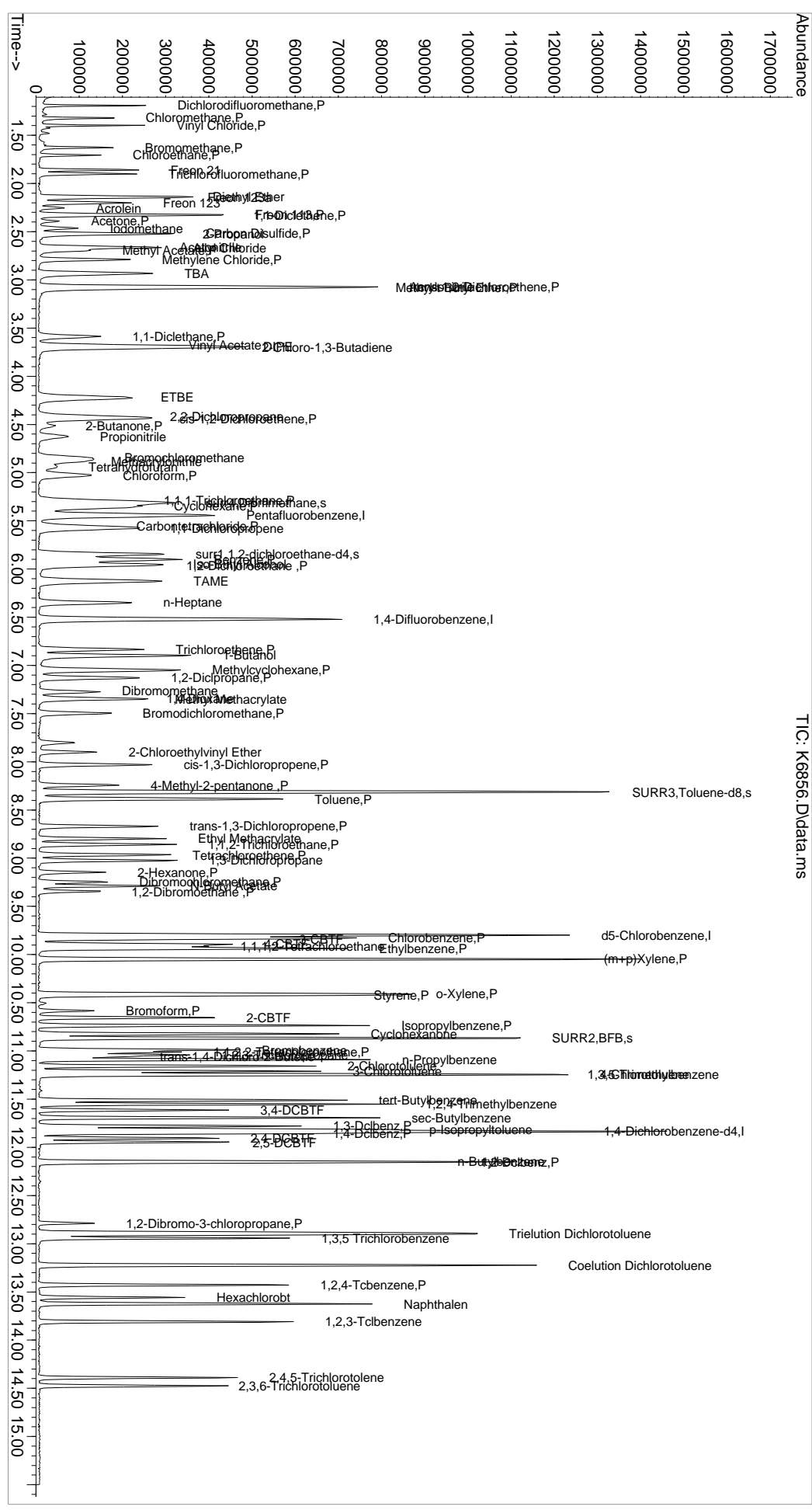
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.858	146	182506	18.93	ppb	94
107) 2,4-DCBTF	11.906	214	74043	18.98	ppb	99
108) 2,5-DCBTF	11.949	214	91248	21.09	ppb	89
109) n-Butylbenzene	12.144	91	316104	20.01	ppb	97
110) 1,2-Dclbenz	12.156	146	185810	20.83	ppb	95
111) 1,2-Dibromo-3-chloropr...	12.790	157	25327	21.11	ppb	95
112) Trielution Dichlorotol...	12.894	125	502033	59.79	ppb	97
113) 1,3,5 Trichlorobenzene	12.943	180	125708	19.13	ppb	85
114) Coelution Dichlorotoluene	13.223	125	385828	42.42	ppb	98
115) 1,2,4-Tcbenzene	13.430	180	137266	21.34	ppb	97
116) Hexachlorobt	13.558	225	46818	18.47	ppb	97
117) Naphthalen	13.625	128	450674	22.29	ppb	98
118) 1,2,3-Tclbenzene	13.808	180	135316	21.01	ppb	95
119) 2,4,5-Trichlorotolene	14.388	159	91939	20.32	ppb	96
120) 2,3,6-Trichlorotoluene	14.479	159	84129	19.97	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

09/20/21
Data Path : I:\ACQ\DATA\msvoa12\Data\092021\
Data File : K6856.D
Acq On : 20 Sep 2021 11:36 am
Operator : K.Ruest
Sample : LCS-TNP
Inst : MSVOA-12
PALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 12:05:36 2021
Quant Method : I:\ACQ\DATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QIast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

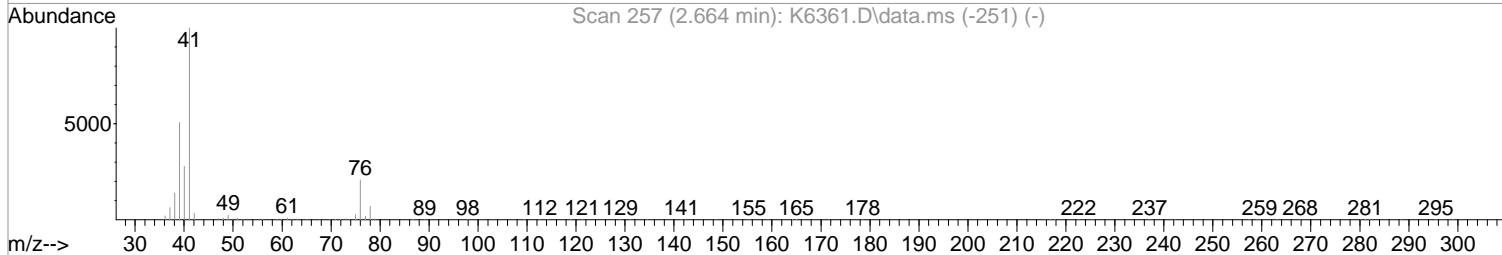
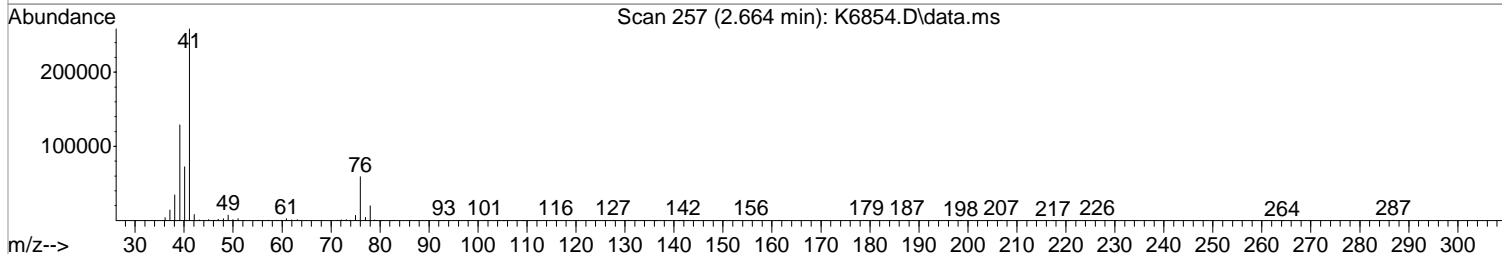
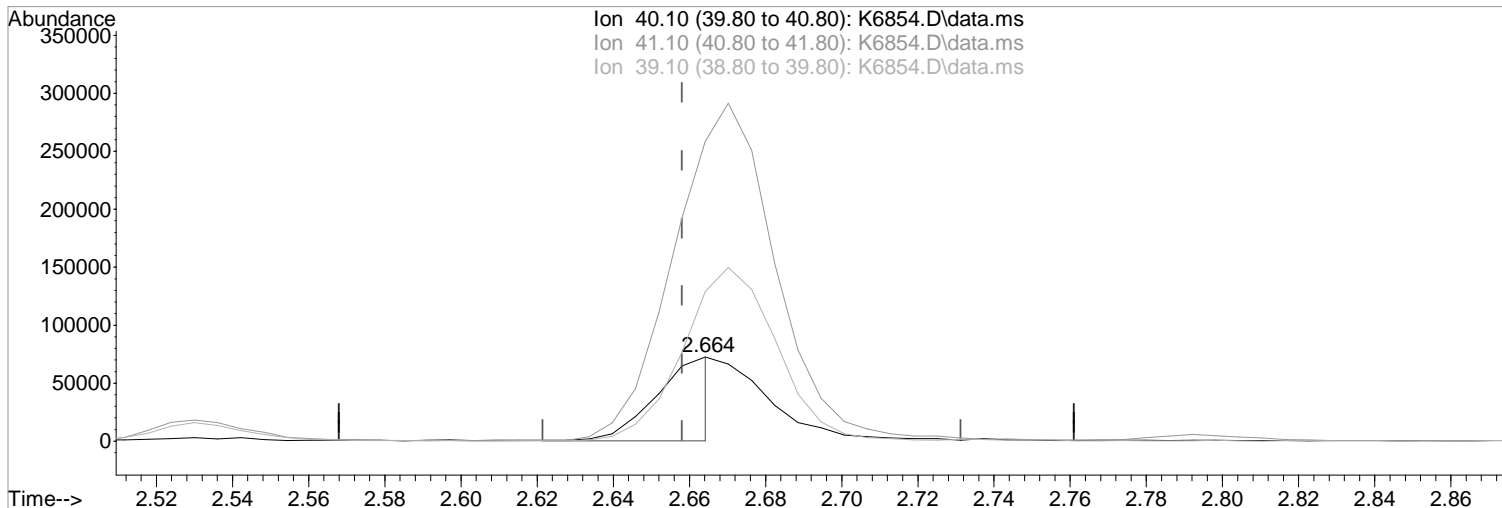
TIC: K6856.D\data.ms



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6854.D
Acq On : 20 Sep 2021 10:49 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 11:48:09 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.664min (+0.006) 249.43 ppb m
response 75737

Manual Integration:

After

Poor integration.

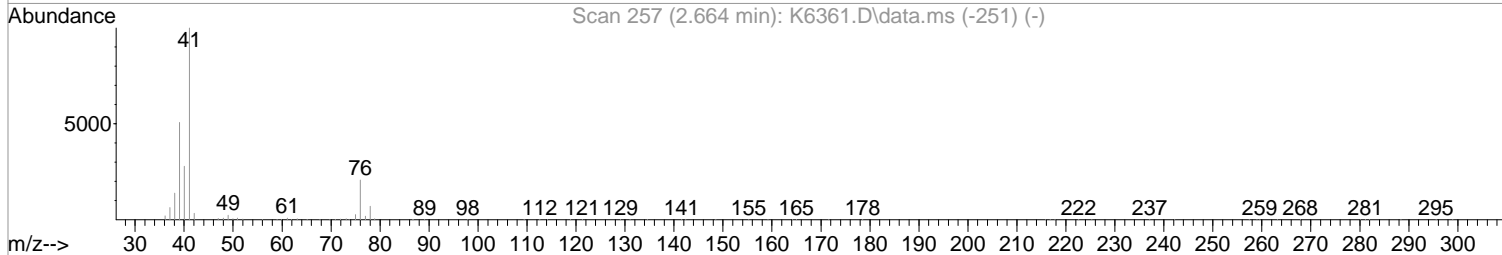
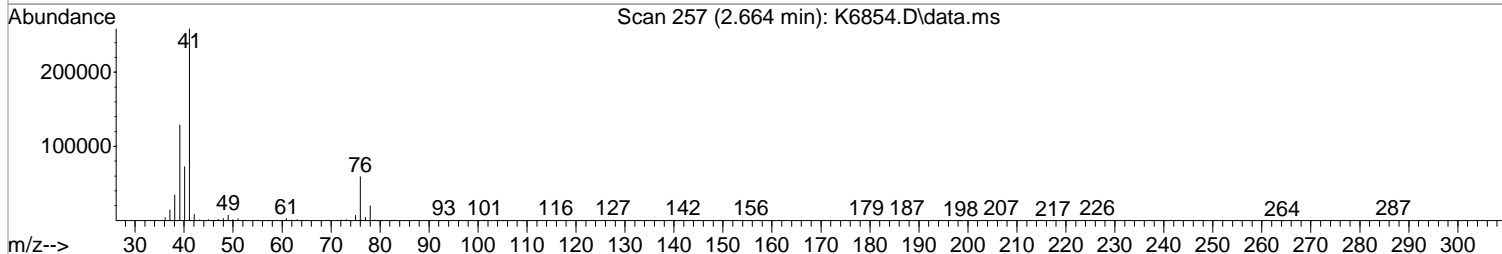
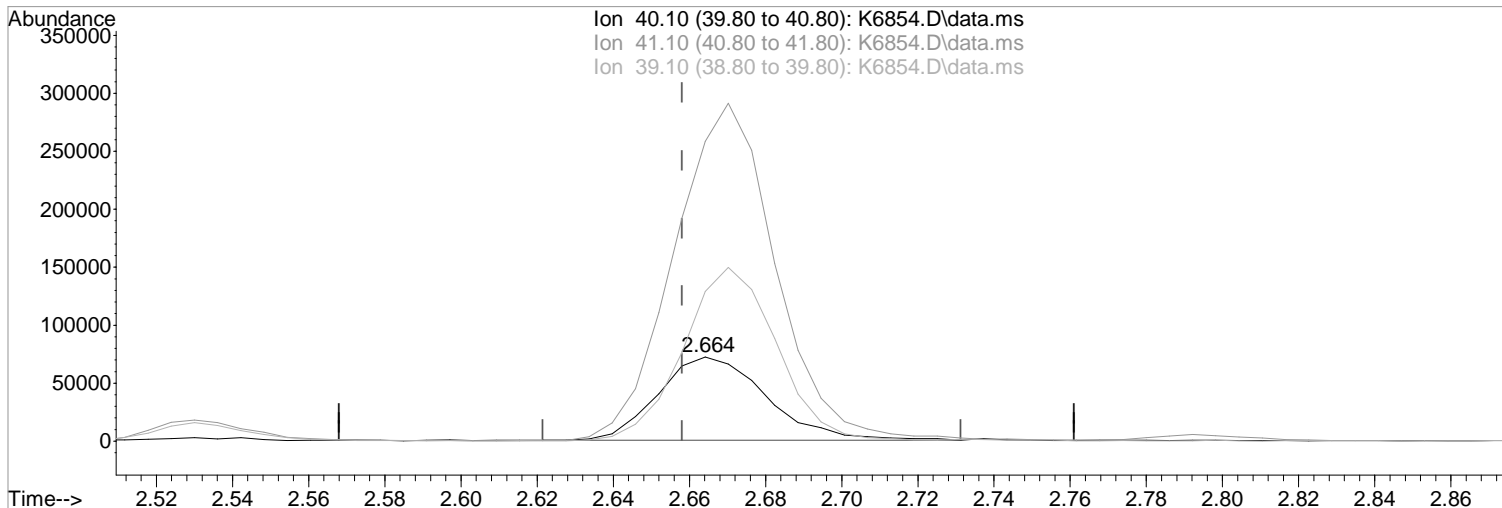
09/20/21

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	356.93
39.10	180.50	178.11
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
Data File : K6854.D
Acq On : 20 Sep 2021 10:49 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 11:48:09 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



(19) Acetonitrile
2.664min (+0.006) 467.91 ppb
response 142077

Manual Integration:

Before

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	356.93
39.10	180.50	178.11
0.00	0.00	0.00

09/20/21

Data Path : I:\ACQUDATA\msvoal2\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.0000	50.0000	0.0	99	0.00
2 P	Dichlorodifluoromethane	50.0000	59.8231	-19.6	107	0.01
3 P	Chloromethane	50.0000	58.6279	-17.3	121	0.01
4 P	Vinyl Chloride	50.0000	56.0741	-12.1	110	0.00
5 P	Bromomethane	50.0000	59.0158	-18.0	116	0.02
6 P	Chloroethane	50.0000	54.3866	-8.8	110	0.02
7	Freon 21	50.0000	55.2345	-10.5	112	0.01
8 P	Trichlorofluoromethane	50.0000	53.2731	-6.5	105	0.02
9	Diethyl Ether	50.0000	57.2674	-14.5	113	0.00
10	Freon 123a	50.0000	57.2282	-14.5	116	0.01
11	Freon 123	50.0000	58.8561	-17.7	116	0.01
12	Acrolein	250.0000	221.5981	11.4	92	0.00
13 P	1,1-Dicethene	50.0000	56.3057	-12.6	112	0.01
14 P	Freon 113	50.0000	57.1893	-14.4	114	0.00
15 P	Acetone	50.0000	54.7244	-9.4	108	0.00
16	2-Propanol	1000.0000	952.9794	4.7	93	0.00
17	Iodomethane	50.0000	55.2910	-10.6	98	0.01
18 P	Carbon Disulfide	50.0000	57.3968	-14.8	117	0.01
19	Acetonitrile	250.0000	249.4268	0.2	98	0.00
20	Allyl Chloride	50.0000	57.8707	-15.7	112	0.00
21 P	Methyl Acetate	50.0000	51.2420	-2.5	103	0.00
22 P	Methylene Chloride	50.0000	52.9159	-5.8	113	0.01
23	TBA	1000.0000	934.8140	6.5	93	0.00
24	Acrylonitrile	250.0000	268.1424	-7.3	102	0.00
25 P	Methyl-t-Butyl Ether	50.0000	55.4734	-10.9	108	0.00
26 P	trans-1,2-Dichloroethene	50.0000	55.1819	-10.4	111	0.01
27	Halothane	-1.0000	0.0000	0.0	0	-0.02
28 P	1,1-Dicethane	50.0000	56.3757	-12.8	108	0.00
29	Vinyl Acetate	50.0000	48.8150	2.4	104	0.00
30	DIPE	50.0000	54.0820	-8.2	114	0.00
31	2-Chloro-1,3-Butadiene	50.0000	56.2319	-12.5	111	0.00
32	ETBE	50.0000	55.7404	-11.5	116	0.00
33	2,2-Dichloropropane	50.0000	55.4220	-10.8	108	0.00
34 P	cis-1,2-Dichloroethene	50.0000	53.7850	-7.6	110	0.00
35 P	2-Butanone	50.0000	48.9640	2.1	103	0.00
36	Propionitrile	250.0000	257.3077	-2.9	98	0.00
37	Bromochloromethane	50.0000	54.0110	-8.0	108	0.00
38	Methacrylonitrile	50.0000	54.8737	-9.7	108	0.01
39	Tetrahydrofuran	50.0000	49.4629	1.1	96	0.01
40 P	Chloroform	50.0000	54.8610	-9.7	105	0.00
41 P	1,1,1-Trichloroethane	50.0000	53.6486	-7.3	103	0.00
42	TAME	50.0000	55.2586	-10.5	113	0.00
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	101	0.00
44 P	Cyclohexane	50.0000	52.1048	-4.2	109	0.00
45 s	surr4,Dibrflmethane	50.0000	53.3747	-6.7	109	0.00
46 P	Carbontetrachloride	50.0000	50.1526	-0.3	102	0.00
47	1,1-Dichloropropene	50.0000	54.9999	-10.0	110	0.00
48 s	surr1,1,2-dichloroethane-d4	50.0000	53.3845	-6.8	105	0.00
49 P	Benzene	50.0000	54.2179	-8.4	109	0.00
50 P	1,2-Dichloroethane	50.0000	49.3809	1.2	100	0.00
51	Iso-Butyl Alcohol	1000.0000	928.2227	7.2	92	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	n-Heptane	50.0000	58.2583	-16.5	116	0.00
53	1-Butanol	2500.0000	2508.7780	-0.4	96	0.00
54 P	Trichloroethene	50.0000	51.0614	-2.1	107	0.00
55 P	Methylcyclohexane	50.0000	57.6735	-15.3	115	0.00
56 P	1,2-Diclp propane	50.0000	54.1231	-8.2	108	0.00
57	Dibromomethane	50.0000	51.7283	-3.5	103	0.00
58	1,4-Dioxane	1000.0000	910.2495	9.0	97	0.00
59	Methyl Methacrylate	50.0000	51.1029	-2.2	106	0.00
60 P	Bromodichloromethane	50.0000	52.0022	-4.0	107	0.00
61	2-Nitropropane	-1.0000	0.0000	0.0	86	0.00
62	2-Chloroethylvinyl Ether	50.0000	48.6804	2.6	102	0.00
63 P	cis-1,3-Dichloropropene	50.0000	56.8138	-13.6	109	0.00
64 P	4-Methyl-2-pentanone	50.0000	49.8078	0.4	103	0.00
65 s	SURR3,Toluene-d8	50.0000	55.1080	-10.2	110	0.00
66 P	Toluene	50.0000	55.1542	-10.3	110	0.00
67 P	trans-1,3-Dichloropropene	50.0000	56.6417	-13.3	106	0.00
68	Ethyl Methacrylate	50.0000	54.9501	-9.9	104	0.00
69 P	1,1,2-Trichloroethane	50.0000	51.3394	-2.7	109	0.00
70 s	SURR2,BFB	50.0000	53.5101	-7.0	110	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	102	0.00
72 P	Tetrachloroethene	50.0000	52.1304	-4.3	110	0.00
73 P	2-Hexanone	50.0000	52.9046	-5.8	105	0.00
74	1,3-Dichloropropene	50.0000	54.4108	-8.8	107	0.00
75 P	Dibromochloromethane	50.0000	56.3256	-12.7	107	0.00
76	N-Butyl Acetate	50.0000	53.8703	-7.7	102	0.00
77 P	1,2-Dibromoethane	50.0000	55.1324	-10.3	111	0.00
78 P	Chlorobenzene	50.0000	53.6372	-7.3	110	0.00
79	3-CBTF	50.0000	52.6215	-5.2	118	0.00
80	4-CBTF	50.0000	49.4084	1.2	115	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	56.0414	-12.1	106	0.00
82 P	Ethylbenzene	50.0000	55.3973	-10.8	112	0.00
83 P	(m+p)Xylene	100.0000	112.4710	-12.5	109	0.00
84 P	o-Xylene	50.0000	54.6106	-9.2	107	0.00
85 P	Styrene	50.0000	55.7412	-11.5	106	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	102	0.00
87 P	Bromoform	50.0000	56.1689	-12.3	106	0.00
88	2-CBTF	50.0000	52.2258	-4.5	117	0.00
89 P	Isopropylbenzene	50.0000	57.1750	-14.3	109	0.00
90	Cyclohexanone	1000.0000	1127.8822	-12.8	103	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	52.9249	-5.8	104	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	55.0750	-10.2	104	0.00
93	Bromobenzene	50.0000	52.3520	-4.7	107	0.00
94	1,2,3-Trichloropropene	50.0000	51.8613	-3.7	102	0.00
95	n-Propylbenzene	50.0000	58.5664	-17.1	110	0.00
96	2-Chlorotoluene	50.0000	55.5833	-11.2	107	0.00
97	3-Chlorotoluene	50.0000	55.2051	-10.4	116	0.00
98	4-Chlorotoluene	50.0000	56.1051	-12.2	109	0.00
99	1,3,5-Trimethylbenzene	50.0000	58.5906	-17.2	109	0.00
100	tert-Butylbenzene	50.0000	55.3104	-10.6	107	0.00
101	1,2,4-Trimethylbenzene	50.0000	57.4476	-14.9	108	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	3,4-DCBTF	50.0000	51.0836	-2.2	119	0.00
103	sec-Butylbenzene	50.0000	58.4314	-16.9	111	0.00
104	p-Isopropyltoluene	50.0000	58.2056	-16.4	111	0.00
105 P	1,3-Dclbenz	50.0000	53.9944	-8.0	107	0.00
106 P	1,4-Dclbenz	50.0000	50.3737	-0.7	103	0.00
107	2,4-DCBTF	50.0000	52.2929	-4.6	120	0.00
108	2,5-DCBTF	50.0000	54.8135	-9.6	121	0.00
109	n-Butylbenzene	50.0000	60.3817	-20.8#	112	0.00
110 P	1,2-Dclbenz	50.0000	53.8733	-7.7	107	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	55.2662	-10.5	102	0.00
112	Trielution Dichlorotoluene	150.0000	166.1678	-10.8	119	0.00
113	1,3,5 Trichlorobenzene	50.0000	53.5437	-7.1	120	0.00
114	Coelution Dichlorotoluene	100.0000	113.7935	-13.8	119	0.00
115 P	1,2,4-Tcbenzene	50.0000	55.1831	-10.4	108	0.00
116	Hexachlorobt	50.0000	52.5384	-5.1	108	0.00
117	Naphthalen	50.0000	57.3336	-14.7	102	0.00
118	1,2,3-Tclbenzene	50.0000	54.5283	-9.1	106	0.00
119	2,4,5-Trichlorotolene	50.0000	55.7148	-11.4	116	0.00
120	2,3,6-Trichlorotoluene	50.0000	52.6334	-5.3	113	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.450	168	350395	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.523	114	594319	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.797	117	535832	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	266850	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	172688	53.37	ppb	0.00	
Spiked Amount	50.000	Range 80 - 116	Recovery =	106.74%			
48) surr1,1,2-dichloroetha...	5.846	65	251150	53.38	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	106.76%			
65) SURR3,Toluene-d8	8.315	98	838070	55.11	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	110.22%			
70) SURR2,BFB	10.864	95	323028	53.51	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	107.02%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.201	85	282881	59.82	ppb		96
3) Chloromethane	1.329	50	238608	58.63	ppb		97
4) Vinyl Chloride	1.402	62	265773	56.07	ppb		99
5) Bromomethane	1.634	94	182508	59.02	ppb		98
6) Chloroethane	1.713	64	169209	54.39	ppb		98
7) Freon 21	1.865	67	417880	55.23	ppb		100
8) Trichlorofluoromethane	1.908	101	320139	53.27	ppb		96
9) Diethyl Ether	2.140	59	212508	57.27	ppb		94
10) Freon 123a	2.152	67	257154	57.23	ppb		96
11) Freon 123	2.207	83	288589	58.86	ppb		98
12) Acrolein	2.256	56	219009	221.60	ppb		95
13) 1,1-Dicethene	2.335	96	191879	56.31	ppb	#	87
14) Freon 113	2.329	101	190347	57.19	ppb		90
15) Acetone	2.396	43	108923	54.72	ppb		92
16) 2-Propanol	2.530	45	433473	952.98	ppb		99
17) Iodomethane	2.469	142	226684	55.29	ppb		100
18) Carbon Disulfide	2.524	76	473262	57.40	ppb		98
19) Acetonitrile	2.664	40	75737m	249.43	ppb		
20) Allyl Chloride	2.670	76	121010	57.87	ppb		95
21) Methyl Acetate	2.701	43	228940	51.24	ppb		99
22) Methylene Chloride	2.798	84	215079	52.92	ppb		90
23) TBA	2.938	59	739307	934.81	ppb		94
24) Acrylonitrile	3.073	53	601764	268.14	ppb		97
25) Methyl-t-Butyl Ether	3.091	73	759830	55.47	ppb		99
26) trans-1,2-Dichloroethene	3.085	96	205736	55.18	ppb		96
28) 1,1-Dicethane	3.591	63	395334	56.38	ppb		96
29) Vinyl Acetate	3.688	86	48654	48.81	ppb	#	89
30) DIPE	3.694	45	677792	54.08	ppb		90
31) 2-Chloro-1,3-Butadiene	3.707	53	337000	56.23	ppb		97
32) ETBE	4.231	59	706589	55.74	ppb		97
33) 2,2-Dichloropropane	4.426	77	323979	55.42	ppb		97
34) cis-1,2-Dichloroethene	4.444	96	230979	53.78	ppb		98
35) 2-Butanone	4.517	43	148191	48.96	ppb		96
36) Propionitrile	4.633	54	252636	257.31	ppb		99
37) Bromochloromethane	4.853	130	132418	54.01	ppb		93
38) Methacrylonitrile	4.889	67	130914	54.87	ppb		97
39) Tetrahydrofuran	4.944	42	99873	49.46	ppb		99
40) Chloroform	5.030	83	373912	54.86	ppb		97
41) 1,1,1-Trichloroethane	5.298	97	300990	53.65	ppb		97

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	679831	55.26	ppb	98
44) Cyclohexane	5.359	41	204918	52.10	ppb	98
46) Carbontetrachloride	5.560	117	229582	50.15	ppb	99
47) 1,1-Dichloropropene	5.584	75	297489	55.00	ppb	98
49) Benzene	5.901	78	913553	54.22	ppb	99
50) 1,2-Dichloroethane	5.962	62	312577	49.38	ppb	94
51) Iso-Butyl Alcohol	5.956	43	315421	928.22	ppb	95
52) n-Heptane	6.352	43	296466	58.26	ppb	97
53) 1-Butanol	6.901	56	554574	2508.78	ppb	98
54) Trichloroethene	6.840	130	213571	51.06	ppb	97
55) Methylcyclohexane	7.054	55	317334	57.67	ppb	95
56) 1,2-Diclpropane	7.133	63	236548	54.12	ppb	93
57) Dibromomethane	7.279	93	129581	51.73	ppb	89
58) 1,4-Dioxane	7.334	88	87174	910.25	ppb	97
59) Methyl Methacrylate	7.352	69	204986	51.10	ppb	95
60) Bromodichloromethane	7.499	83	275077	52.00	ppb	95
62) 2-Chloroethylvinyl Ether	7.901	63	138559	48.68	ppb	98
63) cis-1,3-Dichloropropene	8.029	75	362789	56.81	ppb	99
64) 4-Methyl-2-pentanone	8.242	43	290124	49.81	ppb	94
66) Toluene	8.389	91	995380	55.15	ppb	100
67) trans-1,3-Dichloropropene	8.669	75	335357	56.64	ppb	97
68) Ethyl Methacrylate	8.797	69	359002	54.95	ppb	96
69) 1,1,2-Trichloroethane	8.858	97	206962	51.34	ppb	96
72) Tetrachloroethene	8.968	164	160984	52.13	ppb	97
73) 2-Hexanone	9.145	43	223232	52.90	ppb	98
74) 1,3-Dichloropropene	9.023	76	388600	54.41	ppb	99
75) Dibromochloromethane	9.248	129	182980	56.33	ppb	94
76) N-Butyl Acetate	9.291	43	434066	53.87	ppb	98
77) 1,2-Dibromoethane	9.346	107	217675	55.13	ppb	87
78) Chlorobenzene	9.827	112	611602	53.64	ppb	96
79) 3-CBTF	9.840	180	293485	52.62	ppb	99
80) 4-CBTF	9.894	180	255529	49.41	ppb	93
81) 1,1,1,2-Tetrachloroethane	9.913	131	189546	56.04	ppb	94
82) Ethylbenzene	9.937	106	348076	55.40	ppb	99
83) (m+p)Xylene	10.047	106	854169	112.47	ppb	96
84) o-Xylene	10.407	106	409619	54.61	ppb	100
85) Styrene	10.425	104	699711	55.74	ppb	97
87) Bromoform	10.583	173	116430	56.17	ppb	97
88) 2-CBTF	10.656	180	285531	52.23	ppb	96
89) Isopropylbenzene	10.736	105	1034859	57.17	ppb	98
90) Cyclohexanone	10.821	55	1091744	1127.88	ppb	98
91) trans-1,4-Dichloro-2-B...	11.059	53	83384	52.92	ppb	90
92) 1,1,2,2-Tetrachloroethane	11.010	83	309174	55.08	ppb	99
93) Bromobenzene	10.992	156	243938	52.35	ppb	96
94) 1,2,3-Trichloropropane	11.041	110	100370	51.86	ppb	94
95) n-Propylbenzene	11.089	91	1322973	58.57	ppb	98
96) 2-Chlorotoluene	11.156	91	794801	55.58	ppb	99
97) 3-Chlorotoluene	11.211	91	789250	55.21	ppb	98
98) 4-Chlorotoluene	11.248	91	900970	56.11	ppb	100
99) 1,3,5-Trimethylbenzene	11.242	105	985532	58.59	ppb	99
100) tert-Butylbenzene	11.510	119	764563	55.31	ppb	99
101) 1,2,4-Trimethylbenzene	11.553	105	963837	57.45	ppb	97
102) 3,4-DCBTF	11.614	214	230549	51.08	ppb	96
103) sec-Butylbenzene	11.693	105	1159446	58.43	ppb	100
104) p-Isopropyltoluene	11.815	119	1012057	58.21	ppb	99
105) 1,3-Dclbenz	11.778	146	491992	53.99	ppb	95

Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6854.D
 Acq On : 20 Sep 2021 10:49 am
 Operator : K.Ruest
 Sample : CCV Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

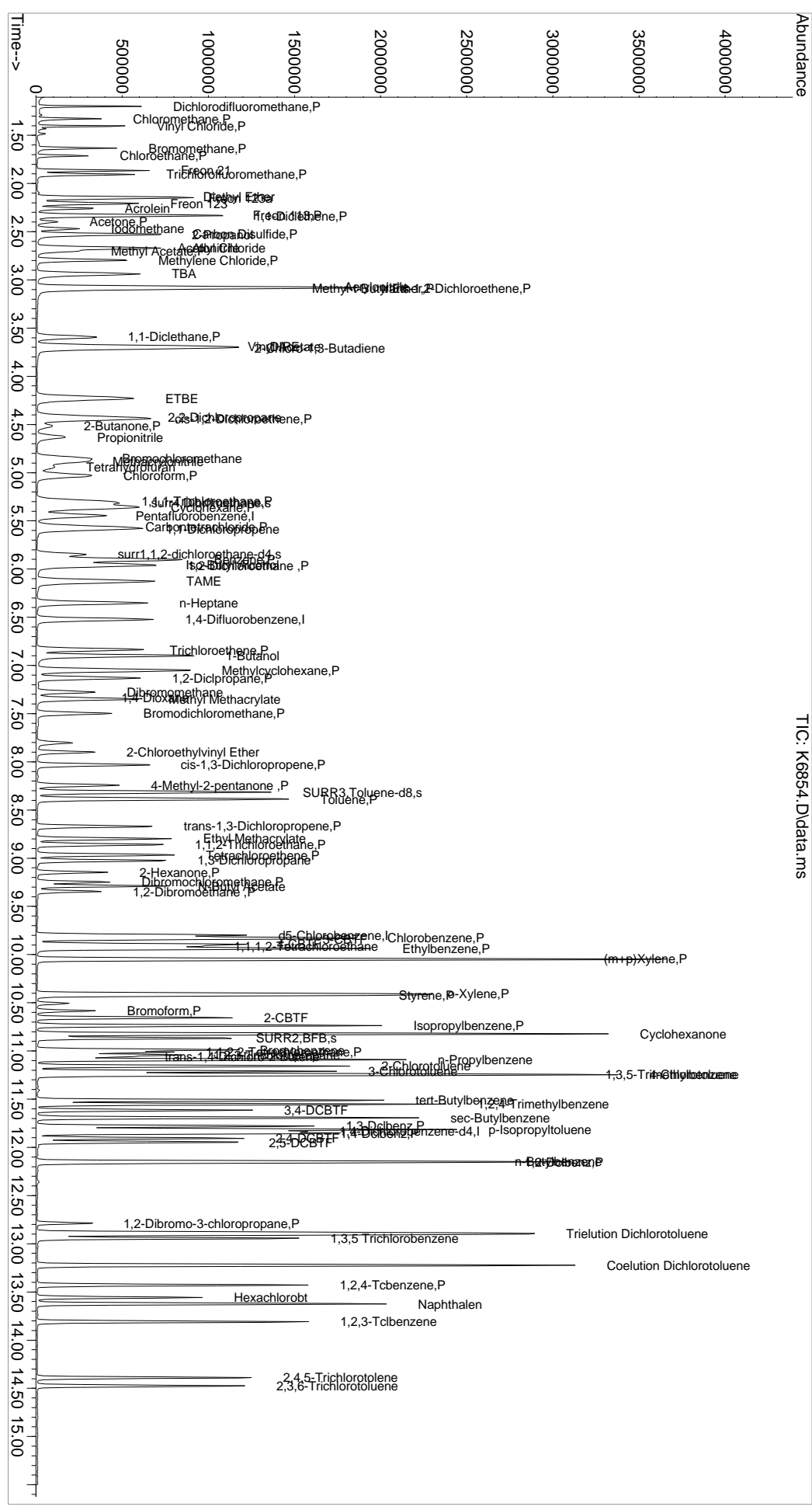
Quant Time: Sep 20 12:00:25 2021
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Sep 03 10:14:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.857	146	494120	50.37	ppb	98
107) 2,4-DCBTF	11.906	214	207482	52.29	ppb	97
108) 2,5-DCBTF	11.949	214	241287	54.81	ppb	97
109) n-Butylbenzene	12.144	91	970351	60.38	ppb	98
110) 1,2-Dclbenz	12.156	146	488835	53.87	ppb	95
111) 1,2-Dibromo-3-chloropr...	12.790	157	67436	55.27	ppb	98
112) Trielution Dichlorotol...	12.894	125	1419245	166.17	ppb	99
113) 1,3,5 Trichlorobenzene	12.943	180	357899	53.54	ppb	96
114) Coelution Dichlorotoluene	13.223	125	1052922	113.79	ppb	99
115) 1,2,4-Tcbenzene	13.430	180	361010	55.18	ppb	96
116) Hexachlorobt	13.558	225	135437	52.54	ppb	97
117) Naphthalen	13.625	128	1178989	57.33	ppb	100
118) 1,2,3-Tclbenzene	13.808	180	357200	54.53	ppb	90
119) 2,4,5-Trichlorotolene	14.387	159	256407	55.71	ppb	100
120) 2,3,6-Trichlorotoluene	14.473	159	225581	52.63	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

09/20/21
Data Path : I:\ACQDATA\msvoa12\Data\092021\
Data File : K6854.D
Acq On : 20 Sep 2021 10:49 am
Operator : K.Ruest
Sample : CCV
Inst : MSVOA-12
Sample Multiplier: 1

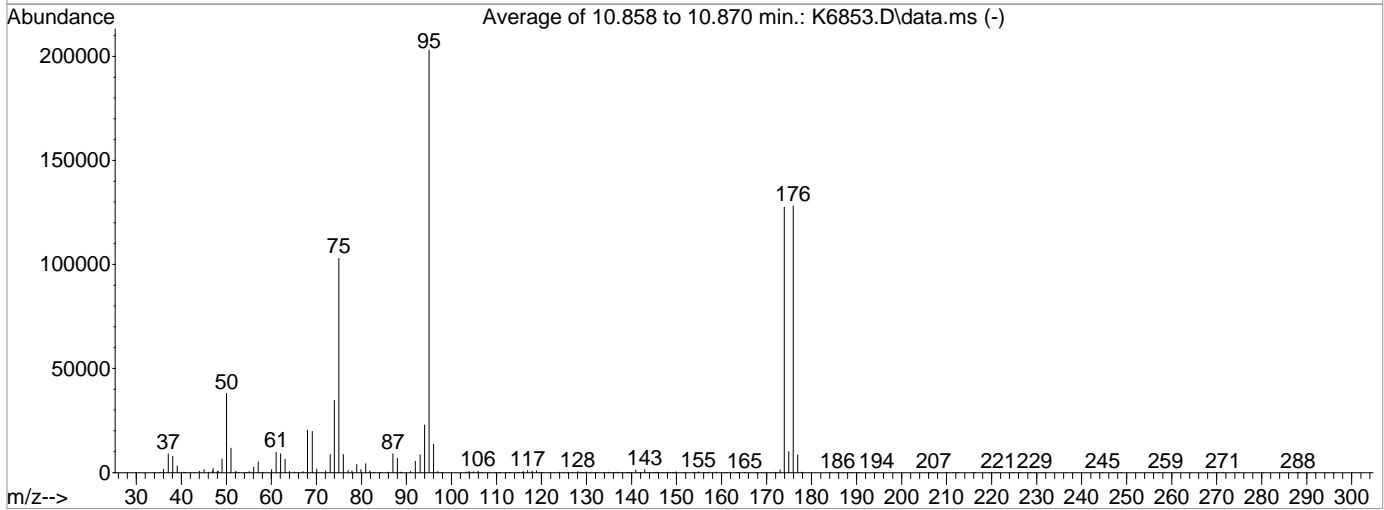
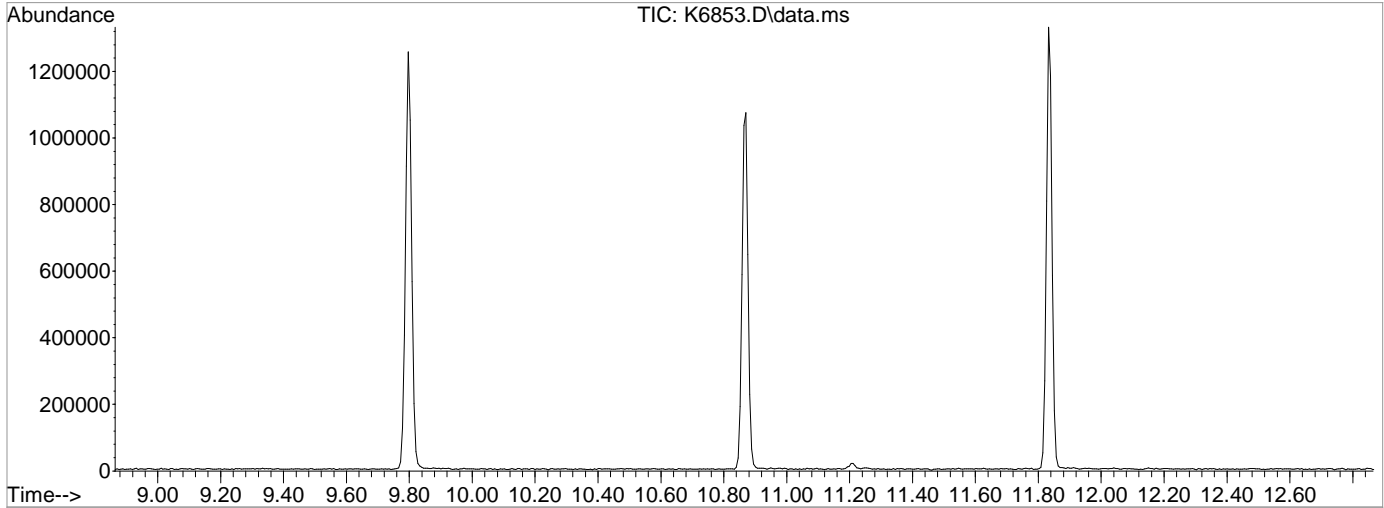
Quant Time: Sep 20 12:00:25 2021
Quant Method : I:\ACQDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B MATERS 10mL Purge
QIast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\092021\
 Data File : K6853.D
 Acq On : 20 Sep 2021 10:20 am
 Operator : K.Ruest
 Sample : TUNE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1
 Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Fri Sep 03 10:14:47 2021



AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1594

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	37992	PASS
75	95	30	60	50.7	103000	PASS
95	95	100	100	100.0	203077	PASS
96	95	5	9	6.7	13641	PASS
173	174	0.00	2	1.0	1305	PASS
174	95	50	120	62.8	127453	PASS
175	174	5	9	7.9	10042	PASS
176	174	95	101	100.5	128085	PASS
177	176	5	9	6.7	8523	PASS

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2109484
Calibration Date: 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2100117-01	0.5ppb	I:\ACQUADATA\msvoa12\Data\090221\K6356.D	09/02/2021 12:07
02	RC2100117-02	1.0ppb	I:\ACQUADATA\msvoa12\Data\090221\K6357.D	09/02/2021 12:29
03	RC2100117-03	2.0ppb	I:\ACQUADATA\msvoa12\Data\090221\K6358.D	09/02/2021 12:51
04	RC2100117-04	5.0ppb	I:\ACQUADATA\msvoa12\Data\090221\K6359.D	09/02/2021 13:13
05	RC2100117-05	20ppb	I:\ACQUADATA\msvoa12\Data\090221\K6360.D	09/02/2021 13:35
06	RC2100117-06	50ppb	I:\ACQUADATA\msvoa12\Data\090221\K6361.D	09/02/2021 13:57
07	RC2100117-07	100ppb	I:\ACQUADATA\msvoa12\Data\090221\K6362.D	09/02/2021 14:18
08	RC2100117-08	150ppb	I:\ACQUADATA\msvoa12\Data\090221\K6363.D	09/02/2021 14:40
09	RC2100117-09	200ppb	I:\ACQUADATA\msvoa12\Data\090221\K6364.D	09/02/2021 15:02

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8585	02	1.000	0.8017	03	2.000	0.8029	04	5.000	0.8101
05	20.000	0.7424	06	50.000	0.8241	07	100.000	0.7763	08	150.000	0.8016
09	200.000	0.7877									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.128	02	1.000	0.9369	03	2.000	0.935	04	5.000	1.054
05	20.000	0.9801	06	50.000	1.034	07	100.000	0.9778	08	150.000	0.9915
09	200.000	0.9683									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5512	02	1.000	0.448	03	2.000	0.4884	04	5.000	0.5264
05	20.000	0.46	06	50.000	0.4824	07	100.000	0.4687	08	150.000	0.4779
09	200.000	0.4735									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5456	05	20.000	0.4792	06	50.000	0.497	07	100.000	0.5099
08	200.000	0.5076									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.2814	05	20.000	0.2613	06	50.000	0.2697	07	100.000	0.2769
08	200.000	0.2716									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3361	02	1.000	0.3286	03	2.000	0.3224	04	5.000	0.2847
05	20.000	0.262	06	50.000	0.2781	07	100.000	0.2598	08	150.000	0.2624
09	200.000	0.2594									

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2109484
Calibration Date: 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

Analyte

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.394	05	20.000	1.184	06	50.000	1.287	07	100.000	1.289
08	200.000	1.243									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3717	02	1.000	0.4206	03	2.000	0.3682	04	5.000	0.381
05	20.000	0.3263	06	50.000	0.3391	07	100.000	0.3171	08	150.000	0.3294
09	200.000	0.3136									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7912	02	1.000	0.6684	03	2.000	0.6636	04	5.000	0.7104
05	20.000	0.6316	06	50.000	0.686	07	100.000	0.6456	08	150.000	0.6517
09	200.000	0.6386									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7145	02	1.000	0.6919	03	2.000	0.6405	04	5.000	0.5991
05	20.000	0.5433	06	50.000	0.5917	07	100.000	0.5729	08	150.000	0.5864
09	200.000	0.575									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6083	02	1.000	0.5661	03	2.000	0.5046	04	5.000	0.5603
05	20.000	0.4835	06	50.000	0.526	07	100.000	0.5091	08	150.000	0.522
09	200.000	0.5082									

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2109484
Calibration Date: 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	4.0	20	0.8006	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	6.2	20	1.001	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	6.7	20	0.4863	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	4.8	20	0.5079	
Dibromofluoromethane	SURR	Average RF	% RSD	2.8	20	0.2722	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	11.1	20	0.2882	0.200
Toluene-d8	SURR	Average RF	% RSD	6.0	20	1.279	
Trichloroethene (TCE)	TRG	Average RF	% RSD	10.2	20	0.3519	0.200
Vinyl Chloride	TRG	Average RF	% RSD	7.3	20	0.6763	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	9.4	20	0.6128	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	7.3	20	0.532	0.100

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton

Service Request: R2109484
Calibration Date: 9/2/2021

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC2100117
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2100117-10	ICV-50	I:\ACQUDATA\msvoa12\Data\090221\K6368.D	09/02/2021 16:40

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	49.9	8.006E-1	7.992E-1	-0.174	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.1	1.001E0	9.833E-1	-1.732	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	47.8	4.863E-1	4.654E-1	-4.304	±30	Average RF
Tetrachloroethene (PCE)	50.0	46.6	2.882E-1	2.685E-1	-6.836	±30	Average RF
Trichloroethene (TCE)	50.0	45.2	3.519E-1	3.179E-1	-9.658	±30	Average RF
Vinyl Chloride	50.0	51.9	6.763E-1	7.015E-1	3.72	±30	Average RF
cis-1,2-Dichloroethene	50.0	48.3	6.128E-1	5.925E-1	-3.315	±30	Average RF
trans-1,2-Dichloroethene	50.0	48.2	5.32E-1	5.133E-1	-3.513	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.4	5.079E-1	5.119E-1	0.786	±30	Average RF
Dibromofluoromethane	50.0	53.2	2.722E-1	2.896E-1	6.39	±30	Average RF
Toluene-d8	50.0	51.3	1.279E0	1.313E0	2.66	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request: R2109484
Date Analyzed: 09/20/21 10:49

**Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved**

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa12\Data\092021\K6854.D\
Signal ID: 1

Calibration Date: 9/2/2021
Calibration ID: RC2100117
Analysis Lot: 739267
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	53.6	0.8006	0.859	7.3	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	56.4	1.0007	1.1283	12.8	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	56.3	0.4863	0.5476	12.6	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	52.1	0.2882	0.3004	4.3	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.1	0.3519	0.3594	2.1	NA	±20	Average RF
Vinyl Chloride	50.0	56.1	0.6763	0.7585	12.1	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	53.8	0.6128	0.6592	7.6	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	55.2	0.532	0.5872	10.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	53.5	0.5079	0.5435	7.0	NA	±20	Average RF
Dibromofluoromethane	50.0	53.4	0.2722	0.2906	6.7	NA	±20	Average RF
Toluene-d8	50.0	55.1	1.2794	1.4101	10.2	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:739267
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUADATA\msvoa12\Data\092021\K6853.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	10:20:00	
I:\ACQUADATA\msvoa12\Data\092021\K6854.D\	Continuing Calibration Verification	RQ2111589-02	9/20/2021	10:49:00	
I:\ACQUADATA\msvoa12\Data\092021\K6855.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	11:15:00	
I:\ACQUADATA\msvoa12\Data\092021\K6856.D\	Lab Control Sample	RQ2111589-04	9/20/2021	11:36:00	
I:\ACQUADATA\msvoa12\Data\092021\K6858.D\	Method Blank	RQ2111589-05	9/20/2021	12:28:00	
I:\ACQUADATA\msvoa12\Data\092021\K6859.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	12:50:00	
I:\ACQUADATA\msvoa12\Data\092021\K6860.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	13:12:00	
I:\ACQUADATA\msvoa12\Data\092021\K6861.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	13:34:00	
I:\ACQUADATA\msvoa12\Data\092021\K6862.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	13:56:00	
I:\ACQUADATA\msvoa12\Data\092021\K6863.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	14:17:00	
I:\ACQUADATA\msvoa12\Data\092021\K6864.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	14:39:00	
I:\ACQUADATA\msvoa12\Data\092021\K6866.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	15:22:00	
I:\ACQUADATA\msvoa12\Data\092021\K6867.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	15:44:00	
I:\ACQUADATA\msvoa12\Data\092021\K6868.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	16:06:00	
I:\ACQUADATA\msvoa12\Data\092021\K6869.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	16:28:00	
I:\ACQUADATA\msvoa12\Data\092021\K6870.D\	MW-16-091421	R2109484-011	9/20/2021	16:49:00	
I:\ACQUADATA\msvoa12\Data\092021\K6874.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	18:16:00	
I:\ACQUADATA\msvoa12\Data\092021\K6875.D\	MW-11-091421	R2109484-004	9/20/2021	18:38:00	
I:\ACQUADATA\msvoa12\Data\092021\K6876.D\	Dup-091421	R2109484-012	9/20/2021	18:59:00	
I:\ACQUADATA\msvoa12\Data\092021\K6877.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	19:21:00	
I:\ACQUADATA\msvoa12\Data\092021\K6878.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	19:43:00	
I:\ACQUADATA\msvoa12\Data\092021\K6879.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	20:04:00	
I:\ACQUADATA\msvoa12\Data\092021\K6880.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	20:26:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover Binghamton/5101.0003

Service Request:R2109484

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:739267
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\092021\K6881.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	20:48:00	
I:\ACQUDATA\msvoa12\Data\092021\K6882.D\	ZZZZZZZ	ZZZZZZZ	9/20/2021	21:10:00	

Analysis: 8260+024 water Analyst: E. Duest pH strips: 205521 Tune Method: W050231
 Date: 9/20/21 Balance ID: N/A ResCl strips: 102420 Run Method: ↓
 Instr: 12 50 mL Class A used for dilution FV Syringes: 217091 LIMS Run#: 739267

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BVL							V0851		
2	↓							V0852		
2	TUNE		10211589.01					V0853	Y	(auto) 10:20
1	CEV		02					V0854	Y	
1	LIS.FP		03					V0855	Y	
2	LIS.vmp		04					V0856	Y	
1	BVL							V0857	Y	
2	MRLV.vmp		05					V0858	Y	CPIC10
3	MRLV.FP							V0859	Y	
4	P2109527.003	1.0						V0860	Y	
5	↓	1.0						V0861	Y	
6	P2109509.005	1.0						V0862	Y	
7	↓	1.0						V0863	Y	
8	P2109594.001	1.0						V0864	Y	
9	P2109595.001	1.0						V0865	Y	
10	P2109692.002	1.0	50 (1/50mls)					V0866	Y	not 10
11	↓	1.0						V0867	Y	
12	↓	1.0						V0868	Y	
13	↓	1.0						V0869	Y	
14	P2109484.011	1.0						V0870	Y	
15	↓	1.0	5/50mls					V0871	Y	not 1.0
16	↓	1.0	↓					V0872	Y	↓
17	BVL							V0873	Y	
18	↓	1.0	(N/D)					V0874	Y	
19	↓	1.0						V0875	Y	
20	↓	1.0						V0876	Y	
21	P2109344.018	3SD	1/20mls					V0877	Y	(D) mek
22	P2109575.001	10	5/50mls					V0878	Y	
23	P2109575.001	1.0						V0879	Y	
24	↓	1.0						V0880	Y	(Sediment) ↓
25	P2109444.009	1.0	ms					V0881	Y	
26	↓	1.0	msd					V0882	Y	

SPD Primary Out: 218147
 Primary Ft: 219026
 Primary T6: 218976
 Primary Hse: 218923

All samples = 5 mL + 5 mL combined IS/Surr. 5 mL purged
 -10uL
 Surrogate SD: 219023
 Internal Std SD: 219024
 Reagents:

SPD Secondary Out: 219150
 SPD Secondary T6: 219170
 SPD Secondary Hse: 218948

Secondary
 Secondary
 Secondary

Handwritten notes:
 50mls / 4.2uL
 10mls = ms/d

Appendix C



ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) SYSTEM INSPECTION LOG
Former Dover Electronics Site, Binghamton, NY (5101.0003)

Date	Time	System On? (Y/N)	E-1	E-2	E-3	E-4	Comments
			Vacuum Gauge Reading (inch w.c.)	Vacuum Gauge Reading (inch w.c.)	Vacuum Gauge Reading (inch w.c.)	Vacuum Gauge Reading (inch w.c.)	
1/13/2020	14:45	Y	2.25	1.88	0.88	1.25	
2/10/2020	15:00	Y	2.38	2.00	0.88	1.38	
3/17/2020	8:10	Y	2.36	2.06	0.19	1.25	
4/27/2020	-	-	-	-	-	-	Facility closed due to COVID-19
5/18/2020	16:25	Y	1.50	2.00	0.88	1.38	
6/15/2020	14:45	Y	2.38	2.13	0.88	1.38	
7/20/2020	15:00	Y	2.38	2.00	1.50	1.13	
8/17/2020	14:45	Y	2.25	2.00	1.63	1.13	
9/23/2020	8:00	Y	2.38	2.00	0.88	1.13	
10/26/2020	15:00	Y	2.25	2.00	0.88	1.88	
11/16/2020	14:45	Y	2.38	2.00	0.88	1.63	
12/14/2020	14:45	Y	2.38	2.00	1.00	1.50	
1/18/2021	15:00	Y	2.38	1.75	0.75	1.38	
2/8/2021	15:00	Y	2.25	1.63	0.75	1.25	
3/8/2021	18:30	Y	2.25	2.00	1.13	1.50	
4/19/2021	15:00	Y	2.55	2.10	0.80	1.40	
5/17/2021	15:00	Y	2.45	2.10	1.00	1.50	
6/21/2021	15:00	Y	2.38	1.75	1.00	1.38	
7/14/2021	14:52	Y	2.75	1.88	1.13	1.50	
8/16/2021	15:02	Y	2.38	2.13	0.88	1.50	
9/28/2021	15:05	Y	2.50	2.00	1.00	1.38	
10/25/2021	15:08	Y	2.50	2.00	0.88	1.50	
11/15/2021	15:35	Y	2.38	1.88	1.25	0.75	
12/17/2021	9:30	Y	2.25	2.33	1.38	1.00	



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Site No.: 7-04-024

Site Name: Former Binghamton Plastics Site

Site Address: 498 Conklin Avenue

Zip Code: 13903

City/Town: Binghamton

County: Broome

Site Acreage: 2.000

Reporting Period: January 1, 2021 to December 31, 2021

Box 1

YES NO

1. Is the information above correct?

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?

Commercial and Industrial

7. Are all ICs/ECs in place and functioning as designed?

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 7-04-024

Box 3

Description of Institutional Controls:

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
161.40-1-1	Chambers Street Development, LLC	Groundwater Use Restriction Land Use Restrictions

SITE NO. 7-04-024

Box 4

Description of Engineering Controls:

<u>Parcel</u>	<u>Engineering Control</u>
161.40-1-1	Vapor Mitigation System

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A corrective Measures Work Plan must be submitted along with this form to address these issues

Signature of Owner, Remedial Party or Designated Representative

Date

**IC CERTIFICATIONS
SITE NO. 704024**

Box 6


SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I D. Robert Gan at Verina Engineering, P.C., 1011 US Hwy. 22, Suite 302, Bridgewater, NJ 08807,
print name print business address

am certifying as Designated Representative of Dover Corporation (Owner or Remedial Party)

for the Site named in the Site Details Section of this form



Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

January 5, 2022
Date

EC CERTIFICATIONS

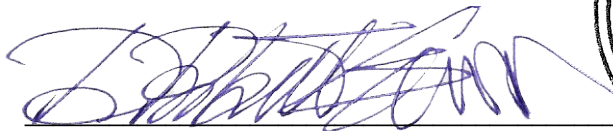
Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I D. Robert Gan at Verina Engineering, P.C., 1011 US Hwy. 22, Suite 302, Bridgewater, NJ 08807,
print name print business address

I am certifying as a Professional Engineer for the Dover Corporation (Owner or Remedial Party)



Signature of Professional Engineer for the Owner or Remedial Party, Rendering Certification



State
(Required for PE)

January 13, 2021
Date