

**ENI ENGINEERING, INC.**

**PRE-DESIGN INVESTIGATION  
REPORT**

**for the**

**OLEAN WELL FIELD  
SUPERFUND SITE  
OLEAN, NEW YORK**

**Project Code: 219-006**

**January 18, 2018**

**Prepared for:**



**ARCONIC**

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The Olean Well Field Superfund Site (“Superfund Site”) is located in the eastern portion of the City of Olean and east and south of the City in the Towns of Olean and Portville in Cattaraugus County, New York. The Olean Well Field Superfund Site incorporates three municipal wells and spans approximately 800 acres of property principally occupied by industrial facilities. The Allegheny River flows through the southwest and southern portions of the Superfund Site, and State Routes 16 and 417 provide access to the area. Figure 1-1 is an excerpt from a United States Geological Survey (“USGS”) 7.5-minute topographical quadrangle map showing the locations of the Superfund Site as well as topographic features.

### 1.1 Project History

The United States Environmental Protection Agency (“EPA”) has divided the Superfund Site into operable units (OUs) for remediation purposes. Operable Unit 1 (“OU1”) addresses the drinking water supply for the City and Town of Olean. OU2 addresses the sources of volatile organic compound (“VOC”) contamination to groundwater at four identified source areas: Alcas/Cutco Cutlery Corporation (Alcas); Loohn’s Dry Cleaners and Launderers (Loohn’s); McGraw-Edison Company (McGraw); and AVX Corporation (AVX). Following an investigation of the Superfund Site, the EPA added the Olean Well Field to the National Priorities List in September 1983. Between 1983 and 1985, the EPA conducted a broad-scale remedial investigation and feasibility study (“RI/FS”) of the Superfund Site. Based on the results of the supplemental RI/FS, EPA issued a Record of Decision (ROD) for OU2 on September 30, 1996. In 2014, EPA issued a ROD Amendment for a portion of the Superfund Site currently occupied by the Alcas facility (hereinafter referred to as “Alcas Source Area”).

The Alcas facility has manufactured cutlery and sporting knives 1116 East State Street since 1949. As part of the manufacturing process, the Alcas facility formerly used trichloroethene (“TCE”) in on site vapor degreasers. It was determined that soils and groundwater were impacted with TCE and other chlorinated constituents on the Alcas Source Area property. These impacts were found to have established pathways of migration to the Alcas Source Area’s Upper Water Bearing Zone and Lower Aquifer (hereinafter referred to as the “City Aquifer”).

The Alcas Source Area also includes several parcels of land to the south of the Alcas Facility that are impacted by contaminated groundwater including, but not necessarily limited to parcels identified on the City of Olean tax map as Block 2, Lots 23, 24 and a portion of Lot 44 (collectively, these parcels are hereafter referred to as Parcel B). OU3 has been developed to address groundwater contamination at Parcel B. The Alcas Facility and Parcel B hereafter constitute the Alcas Source Area. In 2014, EPA issued a ROD for OU3.

One major component of the updated ROD for OU2 for TCE-impacted groundwater at OU2 (EPA 2014) included additional sampling during the pre-remedial design phase to determine whether an upgradient source of groundwater contamination is present in the northern portion of the Alcas facility or off-property. Monitor Well RU-1 is located just to the south of E. State Street in the Alcas parking lot. This well is located north of the Main Building, as is shown on Figure 1-2. The source area is present beneath the Main Building and migrating to the southeast, in the direction of groundwater flow and away from well RU-1. Concentrations of TCE have been historically detected in the groundwater samples collected from this well. Further

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investigation was determined to be necessary to determine if the TCE present in groundwater is due to a source other than the Alcas Source Area.

### 1.2 Project Objective and Tasks

The objective of the Pre-Design Investigation (PDI) was to determine if the TCE found at former well RU-1 is from an up gradient, off-site source. To accomplish the project objective, specific project tasks were outlined in the *Pre-design Investigation Work Plan* as approved by EPA in consultation with New York State Department of Environmental Conservation and New York State Department of Health on February 6, 2017.

The specific project tasks were as follows:

- Well Installation
- Groundwater Elevation Assessment
- Water Quality Assessment

#### 1.2.1 Well Installation

Five new groundwater monitoring wells and one replacement groundwater monitoring well for RU-1 were to be installed to determine the TCE concentration in the Upper Water Bearing Zone near existing well RU-1 and to better understand the groundwater flow in the area. Generally, groundwater flows from west to east at the Alcas Source Area due to the influence of City Well 18M. Therefore, locations of the new wells were selected to give a more detailed model of TCE concentrations present upgradient of the Alcas Source Area, near the edge of Alcas property.

#### 1.2.2 Groundwater Elevation Assessment

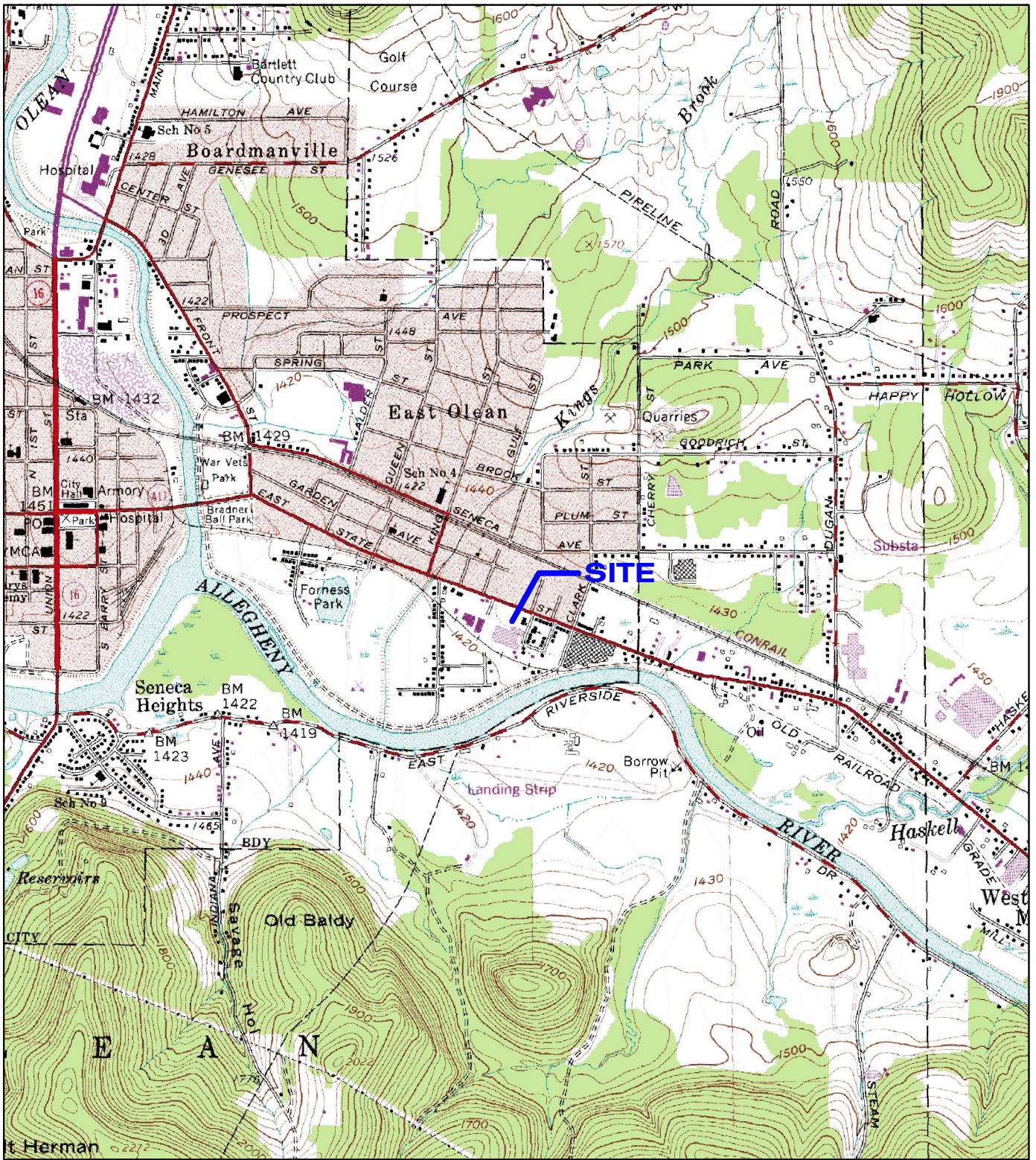
As stated above, groundwater at the Alcas Source Area generally flows from west to east due to the influence of City Well 18M. To better understand the groundwater flow north of the Alcas Source Area, groundwater elevation data was collected from selected existing and newly installed wells.

#### 1.2.3 Water Quality Assessment

Groundwater samples from the source and plume zones have been collected at the Alcas Source Area for several years. An understanding of the extent of soil and groundwater impacts has been documented and a reasonable understanding of the site conceptual model has been presented to the agency.

However, to determine if the TCE exceedance found at well RU-1 is migrating from an up gradient, offsite source, better understanding of groundwater quality was needed. Groundwater samples were collected from newly installed wells and analyzed to determine if the TCE exceedance found at well RU-1 is migrating from an upgradient, off-site source to Alcas property.





TOPOGRAPHIC EXCERPT FROM 7.5 MINUTE QUADRANGLE  
 SOURCE: UNITED STATES GEOLOGICAL SURVEY  
 OLEAN, NEW YORK QUADRANGLE (1980)



NEW YORK QUADRANGLE LOCATION  
 SCALE: 1:24,000  
 CONTOUR INTERVAL: 10 FEET

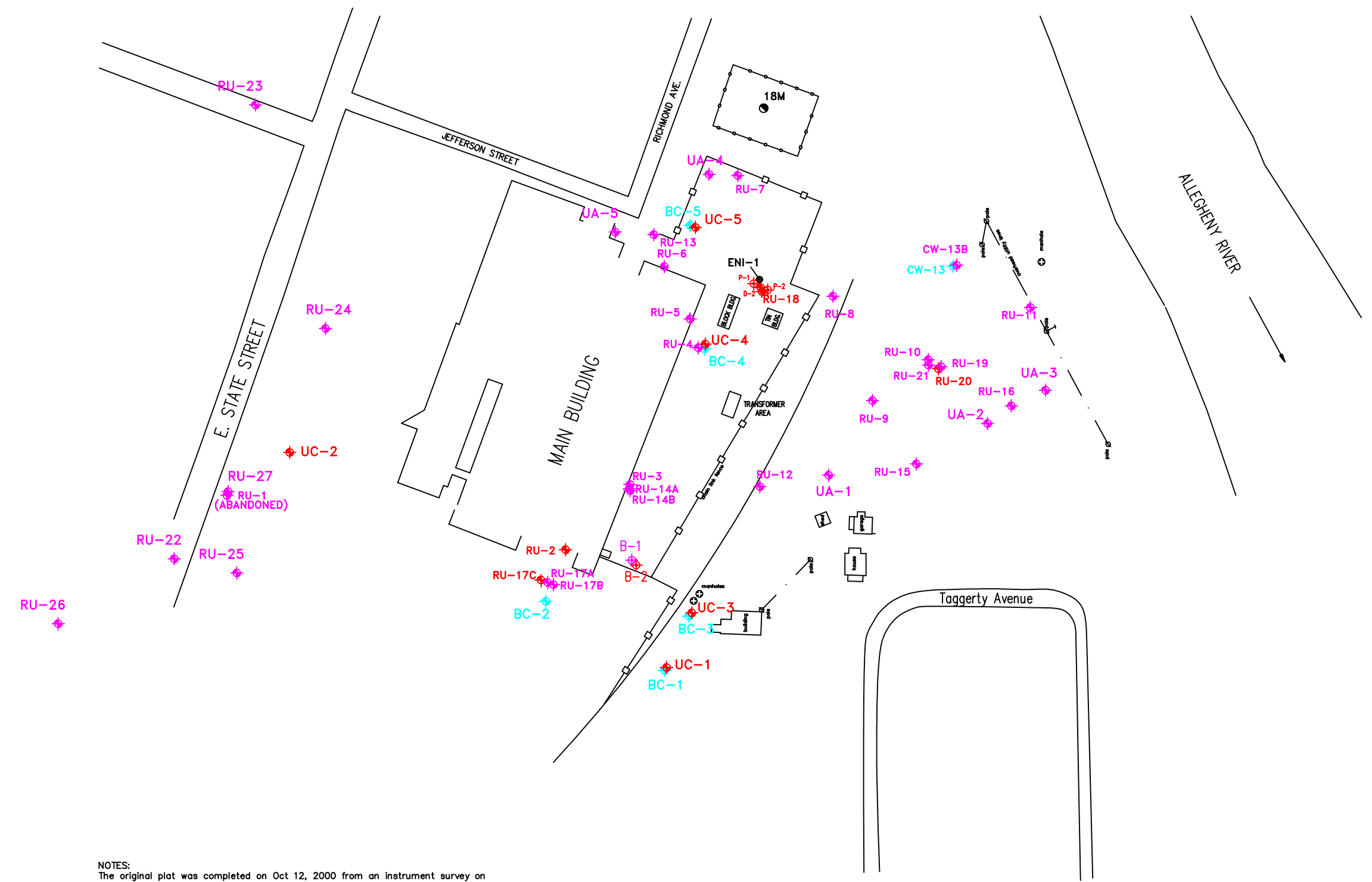
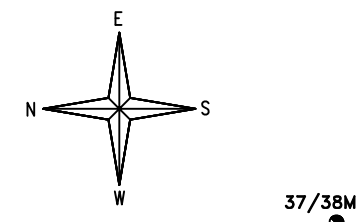


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FIGURE 1-1  
 EXCERPT FROM USGS  
 TOPOGRAPHIC MAP  
 ALCAS FACILITY  
 OLEAN, NEW YORK

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**LEGEND**

- BC-1 LOWER (BOTTOM) CITY AQUIFER WELLS
- UC-1 UPPER CITY AQUIFER WELLS
- UA-1 UPPER WATER BEARING ZONE WELLS
- SW-14 EXISTING MONITORING WELLS
- RU-12 NEW MONITORING WELLS
- 18M PUBLIC WATER WELL
- ENI-1 BORING
- - - PROPERTY BOUNDARY
- FENCE

0 75 150 300  
SCALE IN FEET

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FIGURE 1-2  
SITE MAP

ALCAS FACILITY  
OLEAN, NEW YORK

**NOTES:**  
 The original plat was completed on Oct 12, 2000 from an instrument survey on Oct. 6, 1999 & Oct. 2 & 4, 2000 by Robert C. Ackerman, P.L.S No. 49845.  
 All elevations were taken on the top of the 2" PVC pipe casing around the 1" PVC well pipe and were marked thereon with a black marker pen.  
 Elevation datum from the City of Olean, Engineering Office, Olean, NY. Base being USGS.  
 Locations and elevations were updated using a December 22, 2011 instrument survey by D. Michael Canada, N.Y.S. Lic. No. 49215.  
 Locations of RU-22 through RU-27 are approximate.

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As part of the first task of the 2017 PDI activities, groundwater monitoring wells were installed to determine the TCE concentration in the Upper Water Bearing Zone near existing well RU-1 and to better understand the groundwater flow in the area. Generally, groundwater flows from west to east at the Alcas Source Area due to the influence of City Well 18M. Therefore, locations of the new wells were selected to give a more detailed understanding of TCE concentrations present upgradient of the Alcas Source Area, near the edge of Alcas property.

### 2.1 Well Installation

On September 11 through 15, 2017, five new 2-inch diameter monitoring wells (RU-22 through RU-26) and a 2-inch replacement monitoring well for RU-1 (RU-27) were installed upgradient of the Alcas Source Area. The monitoring wells were installed using a truck mounted hollow stem auger rig operated by SJB Services, Inc. out of Hamburg, New York. Undisturbed soil cores were collected continuously from each monitoring well location using a split spoon sampler. The soil cores were examined and logged by a qualified geologist in the field by describing lithology, mineralization, color, texture, and other relevant features.

Each monitoring well was completed within the first encountered groundwater bearing unit. These wells were constructed of 2-inch diameter flush-threaded Schedule 40 PVC screen and casing with the screen machine slotted to 0.010 inch. A sand pack was placed from the bottom of the well to at least 2 feet above the top of the screen. A minimum 2-foot bentonite plug was placed on top of the sand pack. The bentonite plug was constructed using bentonite pellets placed on top of the sand pack. The pellets were allowed to hydrate before grouting the well. The remaining annulus was grouted to land surface using cement and bentonite slurry. The monitoring wells were completed with flush-mounted completions. Flush mount completions included a steel 18-inch bolt-down vault with a 2-foot by 2-foot by 4-inch thick concrete pad. Boring logs and well construction details are provided in Appendix A. Details on the new wells are provided in Table 2-1.

Table 2-1 New Monitoring Well Construction Details

Well Number	Date of Installation	Installation Method	Diameter	Material of Construction	Top of Casing Elevation (feet)	Total Depth (Below Grade)	Screened Interval (Feet Below Grade)		Screened Interval (Elevation)	
RU-22	9/13/2017	HSA	2"	PVC	1428.91	24'	14	24	1414.91	1404.91
RU-23	9/14/2017	HSA	2"	PVC	1430.88	35.5'	25.5	35.5	1405.38	1395.38
RU-24	9/15/2017	HSA	2"	PVC	1429.51	27'	17	27	1412.51	1402.51
RU-25	9/12/2017	HSA	2"	PVC	1427.97	34'	24	34	1403.97	1393.97
RU-26	9/14/2017	HSA	2"	PVC	1429.13	22'	12	22	1417.13	1407.13
RU-27	9/11/2017	HSA	2"	PVC	1429.59	25'	15	25	1414.59	1404.59

HSA -- hollow-stem auger

The wells were developed by alternately surging and pumping the wells until the wells produced clear water that was relatively free of suspended solids. Water generated during the development was containerized and transferred to the Alcas facility for disposal. The ground surface and top of casing elevations were surveyed after completion of the wells.

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Groundwater elevations and samples were collected from the newly installed wells as part of the Water Quality Assessment work conducted for this study. Results of that sampling are discussed in Sections 3.0 and 4.0.

## 3.0 GROUNDWATER ELEVATION ASSESSMENT

The second task of the 2017 PDI activities focused on assessing Alcas Source Area -wide and regional flow patterns in the upper water-bearing zone (“UWBZ”).

### 3.1 Alcas Source Area Geology and Hydrogeology

The geology at the Alcas Source Area is characteristic of glacial deposit. Alcas Source Area soils transition downward from primarily a finer sediment unit typical of glacial till near land surface to a coarse glacial outwash unit of high permeability, to a glacio-lacustrine clay encountered in boreholes at 82 to 97 feet below land surface (“bls”).

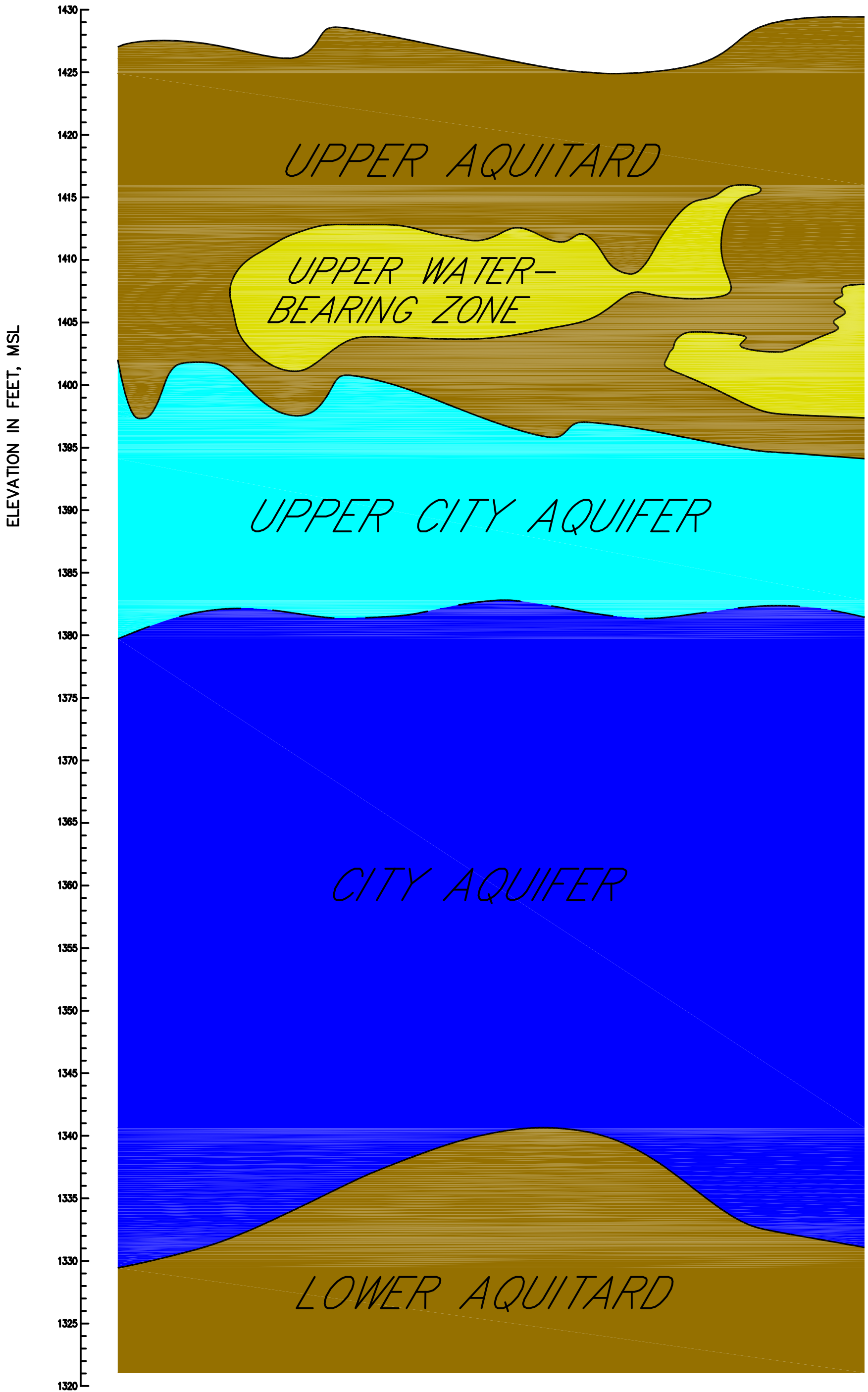
In previous investigations the overlying glacial till unit has been routinely encountered at approximately 0 to 12 feet bls, and had varied in thickness across a majority of the Alcas Source Area between 16 and 29 feet. The till unit was identified by its olive gray color and/or the gravel content and is commonly referred to as the Upper Aquitard based on its generally low permeability. This unit contained 50 to 97 percent clay in the historical sieve analyses. The thickness of the till has been highly variable across the Alcas Source Area. Within this unit, a discontinuous thicker and somewhat coarser sequence of sediments may provide preferential pathways for water and constituent migration, and this discontinuous lens (or lenses) has been referred to in this document as the UWBZ.

The glacial outwash unit has been encountered below the Upper Aquitard from approximately 25 to 35 feet bls, and varies in thickness between 54 and 72 feet across the Alcas Source Area. This unit is very permeable, and yields significant quantities of water. The City Aquifer hydrogeologic unit is primarily contained within the glacial outwash geologic unit at the Alcas Source Area. As noted above, glaciolacustrine clays provide an effective bottom boundary to the City Aquifer between roughly 80 and 100 feet bls. A simplified depiction of the hydrogeologic units at the Alcas Source Area is provided in Figure 3-1.

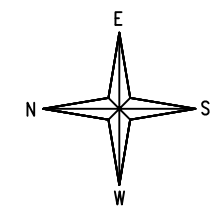
### 3.2 Groundwater Flow in the UWBZ

On November 1, 2017, field personnel collected groundwater elevation data for selected wells. These wells or piezometers were selected because their screened intervals represent the horizontal flow component within the targeted UWBZ. Each well was gauged from the top of casing with an electronic resistivity probe, which measured the depth to water level.

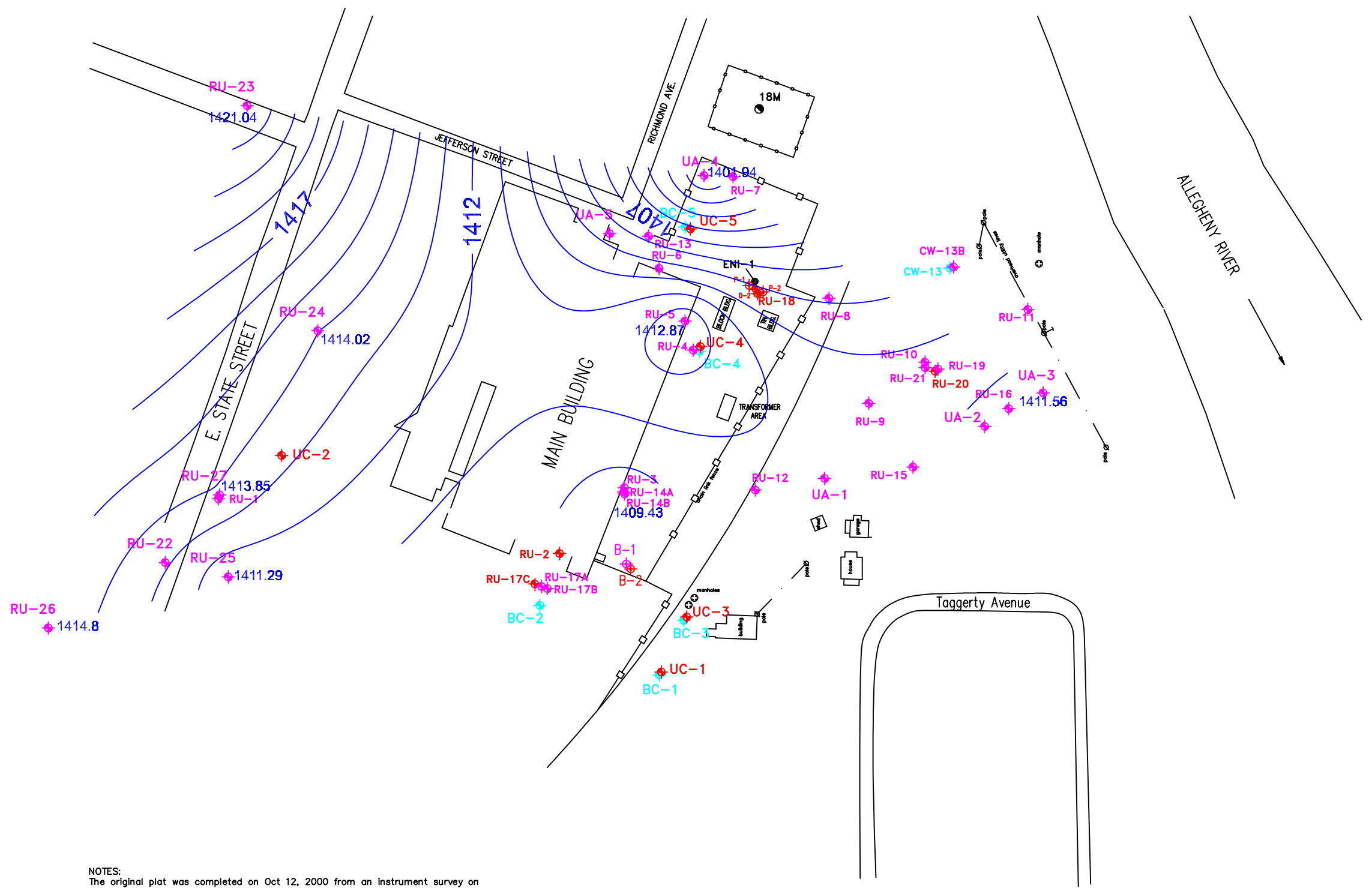
Groundwater elevation measurements were used to construct a potentiometric surface map using Surfer®, a contouring and 3D surface mapping program written by Golden Software. The potentiometric surface map presented as Figure 3-2 is based on data collected at the Alcas Source Area on November 1, 2017. The potentiometric surface contour lines indicate flow in the UWBZ north of the Alcas Source Area is generally to south to towards the Allegheny River. Consistent with historical patterns seen in the potentiometric surface, groundwater flow north of the Alcas Source Area generally trends to the south towards the Allegheny River until a point under the Main Building, where groundwater flow turns to the east due to the pumping effects of City Well 18M. This flow regime is consistent with historical groundwater elevation data and groundwater modeling results as presented in the July 24, 2014, revised *Focused Feasibility Study* (“FFS”).



<b>ENI ENGINEERING, INC</b>		
FIGURE 3-1 GENERALIZED HYDROGEOLOGIC PROFILE ALCAS FACILITY OLEAN, NEW YORK		
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**LEGEND**

- BC-1 LOWER (BOTTOM) CITY AQUIFER WELLS
- UC-1 UPPER CITY AQUIFER WELLS
- UA-1 UPPER WATER BEARING ZONE WELLS
- SW-14 EXISTING MONITORING WELLS
- RU-12 NEW MONITORING WELLS
- 18M PUBLIC WATER WELL
- ENI-1 BORING
- - - PROPERTY BOUNDARY
- □ — FENCE

0 75 150 300  
SCALE IN FEET

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FIGURE 3-2  
UWBZ POTENTIOMETRIC  
SURFACE MAP – NOV 2017

ALCAS FACILITY  
OLEAN, NEW YORK

DRAWN BY: MW	DATE: 11/03/2017	PROJ. NO. 219-006
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**NOTES:**  
The original plat was completed on Oct 12, 2000 from an instrument survey on Oct. 6, 1999 & Oct. 2 & 4, 2000 by Robert C. Ackerman, P.L.S No. 49845.

All elevations were taken on the top of the 2" PVC pipe casing around the 1" PVC well pipe and were marked thereon with a black marker pen.

Elevation datum from the City of Olean, Engineering Office, Olean, NY. Base being USGS.

Locations and elevations were updated using a December 22, 2011 instrument survey by D. Michael Canada, N.Y.S. Lic. No. 49215.

Locations of RU-22 through RU-27 are approximate.

Groundwater elevation data was collected November 1, 2017.

Groundwater samples were collected from newly installed wells and submitted for laboratory analysis to determine if the TCE historically found at well RU-1 was migrating from an up gradient, offsite source onto the Alcas property.

### 4.1 Sampling Procedures

On September 27, 2017, samples were collected from newly installed monitoring wells using low stress/low flow sampling techniques. Offsite monitoring wells SW-11 and CW-12 could not be located and may have been paved over, therefore these wells were not sampled. During well purging and immediately prior to sampling, field parameters were monitored and recorded. The field parameters monitored were: dissolved oxygen; oxidation/reduction potential; pH; temperature; specific conductivity; and turbidity. It should be noted that well RU-25 purged dry prior to the stabilization of field parameters.

During sampling activities, precautions were taken so that sampling materials and equipment did not contact the ground or other surfaces. Samples were retrieved from the wells and placed into clean, laboratory-prepared sample containers. Each sample container was labeled with the sample number; the identity of the sampler; the time and date of collection; the preservatives (if any); and the required analyses. The samples were packaged securely and immediately placed on ice to cool. The samples were transported to ALS Environmental of Rochester, New York following strict chain-of-custody protocol for analysis for chlorinated VOCs via EPA Method 8260B.

### 4.2 Analytical Results

A summary of the field data and groundwater sampling results are provided in Tables 4-1 and 4-2. Laboratory reports and completed chain of custody forms are provided in Appendix B. A Data Usability Summary is provided in Appendix C.

Concentrations of two chlorinated VOCs, TCE and cis-1,2-dichloroethylene (“cDCE”), were detected in four (RU-22, RU-24, RU-25, and RU-27) of the six wells sampled on September 27, 2017. The concentrations of TCE ranged from 0.015 mg/L at RU-25 to 0.023 mg/L at RU-24. The concentration of cDCE ranged from 0.0014 mg/L at RU-24 to 0.0026 mg/L at RU-22. No chlorinated VOCs were detected in RU-23 or RU-26. Groundwater analytical results, with respect to each well, are presented on Figure 4-1.

Well RU-22, located off-site in the center of East State Street and upgradient of the Alcas Source Area, contained concentrations of TCE (0.018 mg/L) and cDCE (0.0022 mg/L). Wells RU-24, RU-25, and RU-27, located in the northern portion of the site but upgradient of the Alcas Source Area, contained low level concentrations of TCE and cDCE as well.

The recent groundwater analytical results confirm low level chlorinated VOCs concentrations, consistent with the historical data seen at RU-1, north of the Alcas property.



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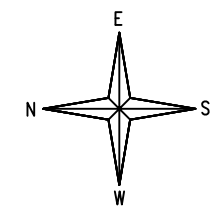
**Table 2-4  
Groundwater Analytical Results from September 2017 Sampling Event  
Former Alcas Facility  
Olean, New York**

Sample ID	Units	<i>RU-22</i>	<i>RU-22 DUP</i>	<i>RU-23</i>	<i>RU-24</i>	<i>RU-25</i>	<i>RU-26</i>	<i>RU-27</i>
<b>Lab ID</b>		R1709205-001	R1709205-007	R1709205-002	R1709205-003	R1709205-004	R1709205-005	R1709205-006
<b>Location</b>		<b>RU-22</b>	<b>RU-22</b>	<b>RU-23</b>	<b>RU-24</b>	<b>RU-25</b>	<b>RU-26</b>	<b>RU-27</b>
<b>Date</b>		9/27/2017	9/27/2017	9/27/2017	9/27/2017	9/27/2017	9/27/2017	9/27/2017
<b>Time</b>		10:35	10:35	13:20	14:50	18:05	12:10	16:10
<b>TOC Elevation</b>	<i>ft</i> <sup>1</sup>	1428.91	1428.91	1430.88	1429.51	1427.97	1429.13	1429.59
<b>Depth to Water</b>	<i>ft</i> <sup>2</sup>	15.15	15.15	9.53	14.31	16.85	14.05	15.40
<b>Water Elevation</b>	<i>ft</i> <sup>1</sup>	1413.76	1413.76	1421.35	1415.20	1411.12	1415.08	1414.19
<b>Sample Method</b>		<i>Low flow</i>	<i>Low flow</i>	<i>Low flow</i>	<i>Low flow</i>	<i>Low flow</i>	<i>Low flow</i>	<i>Low flow</i>
<b>pH</b>		7.63	7.63	6.30	7.92	NR	6.22	6.78
<b>Temperature</b>	<i>C</i>	20.16	20.16	15.73	17.73	NR	19.50	17.01
<b>Conductance</b>	<i>mS/cm</i>	1.041	1.041	0.573	1.013	NR	2.230	1.446
<b>Dissolved Oxygen</b>	<i>mg/L</i>	0.25	0.25	0.88	0.31	NR	1.41	0.16
<b>Oxidation Reduction Potential</b>	<i>mV</i>	-151	-151	88	-428	NR	127	-178
<b>Turbidity</b>	<i>NTU</i>	40	40	29	39	NR	23	25
<i>Notes:</i>								
<i>ft</i> <sup>1</sup> - Elevation in relation to the NAVD 88 Datum.								
<i>ft</i> <sup>2</sup> - Depth relative to top of casing (TOC).								
NR - No reading/Well dry prior to stabilization								

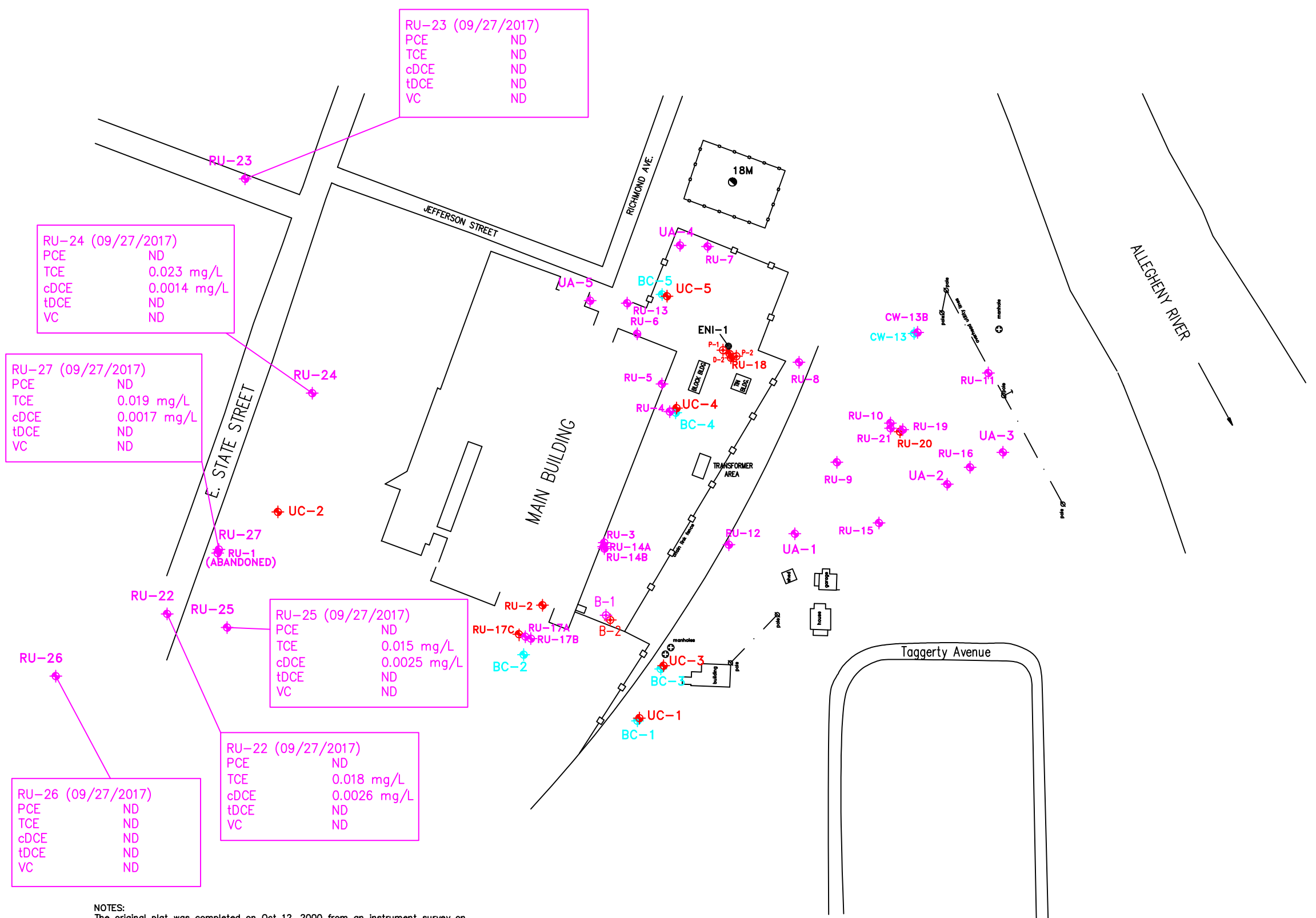
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**Table 2-5  
Groundwater Analytical Results from September 2017 Sampling Event  
Former Alcas Facility  
Olean, New York**

Sample ID	Units	MRL	<i>RU-22</i>	<i>RU-22 DUP</i>	<i>RU-23</i>	<i>RU-24</i>	<i>RU-25</i>	<i>RU-26</i>	<i>RU-27</i>	<i>Trip Blank</i>
<b>Lab ID</b>			R1709205-001	R1709205-007	R1709205-002	R1709205-003	R1709205-004	R1709205-005	R1709205-006	R1709205-008
<b>Location</b>			<b>RU-22</b>	<b>RU-22</b>	<b>RU-23</b>	<b>RU-24</b>	<b>RU-25</b>	<b>RU-26</b>	<b>RU-27</b>	<b>Trip Blank</b>
<b>Date</b>			9/27/2017	9/27/2017	9/27/2017	9/27/2017	9/27/2017	9/27/2017	9/27/2017	9/27/2017
<b>Time</b>			10:35	10:35	13:20	14:50	18:05	12:10	16:10	
<b>Tetrachloroethene</b>	<i>mg/l</i>	<i>0.001</i>	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001
<b>Trichloroethene</b>	<i>mg/l</i>	<i>0.001</i>	0.018	0.018	ND <0.001	0.023	0.015	ND <0.001	0.019	ND <0.001
<b>Vinyl chloride</b>	<i>mg/l</i>	<i>0.001</i>	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001
<b>cis-1,2-Dichloroethene</b>	<i>mg/l</i>	<i>0.001</i>	0.0026	0.0022	ND <0.001	0.0014	0.0025	ND <0.001	0.0017	ND <0.001
<b>trans-1,2-Dichloroethene</b>	<i>mg/l</i>	<i>0.002</i>	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001	ND <0.001
<i>Notes:</i>										
<i>ND - The analyte was not detected above laboratory RL.</i>										
<i>NS - Not sampled</i>										
<i>J - Analyte is present at an estimated concentration between the MDL and Report Limit</i>										
<i>NA - Not analyzed.</i>										



37/38M



RU-24 (09/27/2017)

PCE	ND
TCE	0.023 mg/L
cDCE	0.0014 mg/L
tDCE	ND
VC	ND

RU-23 (09/27/2017)

PCE	ND
TCE	ND
cDCE	ND
tDCE	ND
VC	ND

RU-27 (09/27/2017)

PCE	ND
TCE	0.019 mg/L
cDCE	0.0017 mg/L
tDCE	ND
VC	ND

RU-25 (09/27/2017)

PCE	ND
TCE	0.015 mg/L
cDCE	0.0025 mg/L
tDCE	ND
VC	ND

RU-26 (09/27/2017)

PCE	ND
TCE	ND
cDCE	ND
tDCE	ND
VC	ND

RU-22 (09/27/2017)

PCE	ND
TCE	0.018 mg/L
cDCE	0.0026 mg/L
tDCE	ND
VC	ND

NOTES:  
 The original plat was completed on Oct 12, 2000 from an instrument survey on Oct. 6, 1999 & Oct. 2 & 4, 2000 by Robert C. Ackerman, P.L.S No. 49845.  
 All elevations were taken on the top of the 2" PVC pipe casing around the 1" PVC well pipe and were marked thereon with a black marker pen.  
 Elevation datum from the City of Olean, Engineering Office, Olean, NY. Base being USGS.  
 Locations and elevations were updated using a December 22, 2011 instrument survey by D. Michael Canada, N.Y.S. Lic. No. 49215.  
 Locations of RU-22 through RU-27 are approximate.  
 Groundwater samples were collected September 27, 2017.

**LEGEND**

- BC-1 [Symbol] LOWER (BOTTOM) CITY AQUIFER WELLS
- UC-1 [Symbol] UPPER CITY AQUIFER WELLS
- UA-1 [Symbol] UPPER WATER BEARING ZONE WELLS
- SW-14 [Symbol] EXISTING MONITORING WELLS
- RU-12 [Symbol] NEW MONITORING WELLS
- 18M [Symbol] PUBLIC WATER WELL
- ENI-1 [Symbol] BORING
- - - PROPERTY BOUNDARY
- - - FENCE

0 75 150 300  
 SCALE IN FEET

**ENI ENGINEERING, INC**

FIGURE 4-1  
 GROUNDWATER ANALYTICAL  
 RESULTS MAP – SEPT 2017

ALCAS FACILITY  
 OLEAN, NEW YORK

DRAWN BY: MW	DATE: 11/03/2017	PROJ. NO. 219-006
-----------------	---------------------	----------------------

Historically, Alcas monitor Well RU-1, located south of E. State Street in the northern end of the Alcas parking lot has been shown to contain low levels of TCE. It has been contended that the source of the TCE was not from the Alcas site, but rather was migrating onto the property from the north. The OU2 updated ROD contained requirements that additional investigation was to be conducted during the pre-remedial design phase to determine whether TCE is migrating onto the Alcas site or is the result of a source on the property. In September 2017, five new 2-inch diameter wells (RU-22 through RU-26) and a 2-inch replacement well for RU-1 (RU-27) were installed upgradient of the Alcas Source Area. In November 2017, groundwater elevation measurements were collected and the wells sampled.

Consistent with historical patterns seen in the potentiometric surface, groundwater flow north of the Alcas site generally trends to the south towards the Allegheny River until a point under the Main Building, where groundwater flow turns to the east due to the pumping effects of City Well 18M. This flow regime is consistent with historical groundwater elevation data and groundwater modeling results as presented in the July 24, 2014, revised *Focused Feasibility Study* (“FFS”).

The recent groundwater analytical results confirm low level chlorinated VOCs concentrations consistent with the historical data seen at former monitoring well RU-1 and clearly establishes the presence of low level chlorinated VOCs concentrations north and offsite of the Alcas property. This indicates the presence and migration of chlorinated VOCs from up gradient and offsite of the Alcas property towards the Main Building on the Alcas site.

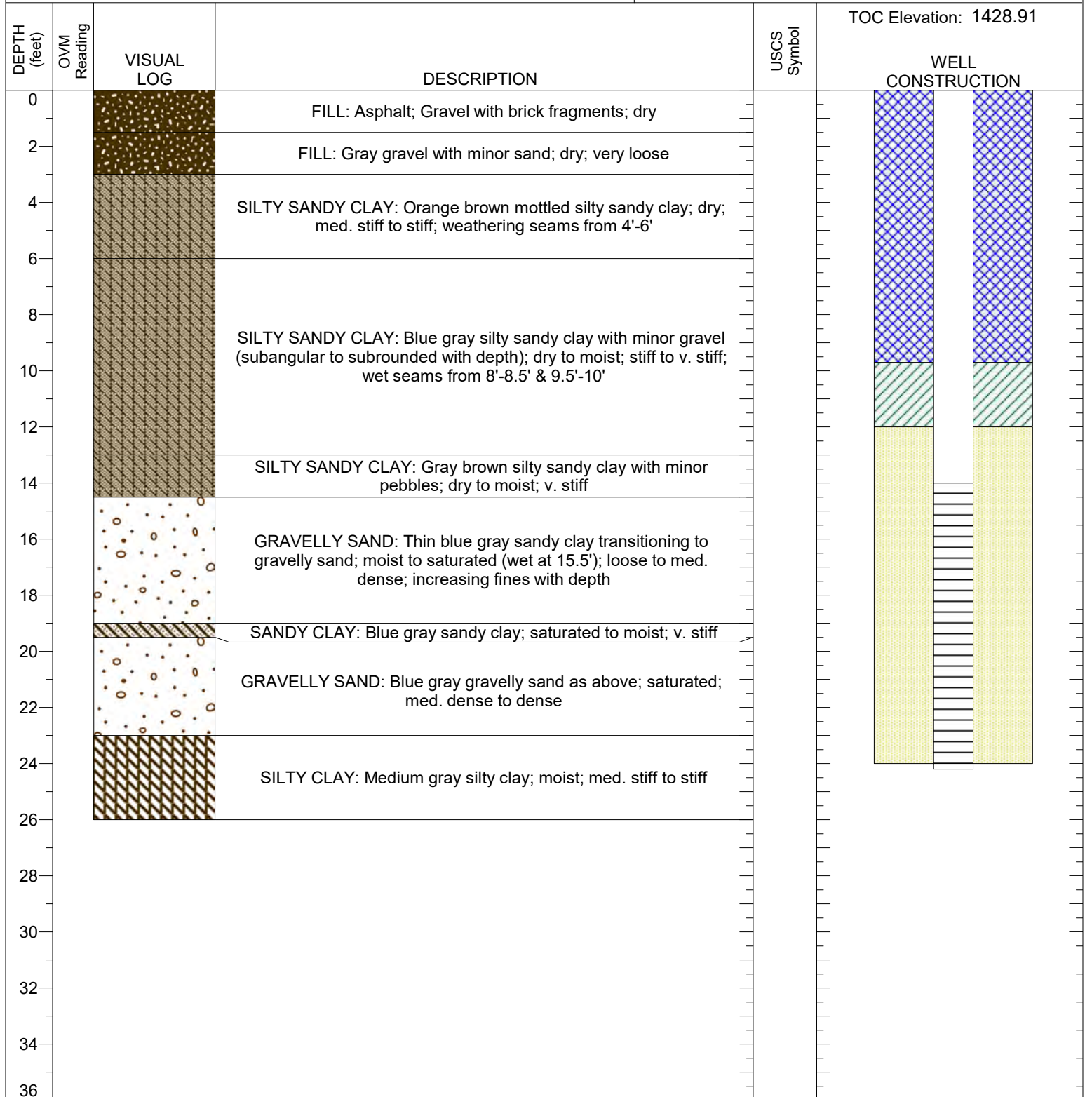
**ENI ENGINEERING, INC.**

**APPENDIX A**  
**Boring Logs and Well Construction Records**

# ENI ENGINEERING, INC.

Log of : **RU-22**

CLIENT:	Arconic	GROUND SURFACE ELEVATION AND DATUM: 1429.3	
PROJECT:	Former Alcas Facility - PDI Investigation	DATE COMPLETED: 9/13/2017	
PROJECT LOCATION:	Olean, NY	TOTAL DEPTH (ft.): 26'	BOREHOLE DIAMETER: 4.25"/8.25"
DRILLING COMPANY:	SJB Services, Inc.	CASING: 0-14'	SLOT SIZE: 0.010"
DRILLER:	A. Koske	SCREEN INTERVAL (ft.): 14-24'	
DRILLING METHOD:	CME-75; Hollow Stem Auger; Split Spoon	GEOLOGIST: M. Worden	



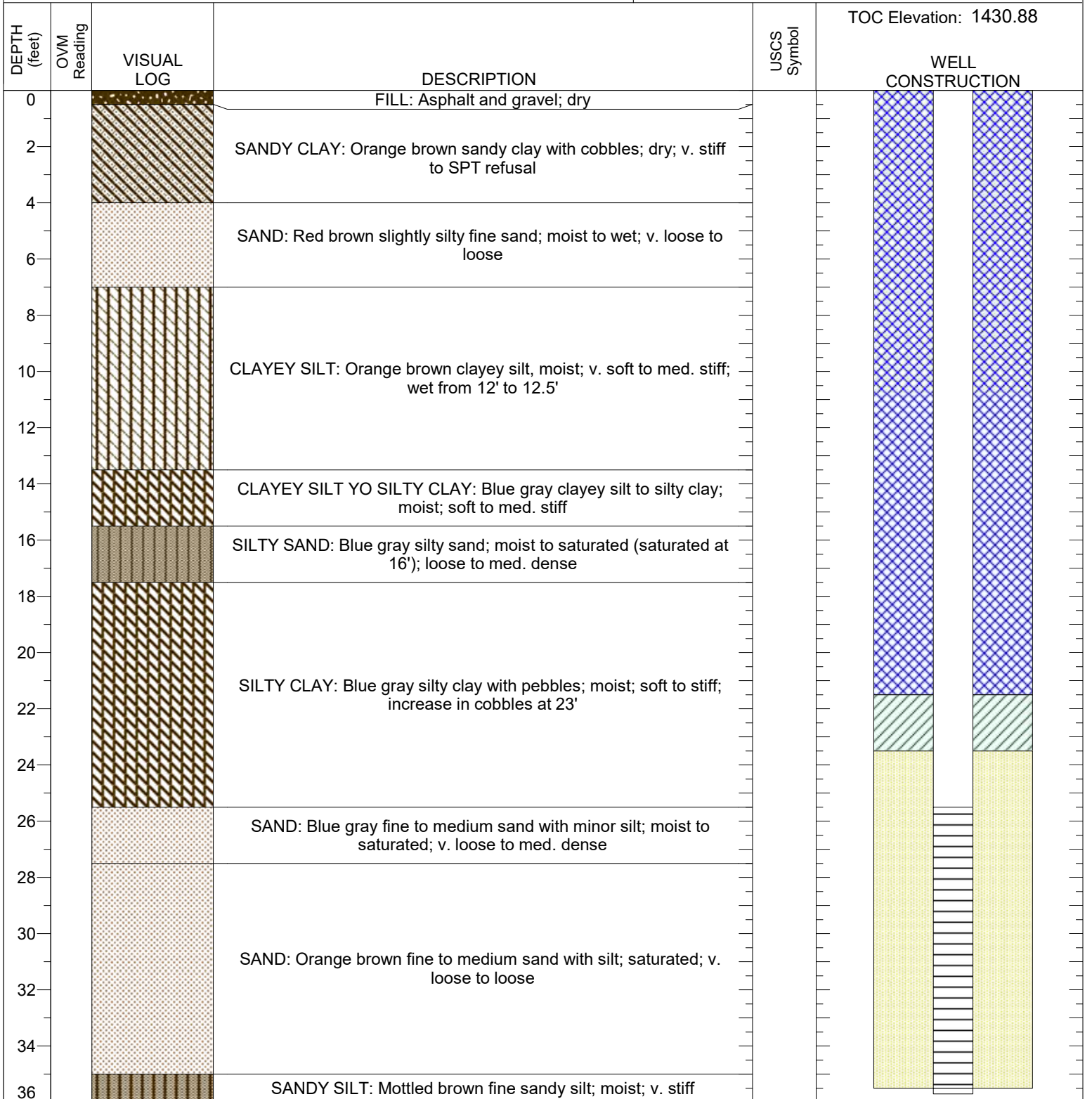
WELL COMPLETED FLUSH TO GRADE



# ENI ENGINEERING, INC.

Log of : **RU-23**

CLIENT:	Arconic	GROUND SURFACE ELEVATION AND DATUM: 1431.28	
PROJECT:	Former Alcas Facility - PDI Investigation	DATE COMPLETED: 9/14/2017	
PROJECT LOCATION:	Olean, NY	TOTAL DEPTH (ft.): 36'	BOREHOLE DIAMETER: 4.25"/8.25"
DRILLING COMPANY:	SJB Services, Inc.	CASING: 0-25.5'	SLOT SIZE: 0.010"
DRILLER:	A. Koske	SCREEN INTERVAL (ft.): 25.5-35.5'	
DRILLING METHOD:	CME-75; Hollow Stem Auger; Split Spoon	GEOLOGIST: M. Worden	

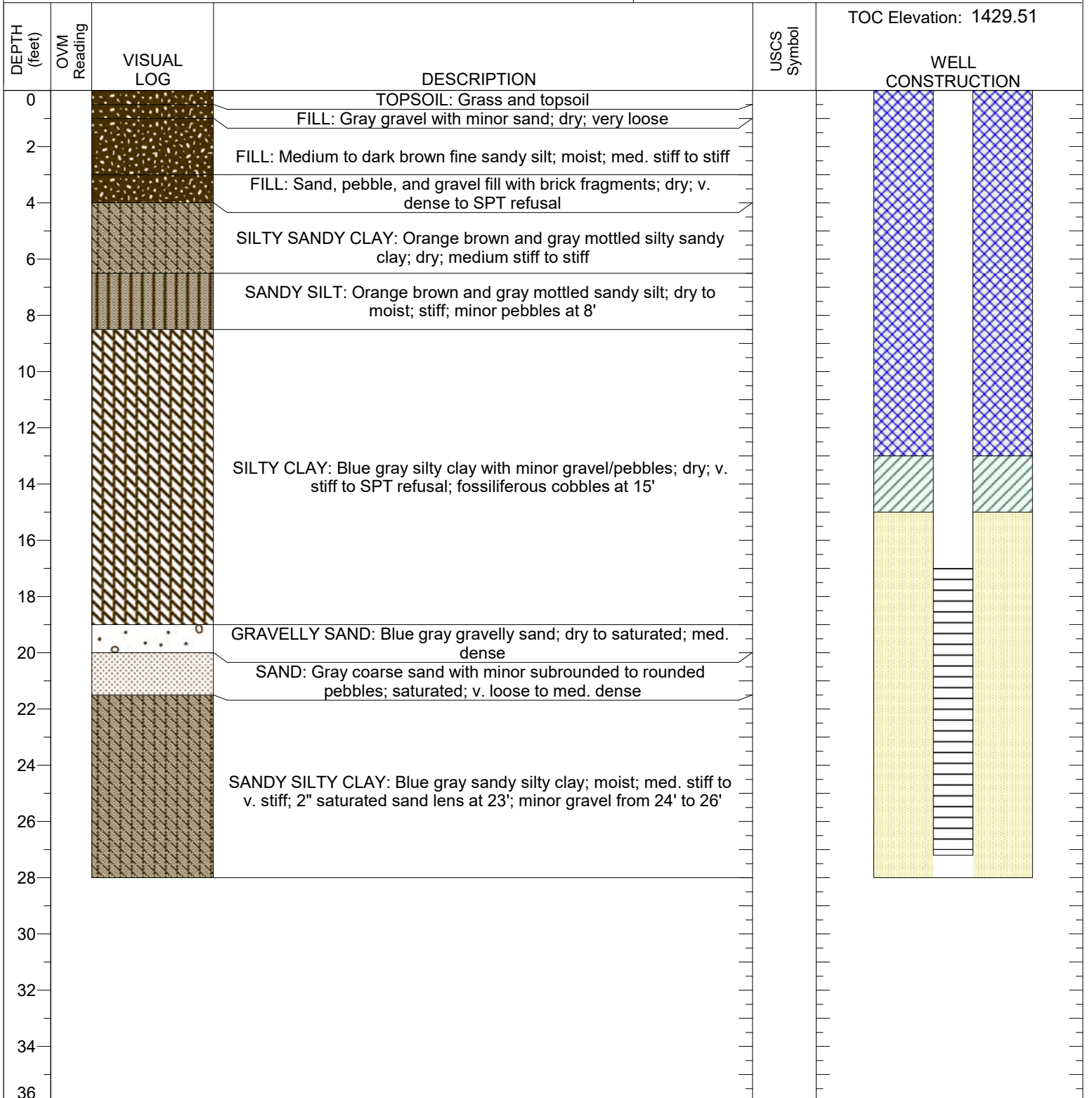


WELL COMPLETED FLUSH TO GRADE

# ENI ENGINEERING, INC.

Log of : **RU-24**

CLIENT:	Arconic	GROUND SURFACE ELEVATION AND DATUM: 1430.01	
PROJECT:	Former Alcas Facility - PDI Investigation	DATE COMPLETED: 9/15/2017	
PROJECT LOCATION:	Olean, NY	TOTAL DEPTH (ft.): 28'	BOREHOLE DIAMETER: 4.25"/8.25"
DRILLING COMPANY:	SJB Services, Inc.	CASING: 0-17'	SLOT SIZE: 0.010"
DRILLER:	A. Koske	SCREEN INTERVAL (ft.): 17-27'	
DRILLING METHOD:	CME-75; Hollow Stem Auger; Split Spoon	GEOLOGIST: M. Worden	



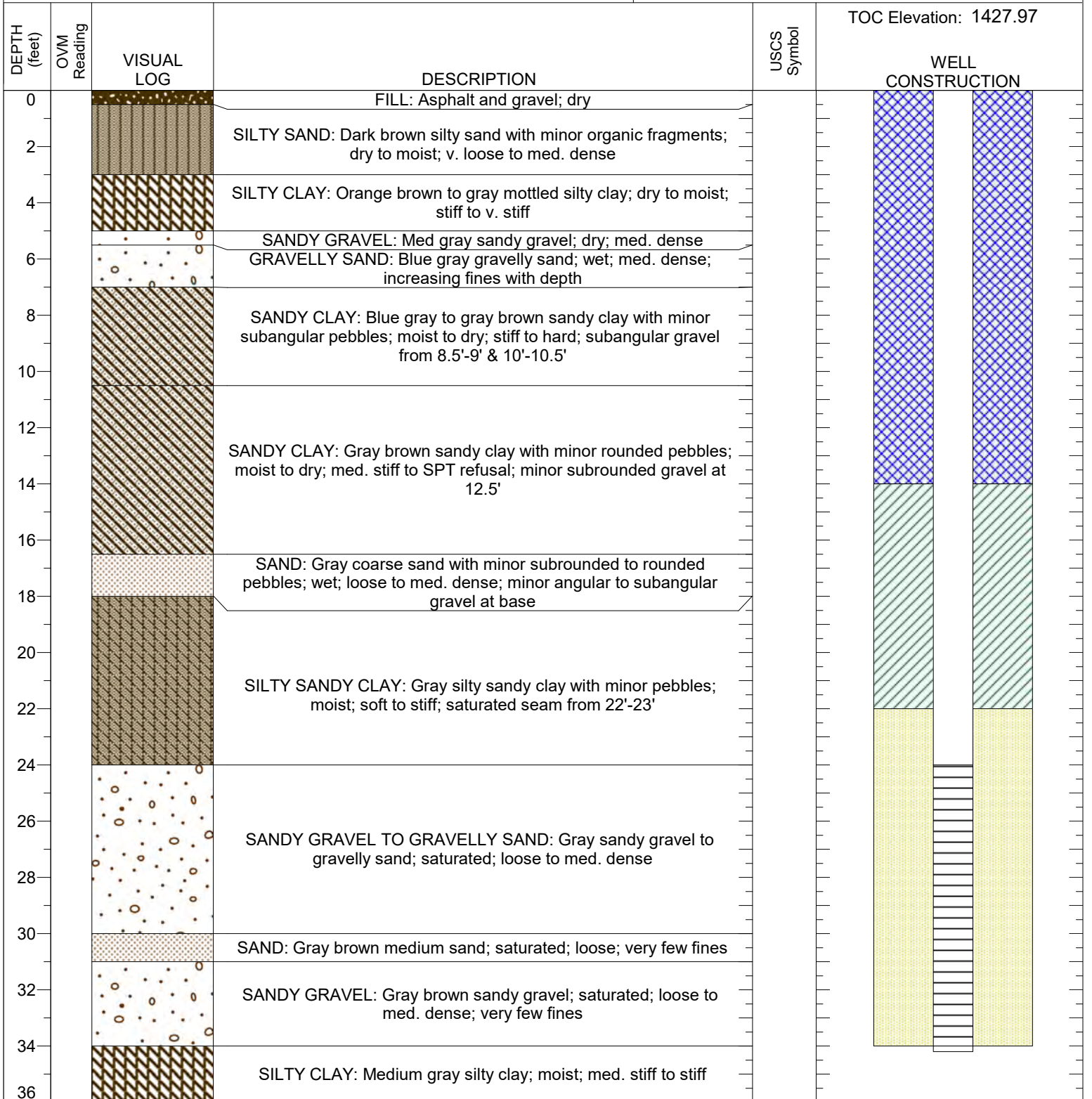
WELL COMPLETED FLUSH TO GRADE



# ENI ENGINEERING, INC.

Log of : **RU-25**

CLIENT:	Arconic	GROUND SURFACE ELEVATION AND DATUM: 1428.25	
PROJECT:	Former Alcas Facility - PDI Investigation	DATE COMPLETED: 9/12/2017	
PROJECT LOCATION:	Olean, NY	TOTAL DEPTH (ft.): 34.5'	BOREHOLE DIAMETER: 4.25"/8.25"
DRILLING COMPANY:	SJB Services, Inc.	CASING: 0-24'	SLOT SIZE: 0.010"
DRILLER:	A. Koske	SCREEN INTERVAL (ft.): 24-34'	
DRILLING METHOD:	CME-75; Hollow Stem Auger; Split Spoon	GEOLOGIST: M. Worden	

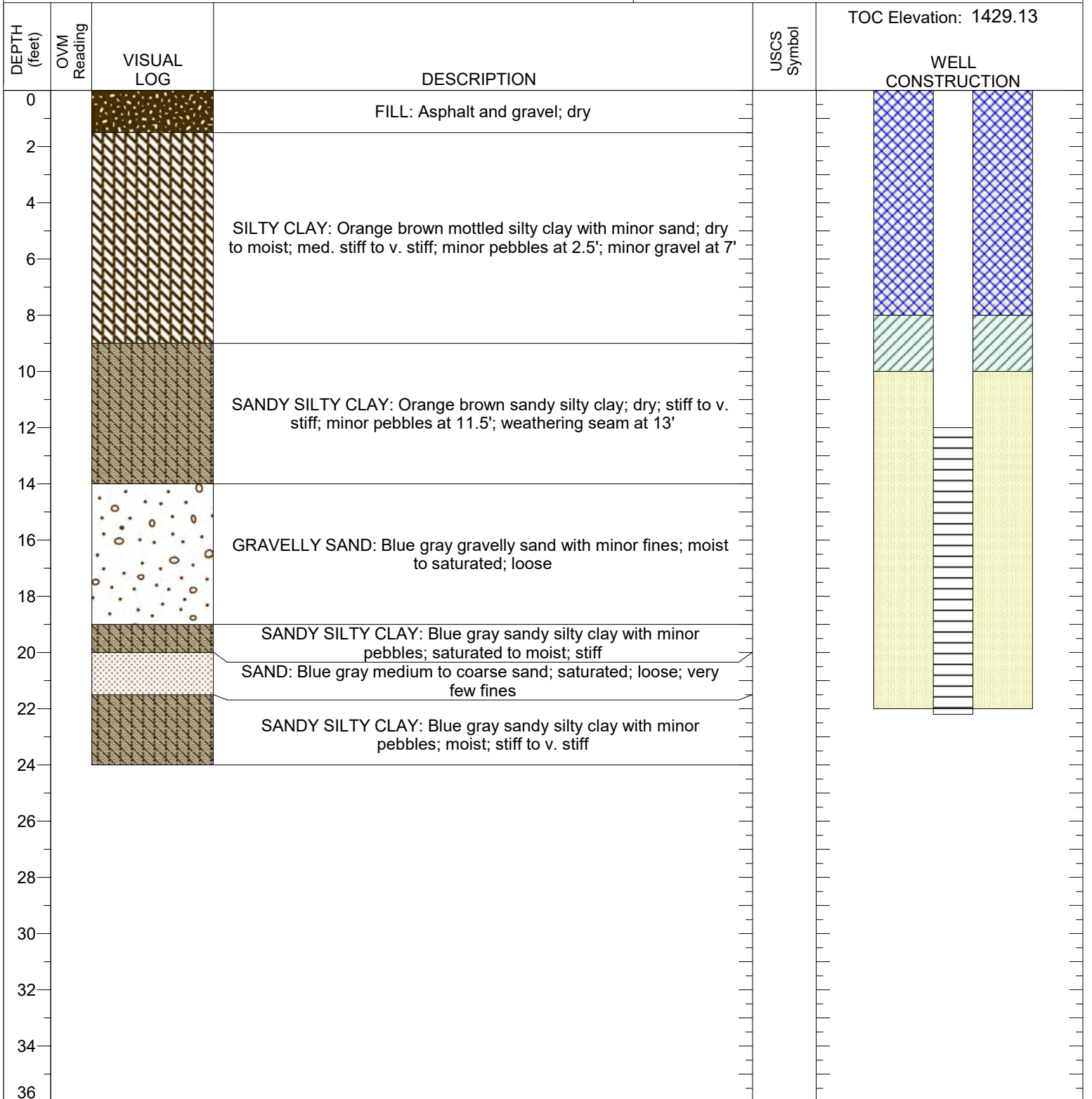


WELL COMPLETED FLUSH TO GRADE

# ENI ENGINEERING, INC.

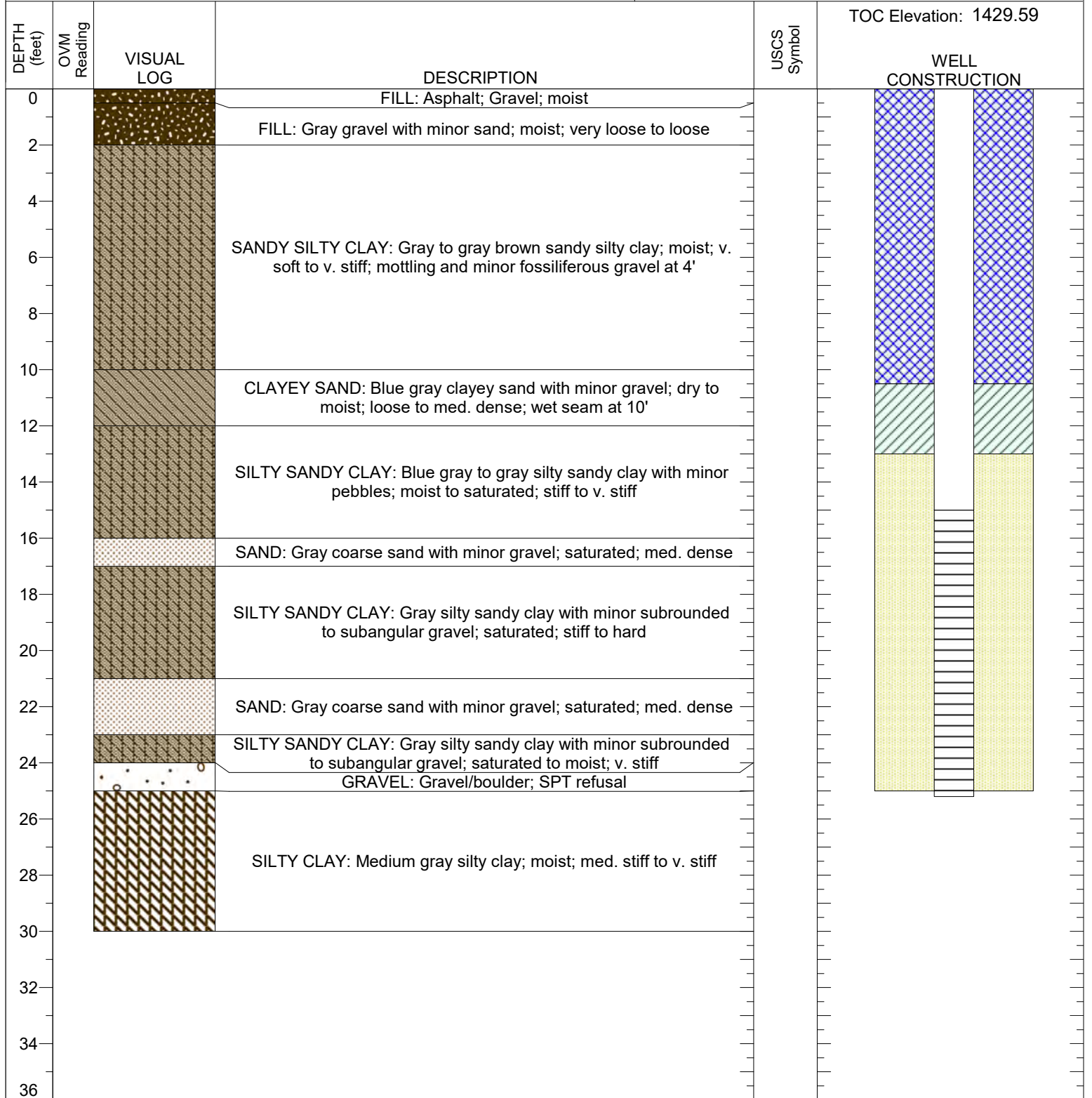
Log of : **RU-26**

CLIENT:	Arconic	GROUND SURFACE ELEVATION AND DATUM: 1429.63	
PROJECT:	Former Alcas Facility - PDI Investigation	DATE COMPLETED: 9/14/2017	
PROJECT LOCATION:	Olean, NY	TOTAL DEPTH (ft.): 24'	BOREHOLE DIAMETER: 4.25"/8.25"
DRILLING COMPANY:	SJB Services, Inc.	CASING: 0-12'	SLOT SIZE: 0.010"
DRILLER:	A. Koske	SCREEN INTERVAL (ft.): 12-22'	
DRILLING METHOD:	CME-75; Hollow Stem Auger; Split Spoon	GEOLOGIST: M. Worden	



WELL COMPLETED FLUSH TO GRADE

<b>ENI ENGINEERING, INC.</b>		<b>Log of :                   RU-27</b>	
CLIENT:	Arconic	GROUND SURFACE ELEVATION AND DATUM: 1429.95	
PROJECT:	Former Alcas Facility - PDI Investigation	DATE COMPLETED:       9/11/2017	
PROJECT LOCATION:	Olean, NY	TOTAL DEPTH (ft.):       30'	BOREHOLE DIAMETER:       4.25"/8.25"
DRILLING COMPANY:	SJB Services, Inc.	CASING:                0-15'	SLOT SIZE:                0.010"
DRILLER:	A. Koske	SCREEN INTERVAL (ft.):   15-25'	
DRILLING METHOD:	CME-75; Hollow Stem Auger; Split Spoon	GEOLOGIST:            M. Worden	



WELL COMPLETED FLUSH TO GRADE

**ENI ENGINEERING, INC.**

**APPENDIX B**  
**Laboratory Analytical Reports and Chain-of-Custody Forms**





October 18, 2017

Service Request No:R1709205

Mr. Tim White  
Enviroengineering, Inc.  
16100 Cairnway Dr  
Suite 320  
Houston, TX 77084

**Laboratory Results for: PDI Workplan Olean NY**

Dear Mr.White,

Enclosed are the results of the sample(s) submitted to our laboratory September 29, 2017  
For your reference, these analyses have been assigned our service request number **R1709205**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, 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) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

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

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
For  
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  
ALS Group USA, Corp.  
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](http://www.alsglobal.com)



**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:**R1709205  
**Date Received:**9/29/17

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt

Eight Water samples were received for analysis at ALS Environmental on 09/29/2017. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at  $\leq 6^{\circ}\text{C}$  upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Volatle Organic Analyses:

No significant anomalies were noted with this analysis.

Approved by  Date 10/18/2017

**SAMPLE DETECTION SUMMARY**

<b>CLIENT ID: RU-22</b>		<b>Lab ID: R1709205-001</b>				
<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>PQL</b>	<b>Units</b>	<b>Method</b>
Trichloroethene (TCE)	18		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	2.6		0.30	1.0	ug/L	8260C

<b>CLIENT ID: RU-24</b>		<b>Lab ID: R1709205-003</b>				
<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>PQL</b>	<b>Units</b>	<b>Method</b>
Trichloroethene (TCE)	23		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1.4		0.30	1.0	ug/L	8260C

<b>CLIENT ID: RU-25</b>		<b>Lab ID: R1709205-004</b>				
<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>PQL</b>	<b>Units</b>	<b>Method</b>
Trichloroethene (TCE)	15		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	2.5		0.30	1.0	ug/L	8260C

<b>CLIENT ID: RU-27</b>		<b>Lab ID: R1709205-006</b>				
<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>PQL</b>	<b>Units</b>	<b>Method</b>
Trichloroethene (TCE)	19		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1.7		0.30	1.0	ug/L	8260C

<b>CLIENT ID: RU-22 DUP</b>		<b>Lab ID: R1709205-007</b>				
<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>PQL</b>	<b>Units</b>	<b>Method</b>
Trichloroethene (TCE)	18		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	2.2		0.30	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](http://www.alsglobal.com)

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1709205-001	RU-22	9/27/2017	1035
R1709205-002	RU-23	9/27/2017	1320
R1709205-003	RU-24	9/27/2017	1450
R1709205-004	RU-25	9/27/2017	1805
R1709205-005	RU-26	9/27/2017	1210
R1709205-006	RU-27	9/27/2017	1610
R1709205-007	RU-22 DUP	9/27/2017	1035
R1709205-008	TRIP BLANK	9/27/2017	



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

47245

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 <b>POI-WORK PLAN</b>		Project Number <b>219-06</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager <b>TIM WHITE</b>		Report CC		PRESERVATIVE															
Company/Address <b>ENVIRONMENTAL</b>				NUMBER OF CONTAINERS	GC/MS VOAs o 8260 o 824 o CLP	GC/MS SVOAs o 8270 o 825	GC VOAs o 8021 o 601/602	PESTICIDES o 8081 o 608	PCBs o 8082 o 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	<b>8260C/KP</b>	1	Preservative Key					
16100 CAZANVAY DR		0. NONE																	
HOUSTON, TX		1. HCL																	
Phone # <b>832-674-8000</b>		2. HNO <sub>3</sub>																	
Email		3. H <sub>2</sub> SO <sub>4</sub>																	
Sampler's Signature <b>[Signature]</b>		Sampler's Printed Name		4. NaOH															
				5. Zn. Acetate															
				6. MeOH															
				7. NaHSO <sub>4</sub>															
				8. Other _____															
				REMARKS/ ALTERNATE DESCRIPTION															

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX	3
		DATE	TIME		
RU-22		9/27/17	1035	AQ	1
RU-23			1320		
RU-24			1450		
RU-25			1805		
RU-26			1210		
RU-27			1610		
RU-22 DUP			1035		
TRIP BLANK					1
TEMP BLANK					1

SPECIAL INSTRUCTIONS/COMMENTS <b>Metals</b>	TURNAROUND REQUIREMENTS	REPORT REQUIREMENTS	INVOICE INFORMATION
	RUSH (SURCHARGES APPLY) 1 day _____ 2 day <input checked="" type="checkbox"/> 3 day _____ 4 day _____ 5 day _____ REQUESTED REPORT DATE _____	I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata Yes _____ No _____	PO # _____ BILL TO: _____

STATE WHERE SAMPLES WERE COLLECTED					
RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature <b>[Signature]</b>	Signature <b>[Signature]</b>	Signature <b>[Signature]</b>	Signature <b>[Signature]</b>	Signature <b>[Signature]</b>	Signature <b>[Signature]</b>
Printed Name <b>HAROLD NURKEL</b>	Printed Name <b>Gregory O. Emerson</b>	Printed Name	Printed Name	Printed Name	Printed Name
Firm <b>ENVIRONMENTAL</b>	Firm <b>ALS</b>	Firm	Firm	Firm	Firm
Date/Time <b>9/29/17 12:00</b>	Date/Time <b>9-29-17 12:00</b>	Date/Time	Date/Time	Date/Time	Date/Time

**R1709205** 5

Environmenting, Inc.  
PDI Workplan Clean NY



# Cooler Receipt and Preservation Check Form

R1709205

5

Enviroengineering, Inc.  
PDI Workplan Clean NY



Project/Client: Enviroengineering Folder Number: R1709205

Cooler received on 9-29-17 by: KE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y	<u>N</u>
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 Gel packs 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/ROE</u>	CLIENT	
7	Soil VOA received as: Bulk Encore 5035set			<u>NA</u>

8. Temperature Readings Date: 9-29-17 Time: 12:10 ID: IR#7 IR#8 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>4.2</u>	<u>2.7</u>	<u>1.4</u>	<u>2.0</u>				
Correction Factor (°C)	<u>+1.5</u>	<u>+1.5</u>	<u>+1.5</u>	<u>+1.5</u>				
Corrected Temp (°C)	<u>5.7</u>	<u>4.2</u>	<u>2.9</u>	<u>3.5</u>				
Temp from: Type of bottle	<u>cent tube</u>	<u>cent tube</u>	<u>cent tube</u>	<u>cent tube</u>				
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	<u>Y</u> N	<u>Y</u> 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	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by KE on 9-29-17 at 12:21  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

Cooler Breakdown: Date: 9-30-17 Time: 11:04 by: KE

- 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 \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated NA

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO <sub>3</sub>								
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
		Zn Acetate	-	-						
		HCl	**	**	<u>4115022</u>	<u>07/18</u>				

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 6258-001  
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: KE  
PC Secondary Review: MM 10/2/17 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.  
dba ALS Environmental

Internal Chain of Custody Report

Client: Environeering, Inc.  
Project: PDI Workplan Olean NY/219-006

Service Request: R1709205

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
<b>R1709205-001.01</b>	8260C	9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
		10/2/2017	1613	In Lab / BALLGEIER	
		10/2/2017	1614	R-001-S06 / BALLGEIER	
<b>R1709205-001.02</b>		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-001.03</b>		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-002.01</b>	8260C	9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
		10/3/2017	1619	In Lab / BALLGEIER	
<b>R1709205-002.02</b>		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-002.03</b>		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-003.01</b>	8260C	9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
		10/3/2017	1619	In Lab / BALLGEIER	
<b>R1709205-003.02</b>		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-003.03</b>		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	



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**Internal Chain of Custody Report**

**Client:** Environeering, Inc.  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:** R1709205

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1709205-004.01</b>					
	8260C				
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
		10/3/2017	1619	In Lab / BALLGEIER	
<b>R1709205-004.02</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-004.03</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-005.01</b>					
	8260C				
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
		10/3/2017	1619	In Lab / BALLGEIER	
<b>R1709205-005.02</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-005.03</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-006.01</b>					
	8260C				
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
		10/3/2017	1619	In Lab / BALLGEIER	
<b>R1709205-006.02</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-006.03</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-007.01</b>					

**ALS Group USA, Corp.**  
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**Internal Chain of Custody Report**

**Client:** Environeering, Inc.  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:** R1709205

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	8260C				
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
		10/5/2017	1431	In Lab / FNAEGLER	
		10/5/2017	1500	R-001-S10 / FNAEGLER	
<b>R1709205-007.02</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-007.03</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-008.01</b>					
	8260C				
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
		10/2/2017	1613	In Lab / BALLGEIER	
		10/2/2017	1614	R-001-S06 / BALLGEIER	
<b>R1709205-008.02</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	
<b>R1709205-008.03</b>					
		9/30/2017	1104	SMO / GESMERIAN	
		9/30/2017	1104	R-001 / GESMERIAN	



## 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](http://www.alsglobal.com)

## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> 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><b>J</b> 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 &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> 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><b>*</b> 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><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% (25% for CLP) difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\times 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> 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><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>1</sup> 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 <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

# ALS Laboratory Group

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## 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:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:** R1709205

**Sample Name:** RU-22  
**Lab Code:** R1709205-001  
**Sample Matrix:** Water

**Date Collected:** 09/27/17  
**Date Received:** 09/29/17

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
BALLGEIER

**Sample Name:** RU-23  
**Lab Code:** R1709205-002  
**Sample Matrix:** Water

**Date Collected:** 09/27/17  
**Date Received:** 09/29/17

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
BALLGEIER

**Sample Name:** RU-24  
**Lab Code:** R1709205-003  
**Sample Matrix:** Water

**Date Collected:** 09/27/17  
**Date Received:** 09/29/17

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
BALLGEIER

**Sample Name:** RU-25  
**Lab Code:** R1709205-004  
**Sample Matrix:** Water

**Date Collected:** 09/27/17  
**Date Received:** 09/29/17

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
BALLGEIER

**Sample Name:** RU-26  
**Lab Code:** R1709205-005  
**Sample Matrix:** Water

**Date Collected:** 09/27/17  
**Date Received:** 09/29/17

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
BALLGEIER

ALS Group USA, Corp.  
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Analyst Summary report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:** R1709205

**Sample Name:** RU-27  
**Lab Code:** R1709205-006  
**Sample Matrix:** Water

**Date Collected:** 09/27/17  
**Date Received:** 09/29/17

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
BALLGEIER

**Sample Name:** RU-22 DUP  
**Lab Code:** R1709205-007  
**Sample Matrix:** Water

**Date Collected:** 09/27/17  
**Date Received:** 09/29/17

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER

**Sample Name:** TRIP BLANK  
**Lab Code:** R1709205-008  
**Sample Matrix:** Water

**Date Collected:** 09/27/17  
**Date Received:** 09/29/17

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
BALLGEIER



# 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
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
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
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
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

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## Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.  
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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 10:35  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-22  
**Lab Code:** R1709205-001

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/02/17 20:15	
Trichloroethene (TCE)	<b>18</b>	1.0	0.22	1	10/02/17 20:15	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/02/17 20:15	
cis-1,2-Dichloroethene	<b>2.6</b>	1.0	0.30	1	10/02/17 20:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/02/17 20:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/02/17 20:15	
Dibromofluoromethane	98	89 - 119	10/02/17 20:15	
Toluene-d8	109	87 - 121	10/02/17 20:15	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 13:20  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-23  
**Lab Code:** R1709205-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 15:13	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/03/17 15:13	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 15:13	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/03/17 15:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 15:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	10/03/17 15:13	
Dibromofluoromethane	97	89 - 119	10/03/17 15:13	
Toluene-d8	112	87 - 121	10/03/17 15:13	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 14:50  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-24  
**Lab Code:** R1709205-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 15:39	
Trichloroethene (TCE)	<b>23</b>	1.0	0.22	1	10/03/17 15:39	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 15:39	
cis-1,2-Dichloroethene	<b>1.4</b>	1.0	0.30	1	10/03/17 15:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 15:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/03/17 15:39	
Dibromofluoromethane	100	89 - 119	10/03/17 15:39	
Toluene-d8	111	87 - 121	10/03/17 15:39	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water  
**Sample Name:** RU-25  
**Lab Code:** R1709205-004

**Service Request:** R1709205  
**Date Collected:** 09/27/17 18:05  
**Date Received:** 09/29/17 12:00

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 16:04	
Trichloroethene (TCE)	<b>15</b>	1.0	0.22	1	10/03/17 16:04	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 16:04	
cis-1,2-Dichloroethene	<b>2.5</b>	1.0	0.30	1	10/03/17 16:04	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 16:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/03/17 16:04	
Dibromofluoromethane	99	89 - 119	10/03/17 16:04	
Toluene-d8	113	87 - 121	10/03/17 16:04	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 12:10  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-26  
**Lab Code:** R1709205-005

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 16:30	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/03/17 16:30	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 16:30	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/03/17 16:30	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 16:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/03/17 16:30	
Dibromofluoromethane	96	89 - 119	10/03/17 16:30	
Toluene-d8	109	87 - 121	10/03/17 16:30	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 16:10  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-27  
**Lab Code:** R1709205-006

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 16:55	
Trichloroethene (TCE)	<b>19</b>	1.0	0.22	1	10/03/17 16:55	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 16:55	
cis-1,2-Dichloroethene	<b>1.7</b>	1.0	0.30	1	10/03/17 16:55	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 16:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/03/17 16:55	
Dibromofluoromethane	98	89 - 119	10/03/17 16:55	
Toluene-d8	110	87 - 121	10/03/17 16:55	



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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 10:35  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-22 DUP  
**Lab Code:** R1709205-007

**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
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/05/17 16:27	
Trichloroethene (TCE)	<b>18</b>	1.0	0.22	1	10/05/17 16:27	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/05/17 16:27	
cis-1,2-Dichloroethene	<b>2.2</b>	1.0	0.30	1	10/05/17 16:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/05/17 16:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	10/05/17 16:27	
Dibromofluoromethane	99	89 - 119	10/05/17 16:27	
Toluene-d8	96	87 - 121	10/05/17 16:27	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17  
**Date Received:** 09/29/17 12:00

**Sample Name:** TRIP BLANK  
**Lab Code:** R1709205-008

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/02/17 19:49	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/02/17 19:49	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/02/17 19:49	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/02/17 19:49	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/02/17 19:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	10/02/17 19:49	
Dibromofluoromethane	101	89 - 119	10/02/17 19:49	
Toluene-d8	111	87 - 121	10/02/17 19:49	



## 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  
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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	89 - 119	87 - 121
RU-22	R1709205-001	104	98	109
RU-23	R1709205-002	99	97	112
RU-24	R1709205-003	101	100	111
RU-25	R1709205-004	103	99	113
RU-26	R1709205-005	101	96	109
RU-27	R1709205-006	103	98	110
RU-22 DUP	R1709205-007	89	99	96
TRIP BLANK	R1709205-008	100	101	111
Lab Control Sample	RQ1710068-03	106	98	108
Method Blank	RQ1710068-04	102	99	107
Lab Control Sample	RQ1710098-03	107	101	108
Method Blank	RQ1710098-04	102	98	113
Lab Control Sample	RQ1710528-03	94	100	96
Method Blank	RQ1710528-04	91	100	97

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Analyzed:** 10/02/17 12:27

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank

**Instrument ID:**R-MS-06

**Lab Code:** RQ1710068-04

**File ID:**I:\ACQUADATA\MSVOA6\DATA\100217\D8553.D\

**Analysis Method:** 8260C

**Analysis Lot:**564106

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1710068-03	I:\ACQUADATA\MSVOA6\DATA\100217 \D8550.D\	10/02/17 10:39
TRIP BLANK	R1709205-008	I:\ACQUADATA\MSVOA6\DATA\100217 \D8567.D\	10/02/17 19:49
RU-22	R1709205-001	I:\ACQUADATA\MSVOA6\DATA\100217 \D8568.D\	10/02/17 20:15

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Analyzed:** 10/03/17 13:00

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1710098-04  
**Analysis Method:** 8260C

**Instrument ID:**R-MS-06  
**File ID:**I:\ACQUADATA\MSVOA6\DATA\100317\D8579.D\  
**Analysis Lot:**564264

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1710098-03	I:\ACQUADATA\MSVOA6\DATA\100317 \D8576.D\	10/03/17 11:17
RU-23	R1709205-002	I:\ACQUADATA\MSVOA6\DATA\100317 \D8584.D\	10/03/17 15:13
RU-24	R1709205-003	I:\ACQUADATA\MSVOA6\DATA\100317 \D8585.D\	10/03/17 15:39
RU-25	R1709205-004	I:\ACQUADATA\MSVOA6\DATA\100317 \D8586.D\	10/03/17 16:04
RU-26	R1709205-005	I:\ACQUADATA\MSVOA6\DATA\100317 \D8587.D\	10/03/17 16:30
RU-27	R1709205-006	I:\ACQUADATA\MSVOA6\DATA\100317 \D8588.D\	10/03/17 16:55

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Analyzed:** 10/05/17 13:15  
**Date Extracted:**

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1710528-04  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

**Instrument ID:**R-MS-10  
**File ID:**I:\ACQUADATA\msvoa10\data\100517\N8500.D\  
**Analysis Lot:**564633

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1710528-03	I:\ACQUADATA\msvoa10\data\100517\N8498.D\	10/05/17 12:16
RU-22 DUP	R1709205-007	I:\ACQUADATA\msvoa10\data\100517\N8508.D\	10/05/17 16:27



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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** RQ1710068-04

**Service Request:** R1709205  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/02/17 12:27	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/02/17 12:27	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/02/17 12:27	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/02/17 12:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/02/17 12:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/02/17 12:27	
Dibromofluoromethane	99	89 - 119	10/02/17 12:27	
Toluene-d8	107	87 - 121	10/02/17 12:27	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** RQ1710098-04

**Service Request:** R1709205  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 13:00	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/03/17 13:00	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 13:00	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/03/17 13:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 13:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/03/17 13:00	
Dibromofluoromethane	98	89 - 119	10/03/17 13:00	
Toluene-d8	113	87 - 121	10/03/17 13:00	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1710528-04

**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
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/05/17 13:15	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/05/17 13:15	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/05/17 13:15	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/05/17 13:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/05/17 13:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	10/05/17 13:15	
Dibromofluoromethane	100	89 - 119	10/05/17 13:15	
Toluene-d8	97	87 - 121	10/05/17 13:15	

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Analyzed:** 10/02/17 10:39

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample

**Instrument ID:**R-MS-06

**Lab Code:** RQ1710068-03

**File ID:**I:\ACQUADATA\MSVOA6\DATA\100217\D8550.D\

**Analysis Method:** 8260C

**Analysis Lot:**564106

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1710068-04	I:\ACQUADATA\MSVOA6\DATA\100217 \D8553.D\	10/02/17 12:27
TRIP BLANK	R1709205-008	I:\ACQUADATA\MSVOA6\DATA\100217 \D8567.D\	10/02/17 19:49
RU-22	R1709205-001	I:\ACQUADATA\MSVOA6\DATA\100217 \D8568.D\	10/02/17 20:15

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Analyzed:** 10/03/17 11:17

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample

**Instrument ID:**R-MS-06

**Lab Code:** RQ1710098-03

**File ID:**I:\ACQUADATA\MSVOA6\DATA\100317\D8576.D\

**Analysis Method:** 8260C

**Analysis Lot:**564264

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1710098-04	I:\ACQUADATA\MSVOA6\DATA\100317 \D8579.D\	10/03/17 13:00
RU-23	R1709205-002	I:\ACQUADATA\MSVOA6\DATA\100317 \D8584.D\	10/03/17 15:13
RU-24	R1709205-003	I:\ACQUADATA\MSVOA6\DATA\100317 \D8585.D\	10/03/17 15:39
RU-25	R1709205-004	I:\ACQUADATA\MSVOA6\DATA\100317 \D8586.D\	10/03/17 16:04
RU-26	R1709205-005	I:\ACQUADATA\MSVOA6\DATA\100317 \D8587.D\	10/03/17 16:30
RU-27	R1709205-006	I:\ACQUADATA\MSVOA6\DATA\100317 \D8588.D\	10/03/17 16:55

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Analyzed:** 10/05/17 12:16  
**Date Extracted:**

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1710528-03  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

**Instrument ID:**R-MS-10  
**File ID:**I:\ACQUADATA\msvoa10\data\100517\N8498.D\  
**Analysis Lot:**564633

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1710528-04	I:\ACQUADATA\msvoa10\data\100517\N8500.D\	10/05/17 13:15
RU-22 DUP	R1709205-007	I:\ACQUADATA\msvoa10\data\100517\N8508.D\	10/05/17 16:27

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QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Analyzed:** 10/02/17

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ1710068-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Tetrachloroethene (PCE)	8260C	20.1	20.0	101	78-124
Trichloroethene (TCE)	8260C	20.8	20.0	104	78-123
Vinyl Chloride	8260C	23.0	20.0	115	69-133
cis-1,2-Dichloroethene	8260C	22.6	20.0	113	80-121
trans-1,2-Dichloroethene	8260C	21.1	20.0	106	80-120

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QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Analyzed:** 10/03/17

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ1710098-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Tetrachloroethene (PCE)	8260C	16.0	20.0	80	78-124
Trichloroethene (TCE)	8260C	18.0	20.0	90	78-123
Vinyl Chloride	8260C	18.6	20.0	93	69-133
cis-1,2-Dichloroethene	8260C	21.3	20.0	106	80-121
trans-1,2-Dichloroethene	8260C	18.4	20.0	92	80-120



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QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Analyzed:** 10/05/17

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ1710528-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Tetrachloroethene (PCE)	8260C	19.6	20.0	98	78-124
Trichloroethene (TCE)	8260C	20.7	20.0	103	78-123
Vinyl Chloride	8260C	23.1	20.0	116	69-133
cis-1,2-Dichloroethene	8260C	19.2	20.0	96	80-121
trans-1,2-Dichloroethene	8260C	19.0	20.0	95	80-120

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QC/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205  
**Date Analyzed:**10/02/17 09:09

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA6\DATA\100217\D8548.D\  
**Instrument ID:** R-MS-06

**Analytical Method:** 8260C  
**Analysis Lot:** 564106

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.67	24395	Pass
75	95	30	60	51.15	60355	Pass
95	95	100	100	100.00	117997	Pass
96	95	5	9	7.17	8456	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	98.59	116331	Pass
175	174	5	9	8.22	9565	Pass
176	174	95	101	96.85	112669	Pass
177	176	5	9	7.42	8364	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1710068-02	I:\ACQUADATA\MSVOA6\DATA\100217\D8549.D\	10/02/17 09:50	
Lab Control Sample	RQ1710068-03	I:\ACQUADATA\MSVOA6\DATA\100217\D8550.D\	10/02/17 10:39	
Method Blank	RQ1710068-04	I:\ACQUADATA\MSVOA6\DATA\100217\D8553.D\	10/02/17 12:27	
TRIP BLANK	R1709205-008	I:\ACQUADATA\MSVOA6\DATA\100217\D8567.D\	10/02/17 19:49	
RU-22	R1709205-001	I:\ACQUADATA\MSVOA6\DATA\100217\D8568.D\	10/02/17 20:15	

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QC/QC Report

**Client:** Envireneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205  
**Date Analyzed:**10/03/17 09:29

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA6\DATA\100317\D8574.D\  
**Instrument ID:** R-MS-06

**Analytical Method:** 8260C  
**Analysis Lot:** 564264

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.67	23029	Pass
75	95	30	60	51.47	57333	Pass
95	95	100	100	100.00	111389	Pass
96	95	5	9	7.42	8262	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	98.67	109907	Pass
175	174	5	9	8.65	9509	Pass
176	174	95	101	98.64	108413	Pass
177	176	5	9	7.18	7782	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1710098-02	I:\ACQUADATA\MSVOA6\DATA\100317\D8575.D\	10/03/17 10:29	
Lab Control Sample	RQ1710098-03	I:\ACQUADATA\MSVOA6\DATA\100317\D8576.D\	10/03/17 11:17	
Method Blank	RQ1710098-04	I:\ACQUADATA\MSVOA6\DATA\100317\D8579.D\	10/03/17 13:00	
RU-23	R1709205-002	I:\ACQUADATA\MSVOA6\DATA\100317\D8584.D\	10/03/17 15:13	
RU-24	R1709205-003	I:\ACQUADATA\MSVOA6\DATA\100317\D8585.D\	10/03/17 15:39	
RU-25	R1709205-004	I:\ACQUADATA\MSVOA6\DATA\100317\D8586.D\	10/03/17 16:04	
RU-26	R1709205-005	I:\ACQUADATA\MSVOA6\DATA\100317\D8587.D\	10/03/17 16:30	
RU-27	R1709205-006	I:\ACQUADATA\MSVOA6\DATA\100317\D8588.D\	10/03/17 16:55	

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QC/QC Report

**Client:** Envireoneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205  
**Date Analyzed:**10/05/17 11:07

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\msvoa10\data\100517\N8496.D\  
**Instrument ID:** R-MS-10

**Analytical Method:** 8260C  
**Analysis Lot:** 564633

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	26.30	33797	Pass
75	95	30	60	47.03	60437	Pass
95	95	100	100	100.00	128496	Pass
96	95	5	9	6.87	8832	Pass
173	174	0	2	1.44	1611	Pass
174	95	50	120	86.85	111605	Pass
175	174	5	9	7.17	8005	Pass
176	174	95	101	95.14	106182	Pass
177	176	5	9	6.45	6852	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1710528-02	I:\ACQUADATA\msvoa10\data\100517\N8497.D\	10/05/17 11:44	
Lab Control Sample	RQ1710528-03	I:\ACQUADATA\msvoa10\data\100517\N8498.D\	10/05/17 12:16	
Method Blank	RQ1710528-04	I:\ACQUADATA\msvoa10\data\100517\N8500.D\	10/05/17 13:15	
RU-22 DUP	R1709205-007	I:\ACQUADATA\msvoa10\data\100517\N8508.D\	10/05/17 16:27	

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dba ALS Environmental

QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205  
**Date Analyzed:**10/02/17 09:50

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

**File ID:** I:\ACQUADATA\MSVOA6\DATA\100217\D8549.D\  
**Instrument ID:** R-MS-06  
**Analysis Method:** 8260C

**Lab Code:**RQ1710068-02  
**Analysis Lot:**564106  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	239,085	11.29	387,832	5.87	197,963	9.19
<b>Upper Limit ==&gt;</b>	478,170	11.79	775,664	6.37	395,926	9.69
<b>Lower Limit ==&gt;</b>	119,543	10.79	193,916	5.37	98,982	8.69

**Associated Analyses**

Lab Control Sample	RQ1710068-03	228580	11.29	393650	5.87	198504	9.19
Method Blank	RQ1710068-04	190908	11.29	348426	5.87	171981	9.19
TRIP BLANK	R1709205-008	186235	11.29	352114	5.88	173442	9.19
RU-22	R1709205-001	190668	11.29	343008	5.87	168698	9.19

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dba ALS Environmental

QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205  
**Date Analyzed:**10/02/17 09:50

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

**File ID:** I:\ACQUADATA\MSVOA6\DATA\100217\D8549.D\  
**Instrument ID:** R-MS-06  
**Analysis Method:** 8260C

**Lab Code:**RQ1710068-02  
**Analysis Lot:**564106  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	284,923	4.60
<b>Upper Limit ==&gt;</b>	569,846	5.10
<b>Lower Limit ==&gt;</b>	142,462	4.10

**Associated Analyses**

Lab Control Sample	RQ1710068-03	287638	4.59
Method Blank	RQ1710068-04	250925	4.60
TRIP BLANK	R1709205-008	262448	4.59
RU-22	R1709205-001	253057	4.59

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205  
**Date Analyzed:**10/03/17 10:29

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

**File ID:** I:\ACQUADATA\MSVOA6\DATA\100317\D8575.D\  
**Instrument ID:** R-MS-06  
**Analysis Method:** 8260C

**Lab Code:**RQ1710098-02  
**Analysis Lot:**564264  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	227,191	11.29	362,879	5.87	196,545	9.20
<b>Upper Limit ==&gt;</b>	454,382	11.79	725,758	6.37	393,090	9.70
<b>Lower Limit ==&gt;</b>	113,596	10.79	181,440	5.37	98,273	8.70

**Associated Analyses**

Sample Name	Lab Code	Area	RT	Area	RT	Area	RT
Lab Control Sample	RQ1710098-03	208749	11.29	371814	5.87	181884	9.19
Method Blank	RQ1710098-04	193363	11.29	335200	5.87	175916	9.19
RU-23	R1709205-002	186214	11.29	333849	5.87	178081	9.19
RU-24	R1709205-003	193355	11.29	329507	5.87	172072	9.20
RU-25	R1709205-004	195894	11.30	329171	5.87	173155	9.20
RU-26	R1709205-005	192745	11.29	332618	5.87	174171	9.19
RU-27	R1709205-006	186921	11.29	332921	5.87	171389	9.19

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QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205  
**Date Analyzed:**10/03/17 10:29

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

**File ID:** I:\ACQUDATA\MSVOA6\DATA\100317\D8575.D\  
**Instrument ID:** R-MS-06  
**Analysis Method:** 8260C

**Lab Code:**RQ1710098-02  
**Analysis Lot:**564264  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	276,884	4.59
<b>Upper Limit ==&gt;</b>	553,768	5.09
<b>Lower Limit ==&gt;</b>	138,442	4.09

**Associated Analyses**

		Area	RT
Lab Control Sample	RQ1710098-03	273379	4.59
Method Blank	RQ1710098-04	248738	4.59
RU-23	R1709205-002	242853	4.59
RU-24	R1709205-003	240950	4.59
RU-25	R1709205-004	243458	4.60
RU-26	R1709205-005	241557	4.59
RU-27	R1709205-006	241533	4.59



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QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205  
**Date Analyzed:**10/05/17 11:44

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

**File ID:** I:\ACQUADATA\msvoa10\data\100517\N8497.D\  
**Instrument ID:** R-MS-10  
**Analysis Method:** 8260C

**Lab Code:**RQ1710528-02  
**Analysis Lot:**564633  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	198,459	11.85	426,887	6.49	377,620	9.80
<b>Upper Limit ==&gt;</b>	396,918	12.35	853,774	6.99	755,240	10.30
<b>Lower Limit ==&gt;</b>	99,230	11.35	213,444	5.99	188,810	9.30

**Associated Analyses**

Lab Control Sample	RQ1710528-03	195749	11.85	415098	6.49	367642	9.80
Method Blank	RQ1710528-04	182412	11.85	416814	6.49	373346	9.80
RU-22 DUP	R1709205-007	192104	11.85	452548	6.49	398106	9.80

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QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205  
**Date Analyzed:**10/05/17 11:44

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

**File ID:** I:\ACQUADATA\msvoa10\data\100517\N8497.D\  
**Instrument ID:** R-MS-10  
**Analysis Method:** 8260C

**Lab Code:**RQ1710528-02  
**Analysis Lot:**564633  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	294,393	5.40
<b>Upper Limit ==&gt;</b>	588,786	5.90
<b>Lower Limit ==&gt;</b>	147,197	4.90

*Associated Analyses*

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Lab Control Sample	RQ1710528-03	286836	5.40
Method Blank	RQ1710528-04	286068	5.40
RU-22 DUP	R1709205-007	309278	5.40



## 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](http://www.alsglobal.com)



## 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  
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ALS Group USA, Corp.  
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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 10:35  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-22  
**Lab Code:** R1709205-001

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/02/17 20:15	
Trichloroethene (TCE)	<b>18</b>	1.0	0.22	1	10/02/17 20:15	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/02/17 20:15	
cis-1,2-Dichloroethene	<b>2.6</b>	1.0	0.30	1	10/02/17 20:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/02/17 20:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/02/17 20:15	
Dibromofluoromethane	98	89 - 119	10/02/17 20:15	
Toluene-d8	109	87 - 121	10/02/17 20:15	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water  
**Sample Name:** RU-23  
**Lab Code:** R1709205-002

**Service Request:** R1709205  
**Date Collected:** 09/27/17 13:20  
**Date Received:** 09/29/17 12:00

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 15:13	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/03/17 15:13	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 15:13	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/03/17 15:13	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 15:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	10/03/17 15:13	
Dibromofluoromethane	97	89 - 119	10/03/17 15:13	
Toluene-d8	112	87 - 121	10/03/17 15:13	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 14:50  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-24  
**Lab Code:** R1709205-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 15:39	
Trichloroethene (TCE)	<b>23</b>	1.0	0.22	1	10/03/17 15:39	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 15:39	
cis-1,2-Dichloroethene	<b>1.4</b>	1.0	0.30	1	10/03/17 15:39	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 15:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/03/17 15:39	
Dibromofluoromethane	100	89 - 119	10/03/17 15:39	
Toluene-d8	111	87 - 121	10/03/17 15:39	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 18:05  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-25  
**Lab Code:** R1709205-004

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 16:04	
Trichloroethene (TCE)	<b>15</b>	1.0	0.22	1	10/03/17 16:04	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 16:04	
cis-1,2-Dichloroethene	<b>2.5</b>	1.0	0.30	1	10/03/17 16:04	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 16:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/03/17 16:04	
Dibromofluoromethane	99	89 - 119	10/03/17 16:04	
Toluene-d8	113	87 - 121	10/03/17 16:04	



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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 12:10  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-26  
**Lab Code:** R1709205-005

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 16:30	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/03/17 16:30	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 16:30	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/03/17 16:30	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 16:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/03/17 16:30	
Dibromofluoromethane	96	89 - 119	10/03/17 16:30	
Toluene-d8	109	87 - 121	10/03/17 16:30	

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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water  
**Sample Name:** RU-27  
**Lab Code:** R1709205-006

**Service Request:** R1709205  
**Date Collected:** 09/27/17 16:10  
**Date Received:** 09/29/17 12:00

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/03/17 16:55	
Trichloroethene (TCE)	<b>19</b>	1.0	0.22	1	10/03/17 16:55	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/03/17 16:55	
cis-1,2-Dichloroethene	<b>1.7</b>	1.0	0.30	1	10/03/17 16:55	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/03/17 16:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/03/17 16:55	
Dibromofluoromethane	98	89 - 119	10/03/17 16:55	
Toluene-d8	110	87 - 121	10/03/17 16:55	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17 10:35  
**Date Received:** 09/29/17 12:00

**Sample Name:** RU-22 DUP  
**Lab Code:** R1709205-007

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

<b>Analyte Name</b>	<b>Result</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/05/17 16:27	
Trichloroethene (TCE)	<b>18</b>	1.0	0.22	1	10/05/17 16:27	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/05/17 16:27	
cis-1,2-Dichloroethene	<b>2.2</b>	1.0	0.30	1	10/05/17 16:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/05/17 16:27	

<b>Surrogate Name</b>	<b>% Rec</b>	<b>Control Limits</b>	<b>Date Analyzed</b>	<b>Q</b>
4-Bromofluorobenzene	89	85 - 122	10/05/17 16:27	
Dibromofluoromethane	99	89 - 119	10/05/17 16:27	
Toluene-d8	96	87 - 121	10/05/17 16:27	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006  
**Sample Matrix:** Water

**Service Request:** R1709205  
**Date Collected:** 09/27/17  
**Date Received:** 09/29/17 12:00

**Sample Name:** TRIP BLANK  
**Lab Code:** R1709205-008

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/02/17 19:49	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/02/17 19:49	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/02/17 19:49	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/02/17 19:49	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/02/17 19:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	10/02/17 19:49	
Dibromofluoromethane	101	89 - 119	10/02/17 19:49	
Toluene-d8	111	87 - 121	10/02/17 19:49	

Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8568.D Vial: 22  
 Acq On : 2 Oct 2017 8:15 pm Operator: B.ALLGEIER  
 Sample : r1709205-001 Inst : MS#6  
 Misc : environneering 17933 t4 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Oct 3 9:29 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	253057	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	343008	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	168698	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	190668	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	121113	49.23	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	98.46%
43) surr1,1,2-dichloroethane-d	4.47	65	121954	45.77	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	91.54%
65) SURR3,Toluene-d8	7.89	98	378564	54.50	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	109.00%
86) SURR2,BFB	10.25	95	164596	52.09	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	104.18%

Target Compounds

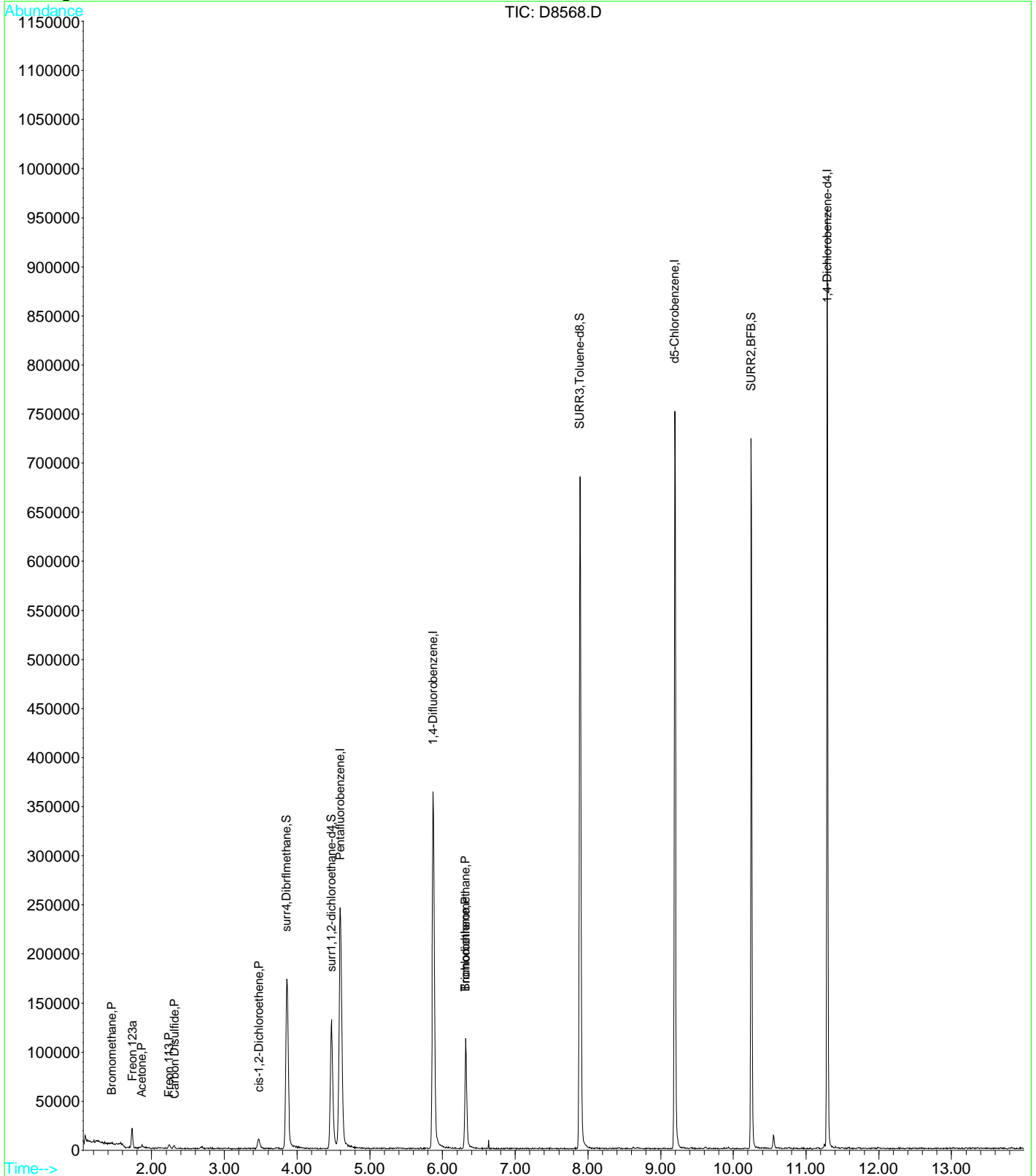
	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.45	94	963	0.52	ug/L #	28
9) Freon 123a	1.73	67	6370	2.81	ug/L	96
14) Acetone	1.87	43	2962	6.25	ug/L	90
21) Freon 113	2.24	101	1016	0.51	ug/L #	75
24) Carbon Disulfide	2.31	76	2880	0.54	ug/L	78
33) cis-1,2-Dichloroethene	3.47	96	5098	2.57	ug/L	93
54) Trichloroethene	6.32	130	41059	18.46	ug/L	97
55) Bromodichloromethane	6.31	83	637	0.24	ug/L	81

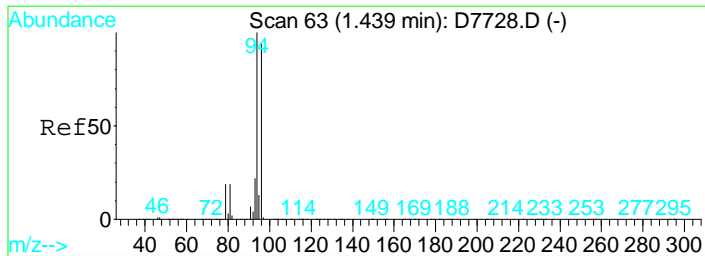
Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8568.D  
Acq On : 2 Oct 2017 8:15 pm  
Sample : r1709205-001  
Misc : environneering 17933 t4  
MS Integration Params: CPD4.P  
Quant Time: Oct 3 9:29 2017

Vial: 22  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

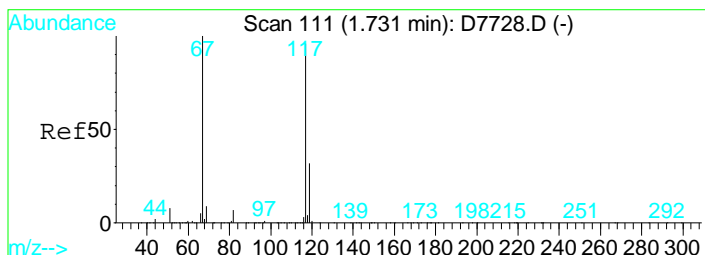
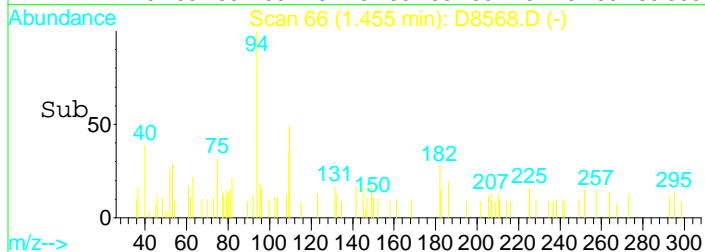
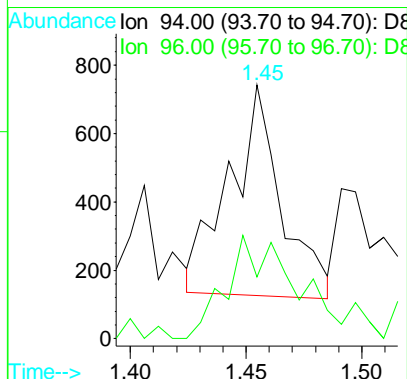
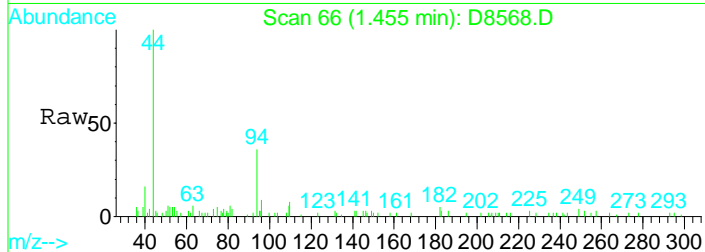
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration





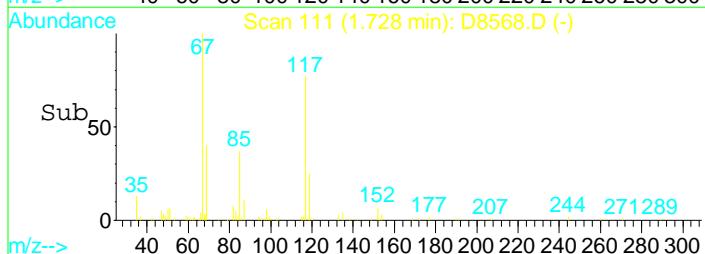
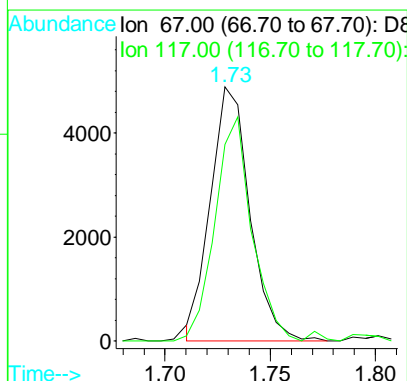
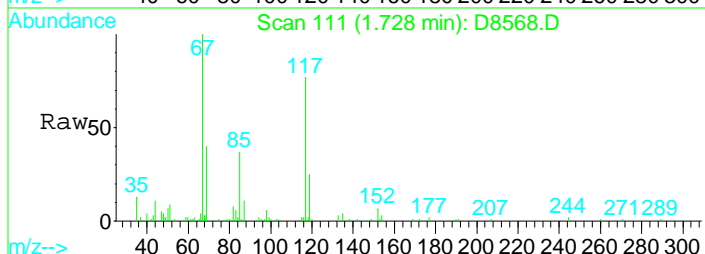
#5  
 Bromomethane  
 Concen: 0.52 ug/L  
 RT: 1.45 min Scan# 66  
 Delta R.T. 0.02 min  
 Lab File: D8568.D  
 Acq: 2 Oct 2017 8:15 pm

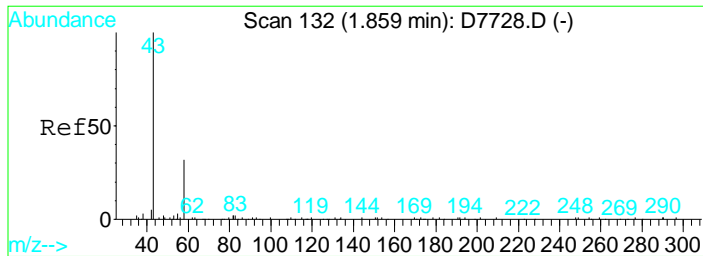
Tgt Ion: 94 Resp: 963  
 Ion Ratio Lower Upper  
 94 100  
 96 24.4 73.7 113.7#



#9  
 Freon 123a  
 Concen: 2.81 ug/L  
 RT: 1.73 min Scan# 111  
 Delta R.T. -0.00 min  
 Lab File: D8568.D  
 Acq: 2 Oct 2017 8:15 pm

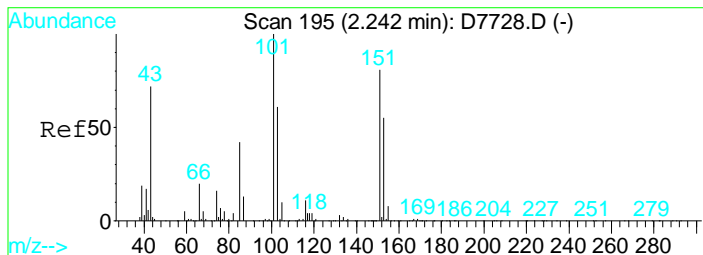
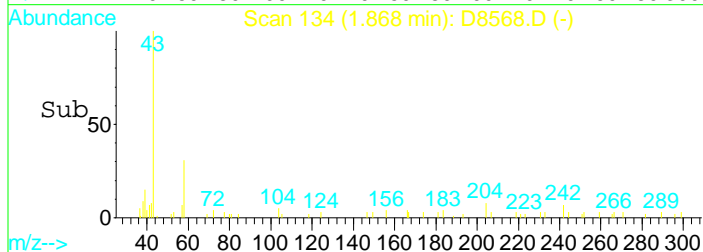
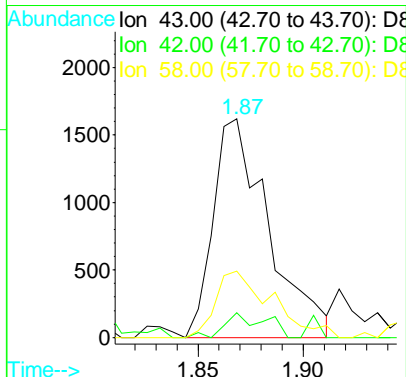
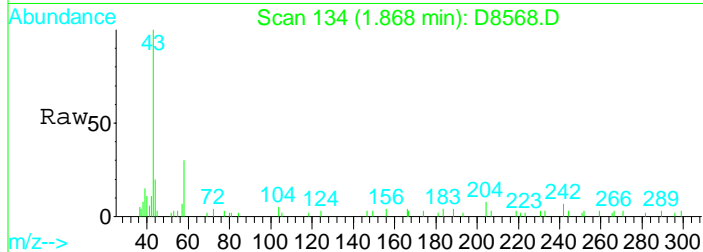
Tgt Ion: 67 Resp: 6370  
 Ion Ratio Lower Upper  
 67 100  
 117 77.3 61.0 101.0





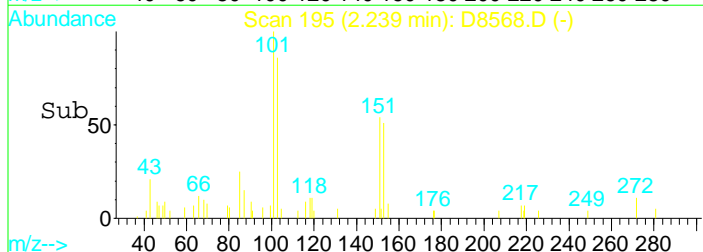
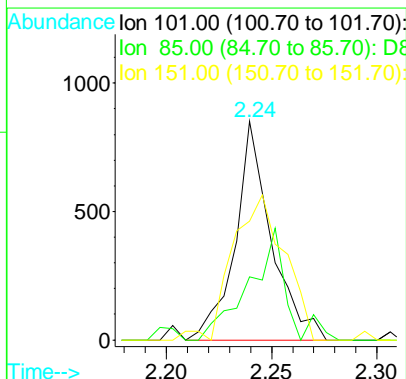
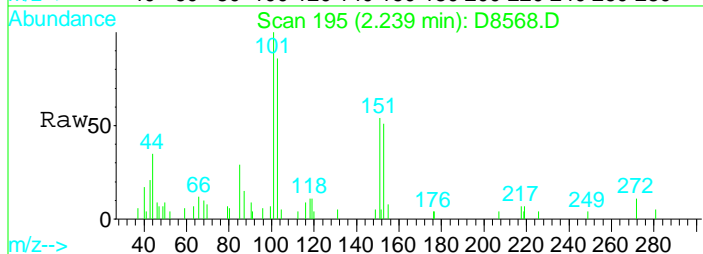
#14  
 Acetone  
 Concen: 6.25 ug/L  
 RT: 1.87 min Scan# 134  
 Delta R.T. 0.01 min  
 Lab File: D8568.D  
 Acq: 2 Oct 2017 8:15 pm

Tgt Ion	Resp	Lower	Upper
43	2962		
42	11.3	0.0	31.4
58	30.3	3.1	43.1

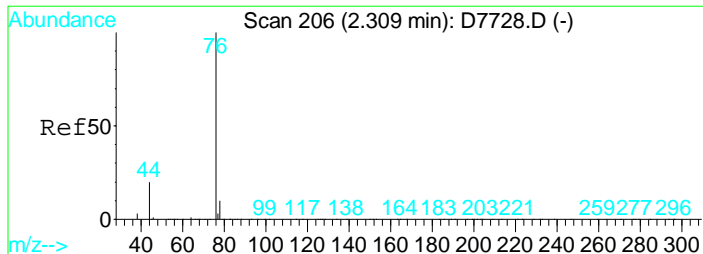


#21  
 Freon 113  
 Concen: 0.51 ug/L  
 RT: 2.24 min Scan# 195  
 Delta R.T. -0.00 min  
 Lab File: D8568.D  
 Acq: 2 Oct 2017 8:15 pm

Tgt Ion	Resp	Lower	Upper
101	1016		
85	28.9	25.6	65.6
151	59.3	61.0	101.0#

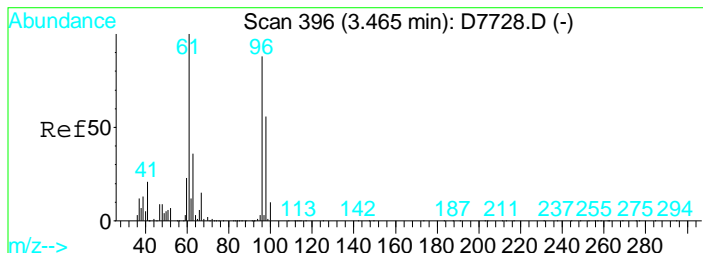
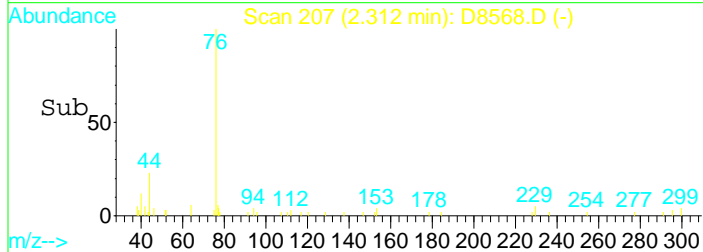
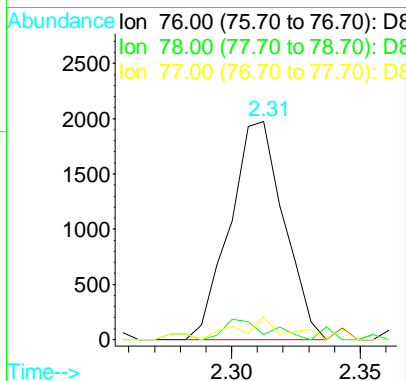
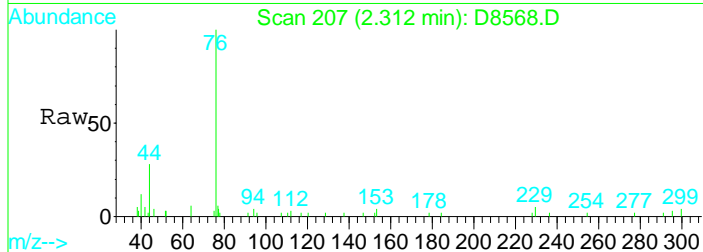






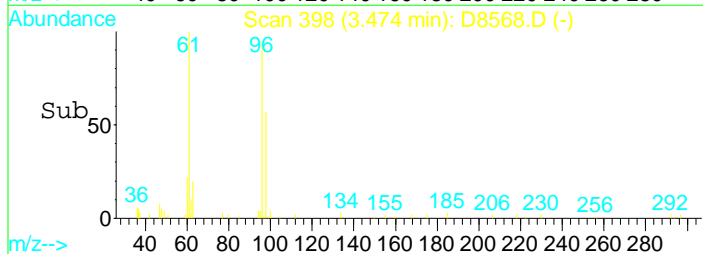
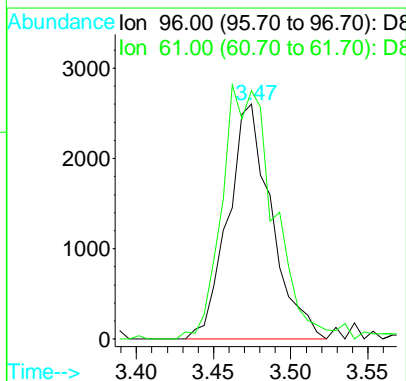
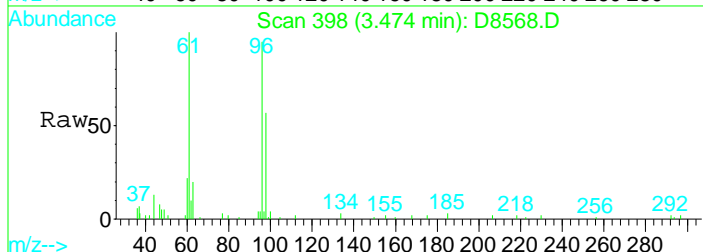
#24  
 Carbon Disulfide  
 Concen: 0.54 ug/L  
 RT: 2.31 min Scan# 207  
 Delta R.T. 0.00 min  
 Lab File: D8568.D  
 Acq: 2 Oct 2017 8:15 pm

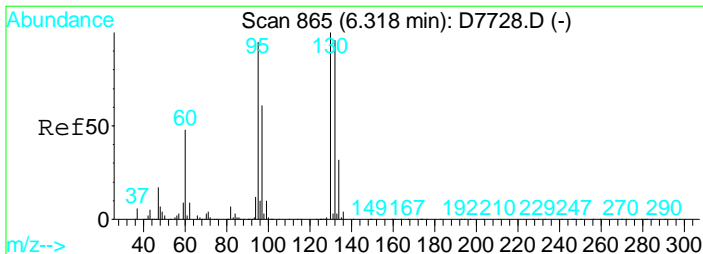
Tgt Ion	Resp	Lower	Upper
76	2880		
78	2.4	0.0	30.5
77	10.5	0.0	23.3



#33  
 cis-1,2-Dichloroethene  
 Concen: 2.57 ug/L  
 RT: 3.47 min Scan# 398  
 Delta R.T. 0.01 min  
 Lab File: D8568.D  
 Acq: 2 Oct 2017 8:15 pm

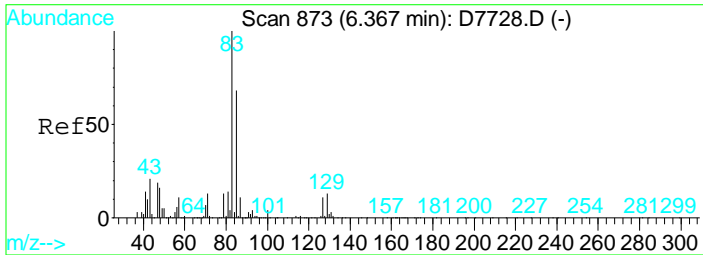
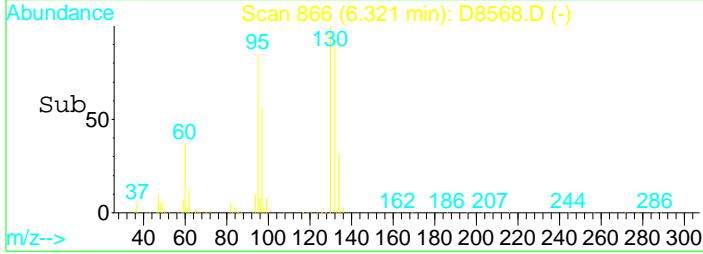
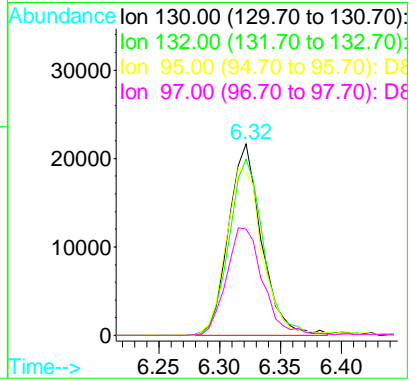
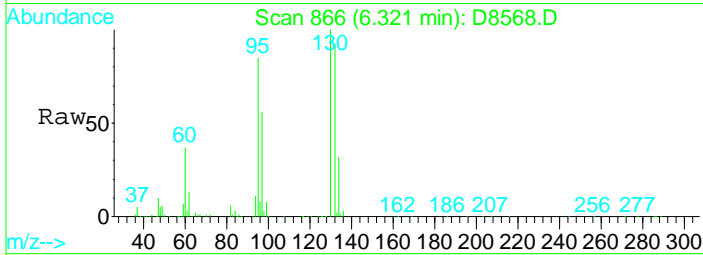
Tgt Ion	Resp	Lower	Upper
96	5098		
61	105.6	93.6	133.6





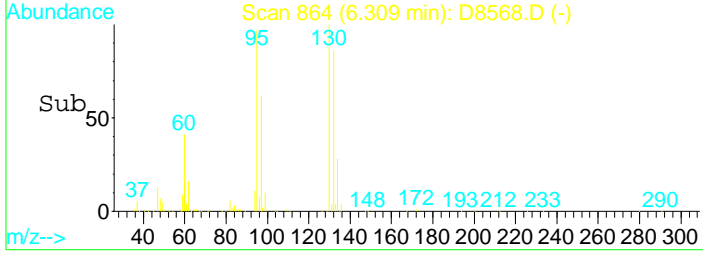
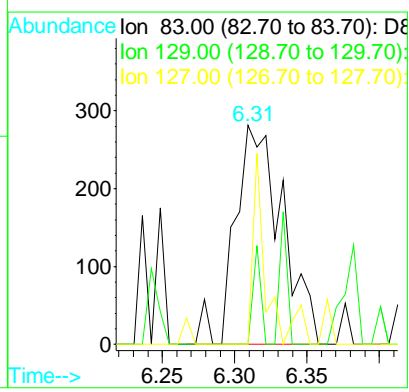
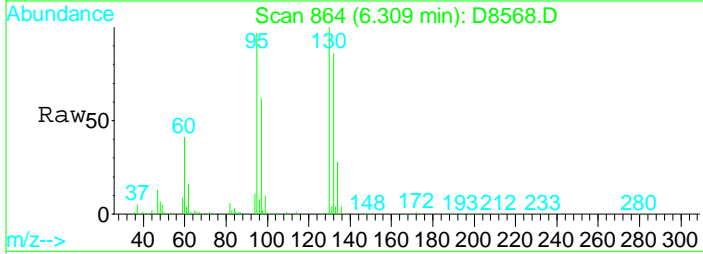
#54  
 Trichloroethene  
 Concen: 18.46 ug/L  
 RT: 6.32 min Scan# 866  
 Delta R.T. 0.00 min  
 Lab File: D8568.D  
 Acq: 2 Oct 2017 8:15 pm

Tgt Ion	Resp	Lower	Upper
130	41059		
132	97.4	75.8	115.8
95	96.5	72.3	112.3
97	62.3	40.0	80.0



#55  
 Bromodichloromethane  
 Concen: 0.24 ug/L  
 RT: 6.31 min Scan# 864  
 Delta R.T. -0.06 min  
 Lab File: D8568.D  
 Acq: 2 Oct 2017 8:15 pm

Tgt Ion	Resp	Lower	Upper
83	637		
129	7.2	0.0	32.8
127	19.9	0.0	30.5



Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8584.D Vial: 12  
 Acq On : 3 Oct 2017 3:13 pm Operator: B.ALLGEIER  
 Sample : r1709205-002 Inst : MS#6  
 Misc : environneering 17933 t4 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Oct 4 10:01 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	242853	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	333849	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	178081	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	186214	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	116383	48.61	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	97.22%
43) surr1,1,2-dichloroethane-d	4.47	65	118580	45.72	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	91.44%
65) SURRE3,Toluene-d8	7.89	98	378644	56.01	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	112.02%
86) SURRE2,BFB	10.25	95	165283	49.55	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	99.10%

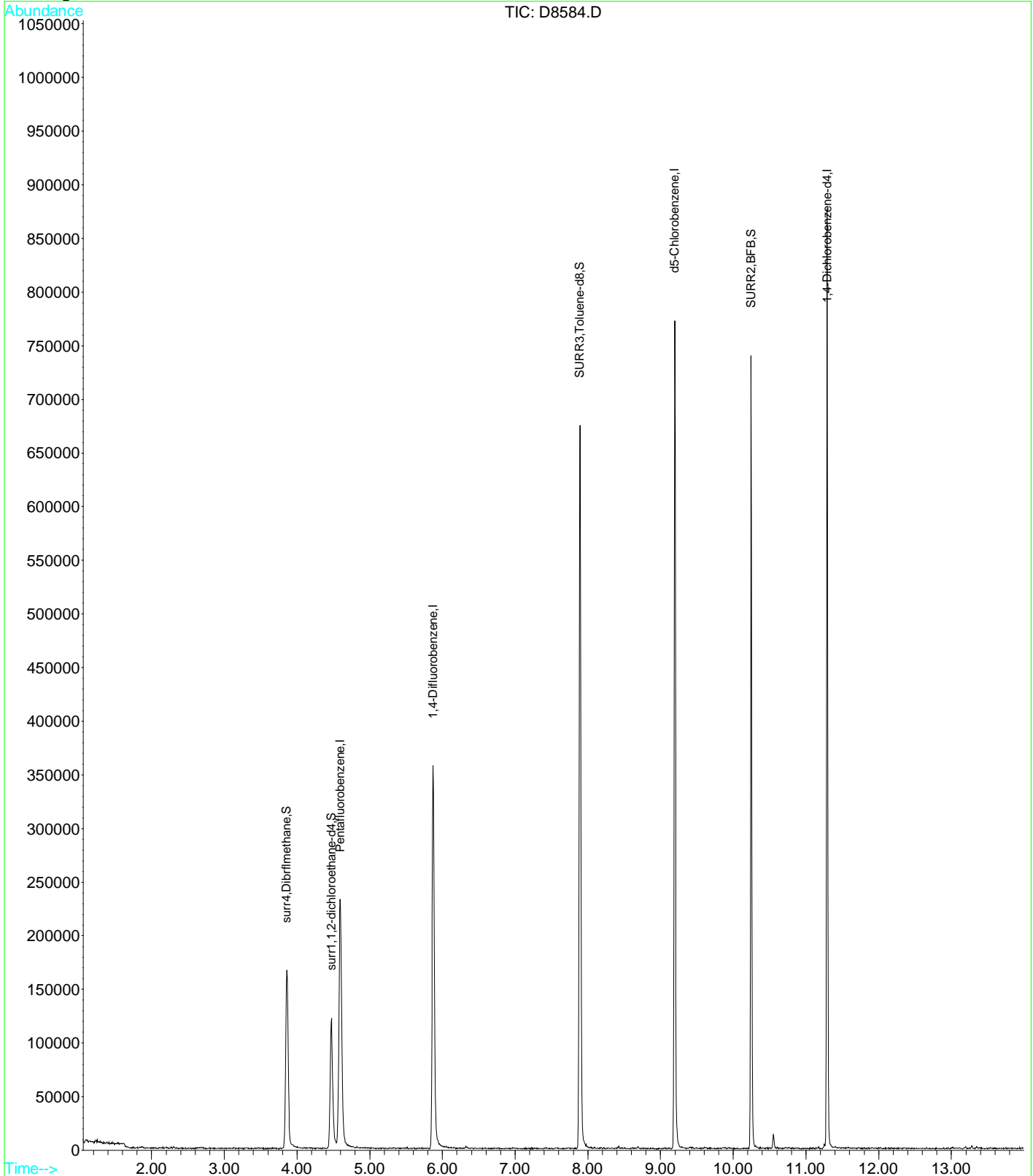
Target Compounds Qvalue

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8584.D  
Acq On : 3 Oct 2017 3:13 pm  
Sample : r1709205-002  
Misc : environering 17933 t4  
MS Integration Params: CPD4.P  
Quant Time: Oct 4 10:01 2017

Vial: 12  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8585.D Vial: 13  
 Acq On : 3 Oct 2017 3:39 pm Operator: B.ALLGEIER  
 Sample : r1709205-003 Inst : MS#6  
 Misc : environneering 17933 t4 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Oct 4 10:06 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	240950	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	329507	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	172072	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	193355	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.85	113	118248	50.04	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	100.08%
43) surr1,1,2-dichloroethane-d	4.48	65	117233	45.80	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	91.60%
65) SURR3,Toluene-d8	7.89	98	370559	55.54	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	111.08%
86) SURR2,BFB	10.25	95	162485	50.42	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	100.84%

Target Compounds

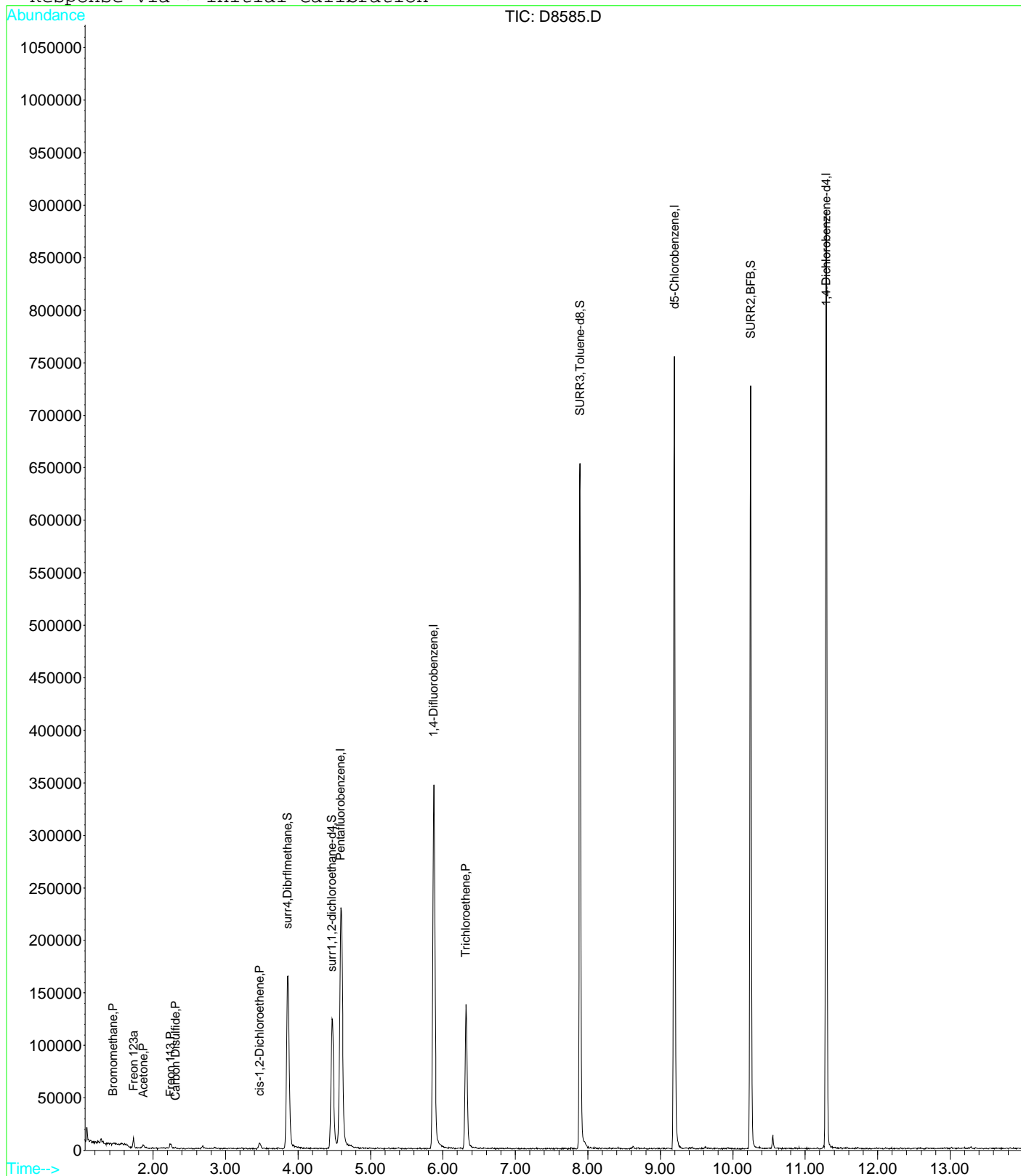
	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.45	94	1113	0.63	ug/L	# 58
9) Freon 123a	1.73	67	2269	1.05	ug/L	90
14) Acetone	1.87	43	3185	7.06	ug/L	93
21) Freon 113	2.24	101	1383	0.73	ug/L	88
24) Carbon Disulfide	2.31	76	1191	0.23	ug/L	96
33) cis-1,2-Dichloroethene	3.47	96	2585	1.37	ug/L	# 64
54) Trichloroethene	6.32	130	49660	23.24	ug/L	98

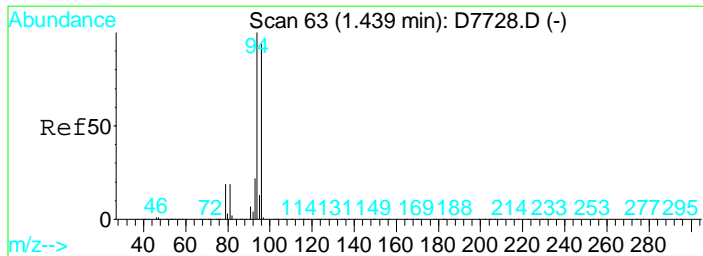
Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8585.D  
Acq On : 3 Oct 2017 3:39 pm  
Sample : r1709205-003  
Misc : environneering 17933 t4  
MS Integration Params: CPD4.P  
Quant Time: Oct 4 10:06 2017

Vial: 13  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

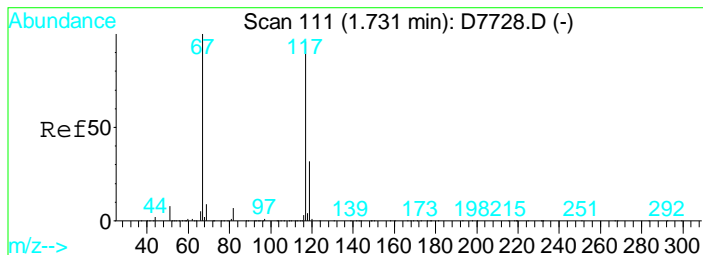
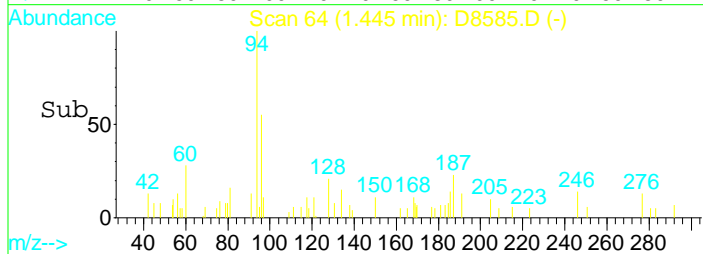
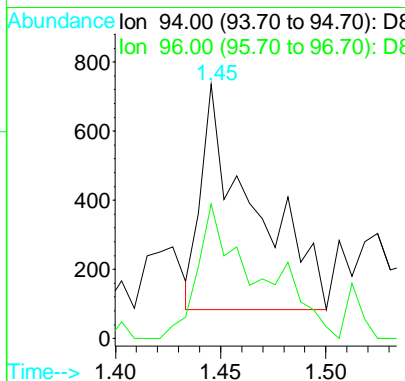
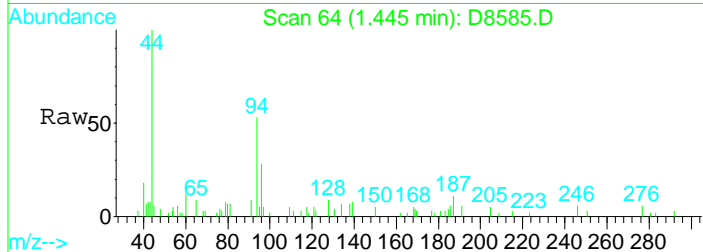
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration





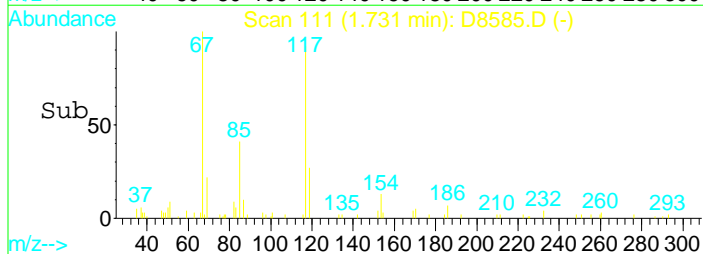
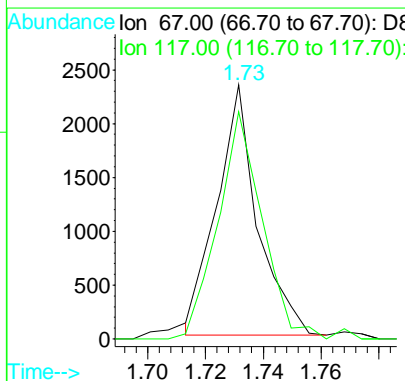
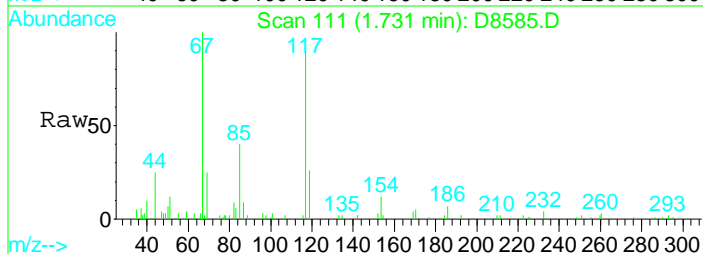
#5  
 Bromomethane  
 Concen: 0.63 ug/L  
 RT: 1.45 min Scan# 64  
 Delta R.T. 0.01 min  
 Lab File: D8585.D  
 Acq: 3 Oct 2017 3:39 pm

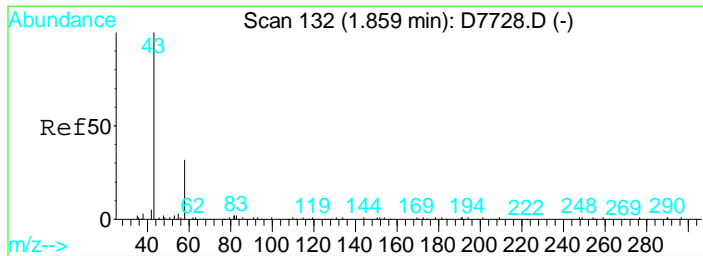
Tgt Ion: 94 Resp: 1113  
 Ion Ratio Lower Upper  
 94 100  
 96 53.1 73.7 113.7#



#9  
 Freon 123a  
 Concen: 1.05 ug/L  
 RT: 1.73 min Scan# 111  
 Delta R.T. 0.00 min  
 Lab File: D8585.D  
 Acq: 3 Oct 2017 3:39 pm

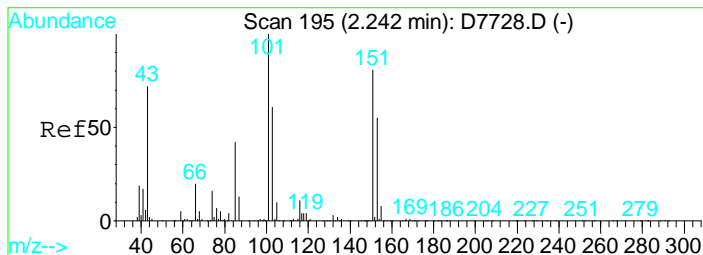
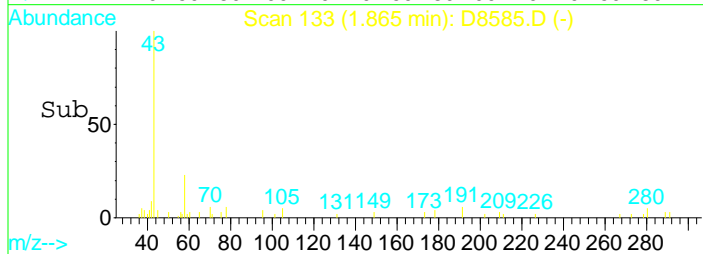
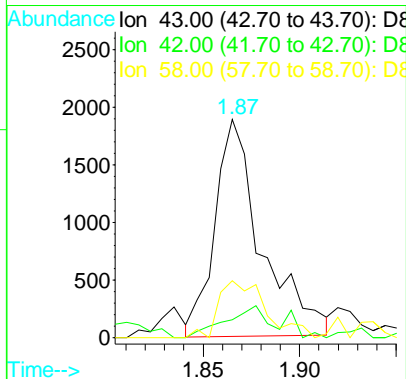
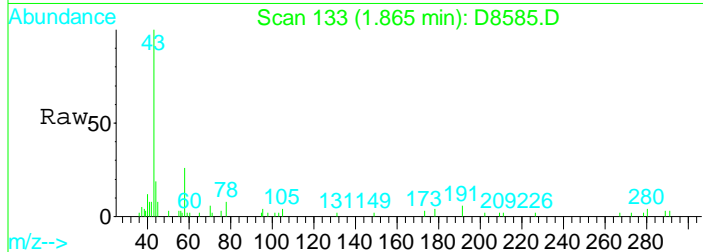
Tgt Ion: 67 Resp: 2269  
 Ion Ratio Lower Upper  
 67 100  
 117 89.6 61.0 101.0





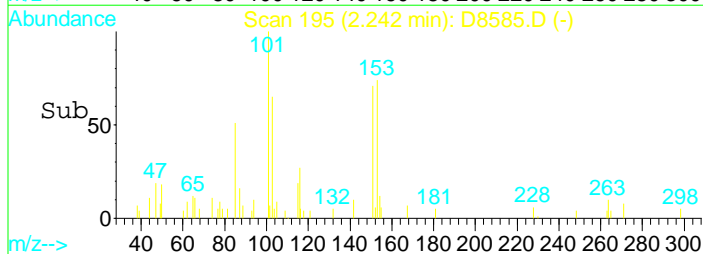
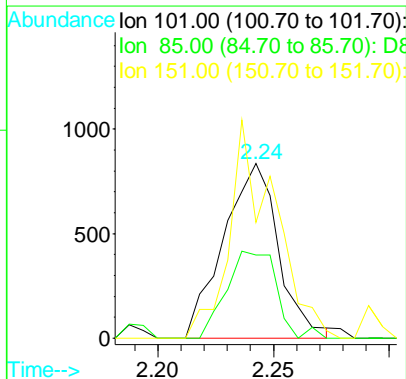
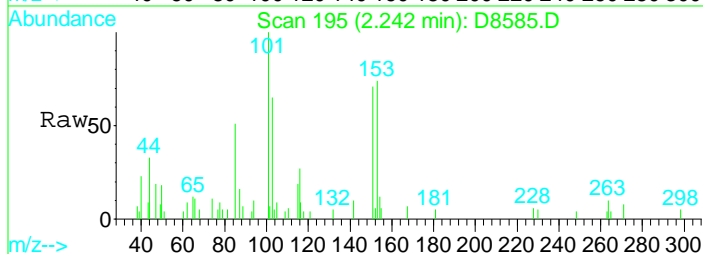
#14  
 Acetone  
 Concen: 7.06 ug/L  
 RT: 1.87 min Scan# 133  
 Delta R.T. 0.01 min  
 Lab File: D8585.D  
 Acq: 3 Oct 2017 3:39 pm

Tgt Ion	Resp	Lower	Upper
43	3185		
42	8.2	0.0	31.4
58	26.0	3.1	43.1

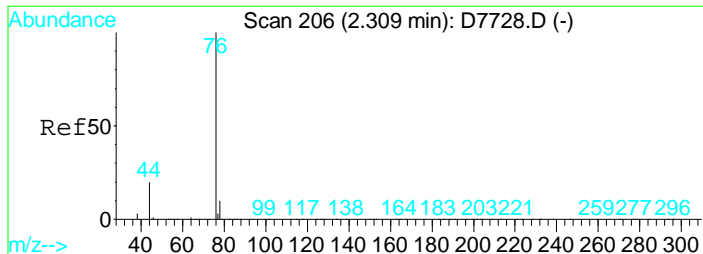


#21  
 Freon 113  
 Concen: 0.73 ug/L  
 RT: 2.24 min Scan# 195  
 Delta R.T. 0.00 min  
 Lab File: D8585.D  
 Acq: 3 Oct 2017 3:39 pm

Tgt Ion	Resp	Lower	Upper
101	1383		
85	47.8	25.6	65.6
151	66.5	61.0	101.0

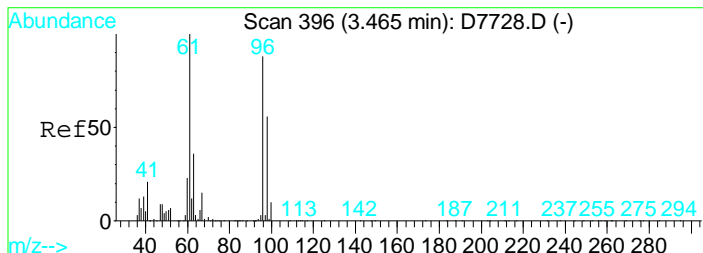
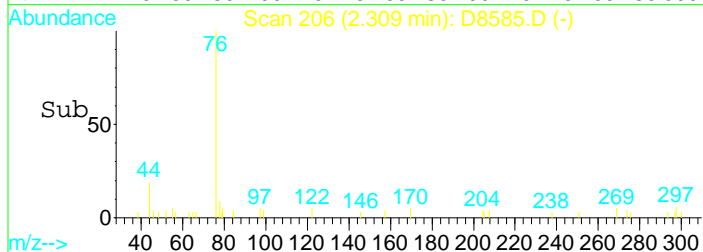
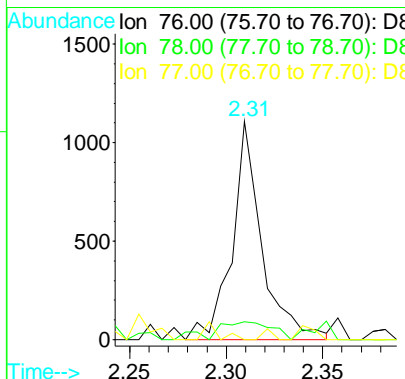
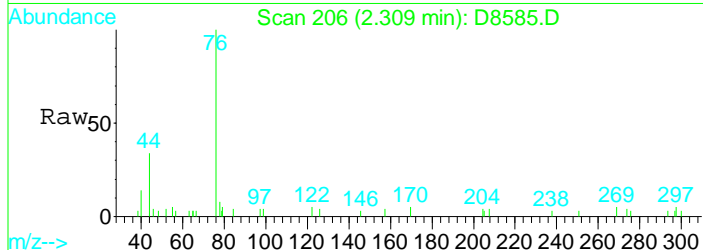






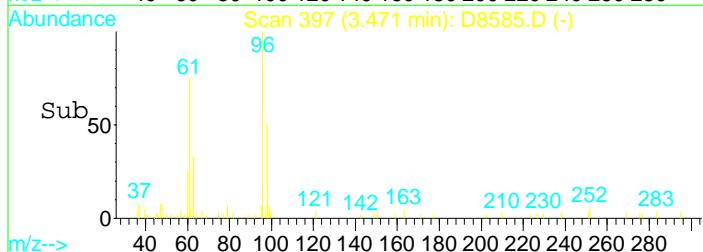
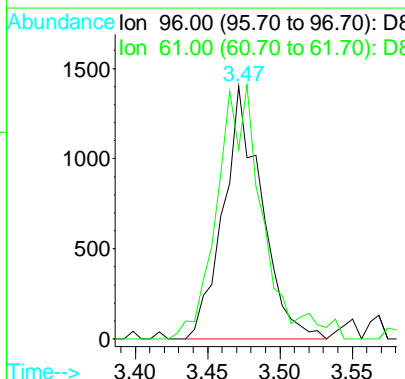
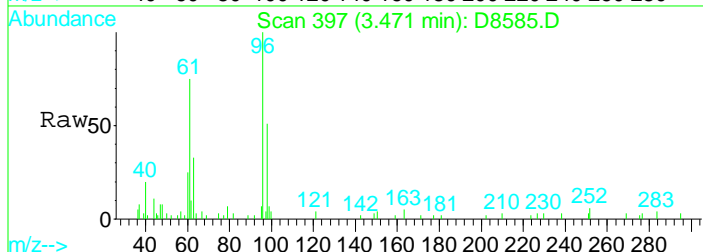
#24  
 Carbon Disulfide  
 Concen: 0.23 ug/L  
 RT: 2.31 min Scan# 206  
 Delta R.T. 0.00 min  
 Lab File: D8585.D  
 Acq: 3 Oct 2017 3:39 pm

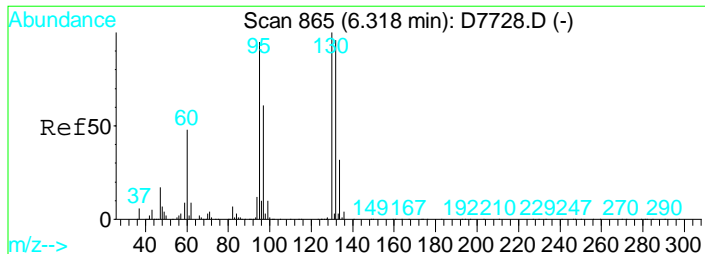
Tgt Ion	Resp	Lower	Upper
76	1191		
78	11.2	0.0	30.5
77	0.0	0.0	23.3



#33  
 cis-1,2-Dichloroethene  
 Concen: 1.37 ug/L  
 RT: 3.47 min Scan# 397  
 Delta R.T. 0.01 min  
 Lab File: D8585.D  
 Acq: 3 Oct 2017 3:39 pm

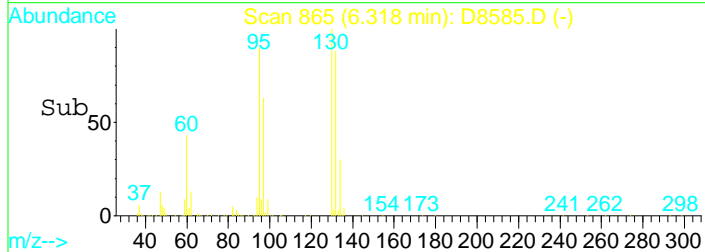
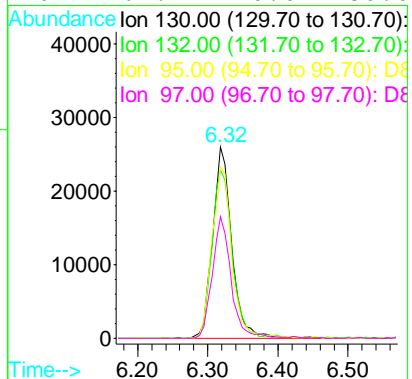
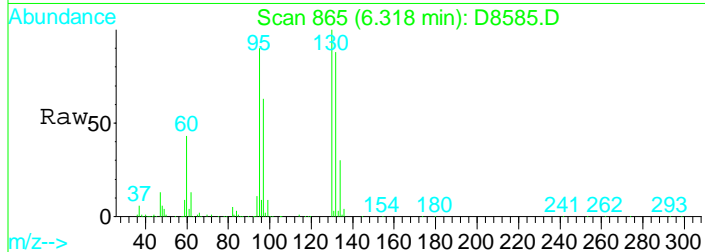
Tgt Ion	Resp	Lower	Upper
96	2585		
61	74.9	93.6	133.6#





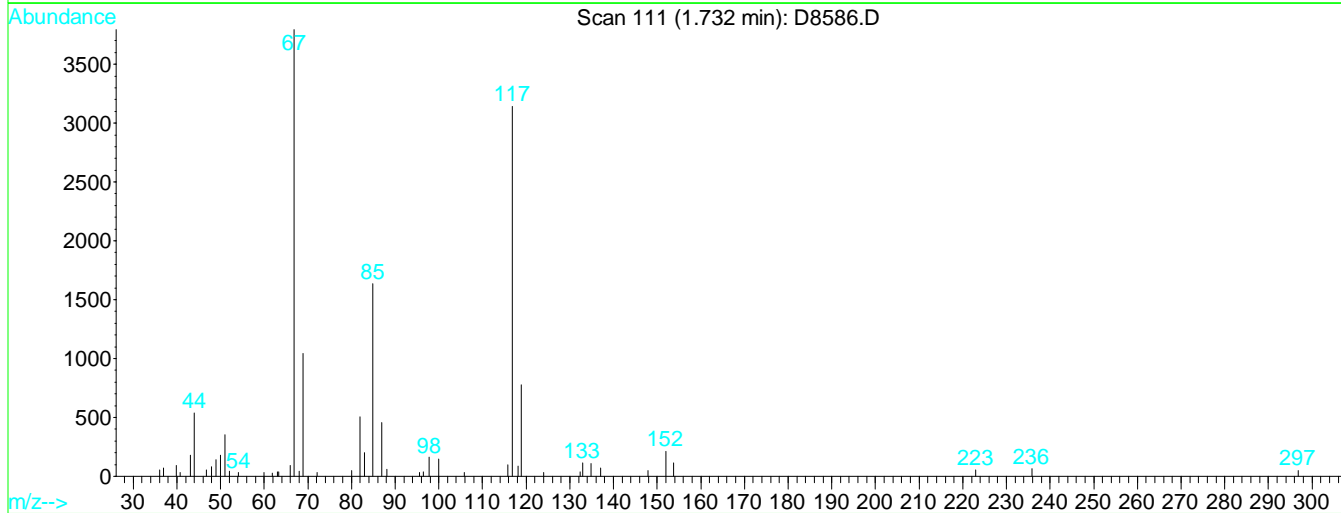
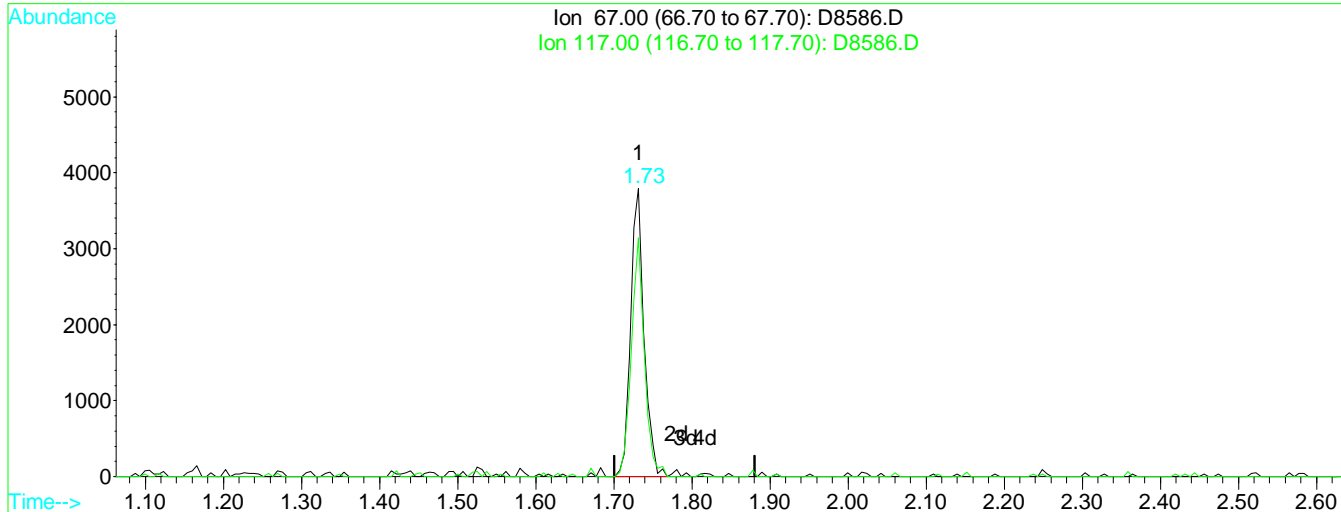
#54  
Trichloroethene  
Concen: 23.24 ug/L  
RT: 6.32 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: D8585.D  
Acq: 3 Oct 2017 3:39 pm

Tgt Ion	Resp	Lower	Upper
130	49660		
132	91.6	75.8	115.8
95	91.7	72.3	112.3
97	61.7	40.0	80.0



Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8586.D Vial: 14  
Acq On : 3 Oct 2017 4:04 pm Operator: B.ALLGEIER  
Sample : r1709205-004 Inst : MS#6  
Misc : environneering 17933 t4 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Oct 4 10:16 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Multiple Level Calibration



TIC: D8586.D

(9) Freon 123a	Manual Integration:	
1.73min 2.09ug/L m	After	
response 4550	Poor integration.	
Ion	Exp%	Act%
67.00	100	100
117.00	81.00	82.81
0.00	0.00	0.00
0.00	0.00	0.00

10/04/17

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8586.D Vial: 14  
 Acq On : 3 Oct 2017 4:04 pm Operator: B.ALLGEIER  
 Sample : r1709205-004 Inst : MS#6  
 Misc : environneering 17933 t4 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Oct 4 10:17 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	243458	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	329171	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	173155	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.30	152	195894	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	116362	49.29	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	98.58%
43) surr1,1,2-dichloroethane-d	4.47	65	114560	44.80	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	89.60%
65) SURR3,Toluene-d8	7.89	98	375199	56.29	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	112.58%
86) SURR2,BFB	10.24	95	167812	51.74	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	103.48%

Target Compounds

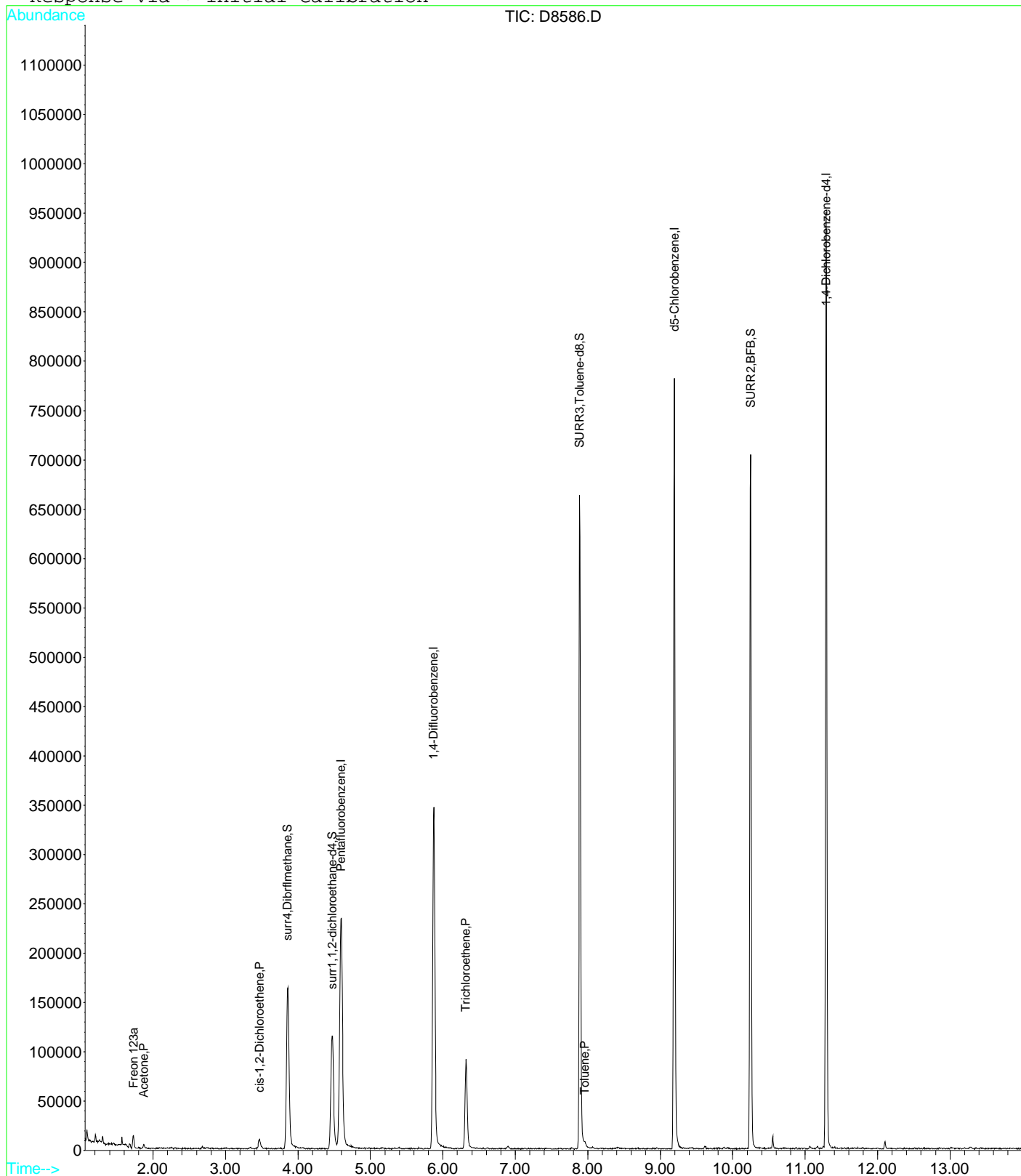
	R.T.	QIon	Response	Conc	Units	Qvalue
9) Freon 123a	1.73	67	4550m	2.09	ug/L	
14) Acetone	1.88	43	2262	4.96	ug/L	69
33) cis-1,2-Dichloroethene	3.47	96	4841	2.54	ug/L	96
54) Trichloroethene	6.32	130	32075	15.03	ug/L	96
66) Toluene	7.96	91	1989	0.27	ug/L	91

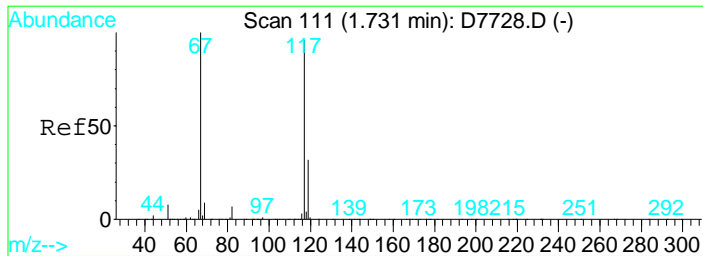
Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8586.D  
Acq On : 3 Oct 2017 4:04 pm  
Sample : r1709205-004  
Misc : environering 17933 t4  
MS Integration Params: CPD4.P  
Quant Time: Oct 4 10:17 2017

Vial: 14  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

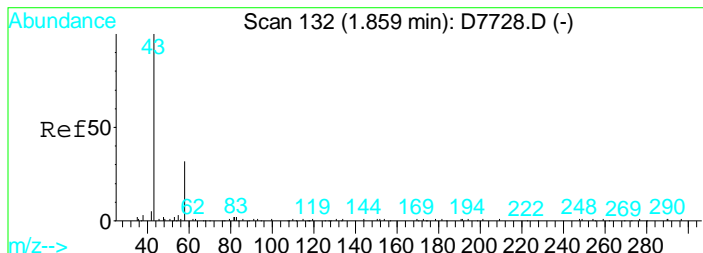
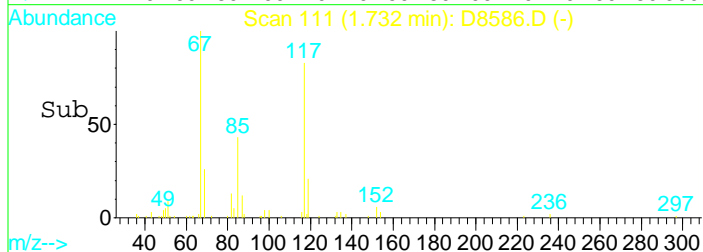
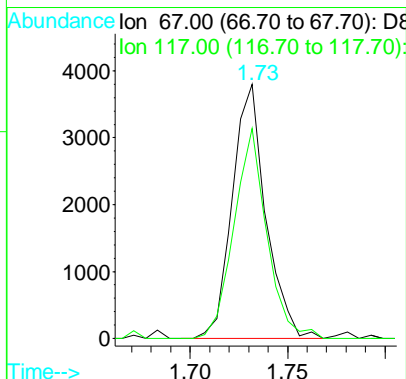
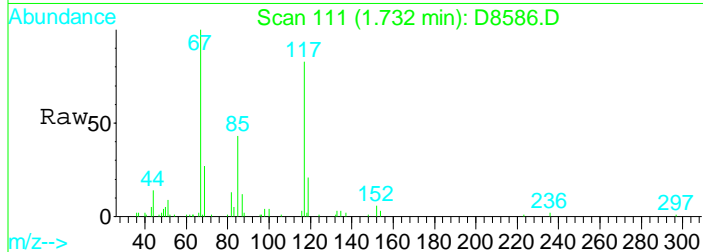
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration





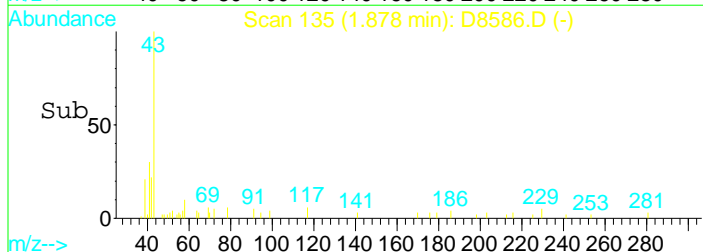
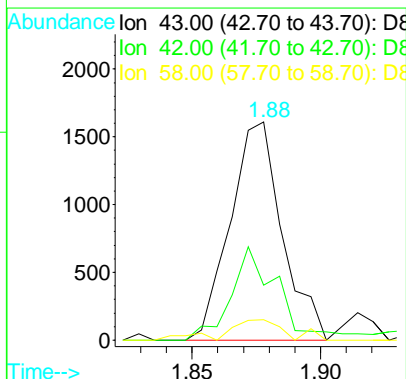
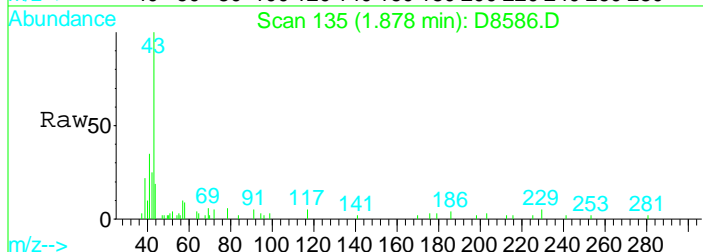
#9  
 Freon 123a  
 Concen: 2.09 ug/L m  
 RT: 1.73 min Scan# 111  
 Delta R.T. 0.00 min  
 Lab File: D8586.D  
 Acq: 3 Oct 2017 4:04 pm

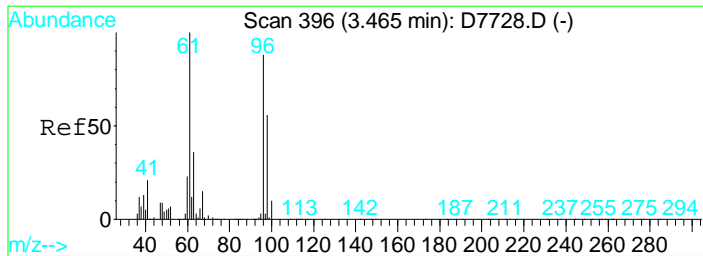
Tgt Ion	Resp	Lower	Upper
67	4550		
117	82.8	61.0	101.0



#14  
 Acetone  
 Concen: 4.96 ug/L  
 RT: 1.88 min Scan# 135  
 Delta R.T. 0.02 min  
 Lab File: D8586.D  
 Acq: 3 Oct 2017 4:04 pm

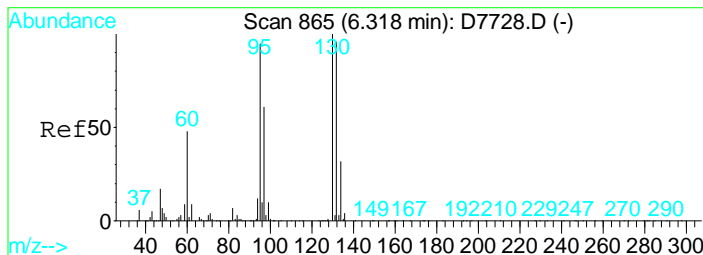
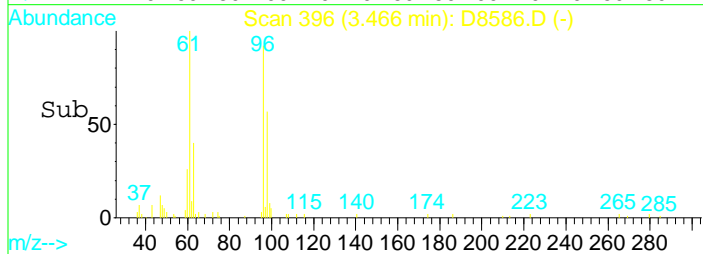
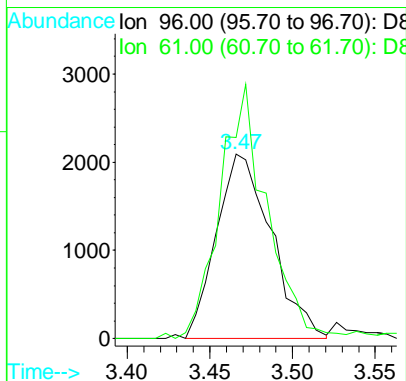
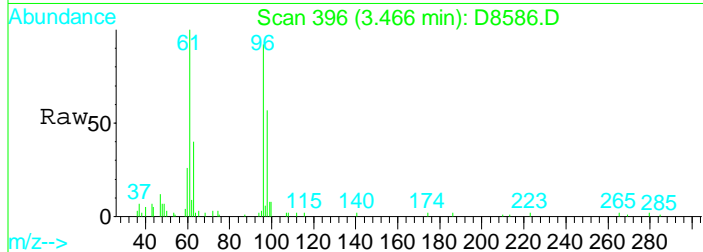
Tgt Ion	Resp	Lower	Upper
43	2262		
42	25.1	0.0	31.4
58	9.2	3.1	43.1





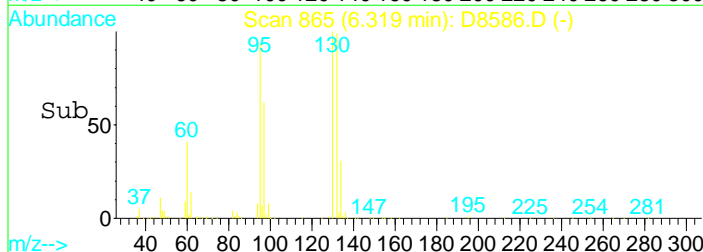
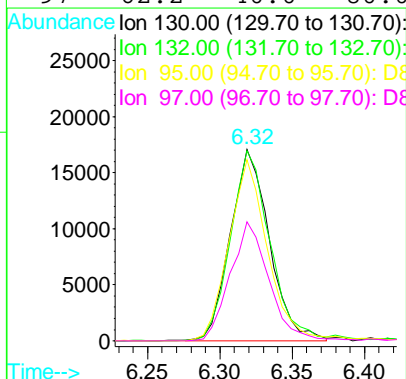
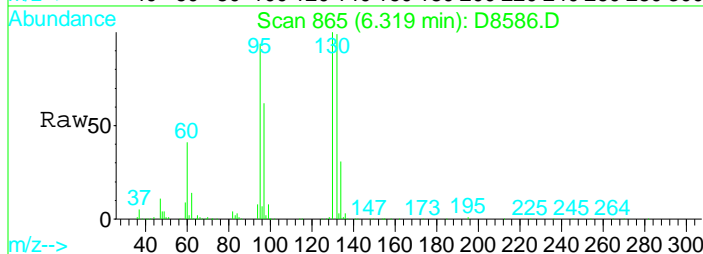
#33  
 cis-1,2-Dichloroethene  
 Concen: 2.54 ug/L  
 RT: 3.47 min Scan# 396  
 Delta R.T. 0.00 min  
 Lab File: D8586.D  
 Acq: 3 Oct 2017 4:04 pm

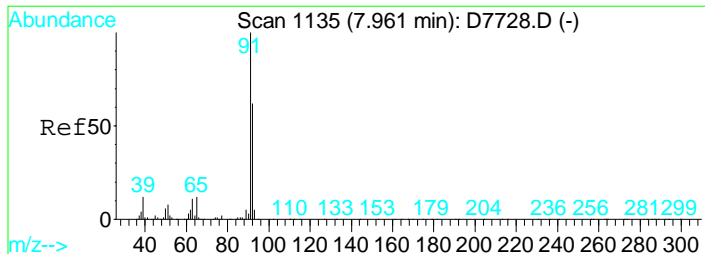
Tgt Ion	Resp	Lower	Upper
96	4841		
61	108.9	93.6	133.6



#54  
 Trichloroethene  
 Concen: 15.03 ug/L  
 RT: 6.32 min Scan# 865  
 Delta R.T. 0.00 min  
 Lab File: D8586.D  
 Acq: 3 Oct 2017 4:04 pm

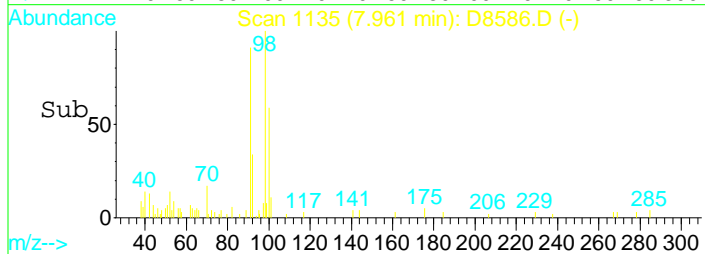
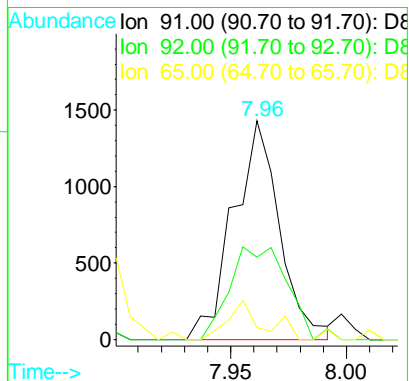
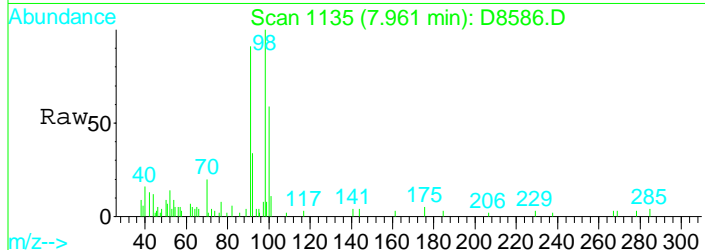
Tgt Ion	Resp	Lower	Upper
130	32075		
132	101.5	75.8	115.8
95	95.1	72.3	112.3
97	62.2	40.0	80.0





#66  
 Toluene  
 Concen: 0.27 ug/L  
 RT: 7.96 min Scan# 1135  
 Delta R.T. 0.00 min  
 Lab File: D8586.D  
 Acq: 3 Oct 2017 4:04 pm

Tgt Ion	Resp	Lower	Upper
91	1989		
92	51.7	39.3	79.3
65	10.5	0.0	32.3





Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8587.D Vial: 15  
 Acq On : 3 Oct 2017 4:30 pm Operator: B.ALLGEIER  
 Sample : r1709205-005 Inst : MS#6  
 Misc : environneering 17933 t4 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Oct 4 10:22 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	241557	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	332618	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	174171	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	192745	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.85	113	114496	47.99	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	95.98%
43) surr1,1,2-dichloroethane-d	4.47	65	111622	43.20	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	86.40%
65) SURRE3,Toluene-d8	7.89	98	368645	54.73	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	109.46%
86) SURRE2,BFB	10.25	95	165488	50.73	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	101.46%

Target Compounds

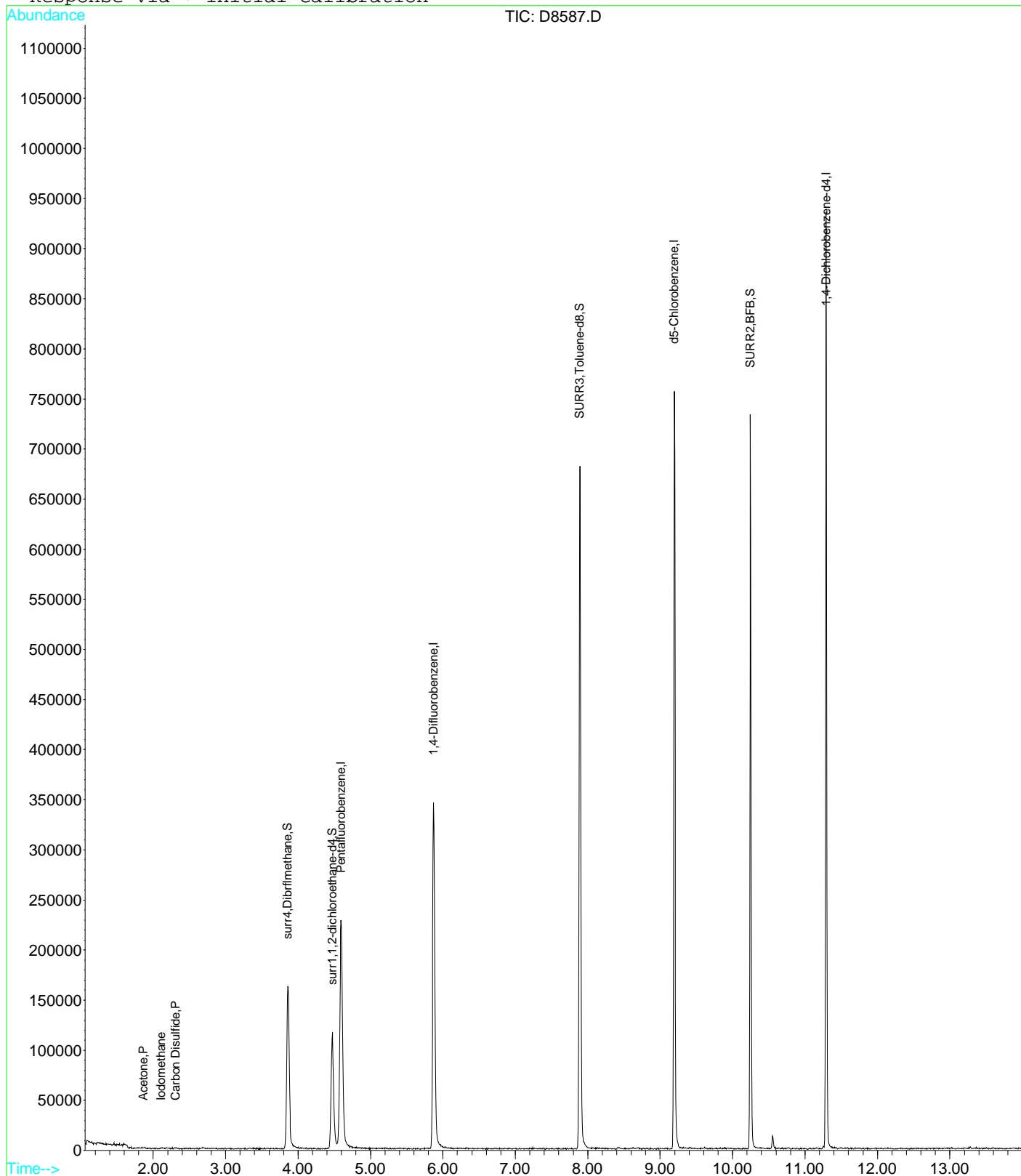
	R.T.	QIon	Response	Conc	Units	Qvalue
14) Acetone	1.87	43	693	1.53	ug/L	97
17) Iodomethane	2.11	142	592	0.22	ug/L	77
24) Carbon Disulfide	2.31	76	1250	0.25	ug/L	90

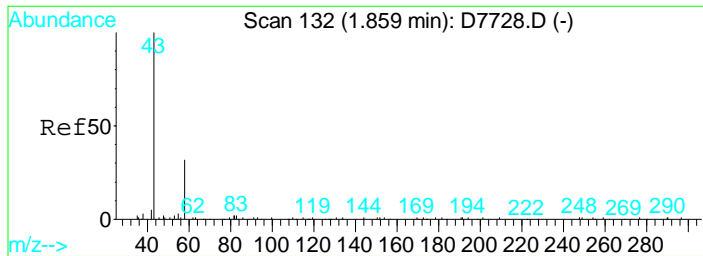
Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8587.D  
Acq On : 3 Oct 2017 4:30 pm  
Sample : r1709205-005  
Misc : environneering 17933 t4  
MS Integration Params: CPD4.P  
Quant Time: Oct 4 10:22 2017

Vial: 15  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

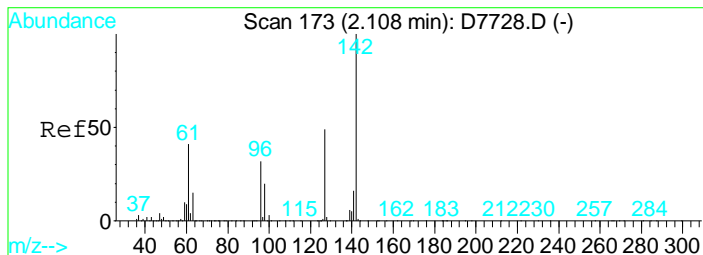
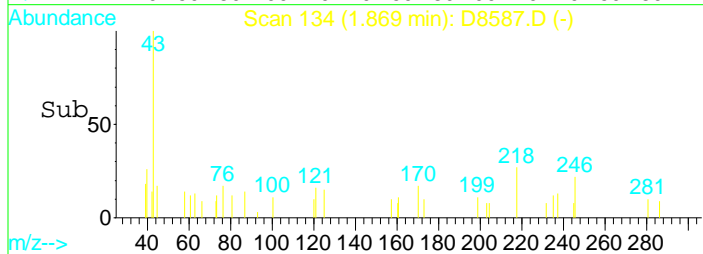
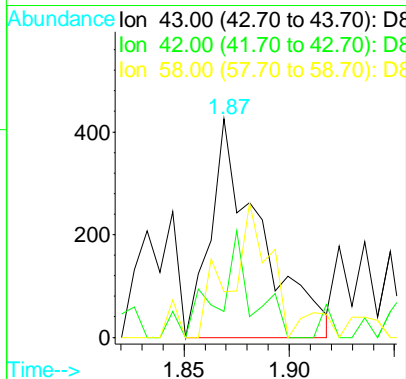
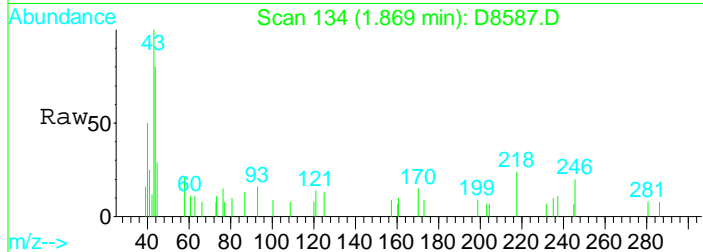
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration





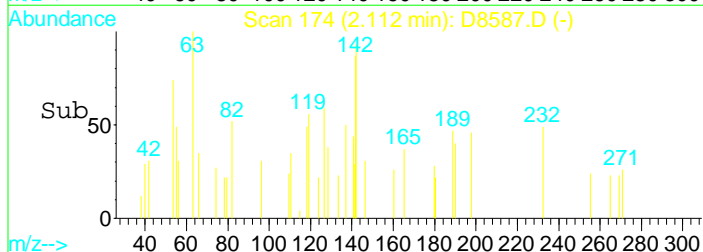
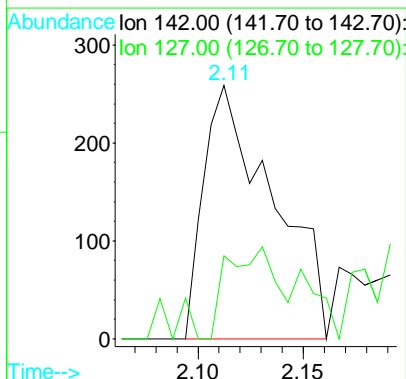
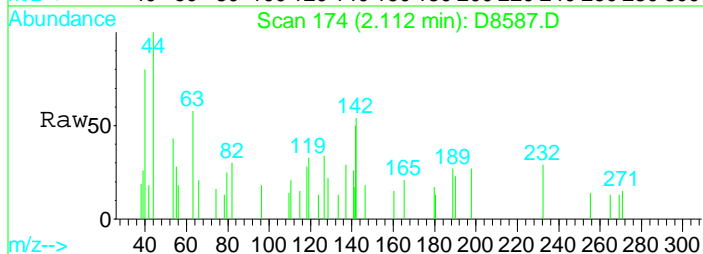
#14  
 Acetone  
 Concen: 1.53 ug/L  
 RT: 1.87 min Scan# 134  
 Delta R.T. 0.01 min  
 Lab File: D8587.D  
 Acq: 3 Oct 2017 4:30 pm

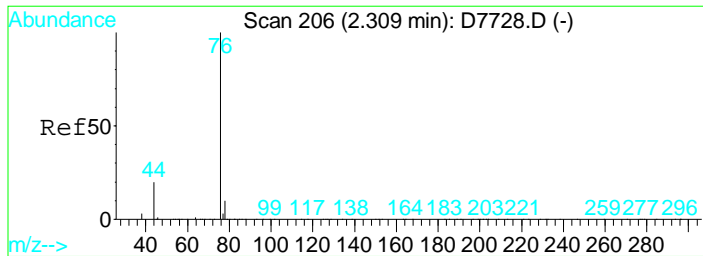
Tgt Ion	Ratio	Lower	Upper
43	100		
42	12.0	0.0	31.4
58	20.9	3.1	43.1



#17  
 Iodomethane  
 Concen: 0.22 ug/L  
 RT: 2.11 min Scan# 174  
 Delta R.T. 0.00 min  
 Lab File: D8587.D  
 Acq: 3 Oct 2017 4:30 pm

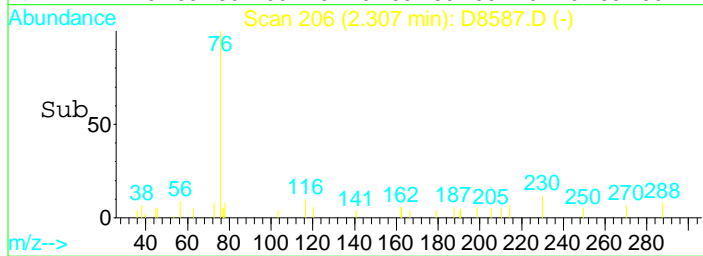
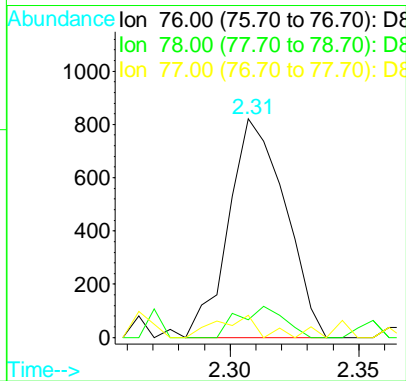
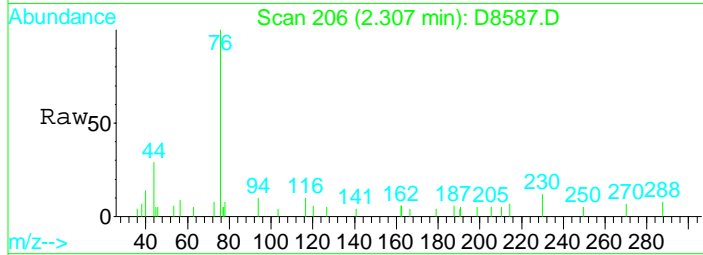
Tgt Ion	Ratio	Lower	Upper
142	100		
127	32.8	28.6	68.6





#24  
 Carbon Disulfide  
 Concen: 0.25 ug/L  
 RT: 2.31 min Scan# 206  
 Delta R.T. -0.00 min  
 Lab File: D8587.D  
 Acq: 3 Oct 2017 4:30 pm

Tgt Ion	Resp	Lower	Upper
76	1250		
78	8.0	0.0	30.5
77	10.2	0.0	23.3



Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8588.D Vial: 16  
 Acq On : 3 Oct 2017 4:55 pm Operator: B.ALLGEIER  
 Sample : r1709205-006 Inst : MS#6  
 Misc : environneering 17933 t4 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Oct 4 11:57 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	241533	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	332921	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	171389	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	186921	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	116828	48.93	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	97.86%
43) surr1,1,2-dichloroethane-d	4.47	65	113571	43.91	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	87.82%
65) SURR3,Toluene-d8	7.89	98	371207	55.06	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	110.12%
86) SURR2,BFB	10.25	95	165930	51.69	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	103.38%

Target Compounds

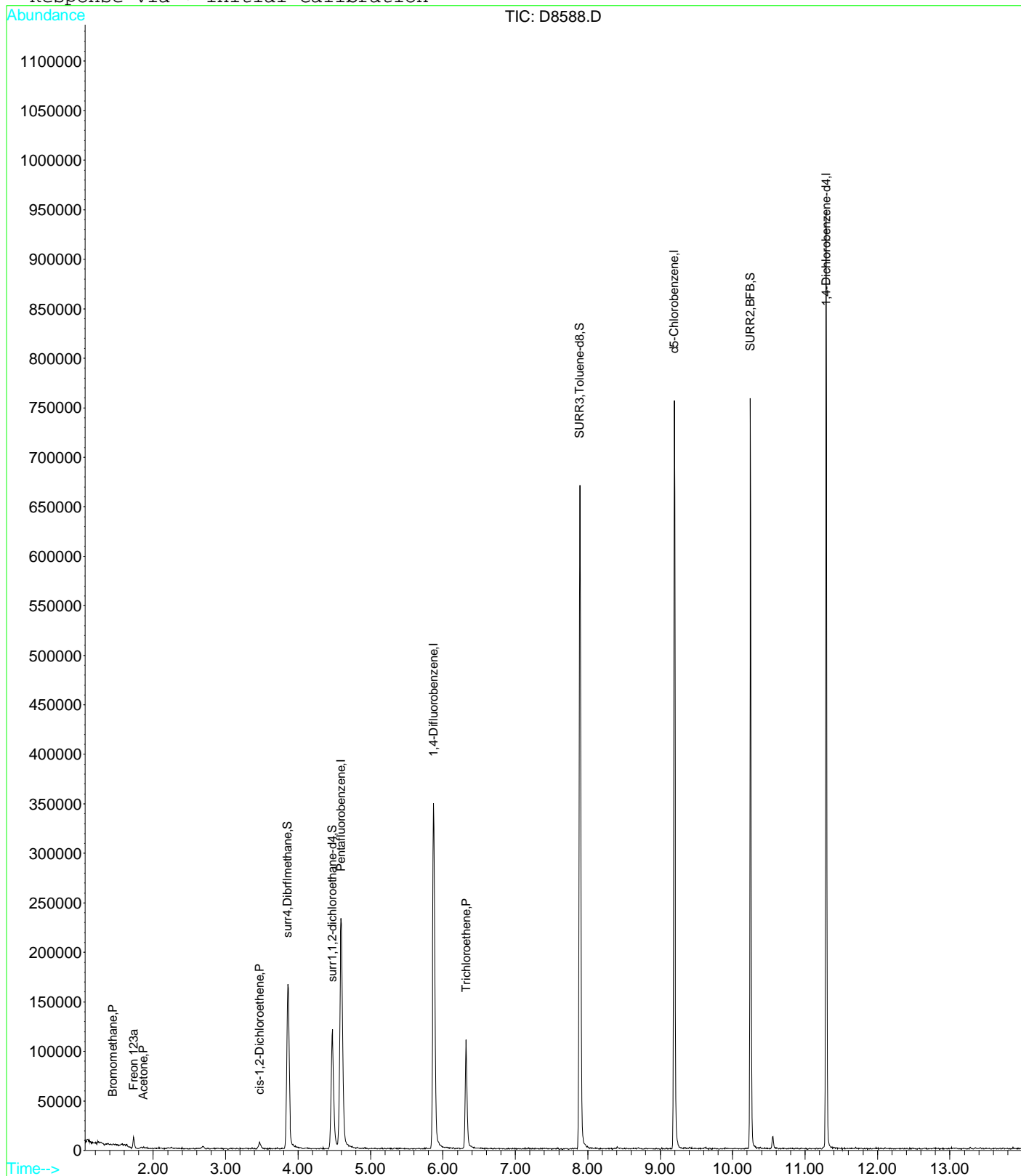
	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.44	94	1590	0.89	ug/L	# 27
9) Freon 123a	1.73	67	3363	1.55	ug/L	90
14) Acetone	1.87	43	935	2.07	ug/L	96
33) cis-1,2-Dichloroethene	3.47	96	3142	1.66	ug/L	# 73
54) Trichloroethene	6.32	130	40980	18.98	ug/L	98

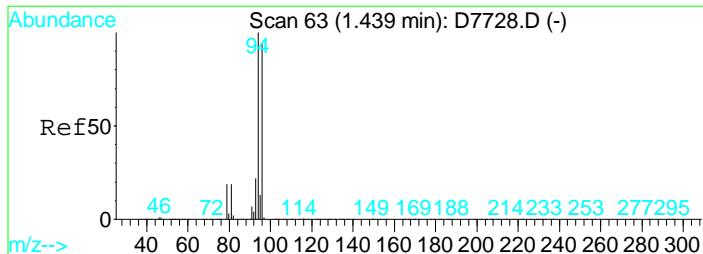
Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8588.D  
Acq On : 3 Oct 2017 4:55 pm  
Sample : r1709205-006  
Misc : environneering 17933 t4  
MS Integration Params: CPD4.P  
Quant Time: Oct 4 11:57 2017

Vial: 16  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

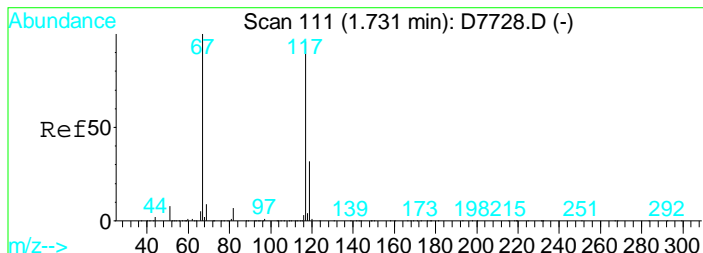
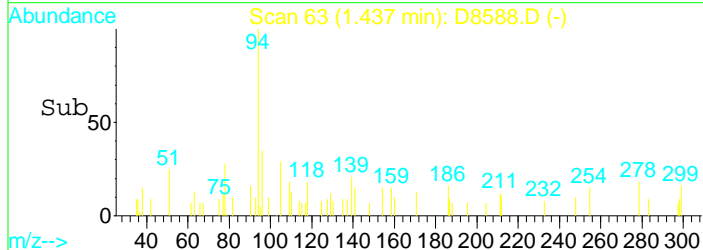
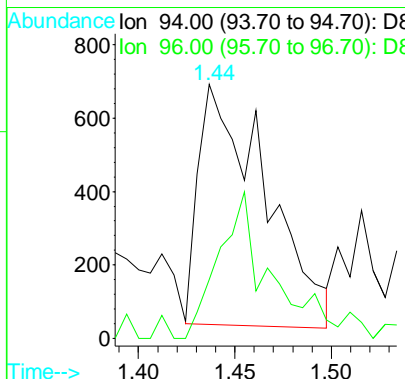
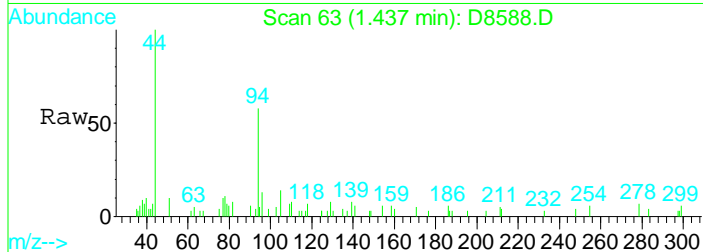
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration





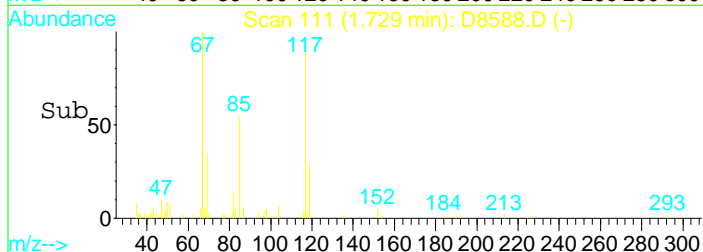
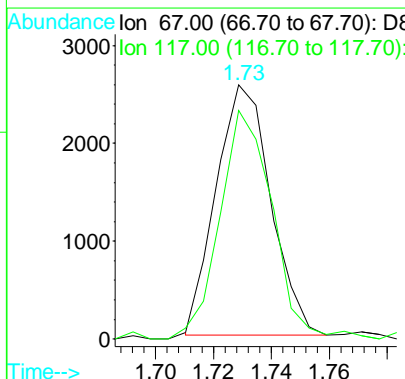
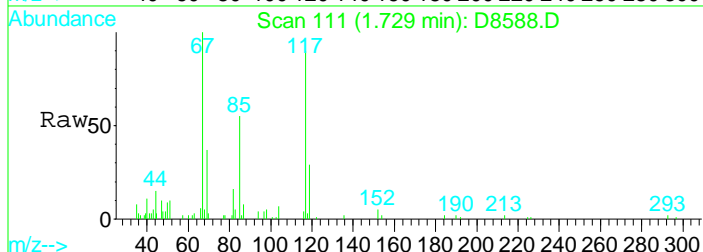
#5  
 Bromomethane  
 Concen: 0.89 ug/L  
 RT: 1.44 min Scan# 63  
 Delta R.T. -0.00 min  
 Lab File: D8588.D  
 Acq: 3 Oct 2017 4:55 pm

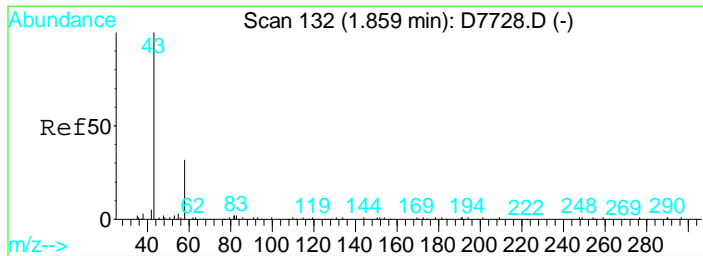
Tgt Ion: 94 Resp: 1590  
 Ion Ratio Lower Upper  
 94 100  
 96 23.3 73.7 113.7#



#9  
 Freon 123a  
 Concen: 1.55 ug/L  
 RT: 1.73 min Scan# 111  
 Delta R.T. -0.00 min  
 Lab File: D8588.D  
 Acq: 3 Oct 2017 4:55 pm

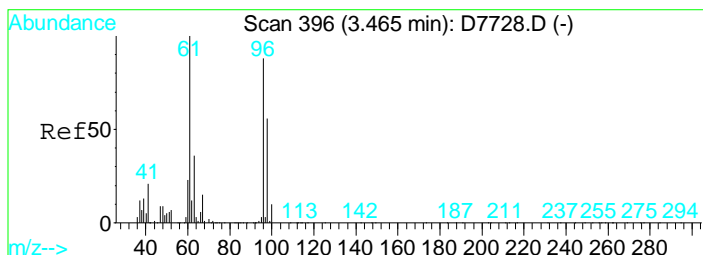
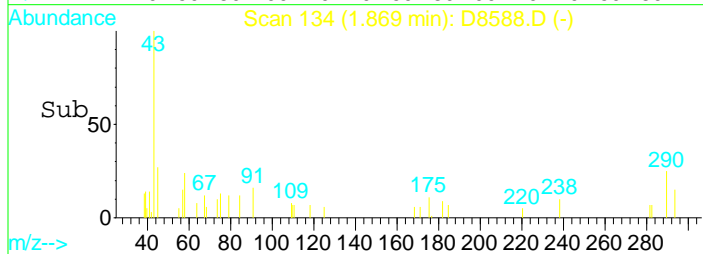
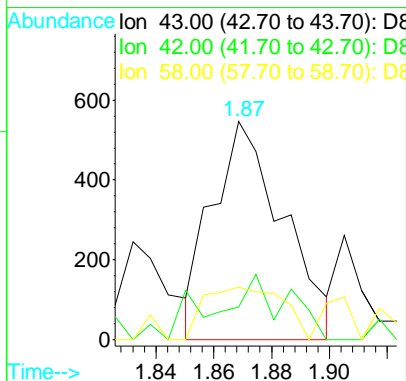
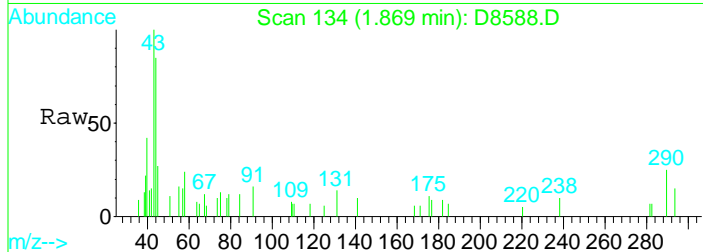
Tgt Ion: 67 Resp: 3363  
 Ion Ratio Lower Upper  
 67 100  
 117 90.0 61.0 101.0





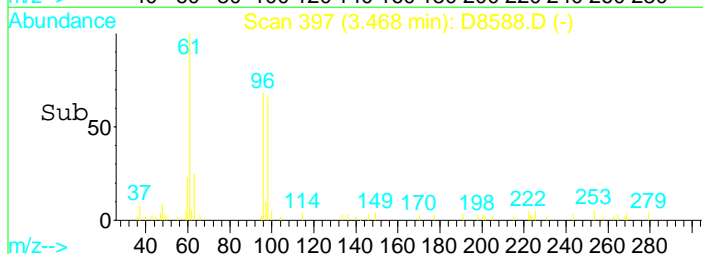
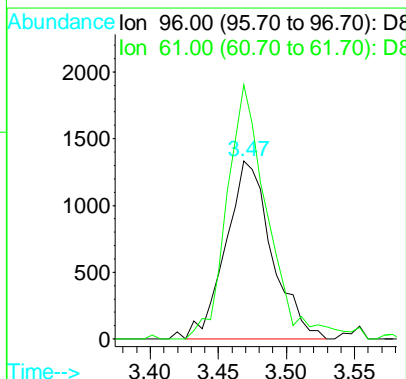
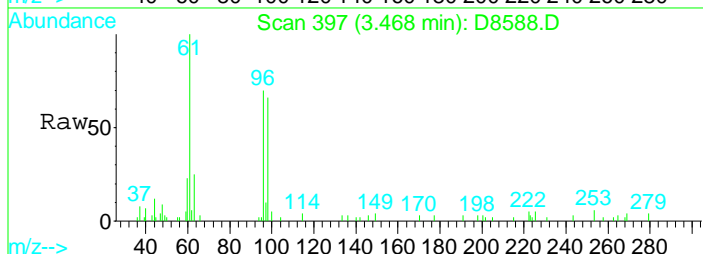
#14  
 Acetone  
 Concen: 2.07 ug/L  
 RT: 1.87 min Scan# 134  
 Delta R.T. 0.01 min  
 Lab File: D8588.D  
 Acq: 3 Oct 2017 4:55 pm

Tgt Ion	Resp	Lower	Upper
43	935		
42	14.8	0.0	31.4
58	23.9	3.1	43.1

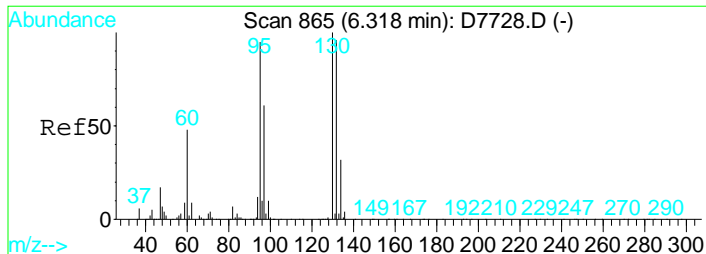


#33  
 cis-1,2-Dichloroethene  
 Concen: 1.66 ug/L  
 RT: 3.47 min Scan# 397  
 Delta R.T. 0.00 min  
 Lab File: D8588.D  
 Acq: 3 Oct 2017 4:55 pm

Tgt Ion	Resp	Lower	Upper
96	3142		
61	142.6	93.6	133.6#

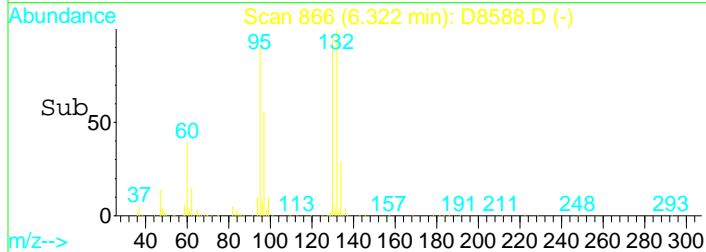
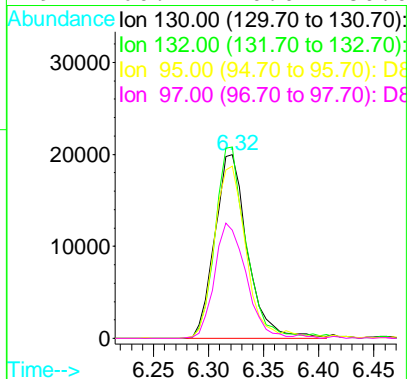
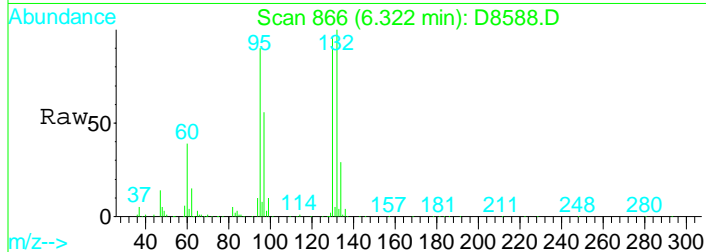






#54  
 Trichloroethene  
 Concen: 18.98 ug/L  
 RT: 6.32 min Scan# 866  
 Delta R.T. 0.00 min  
 Lab File: D8588.D  
 Acq: 3 Oct 2017 4:55 pm

Tgt Ion	Resp	Lower	Upper
130	40980		
132	100.3	75.8	115.8
95	92.9	72.3	112.3
97	60.4	40.0	80.0



Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8508.D  
 Acq On : 5 Oct 2017 4:27 pm  
 Operator : F. NAEGLER  
 Sample : R1709205-007|1.0 Inst : MSVOA10  
 Misc : ENVIRO 17933 T4  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 12 17:44:47 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

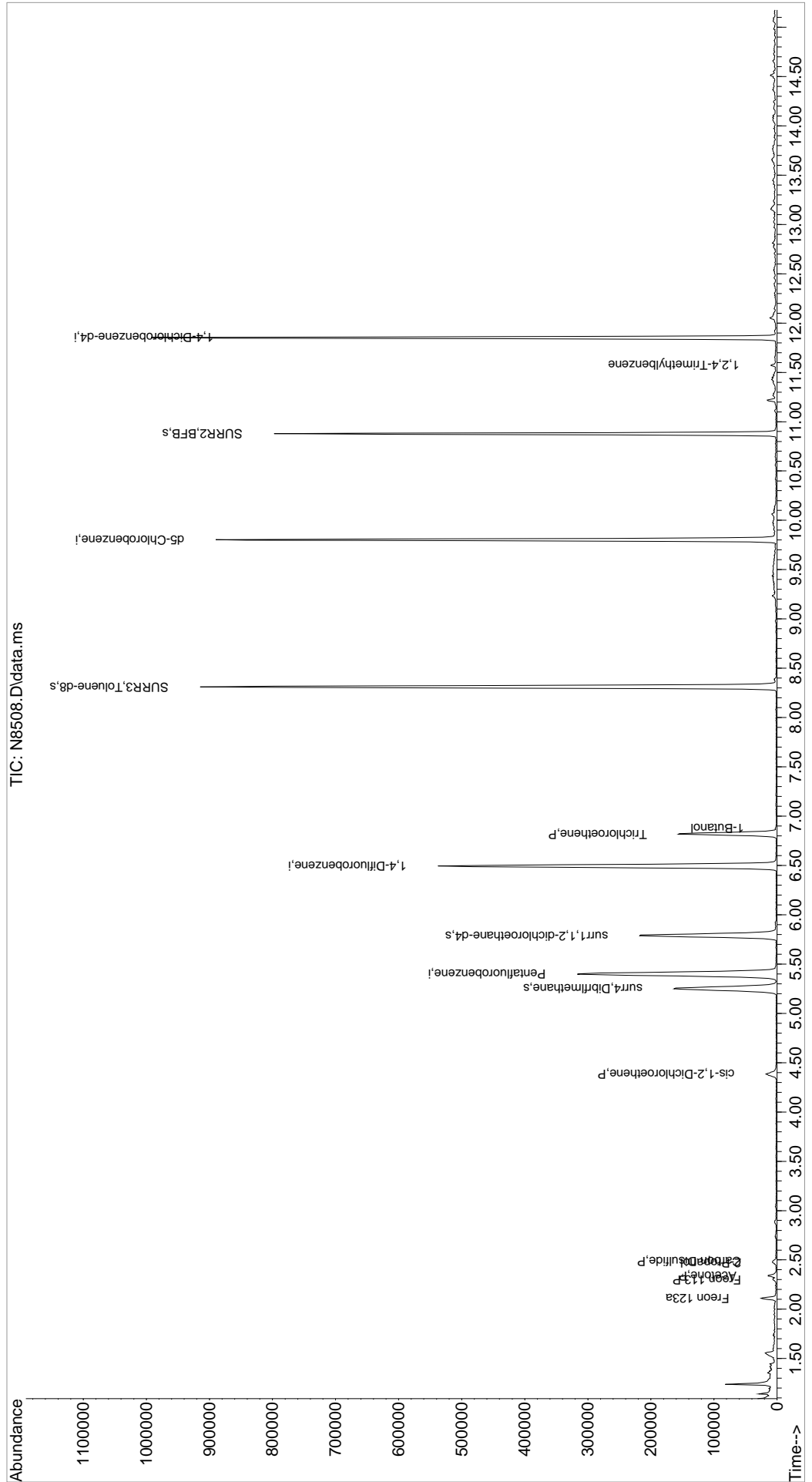
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.397	168	309278	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.494	114	452548	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	398106	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	192104	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.251	113	140044	49.27	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	98.54%	
46) surr1,1,2-dichloroetha...	5.787	65	179444	52.38	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	104.76%	
64) SURR3,Toluene-d8	8.311	98	514805	47.95	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	95.90%	
69) SURR2,BFB	10.878	95	192955	44.31	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	88.62%	
Target Compounds						
5) Bromomethane	1.605	94	444	Below Cal	#	64
10) Freon 123a	2.111	67	9456	2.67	ug/L	94
14) Freon 113	2.300	101	1509	0.60	ug/L	# 74
15) Acetone	2.337	43	13287	5.91	ug/L	99
16) 2-Propanol	2.471	45	5990	15.42	ug/L	77
18) Carbon Disulfide	2.489	76	2908	0.39	ug/L	91
33) cis-1,2-Dichloroethene	4.385	96	7176	2.24	ug/L	99
52) 1-Butanol	6.878	56	343	17.48	ug/L	# 61
53) Trichloroethene	6.817	130	56335	18.17	ug/L	97
100) 1,2,4-Trimethylbenzene	11.573	105	3390	0.34	ug/L	85

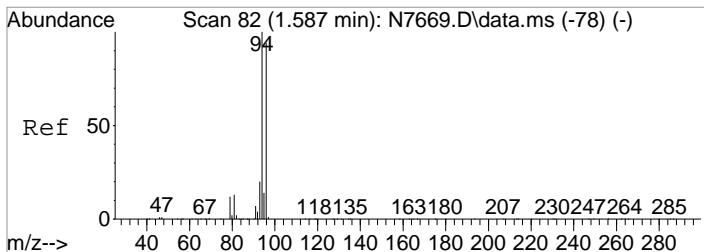
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa10\data\100517\  
 Data File : N8508.D  
 Acq On : 5 Oct 2017 4:27 pm  
 Operator : F. NAEGLER  
 Sample : R1709205-007|1.0  
 Misc : ENVIRO 17933 T4  
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA10

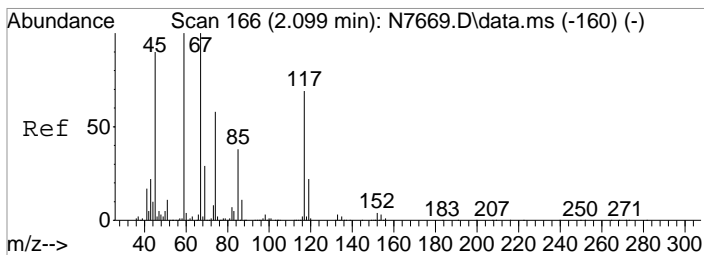
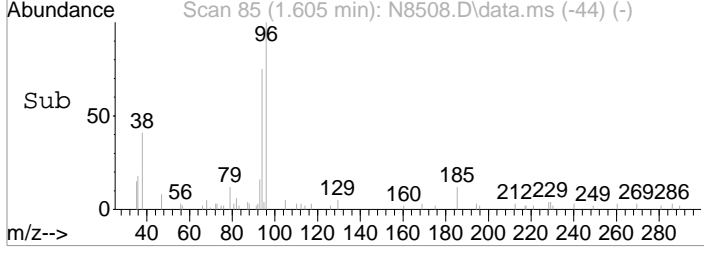
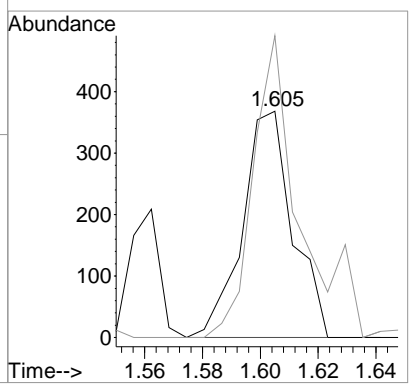
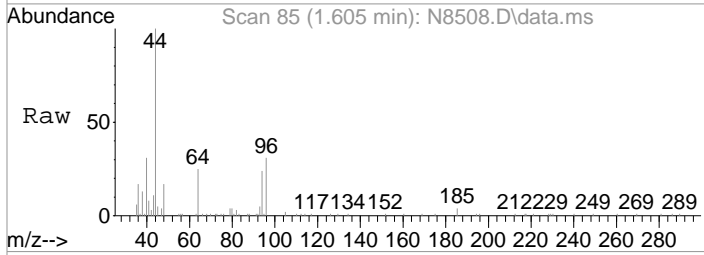
Quant Time: Oct 12 17:44:47 2017  
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration





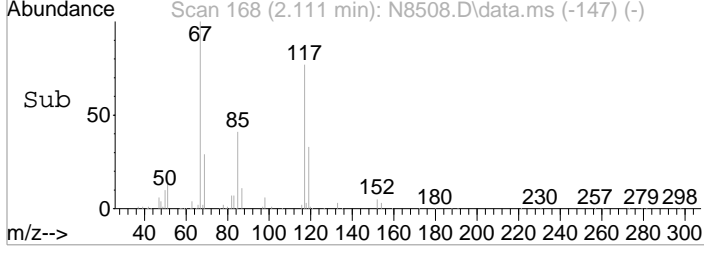
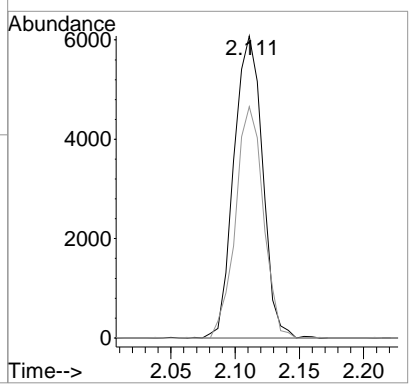
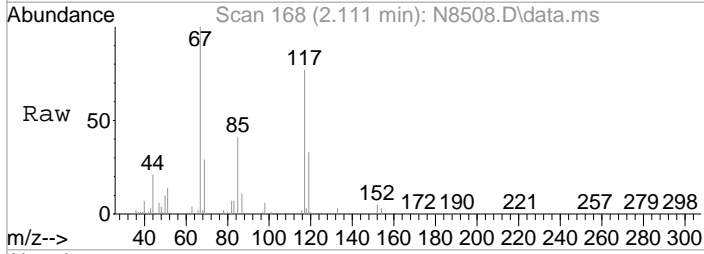
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.605 min Scan# 85  
 Delta R.T. 0.025 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

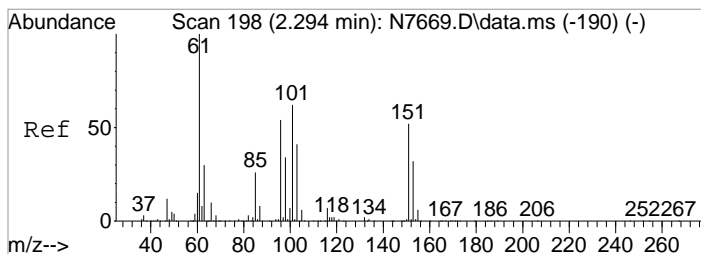
Tgt Ion	Resp	Lower	Upper
94	100		
96	133.4	77.9	117.9#



#10  
 Freon 123a  
 Concen: 2.67 ug/L  
 RT: 2.111 min Scan# 168  
 Delta R.T. 0.012 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

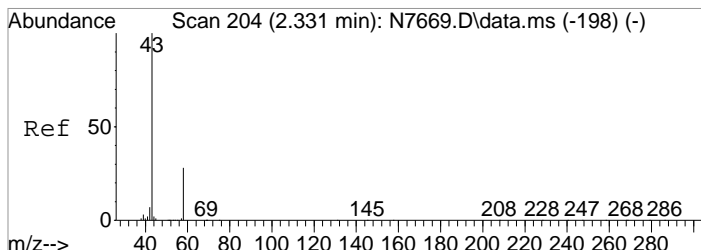
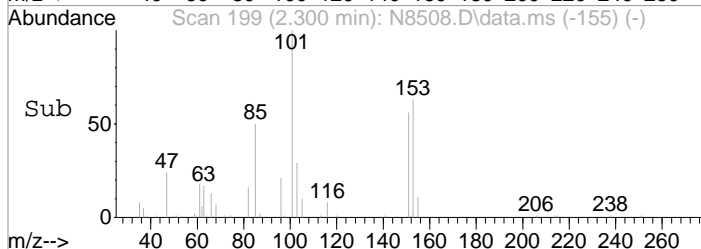
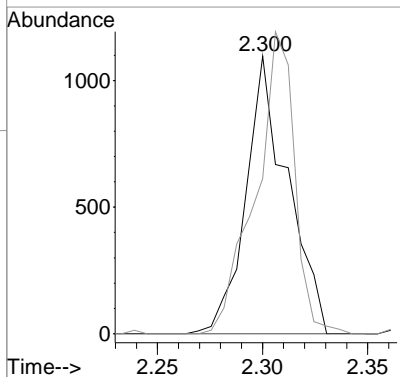
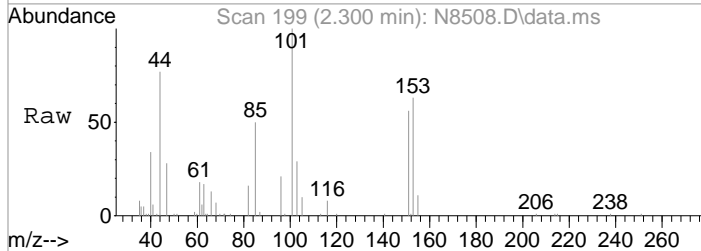
Tgt Ion	Resp	Lower	Upper
67	100		
117	76.6	51.9	91.9





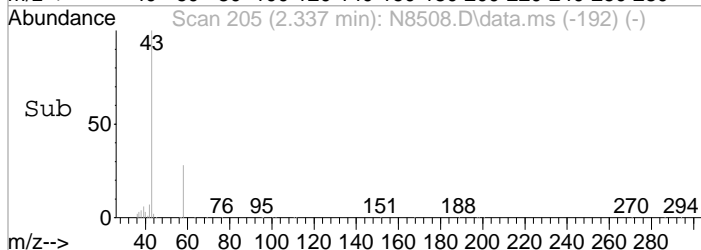
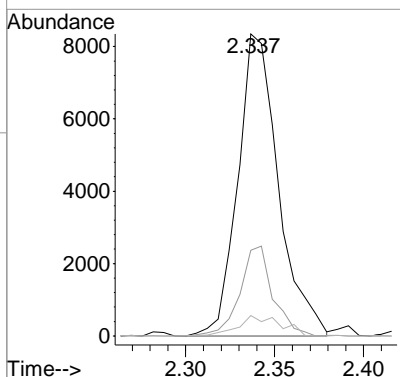
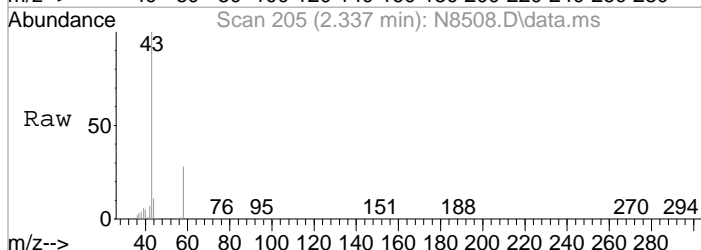
#14  
 Freon 113  
 Concen: 0.60 ug/L  
 RT: 2.300 min Scan# 199  
 Delta R.T. 0.012 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

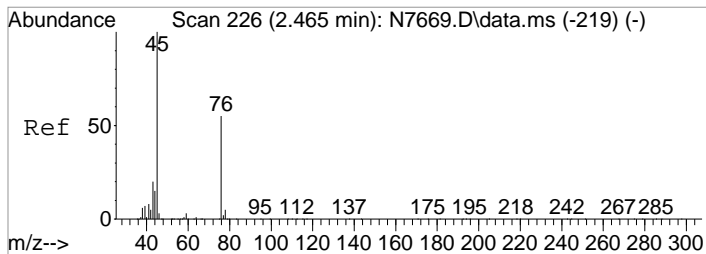
Tgt Ion	Resp	Lower	Upper
101	1509		
101	100		
151	55.8	58.3	98.3#



#15  
 Acetone  
 Concen: 5.91 ug/L  
 RT: 2.337 min Scan# 205  
 Delta R.T. 0.007 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

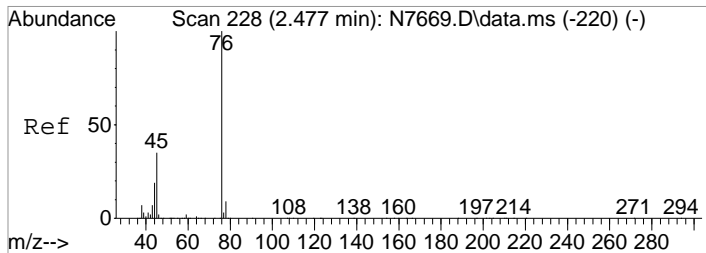
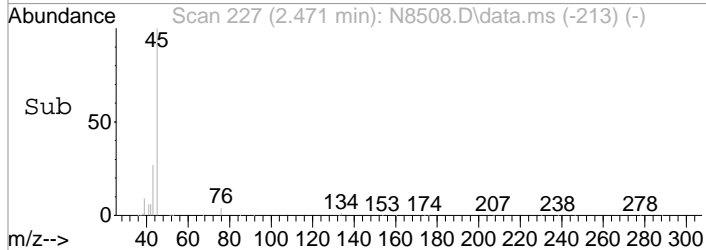
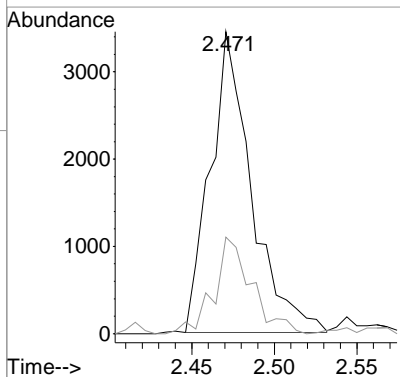
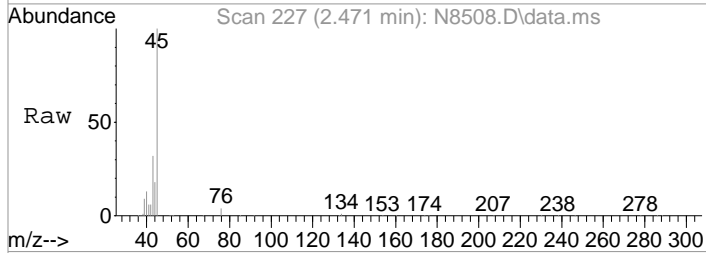
Tgt Ion	Resp	Lower	Upper
43	13287		
43	100		
58	28.4	9.1	49.1
42	6.8	0.0	27.2





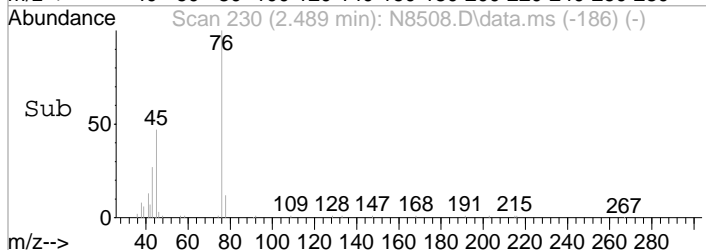
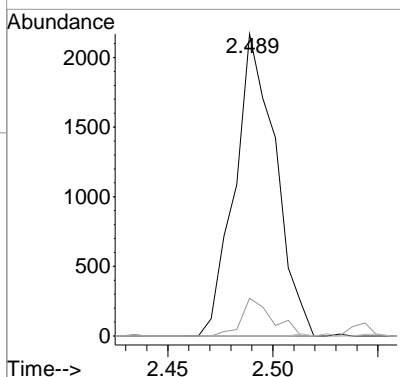
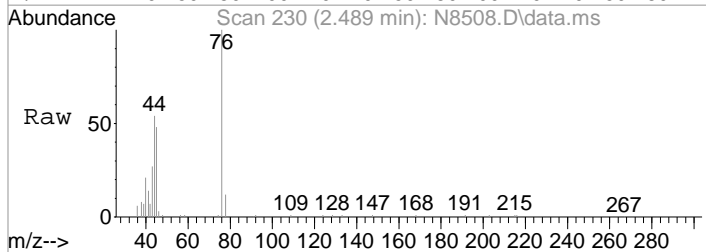
#16  
 2-Propanol  
 Concen: 15.42 ug/L  
 RT: 2.471 min Scan# 227  
 Delta R.T. -0.023 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

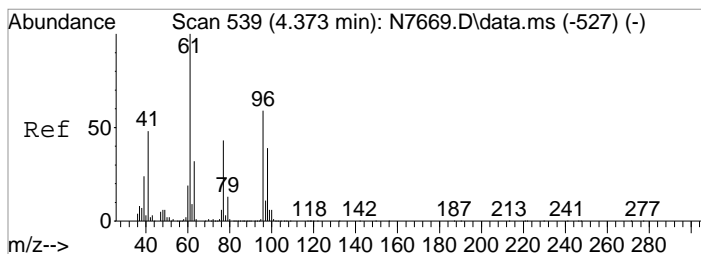
Tgt Ion	Resp	Lower	Upper
45	100		
43	32.0	1.2	41.2



#18  
 Carbon Disulfide  
 Concen: 0.39 ug/L  
 RT: 2.489 min Scan# 230  
 Delta R.T. 0.012 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

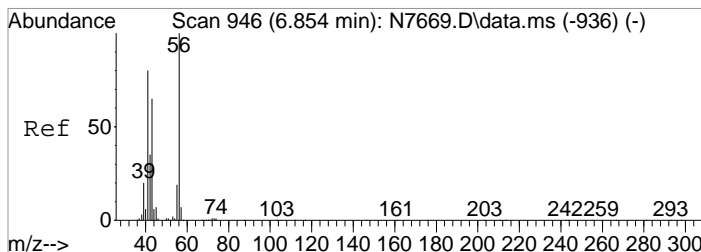
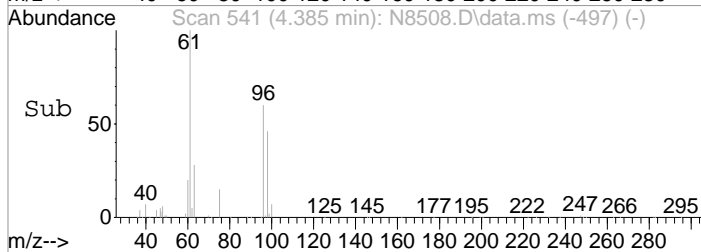
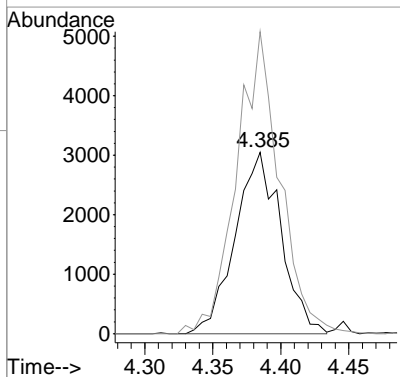
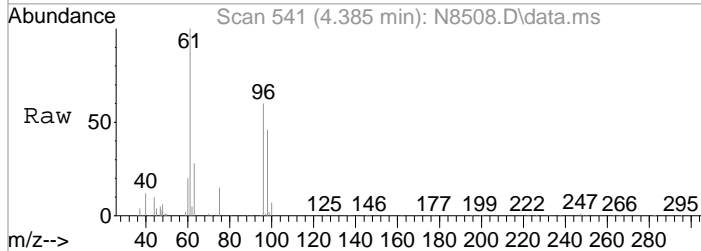
Tgt Ion	Resp	Lower	Upper
76	100		
78	12.5	0.0	29.2
77	0.0	0.0	22.7





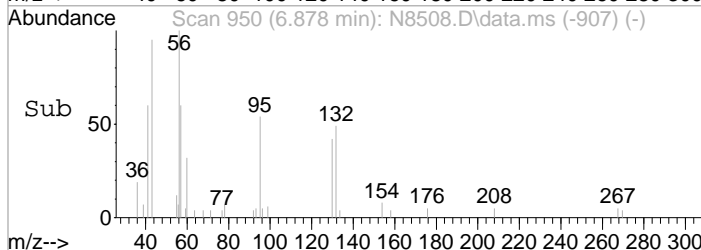
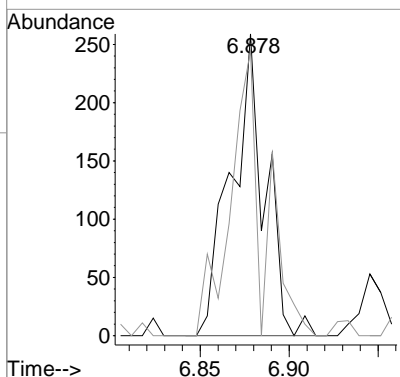
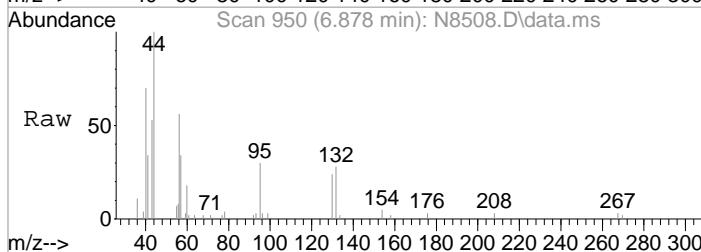
#33  
 cis-1,2-Dichloroethene  
 Concen: 2.24 ug/L  
 RT: 4.385 min Scan# 541  
 Delta R.T. 0.012 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

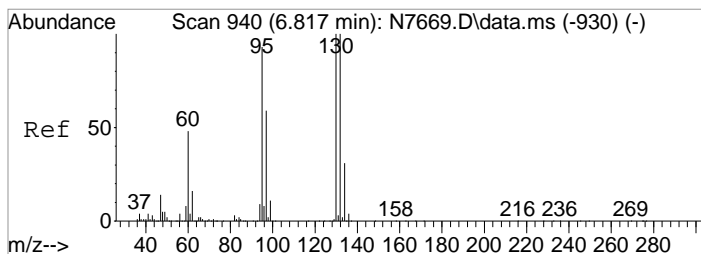
Tgt Ion	Resp	Lower	Upper
96	7176		
96	100		
61	166.4	145.6	185.6



#52  
 1-Butanol  
 Concen: 17.48 ug/L  
 RT: 6.878 min Scan# 950  
 Delta R.T. 0.012 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

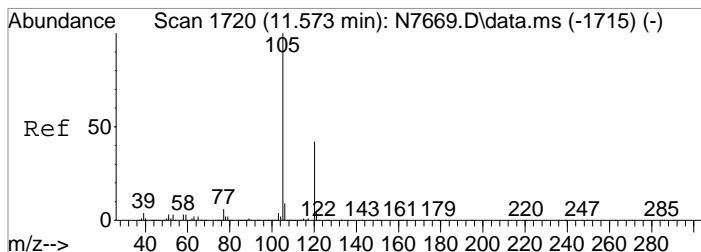
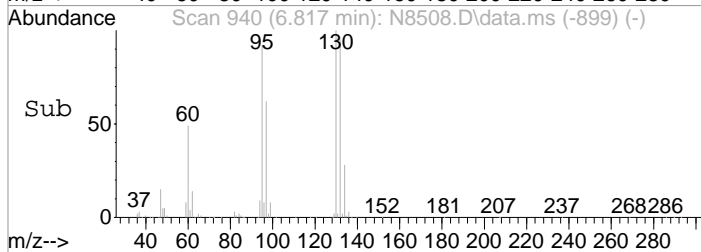
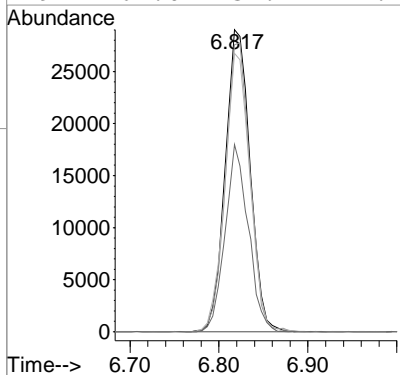
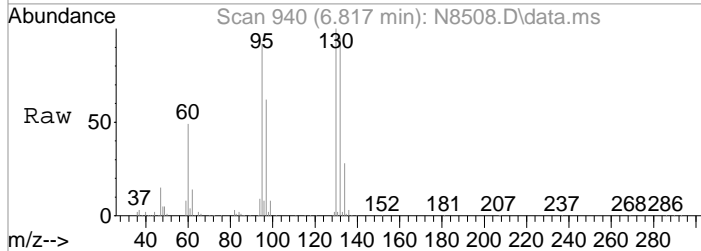
Tgt Ion	Resp	Lower	Upper
56	343		
56	100		
43	94.6	44.2	84.2#





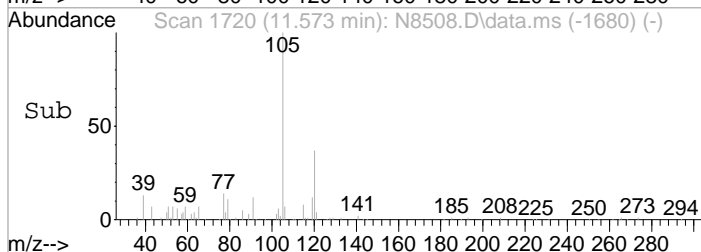
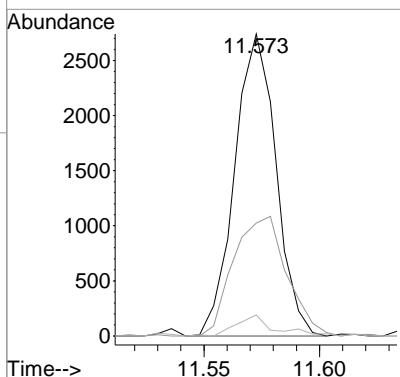
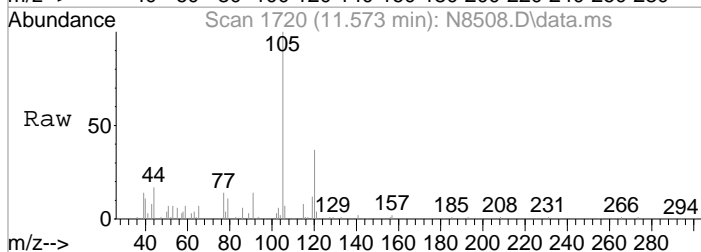
#53  
 Trichloroethene  
 Concen: 18.17 ug/L  
 RT: 6.817 min Scan# 940  
 Delta R.T. 0.000 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

Tgt Ion	Resp	Lower	Upper
130	100		
132	95.0	72.6	112.6
95	92.1	72.5	112.5
97	62.0	37.4	77.4



#100  
 1,2,4-Trimethylbenzene  
 Concen: 0.34 ug/L  
 RT: 11.573 min Scan# 1720  
 Delta R.T. 0.000 min  
 Lab File: N8508.D  
 Acq: 5 Oct 2017 4:27 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	37.4	27.6	67.6
65	7.0	0.0	24.5





Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8567.D Vial: 21  
 Acq On : 2 Oct 2017 7:49 pm Operator: B.ALLGEIER  
 Sample : r1709205-008 Inst : MS#6  
 Misc : environneering 17933 t4 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Oct 3 9:26 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	262448	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	352114	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	173442	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	186235	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	127734	50.58	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	101.16%
43) surr1,1,2-dichloroethane-d	4.47	65	128347	46.92	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	93.84%
65) SURR3,Toluene-d8	7.89	98	397204	55.71	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	111.42%
86) SURR2,BFB	10.25	95	162297	49.96	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	99.92%

Target Compounds

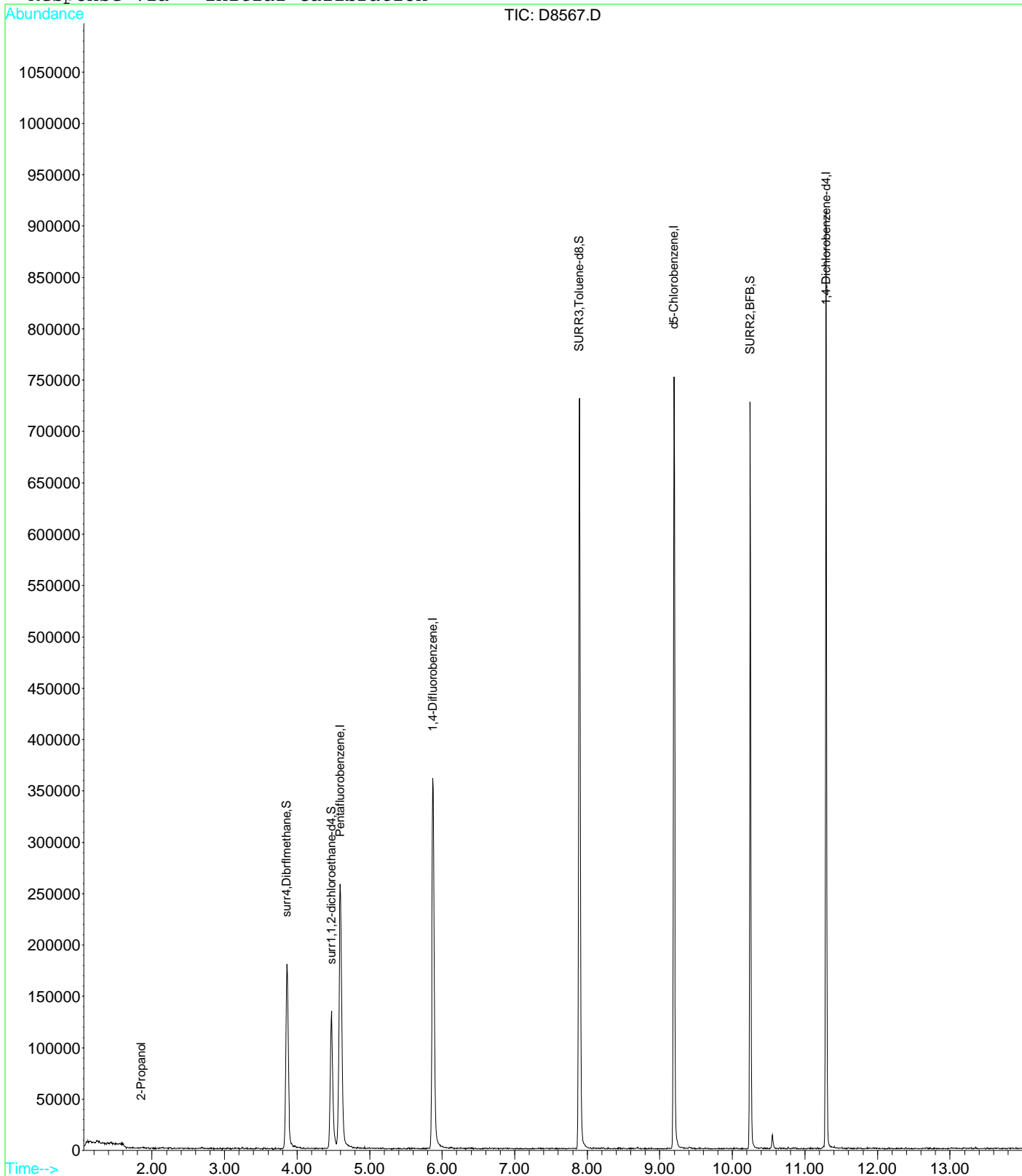
13) 2-Propanol	1.84	45	697	7.10	ug/L	Qvalue 73
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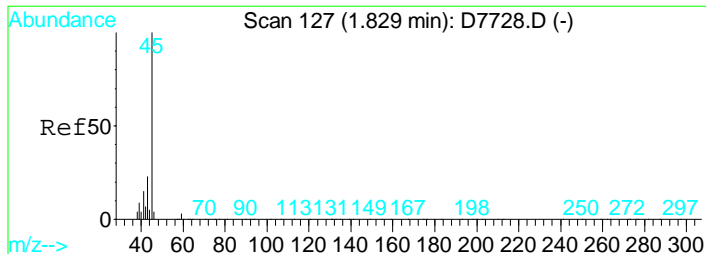
Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8567.D  
Acq On : 2 Oct 2017 7:49 pm  
Sample : r1709205-008  
Misc : environengineering 17933 t4  
MS Integration Params: CPD4.P  
Quant Time: Oct 3 9:26 2017

Vial: 21  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

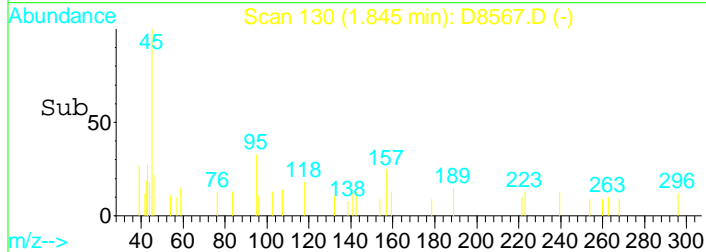
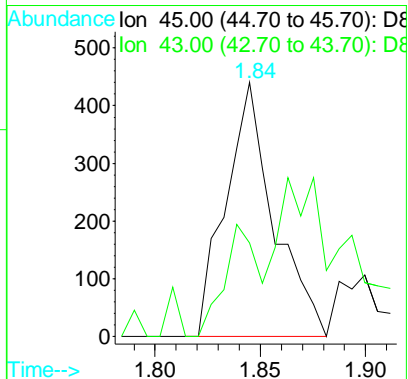
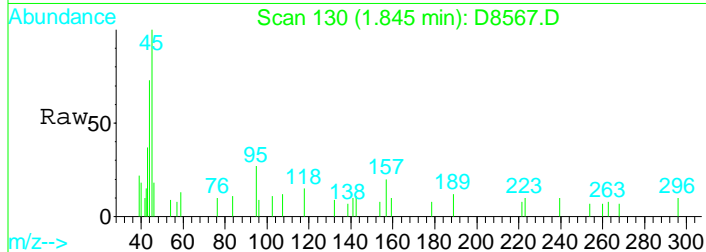
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration





#13  
2-Propanol  
Concen: 7.10 ug/L  
RT: 1.84 min Scan# 130  
Delta R.T. 0.02 min  
Lab File: D8567.D  
Acq: 2 Oct 2017 7:49 pm

Tgt Ion	Ratio	Lower	Upper
45	100		
43	36.8	3.5	43.5



Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8553.D Vial: 7  
 Acq On : 2 Oct 2017 12:27 pm Operator: B.ALLGEIER  
 Sample : met blk Inst : MS#6  
 Misc : Multiplr: 1.00

MS Integration Params: CPD4.P  
 Quant Time: Oct 3 10:24 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	250925	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	348426	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	171981	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	190908	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	123774	49.53	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	99.06%
43) surr1,1,2-dichloroethane-d	4.47	65	126417	46.70	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	93.40%
65) SURR3,Toluene-d8	7.89	98	379031	53.72	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	107.44%
86) SURR2,BFB	10.25	95	164521	51.08	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	102.16%

Target Compounds

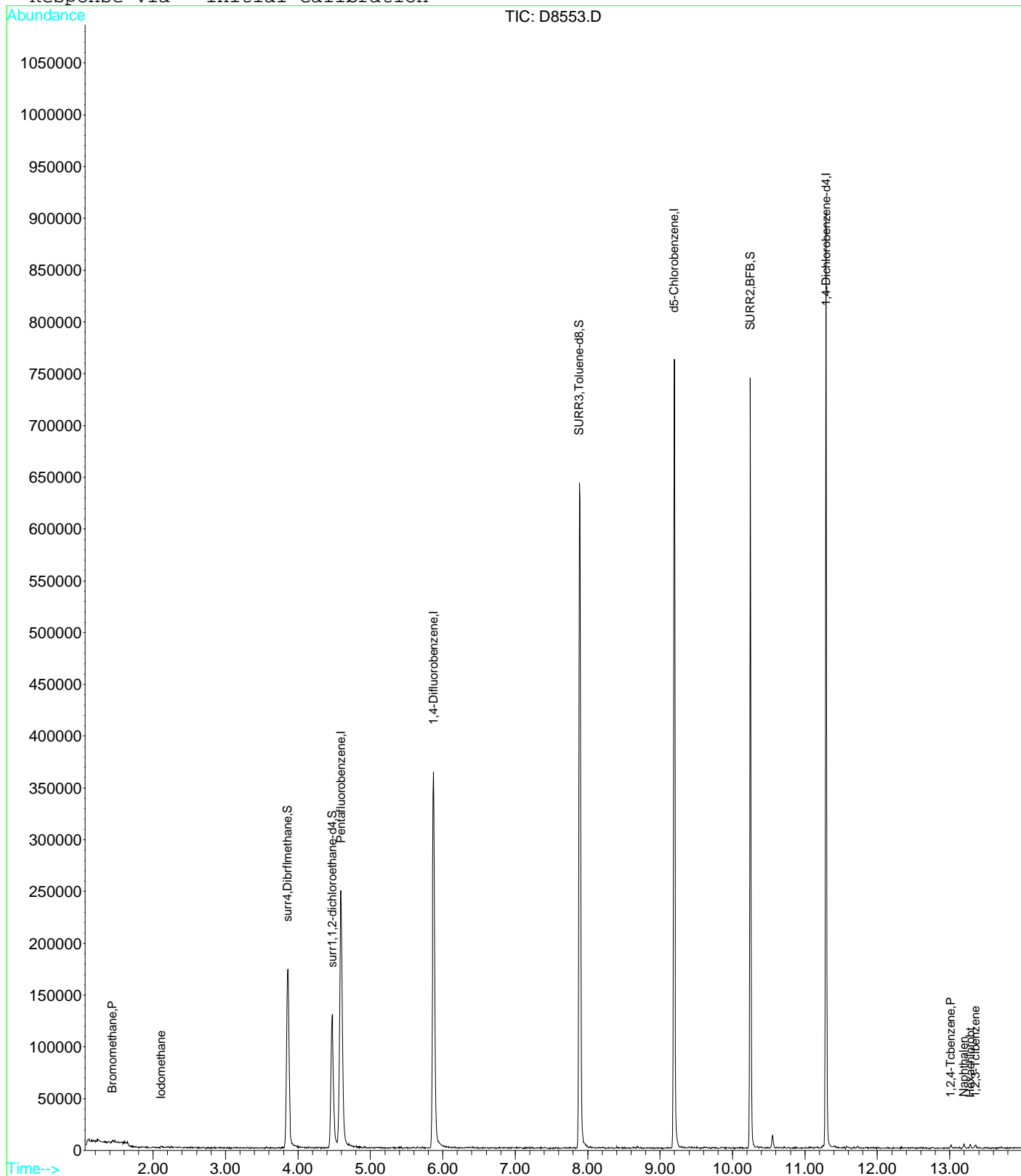
	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.44	94	1890	1.02	ug/L #	74
17) Iodomethane	2.11	142	1252	0.45	ug/L	88
105) 1,2,4-Tcbenzene	13.02	180	759	0.23	ug/L #	82
106) Naphthalen	13.20	128	2311	0.37	ug/L	97
107) Hexachlorobt	13.28	225	501	0.31	ug/L #	83
108) 1,2,3-Tclbenzene	13.35	180	824	0.29	ug/L	95

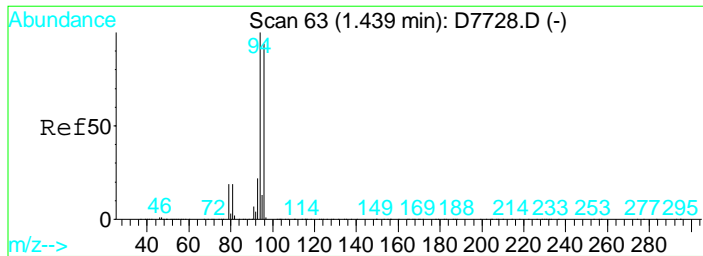
Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8553.D  
Acq On : 2 Oct 2017 12:27 pm  
Sample : met blk  
Misc :  
MS Integration Params: CPD4.P  
Quant Time: Oct 3 10:24 2017

Vial: 7  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

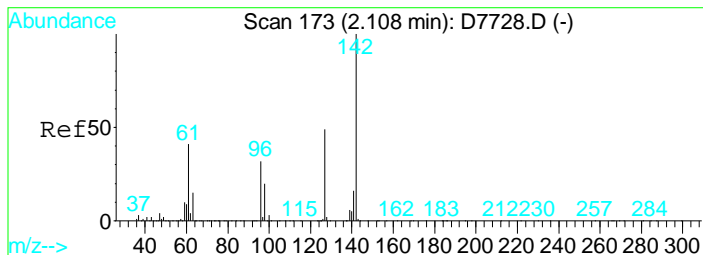
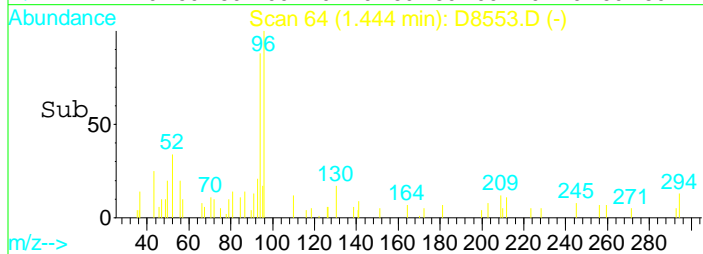
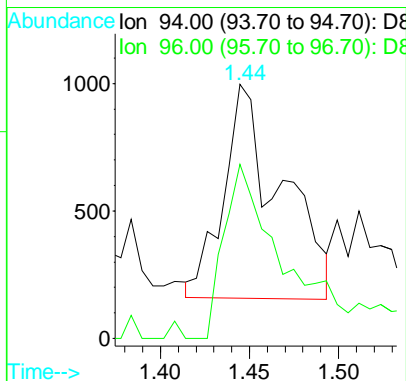
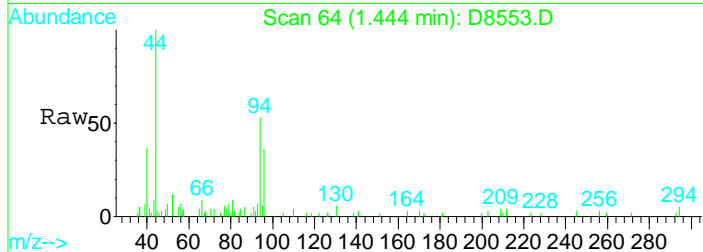
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration





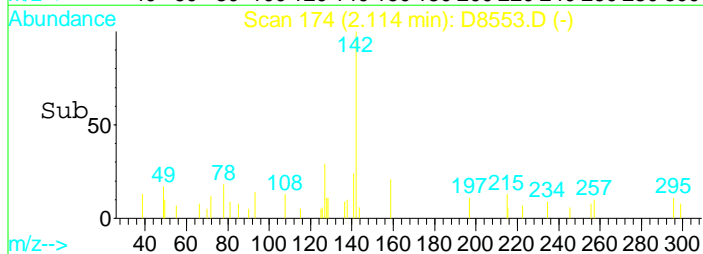
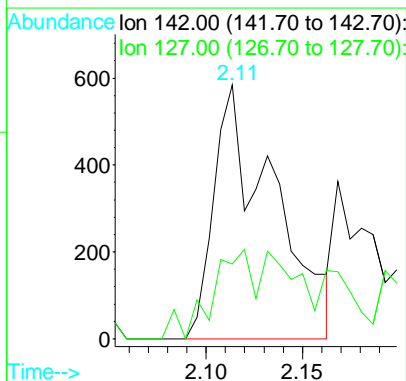
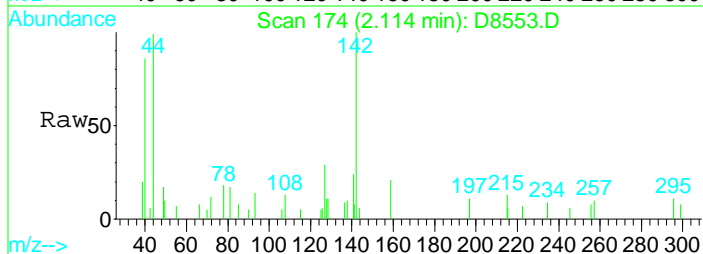
#5  
 Bromomethane  
 Concen: 1.02 ug/L  
 RT: 1.44 min Scan# 64  
 Delta R.T. 0.01 min  
 Lab File: D8553.D  
 Acq: 2 Oct 2017 12:27 pm

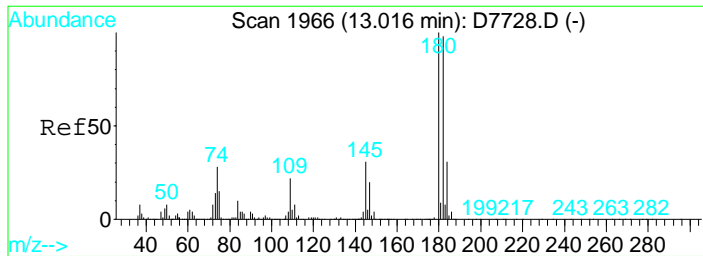
Tgt Ion: 94 Resp: 1890  
 Ion Ratio Lower Upper  
 94 100  
 96 68.7 73.7 113.7#



#17  
 Iodomethane  
 Concen: 0.45 ug/L  
 RT: 2.11 min Scan# 174  
 Delta R.T. 0.01 min  
 Lab File: D8553.D  
 Acq: 2 Oct 2017 12:27 pm

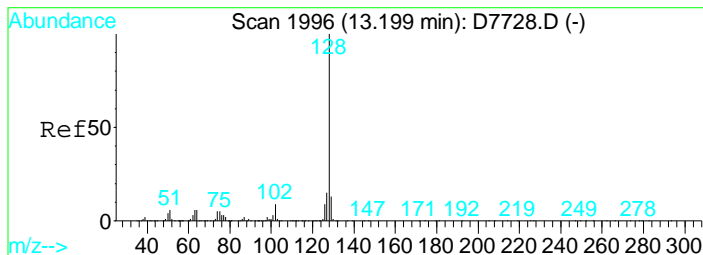
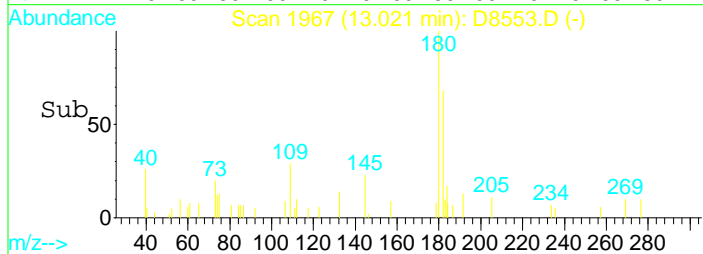
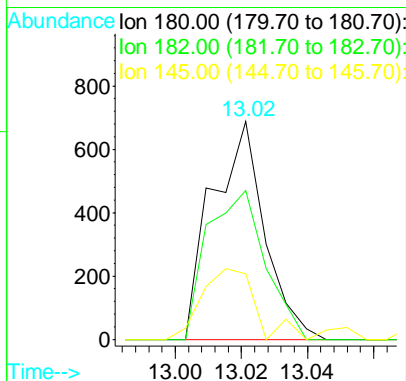
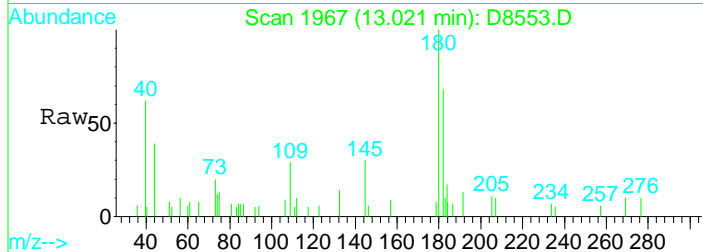
Tgt Ion: 142 Resp: 1252  
 Ion Ratio Lower Upper  
 142 100  
 127 40.8 28.6 68.6





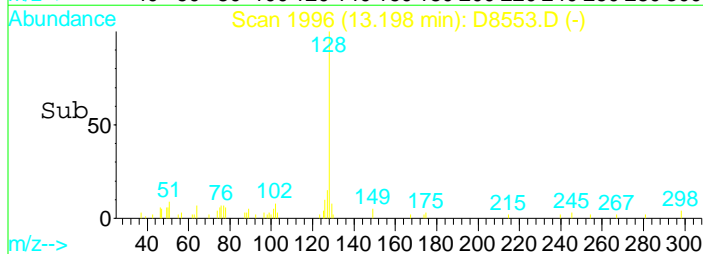
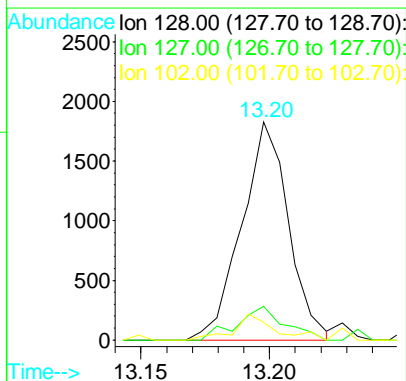
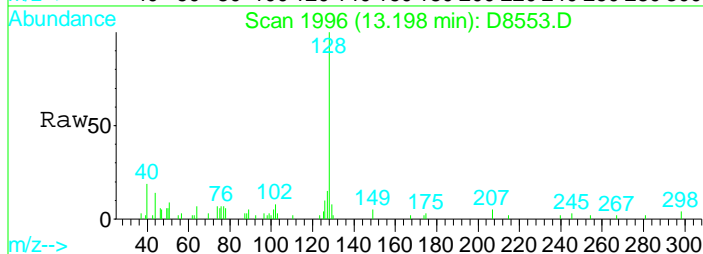
#105  
 1,2,4-Tcbenzene  
 Concen: 0.23 ug/L  
 RT: 13.02 min Scan# 1967  
 Delta R.T. 0.01 min  
 Lab File: D8553.D  
 Acq: 2 Oct 2017 12:27 pm

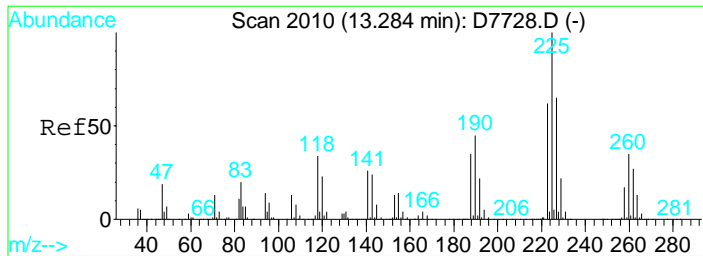
Tgt Ion	Resp	Lower	Upper
180	759		
182	75.4	77.3	117.3#
145	30.4	9.5	49.5



#106  
 Naphthalen  
 Concen: 0.37 ug/L  
 RT: 13.20 min Scan# 1996  
 Delta R.T. -0.00 min  
 Lab File: D8553.D  
 Acq: 2 Oct 2017 12:27 pm

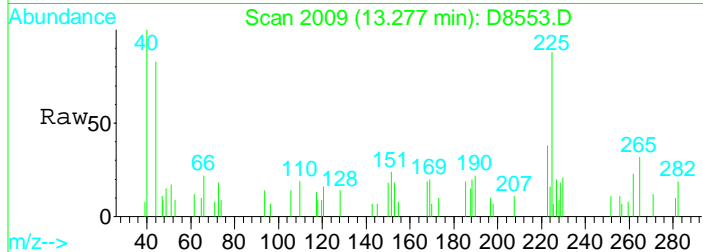
Tgt Ion	Resp	Lower	Upper
128	2311		
127	15.7	0.0	35.0
102	7.3	0.0	29.4



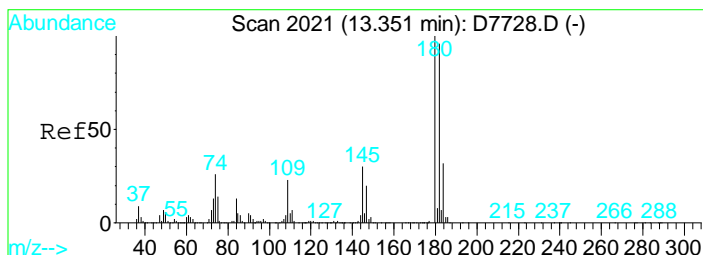
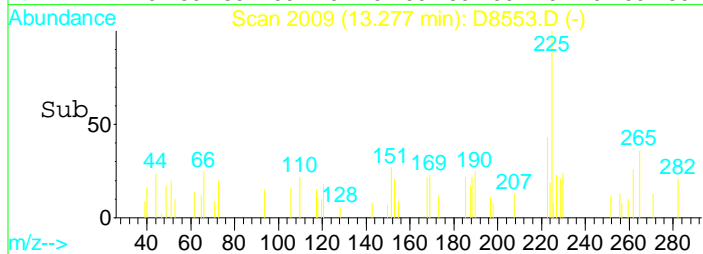
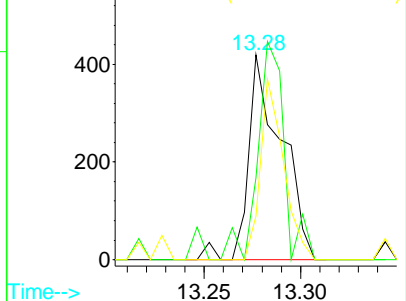


#107  
Hexachlorobt  
Concen: 0.31 ug/L  
RT: 13.28 min Scan# 2009  
Delta R.T. -0.01 min  
Lab File: D8553.D  
Acq: 2 Oct 2017 12:27 pm

Tgt Ion	Resp	Lower	Upper
225	501		
223	84.4	42.5	82.5#
227	61.5	45.8	85.8

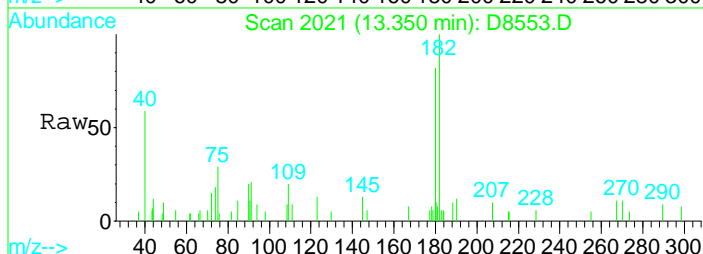


Abundance Ion 225.00 (224.70 to 225.70);  
Ion 223.00 (222.70 to 223.70);  
Ion 227.00 (226.70 to 227.70);

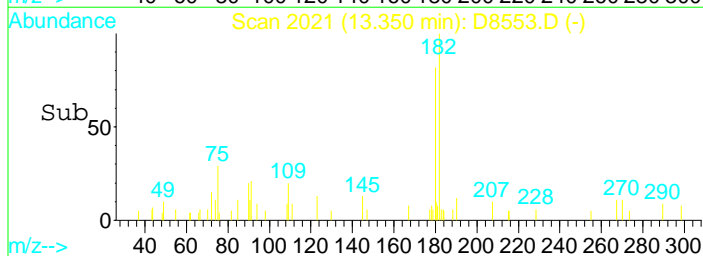
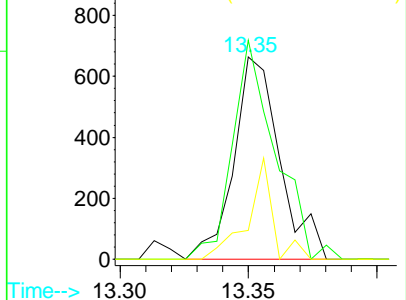


#108  
1,2,3-Tclbenzene  
Concen: 0.29 ug/L  
RT: 13.35 min Scan# 2021  
Delta R.T. -0.00 min  
Lab File: D8553.D  
Acq: 2 Oct 2017 12:27 pm

Tgt Ion	Resp	Lower	Upper
180	824		
182	99.2	76.4	116.4
145	24.3	9.7	49.7



Abundance Ion 180.00 (179.70 to 180.70);  
Ion 182.00 (181.70 to 182.70);  
Ion 145.00 (144.70 to 145.70);





Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8579.D Vial: 7  
 Acq On : 3 Oct 2017 1:00 pm Operator: B.ALLGEIER  
 Sample : met blk Inst : MS#6  
 Misc : Multiplr: 1.00

MS Integration Params: CPD4.P  
 Quant Time: Oct 3 15:07 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	248738	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	335200	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	175916	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	193363	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	117847	49.02	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	98.04%
43) surr1,1,2-dichloroethane-d	4.47	65	119825	46.02	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	92.04%
65) SURR3,Toluene-d8	7.89	98	382659	56.38	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	112.76%
86) SURR2,BFB	10.25	95	168608	51.17	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	102.34%

Target Compounds

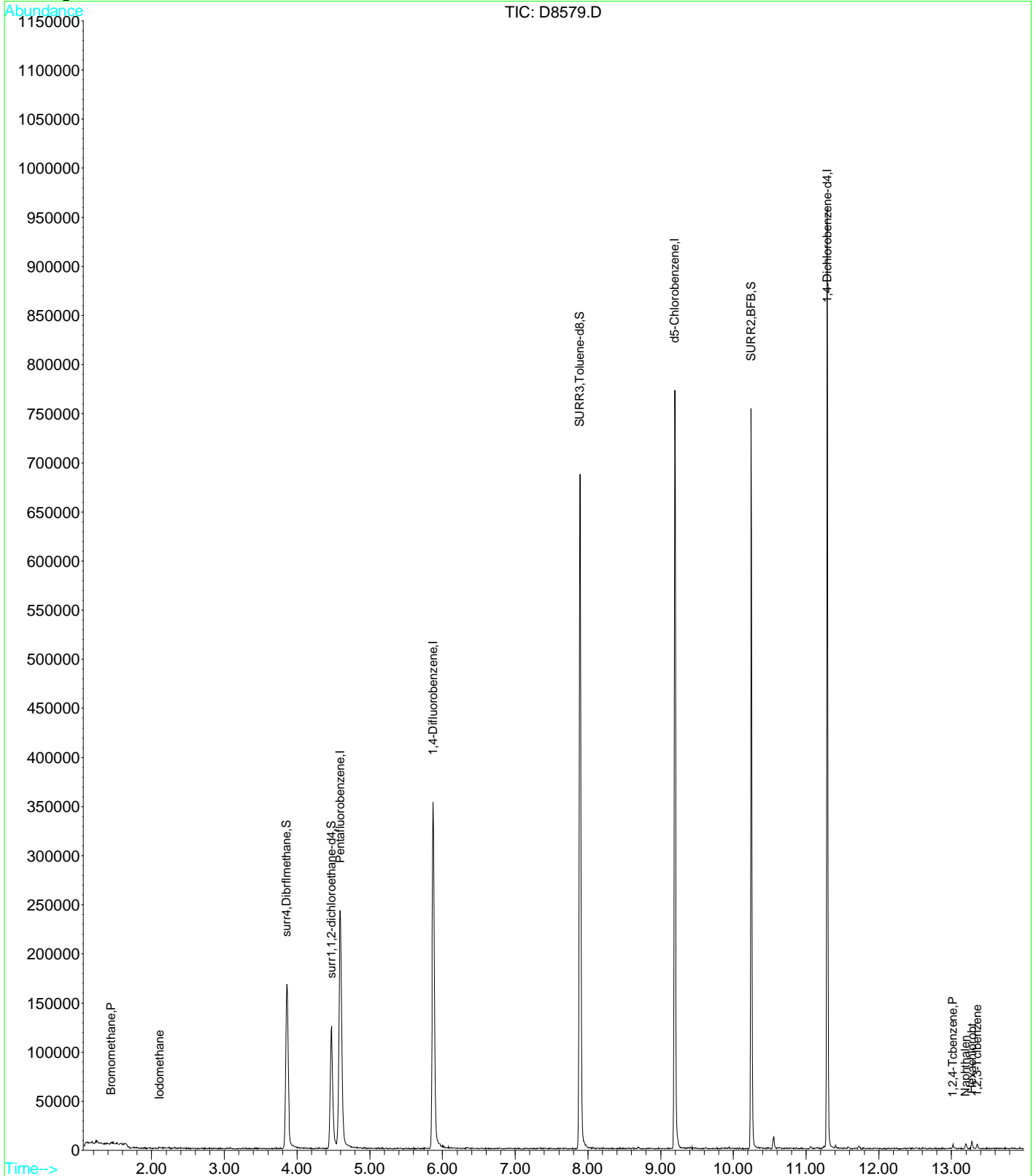
					Qvalue	
5) Bromomethane	1.45	94	1733	0.95	ug/L	# 58
17) Iodomethane	2.11	142	1321	0.47	ug/L	99
105) 1,2,4-Tcbenzene	13.02	180	1121	0.33	ug/L	# 77
106) Naphthalen	13.20	128	2476	0.39	ug/L	89
107) Hexachlorobt	13.29	225	846	0.51	ug/L	# 73
108) 1,2,3-Tclbenzene	13.35	180	896	0.31	ug/L	# 71

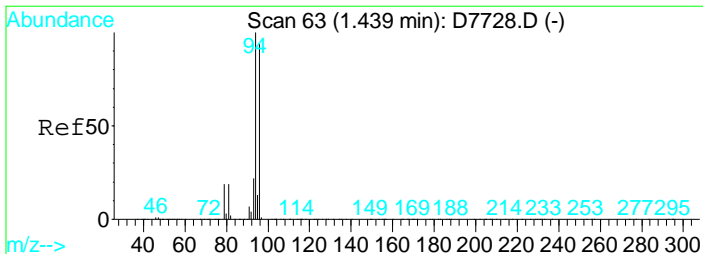
Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8579.D  
Acq On : 3 Oct 2017 1:00 pm  
Sample : met blk  
Misc :  
MS Integration Params: CPD4.P  
Quant Time: Oct 3 15:07 2017

Vial: 7  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

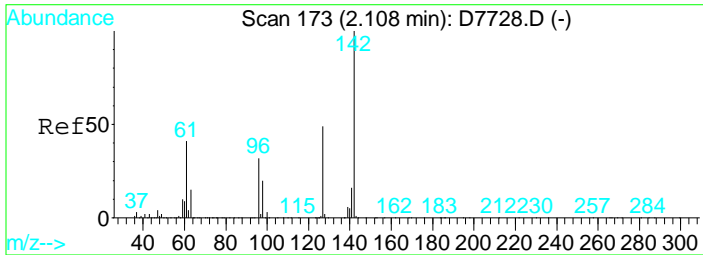
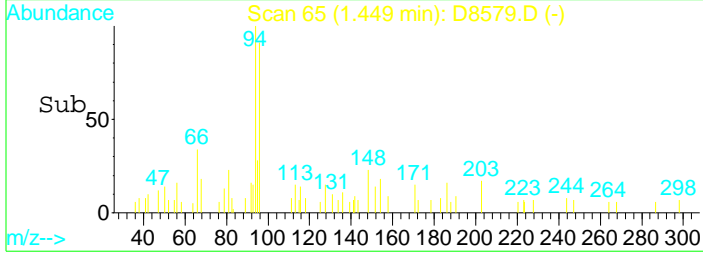
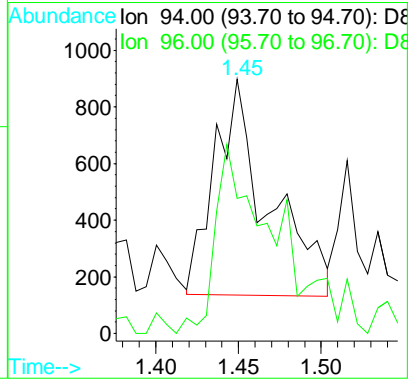
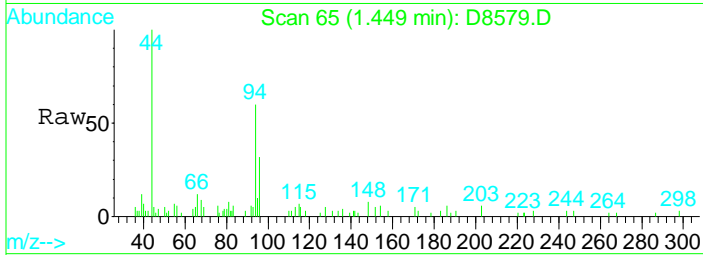
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration





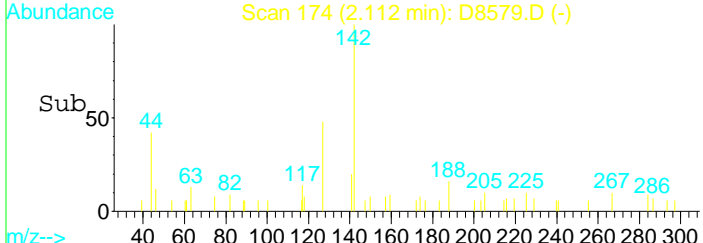
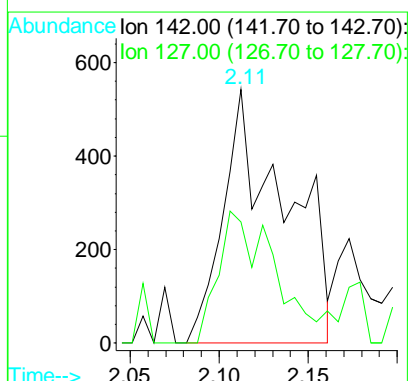
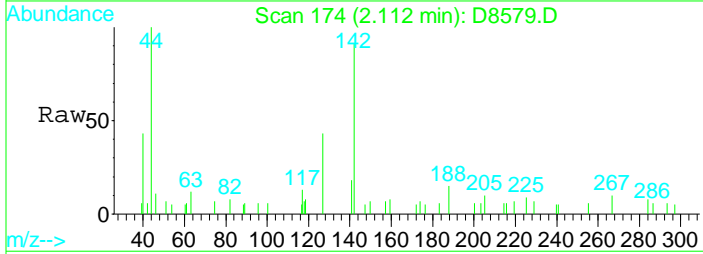
#5  
 Bromomethane  
 Concen: 0.95 ug/L  
 RT: 1.45 min Scan# 65  
 Delta R.T. 0.01 min  
 Lab File: D8579.D  
 Acq: 3 Oct 2017 1:00 pm

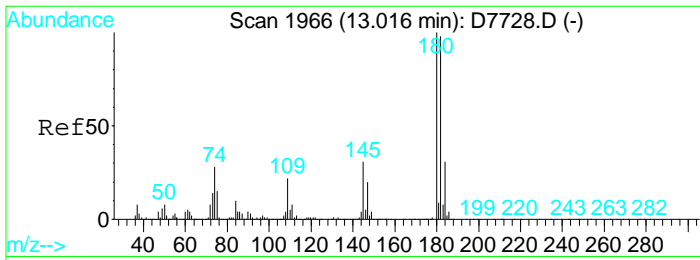
Tgt Ion: 94 Resp: 1733  
 Ion Ratio Lower Upper  
 94 100  
 96 53.3 73.7 113.7#



#17  
 Iodomethane  
 Concen: 0.47 ug/L  
 RT: 2.11 min Scan# 174  
 Delta R.T. 0.00 min  
 Lab File: D8579.D  
 Acq: 3 Oct 2017 1:00 pm

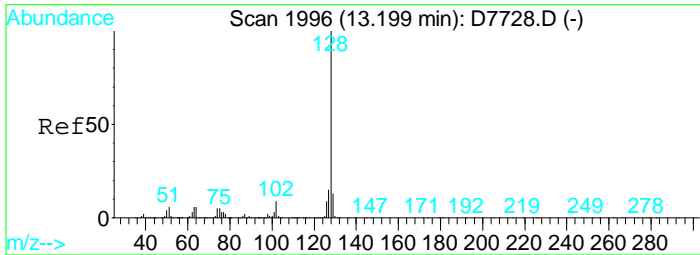
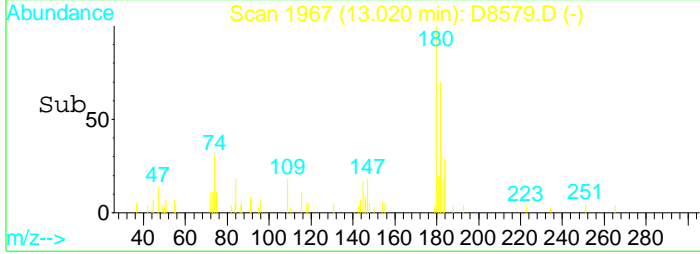
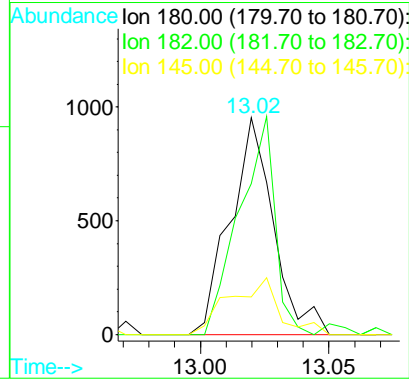
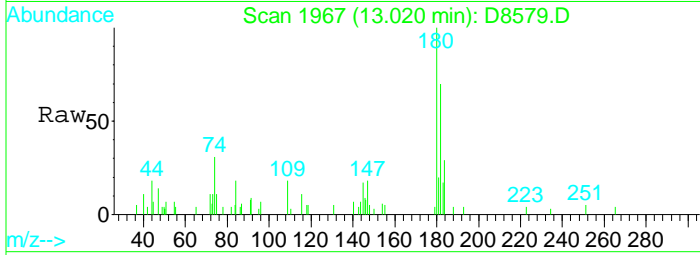
Tgt Ion: 142 Resp: 1321  
 Ion Ratio Lower Upper  
 142 100  
 127 47.7 28.6 68.6





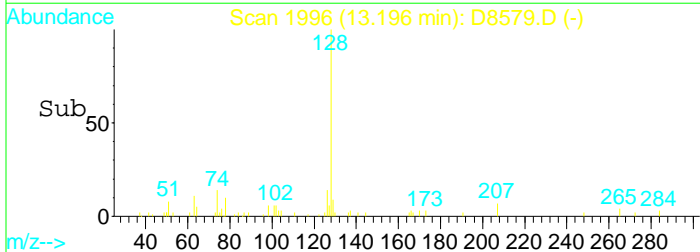
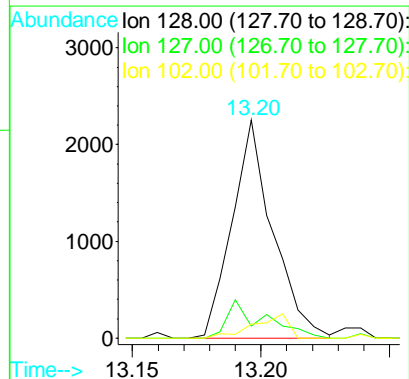
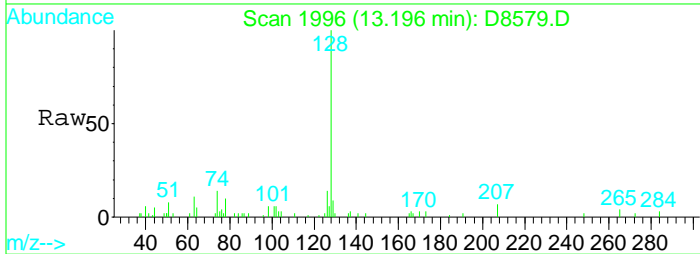
#105  
 1,2,4-Tcbenzene  
 Concen: 0.33 ug/L  
 RT: 13.02 min Scan# 1967  
 Delta R.T. 0.00 min  
 Lab File: D8579.D  
 Acq: 3 Oct 2017 1:00 pm

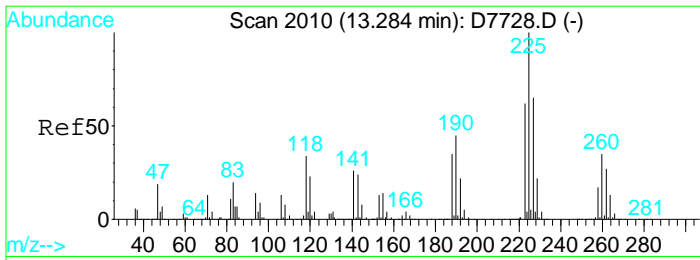
Tgt Ion	Ratio	Lower	Upper
180	100		
182	82.3	77.3	117.3
145	2.8	9.5	49.5#



#106  
 Naphthalen  
 Concen: 0.39 ug/L  
 RT: 13.20 min Scan# 1996  
 Delta R.T. -0.00 min  
 Lab File: D8579.D  
 Acq: 3 Oct 2017 1:00 pm

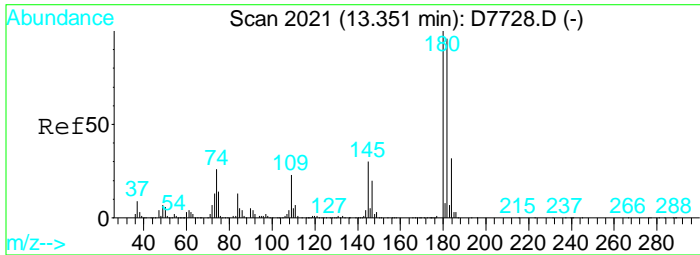
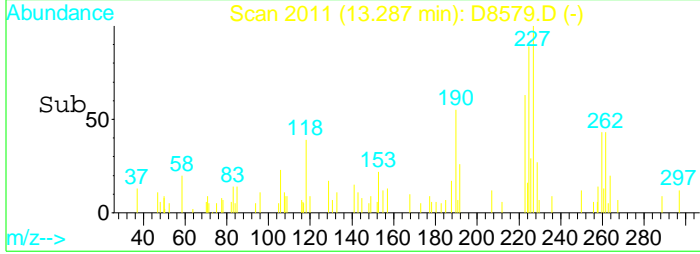
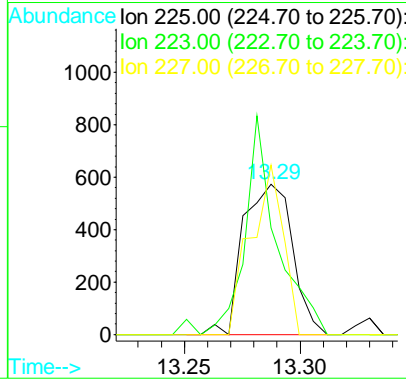
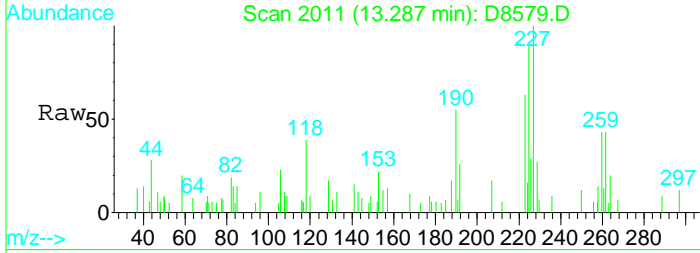
Tgt Ion	Ratio	Lower	Upper
128	100		
127	7.3	0.0	35.0
102	9.4	0.0	29.4





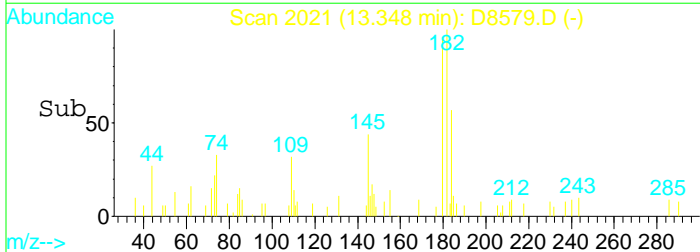
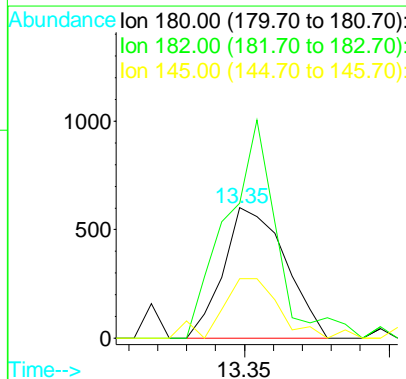
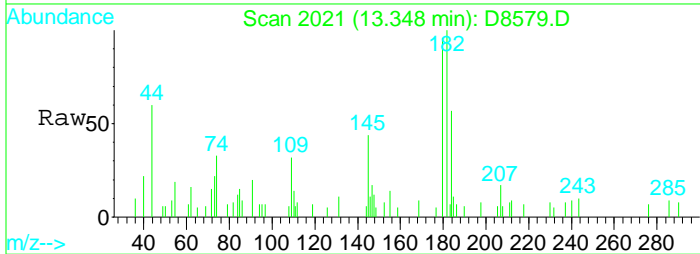
#107  
 Hexachlorobt  
 Concen: 0.51 ug/L  
 RT: 13.29 min Scan# 2011  
 Delta R.T. 0.00 min  
 Lab File: D8579.D  
 Acq: 3 Oct 2017 1:00 pm

Tgt Ion	Resp	Lower	Upper
225	100		
223	96.2	42.5	82.5#
227	74.8	45.8	85.8



#108  
 1,2,3-Tclbenzene  
 Concen: 0.31 ug/L  
 RT: 13.35 min Scan# 2021  
 Delta R.T. -0.00 min  
 Lab File: D8579.D  
 Acq: 3 Oct 2017 1:00 pm

Tgt Ion	Resp	Lower	Upper
180	100		
182	128.1	76.4	116.4#
145	38.5	9.7	49.7



Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8500.D  
 Acq On : 5 Oct 2017 1:15 pm  
 Operator : F. NAEGLER  
 Sample : MBLK Inst : MSVOA10  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 12 17:14:19 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.403	168	286068	50.00	ug/L	0.01
41) 1,4-Difluorobenzene	6.494	114	416814	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	373346	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	182412	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.251	113	131060	50.06	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.12%	
46) surr1,1,2-dichloroetha...	5.793	65	165946	52.59	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	105.18%	
64) SURR3,Toluene-d8	8.311	98	479522	48.49	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	96.98%	
69) SURR2,BFB	10.878	95	183088	45.65	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	91.30%	

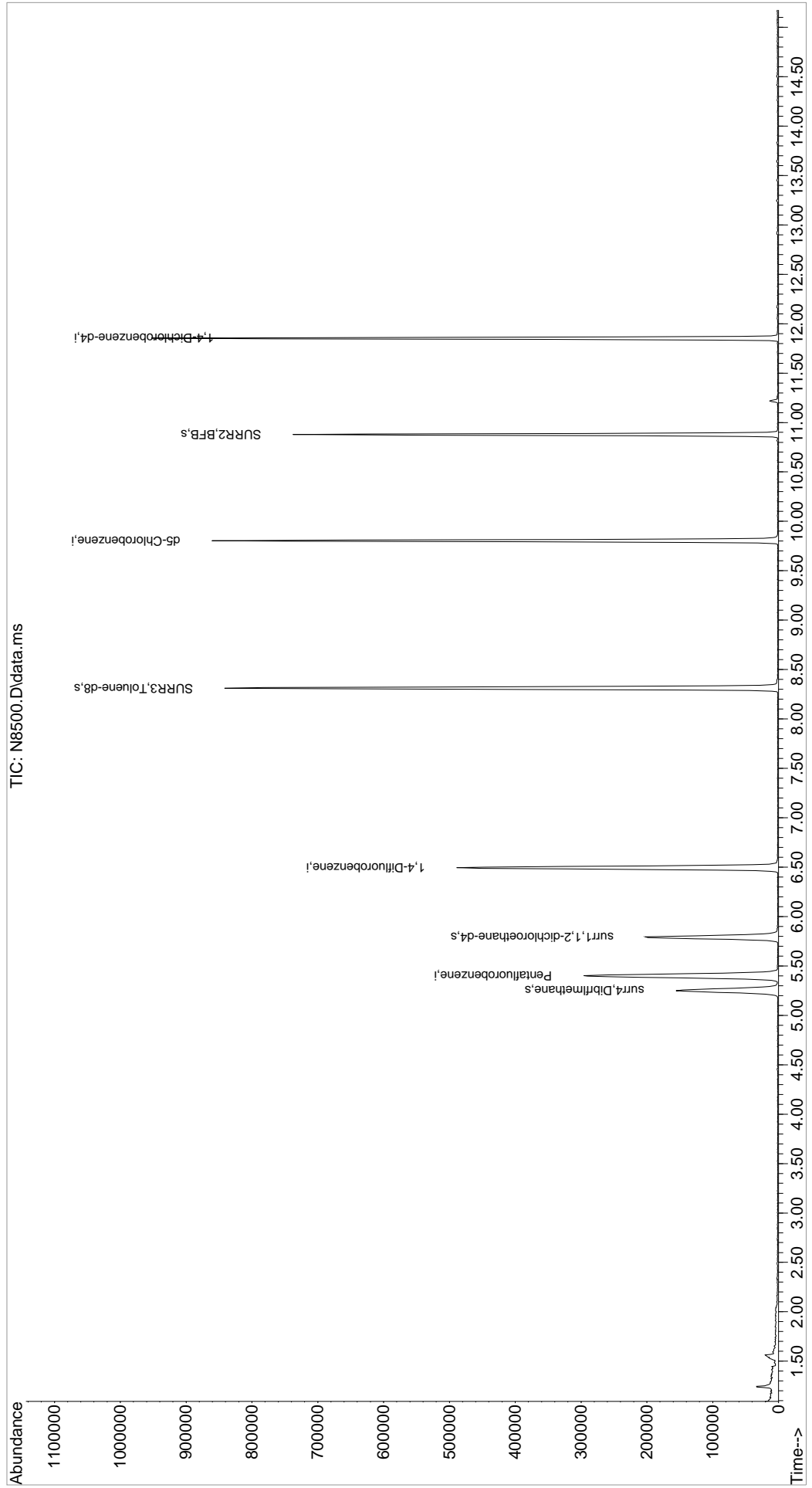
Target Compounds Qvalue

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

Data Path : I:\ACQUDATA\msvoa10\data\100517\  
Data File : N8500.D  
Acq On : 5 Oct 2017 1:15 pm  
Operator : F. NAEGLER  
Sample : MBLK  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Oct 12 17:14:19 2017  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 16:00:37 2017  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8500.D  
 Acq On : 5 Oct 2017 1:15 pm  
 Operator : F. NAEGLER  
 Sample : MBLK Inst : MSVOA10  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.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\MSVOA10\METHODS\W082317.M  
 Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: N8500.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.245	22	26	33	rBV	21648	28203	2.05%	0.381%
2	1.562	69	78	81	rBV8	14841	35040	2.55%	0.474%
3	5.251	670	683	697	rBV2	154825	421906	30.69%	5.704%
4	5.403	697	708	720	rVB	294608	785376	57.14%	10.618%
5	5.793	761	772	784	rBV	201203	478934	34.84%	6.475%
6	6.494	876	887	903	rBV	487885	992467	72.20%	13.417%
7	8.311	1177	1185	1193	rBV	840408	1374578	100.00%	18.583%
8	9.805	1424	1430	1444	rVB	859688	1171876	85.25%	15.843%
9	10.878	1600	1606	1617	rVB	736563	936728	68.15%	12.664%
10	11.219	1657	1662	1666	rBV2	12112	15221	1.11%	0.206%
11	11.853	1760	1766	1773	rBV	951530	1156557	84.14%	15.636%

Sum of corrected areas: 7396886

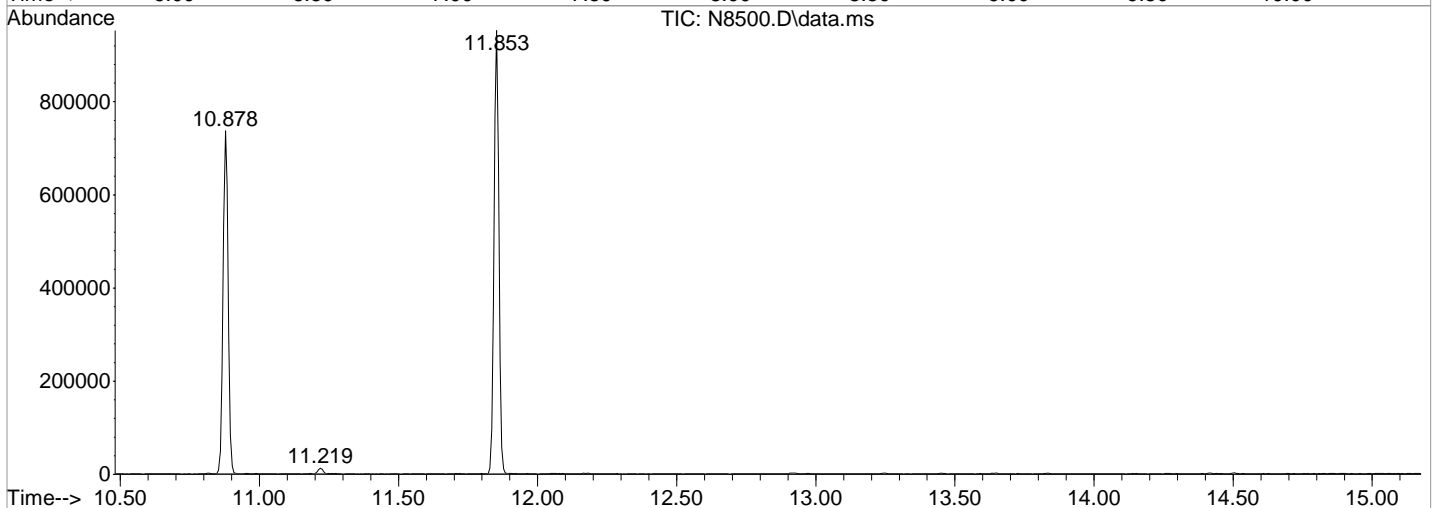
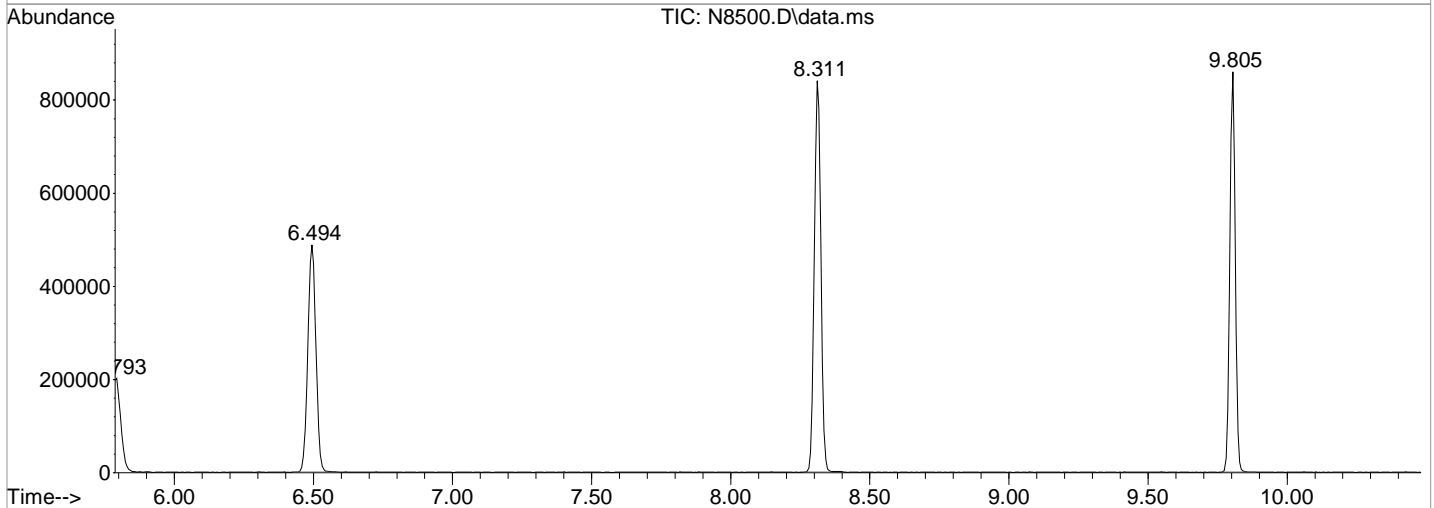
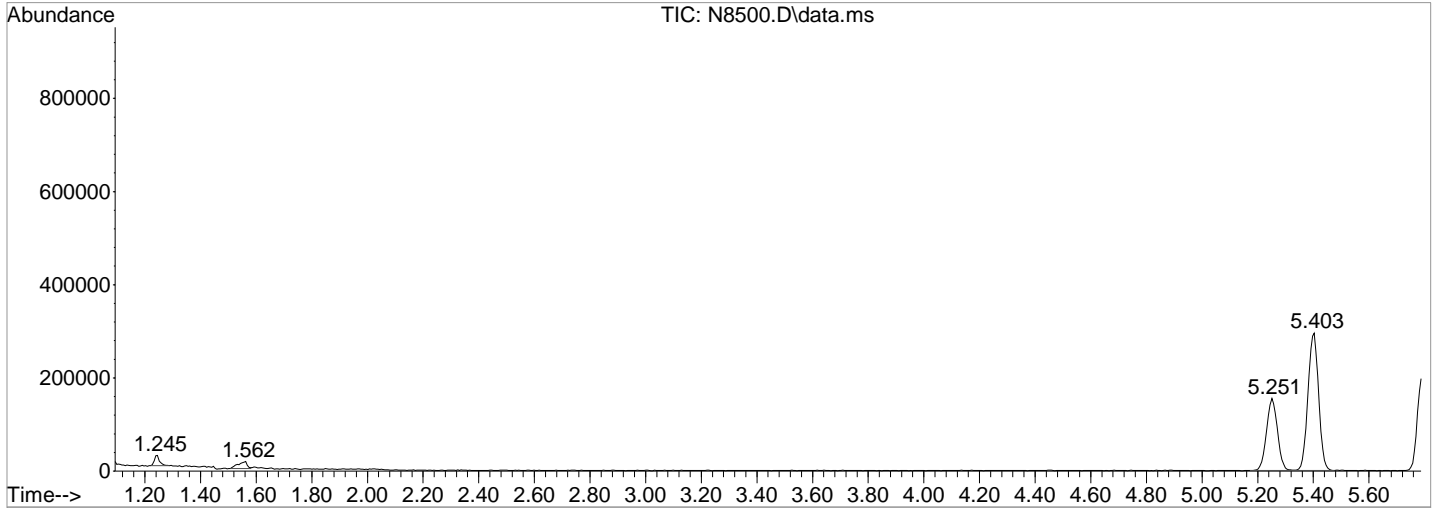


Data Path : I:\ACQUDATA\msvoa10\data\100517\  
Data File : N8500.D  
Acq On : 5 Oct 2017 1:15 pm  
Operator : F. NAEGLER  
Sample : MBLK  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\100517\  
Data File : N8500.D  
Acq On : 5 Oct 2017 1:15 pm  
Operator : F. NAEGLER  
Sample : MBLK Inst : MSVOA10  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL 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* 10/13/17  
2nd *RL* 10/13/17

Data Path : I:\ACQUDATA\msvoa10\data\100517\  
Data File : N8500.D  
Acq On : 5 Oct 2017 1:15 pm  
Operator : F. NAEGLER  
Sample : MBLK Inst : MSVOA10  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge

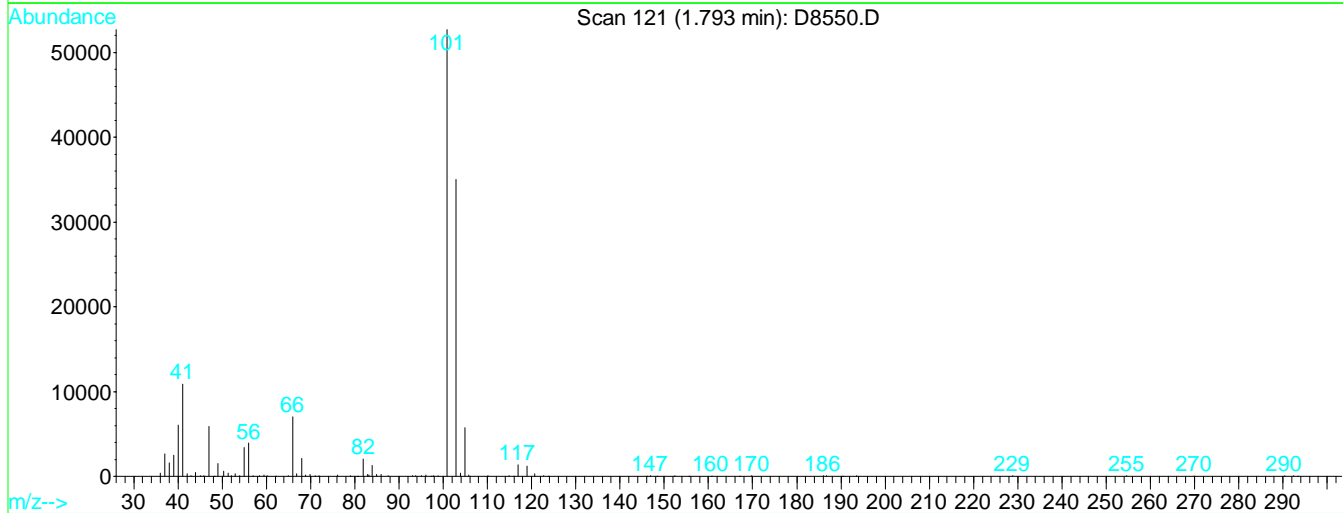
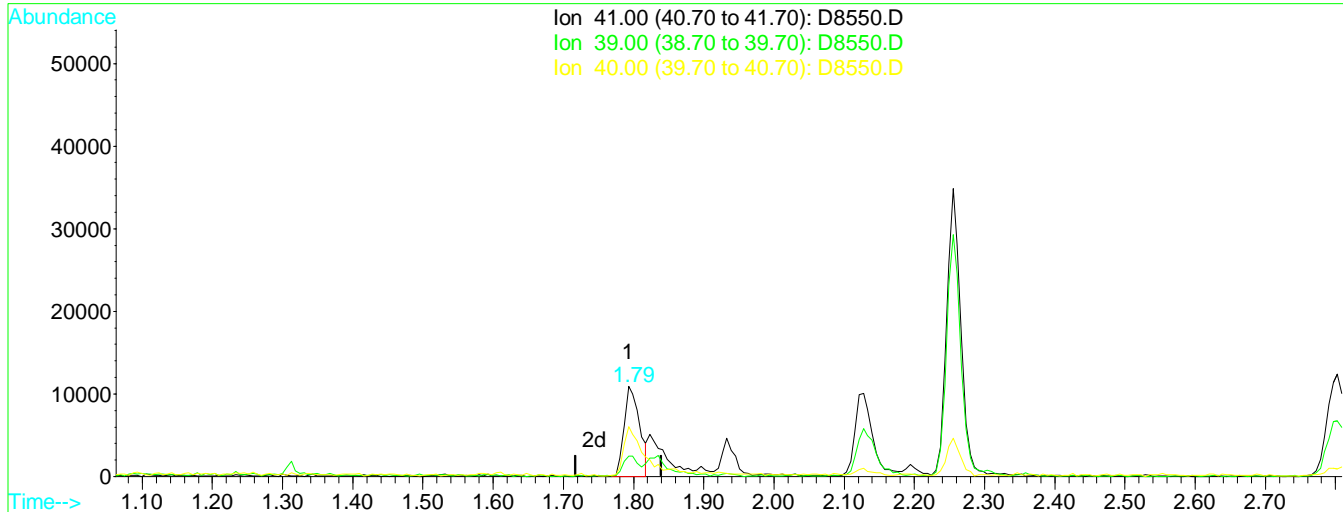
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

---

Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8550.D Vial: 4  
Acq On : 2 Oct 2017 10:39 am Operator: B.ALLGEIER  
Sample : LCS Inst : MS#6  
Misc : Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Oct 2 10:58 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Multiple Level Calibration



TIC: D8550.D

(12) Acetonitrile

1.79min 108.18ug/L m

response 16935

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	22.72
40.00	57.00	55.60
0.00	0.00	0.00

Manual Integration:

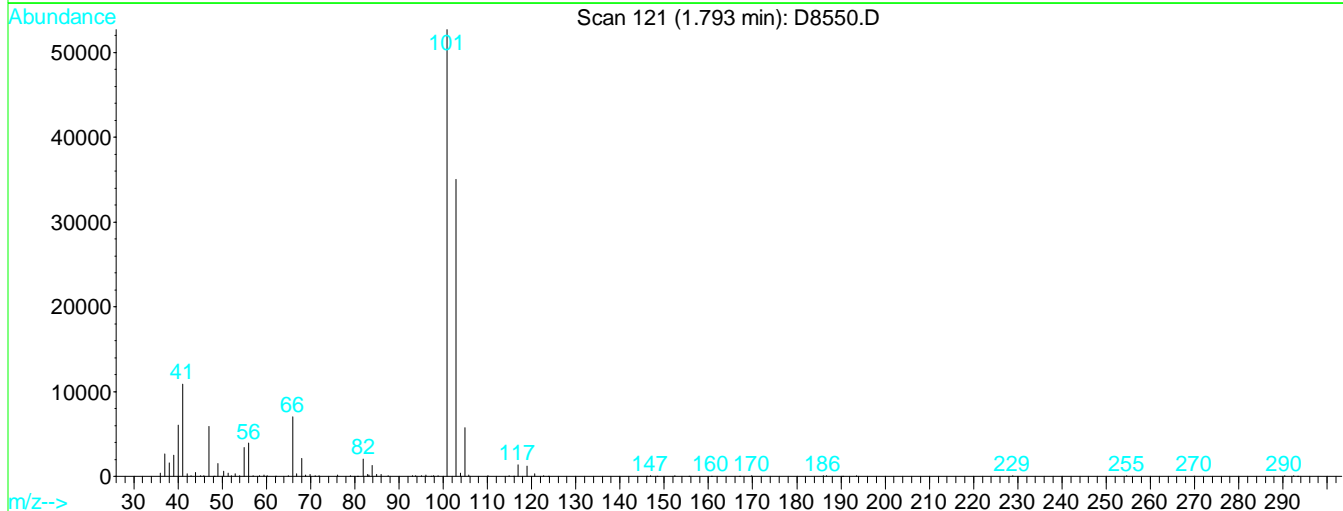
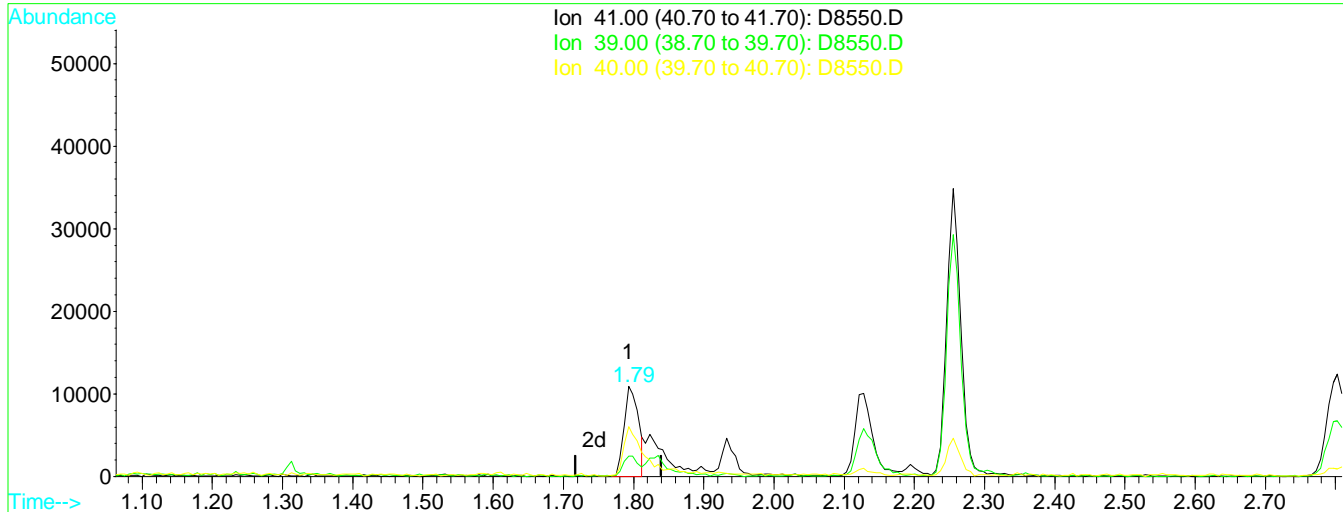
After

Poor integration.

10/02/17

Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8550.D Vial: 4  
Acq On : 2 Oct 2017 10:39 am Operator: B.ALLGEIER  
Sample : LCS Inst : MS#6  
Misc : Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Oct 2 10:58 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Multiple Level Calibration



TIC: D8550.D

(12) Acetonitrile  
1.79min 98.75ug/L  
response 15459

Manual Integration:  
Before

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	22.72
40.00	57.00	55.60
0.00	0.00	0.00

10/02/17

Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8550.D Vial: 4  
 Acq On : 2 Oct 2017 10:39 am Operator: B.ALLGEIER  
 Sample : LCS Inst : MS#6  
 Misc : Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Oct 2 10:58 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	287638	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	393650	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	198504	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	228580	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	138352	49.00	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	98.00%
43) surr1,1,2-dichloroethane-d	4.47	65	140065	45.80	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	91.60%
65) SURRE3,Toluene-d8	7.89	98	429621	53.90	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	107.80%
86) SURRE2,BFB	10.24	95	196247	52.78	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	105.56%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.11	85	63708	14.85	ug/L	93
3) Chloromethane	1.18	50	53331	18.72	ug/L	94
4) Vinyl Chloride	1.26	62	80635	22.96	ug/L	98
5) Bromomethane	1.44	94	41244	19.48	ug/L	98
6) Chloroethane	1.51	64	37604	21.86	ug/L	96
7) Freon 21	1.53	67	107694	20.62	ug/L	98
8) Freon 123	1.71	83	73542	22.68	ug/L	96
9) Freon 123a	1.73	67	55287	21.45	ug/L	93
10) Acrolein	1.79	56	7701	33.83	ug/L	82
11) Trichlorofluoromethane	1.79	101	76082	19.39	ug/L	99
12) Acetonitrile	1.79	41	16935m	108.18	ug/L	
13) 2-Propanol	1.83	45	44352	411.98	ug/L	97
14) Acetone	1.86	43	13434	24.95	ug/L	92
15) Diethyl Ether	1.93	59	32082	23.15	ug/L	98
16) 1,1-Dicethene	2.10	96	41661	21.02	ug/L	92
17) Iodomethane	2.10	142	53607	16.65	ug/L	84
18) TBA	2.13	59	83438	452.34	ug/L	100
19) Acrylonitrile	2.14	53	73001	122.38	ug/L	98
20) Methylene Chloride	2.19	84	48392	22.98	ug/L	94
21) Freon 113	2.24	101	47179	20.84	ug/L	98
22) Methyl Acetate	2.25	43	27185	15.31	ug/L	97
23) Allyl Chloride	2.26	76	20531	25.16	ug/L	97
24) Carbon Disulfide	2.31	76	122197	20.16	ug/L	97
25) trans-1,2-Dichloroethene	2.69	96	44580	21.11	ug/L	97
26) Methyl-t-Butyl Ether	2.80	73	122594	22.59	ug/L	97
27) 1,1-Dicethane	2.89	63	75161	23.46	ug/L	98
28) Propionitrile	2.92	54	25472	118.50	ug/L	98
29) Vinyl Acetate	3.08	43	84117	22.10	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.25	53	60159	21.24	ug/L	92
31) 2-Butanone	3.36	43	15719	21.76	ug/L	89
32) Methacrylonitrile	3.45	67	16665	23.79	ug/L #	82
33) cis-1,2-Dichloroethene	3.46	96	50951	22.60	ug/L	95
34) Bromochloromethane	3.63	128	29357	22.95	ug/L	95
35) Chloroform	3.72	83	88903	23.15	ug/L	96
36) 2,2-Dichloropropane	3.78	77	73343	20.94	ug/L	98
37) Ethyl Acetate	3.79	43	394	0.26	ug/L #	1
38) Tetrahydrofuran	4.13	42	10874	25.08	ug/L	98
39) 1,1,1-Trichloroethane	4.73	97	75410	20.22	ug/L	97
42) Iso-Butyl Alcohol	3.95	42	20016	454.66	ug/L #	81

(#) = qualifier out of range (m) = manual integration  
 D8550.D W082417.M Tue Oct 03 11:23:01 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8550.D

Vial: 4

Acq On : 2 Oct 2017 10:39 am

Operator: B.ALLGEIER

Sample : LCS

Inst : MS#6

Misc :

Multiplr: 1.00

MS Integration Params: CPD4.P

Quant Time: Oct 2 10:58 2017

Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)

Title : 8260C / 624 WATERS

Last Update : Fri Aug 25 11:23:15 2017

Response via : Initial Calibration

DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-Dichloroethane	4.59	64	20286	18.81	ug/L	92
46) 1,1-Dichloropropene	5.07	75	59511	20.87	ug/L	93
47) Cyclohexane	5.16	56	59059	20.17	ug/L	94
48) Carbontetrachloride	5.30	119	63579	20.06	ug/L	97
49) Benzene	5.39	78	163946	21.25	ug/L	97
51) Dibromomethane	6.17	93	33380	20.46	ug/L	97
52) 1,2-Diclp propane	6.25	63	43735	22.19	ug/L	98
53) n-Heptane	6.34	43	45721	21.19	ug/L	93
54) Trichloroethene	6.31	130	53157	20.82	ug/L	98
55) Bromodichloromethane	6.36	83	67245	22.04	ug/L	100
56) 1,4-Dioxane	6.58	88	9344	472.86	ug/L	98
57) Epichlorohydrin	6.74	57	293	1.86	ug/L #	72
58) Methyl Methacrylate	6.74	69	28675	21.56	ug/L	93
59) Methylcyclohexane	6.90	55	49504	21.78	ug/L	99
60) 2-Chloroethylvinyl Ether	7.01	63	26783	21.68	ug/L	87
61) cis-1,3-Dichloropropene	7.18	75	74383	21.78	ug/L	96
62) 4-Methyl-2-pentanone	7.37	43	35212	19.93	ug/L	97
63) trans-1,3-Dichloropropene	7.66	75	69334	21.61	ug/L	99
64) 1,1,2-Trichloroethane	7.77	97	43235	22.27	ug/L	97
66) Toluene	7.96	91	186695	21.32	ug/L	97
68) 1,3-Dichloropropane	8.01	76	68456	20.60	ug/L	94
69) Ethyl Methacrylate	8.19	69	55807	20.80	ug/L	90
70) Dibromochloromethane	8.21	129	57788	21.17	ug/L	98
71) 2-Hexanone	8.26	43	26224	19.58	ug/L	96
72) 1,2-Dibromoethane	8.42	107	52283	21.81	ug/L	96
73) n-Butyl Acetate	8.63	43	60499	19.74	ug/L	98
74) Tetrachloroethene	8.62	164	47688	20.12	ug/L	96
75) 1,1,1,2-Tetrachloroethane	9.16	131	51361	20.74	ug/L	96
76) Chlorobenzene	9.22	112	124693	19.88	ug/L	98
77) Ethylbenzene	9.43	106	69032	20.87	ug/L	96
78) Bromoform	9.62	173	45009	24.49	ug/L	99
79) (m+p)Xylene	9.62	106	166364	40.18	ug/L	98
80) o-Xylene	9.93	106	84903	21.31	ug/L	99
81) Cyclohexanone	9.84	55	49069	643.31	ug/L	91
82) Styrene	9.88	104	133473	20.97	ug/L	99
83) Amyl Acetate	10.00	43	3714	0.89	ug/L #	50
84) trans-1,4-Dichloro-2-Buten	10.10	75	16967	18.32	ug/L	94
85) Isopropylbenzene	10.25	105	206688	20.34	ug/L	100
88) 1,1,2,2-Tetrachloroethane	9.92	83	59741	21.88	ug/L	96
89) 1,2,3-Trichloropropane	10.04	75	42290	20.52	ug/L	98
90) Bromobenzene	10.38	156	67195	19.83	ug/L	99
91) n-Propylbenzene	10.61	91	230704	19.04	ug/L	99
92) 2-Chlorotoluene	10.64	91	142239	20.18	ug/L	93
93) 4-Chlorotoluene	10.72	91	152737	20.15	ug/L	97
94) 1,3,5-Trimethylbenzene	10.87	105	169158	20.12	ug/L	97
95) tert-Butylbenzene	11.06	119	142235	19.45	ug/L	99
96) 1,2,4-Trimethylbenzene	11.17	105	175251	19.44	ug/L	99
97) sec-Butylbenzene	11.24	105	206075	19.77	ug/L	97
98) 1,3-Dclbenz	11.25	146	116716	20.25	ug/L	99
99) 1,4-Dclbenz	11.31	146	119132	20.40	ug/L	96
100) p-Isopropyltoluene	11.40	119	177748	20.69	ug/L	98
101) 1,2-Dclbenz	11.58	146	116649	20.24	ug/L	98
102) n-Butylbenzene	11.72	91	165554	20.91	ug/L	99
103) 1,2-Dibromo-3-chloropropan	11.95	75	11038	21.95	ug/L	94

(#)= qualifier out of range (m) = manual integration

D8550.D W082417.M Tue Oct 03 11:23:02 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8550.D Vial: 4  
 Acq On : 2 Oct 2017 10:39 am Operator: B.ALLGEIER  
 Sample : LCS Inst : MS#6  
 Misc : Multiplr: 1.00

MS Integration Params: CPD4.P  
 Quant Time: Oct 2 10:58 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
104) Nitrobenzene	12.12	77	3111	87.59	ug/L	94
105) 1,2,4-Tcbenzene	13.02	180	81003	20.40	ug/L	98
106) Naphthalen	13.19	128	154470	20.58	ug/L	97
107) Hexachlorobt	13.28	225	43069	22.14	ug/L	99
108) 1,2,3-Tclbenzene	13.35	180	75325	22.05	ug/L	99

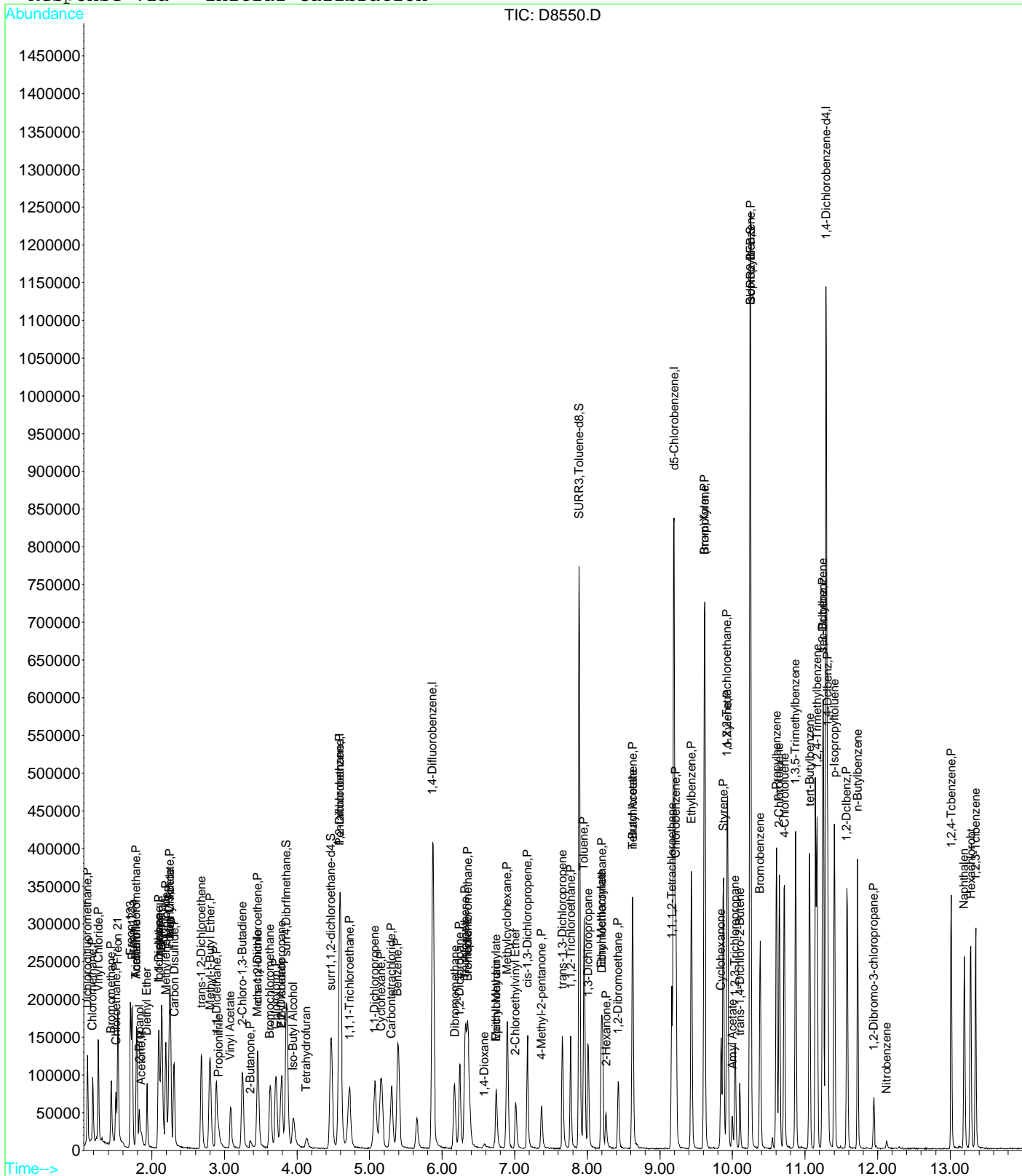


Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8550.D  
Acq On : 2 Oct 2017 10:39 am  
Sample : LCS  
Misc :  
MS Integration Params: CPD4.P  
Quant Time: Oct 2 10:58 2017

Vial: 4  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8576.D

Vial: 4

Acq On : 3 Oct 2017 11:17 am

Operator: B.ALLGEIER

Sample : lcs

Inst : MS#6

Misc :

Multiplr: 1.00

MS Integration Params: CPD4.P

Quant Time: Oct 3 11:50 2017

Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)

Title : 8260C / 624 WATERS

Last Update : Fri Aug 25 11:23:15 2017

Response via : Initial Calibration

DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	273379	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	371814	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	181884	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	208749	50.00	ug/L	0.00

## System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	134082	50.28	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	100.56%
43) surr1,1,2-dichloroethane-d	4.47	65	128914	44.63	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	89.26%
65) SURRE3,Toluene-d8	7.89	98	404767	53.76	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	107.52%
86) SURRE2,BFB	10.25	95	182622	53.61	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	107.22%

## Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.11	85	48628	11.93	ug/L	93
3) Chloromethane	1.19	50	42920	15.85	ug/L	100
4) Vinyl Chloride	1.27	62	61915	18.55	ug/L	95
5) Bromomethane	1.44	94	35780	17.79	ug/L	96
6) Chloroethane	1.50	64	28733	17.57	ug/L	95
7) Freon 21	1.53	67	97734	19.69	ug/L	93
8) Freon 123	1.70	83	71375	23.16	ug/L	97
9) Freon 123a	1.73	67	55869	22.81	ug/L	93
10) Acrolein	1.79	56	6342	29.31	ug/L	98
11) Trichlorofluoromethane	1.79	101	61517	16.49	ug/L	99
12) Acetonitrile	1.80	41	16002	107.55	ug/L	89
13) 2-Propanol	1.83	45	33328	325.72	ug/L	97
14) Acetone	1.86	43	11560	22.59	ug/L	97
15) Diethyl Ether	1.94	59	27874	21.16	ug/L	97
16) 1,1-Dicethene	2.09	96	32761	17.39	ug/L	93
17) Iodomethane	2.11	142	52922	17.29	ug/L	90
18) TBA	2.12	59	63596	362.76	ug/L	98
19) Acrylonitrile	2.14	53	62443	110.14	ug/L	98
20) Methylene Chloride	2.20	84	41141	20.56	ug/L	94
21) Freon 113	2.24	101	35166	16.34	ug/L	99
22) Methyl Acetate	2.25	43	24452	14.49	ug/L	98
23) Allyl Chloride	2.26	76	18191	23.46	ug/L	92
24) Carbon Disulfide	2.31	76	123572	21.45	ug/L	97
25) trans-1,2-Dichloroethene	2.68	96	36970	18.42	ug/L	98
26) Methyl-t-Butyl Ether	2.80	73	108590	21.05	ug/L	97
27) 1,1-Dicethane	2.89	63	63845	20.97	ug/L	98
28) Propionitrile	2.92	54	22677	111.00	ug/L	94
29) Vinyl Acetate	3.09	43	77214	21.34	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.25	53	59508	22.10	ug/L	90
31) 2-Butanone	3.36	43	12507	18.21	ug/L	90
32) Methacrylonitrile	3.45	67	14314	21.50	ug/L	94
33) cis-1,2-Dichloroethene	3.47	96	45626	21.29	ug/L	100
34) Bromochloromethane	3.63	128	24465	20.12	ug/L	92
35) Chloroform	3.71	83	76409	20.93	ug/L	95
36) 2,2-Dichloropropane	3.78	77	58292	17.51	ug/L	96
37) Ethyl Acetate	3.81	43	29154	20.30	ug/L	95
38) Tetrahydrofuran	4.13	42	8367	20.30	ug/L	90
39) 1,1,1-Trichloroethane	4.72	97	60146	16.97	ug/L	100
42) Iso-Butyl Alcohol	3.95	42	15407	370.52	ug/L #	85

(#)= qualifier out of range (m)= manual integration

D8576.D W082417.M Tue Oct 03 15:05:57 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8576.D

Vial: 4

Acq On : 3 Oct 2017 11:17 am

Operator: B.ALLGEIER

Sample : lcs

Inst : MS#6

Misc :

Multiplr: 1.00

MS Integration Params: CPD4.P

Quant Time: Oct 3 11:50 2017

Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)

Title : 8260C / 624 WATERS

Last Update : Fri Aug 25 11:23:15 2017

Response via : Initial Calibration

DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-Dichloroethane	4.59	64	18182	17.85	ug/L #	84
45) 2-Methyl-1,3-Dioxolane	4.82	73	21844	88.61	ug/L	91
46) 1,1-Dichloropropene	5.07	75	45602	16.93	ug/L	95
47) Cyclohexane	5.16	56	54712	19.78	ug/L	96
48) Carbontetrachloride	5.31	119	50317	16.81	ug/L	94
49) Benzene	5.39	78	140600	19.29	ug/L	94
50) Isopropyl Acetate	5.40	43	65916	18.33	ug/L	96
51) Dibromomethane	6.17	93	29451	19.12	ug/L	97
52) 1,2-Dicloropropane	6.24	63	37198	19.98	ug/L	99
53) n-Heptane	6.35	43	32312	15.86	ug/L	95
54) Trichloroethene	6.32	130	43315	17.96	ug/L	99
55) Bromodichloromethane	6.36	83	58118	20.16	ug/L	98
56) 1,4-Dioxane	6.57	88	6830	365.94	ug/L	84
57) Epichlorohydrin	6.74	57	16717	112.34	ug/L	89
58) Methyl Methacrylate	6.75	69	25100	19.98	ug/L	98
59) Methylcyclohexane	6.90	55	43438	20.23	ug/L	98
60) 2-Chloroethylvinyl Ether	7.02	63	24438	20.94	ug/L	95
61) cis-1,3-Dichloropropene	7.17	75	63325	19.63	ug/L	97
62) 4-Methyl-2-pentanone	7.37	43	29659	17.77	ug/L	94
63) trans-1,3-Dichloropropene	7.66	75	60689	20.03	ug/L	100
64) 1,1,2-Trichloroethane	7.77	97	38787	21.15	ug/L	96
66) Toluene	7.96	91	152191	18.40	ug/L	98
68) 1,3-Dichloropropane	8.01	76	58490	19.21	ug/L	92
69) Ethyl Methacrylate	8.19	69	46985	19.12	ug/L	90
70) Dibromochloromethane	8.21	129	46921	18.76	ug/L	96
71) 2-Hexanone	8.26	43	21954	17.89	ug/L	97
72) 1,2-Dibromoethane	8.43	107	43100	19.63	ug/L	96
73) n-Butyl Acetate	8.63	43	50999	18.16	ug/L	97
74) Tetrachloroethene	8.62	164	34666	15.96	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.16	131	42687	18.81	ug/L	97
76) Chlorobenzene	9.22	112	102816	17.89	ug/L	98
77) Ethylbenzene	9.44	106	52709	17.39	ug/L	92
78) Bromoform	9.61	173	34411	20.44	ug/L	100
79) (m+p)Xylene	9.61	106	128674	33.92	ug/L	96
80) o-Xylene	9.94	106	65318	17.89	ug/L	94
81) Cyclohexanone	9.84	55	45928	657.15	ug/L	94
82) Styrene	9.87	104	110316	18.91	ug/L	98
83) Amyl Acetate	9.99	43	63712	16.64	ug/L	94
84) trans-1,4-Dichloro-2-Buten	10.10	75	13405	15.79	ug/L	91
85) Isopropylbenzene	10.25	105	159670	17.15	ug/L	99
88) 1,1,2,2-Tetrachloroethane	9.92	83	48060	19.27	ug/L	95
89) 1,2,3-Trichloropropane	10.04	75	33513	17.81	ug/L	95
90) Bromobenzene	10.39	156	57932	18.72	ug/L	98
91) n-Propylbenzene	10.60	91	176623	15.96	ug/L	96
92) 2-Chlorotoluene	10.65	91	104293	16.20	ug/L	95
93) 4-Chlorotoluene	10.71	91	115954	16.75	ug/L	97
94) 1,3,5-Trimethylbenzene	10.87	105	130537	17.00	ug/L	98
95) tert-Butylbenzene	11.06	119	109644	16.42	ug/L	99
96) 1,2,4-Trimethylbenzene	11.16	105	136557	16.59	ug/L	99
97) sec-Butylbenzene	11.24	105	160716	16.88	ug/L	95
98) 1,3-Dclbenz	11.26	146	90492	17.20	ug/L	99
99) 1,4-Dclbenz	11.31	146	94383	17.70	ug/L	98
100) p-Isopropyltoluene	11.41	119	134282	17.11	ug/L	97
101) 1,2-Dclbenz	11.58	146	91682	17.41	ug/L	98

(#)= qualifier out of range (m) = manual integration

D8576.D W082417.M Tue Oct 03 15:05:59 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8576.D Vial: 4  
 Acq On : 3 Oct 2017 11:17 am Operator: B.ALLGEIER  
 Sample : lcs Inst : MS#6  
 Misc : Multiplr: 1.00

MS Integration Params: CPD4.P  
 Quant Time: Oct 3 11:50 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

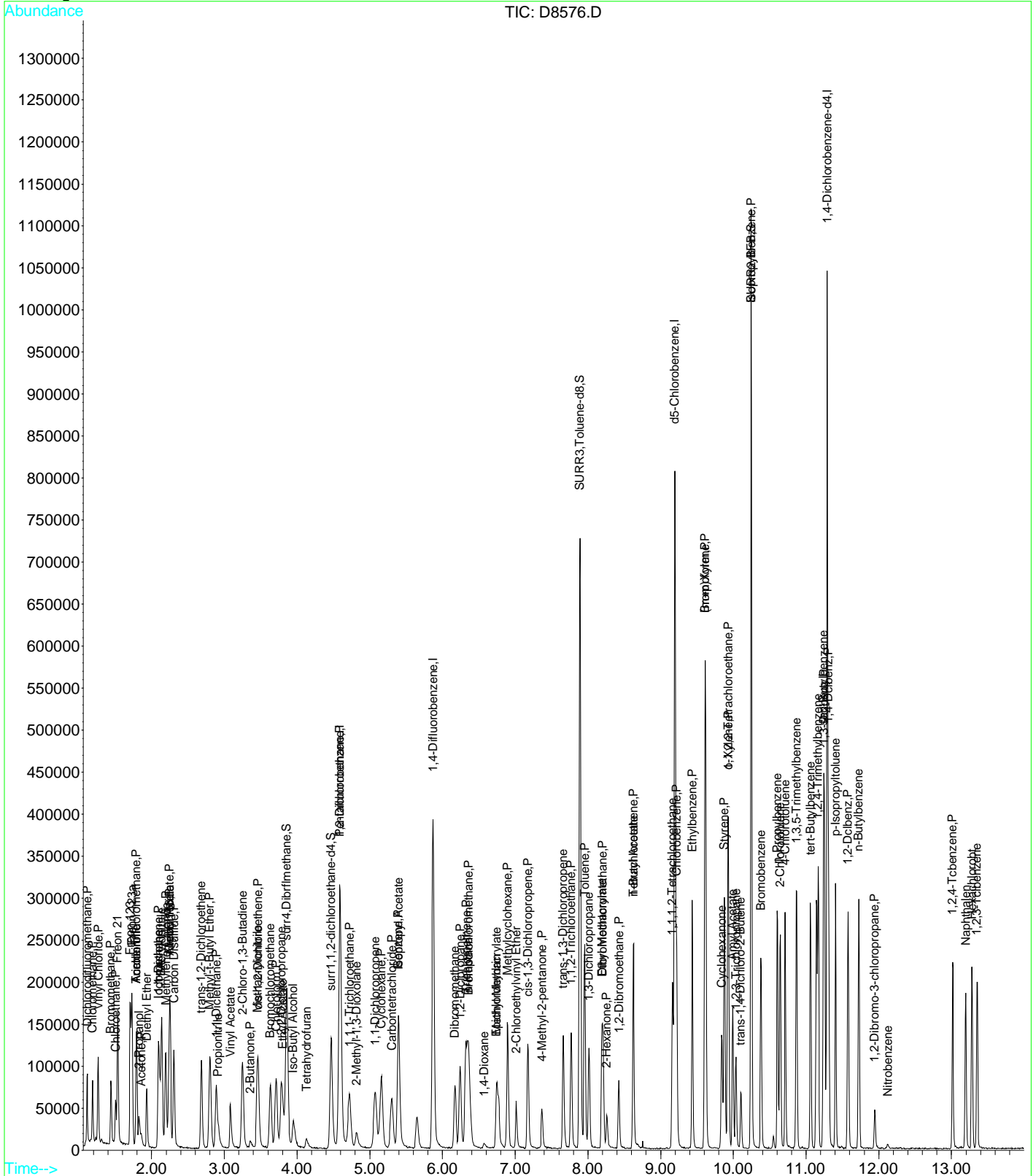
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.72	91	119083	16.47	ug/L	98
103) 1,2-Dibromo-3-chloropropan	11.94	75	7442	16.21	ug/L #	86
104) Nitrobenzene	12.12	77	2320	71.52	ug/L	81
105) 1,2,4-Tcbenzene	13.02	180	58106	16.02	ug/L	100
106) Naphthalen	13.20	128	109817	16.02	ug/L	98
107) Hexachlorobt	13.28	225	33271	18.73	ug/L	95
108) 1,2,3-Tclbenzene	13.35	180	52610	16.86	ug/L	98

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8576.D  
Acq On : 3 Oct 2017 11:17 am  
Sample : lcs  
Misc :  
MS Integration Params: CPD4.P  
Quant Time: Oct 3 11:50 2017

Vial: 4  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8498.D  
 Acq On : 5 Oct 2017 12:16 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Oct 05 12:31:26 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	5.397	168	286836	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.494	114	415098	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	367642	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	195749	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
43) surr4,Dibrflmethane	5.244	113	130125	49.91	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.82%		
46) surr1,1,2-dichloroetha...	5.787	65	164258	52.27	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	104.54%		
64) SURR3,Toluene-d8	8.311	98	474863	48.22	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	96.44%		
69) SURR2,BFB	10.878	95	186762	46.75	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	93.50%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.166	85	77585	23.68	ug/L	97
3) Chloromethane	1.294	50	126216	21.35	ug/L	99
4) Vinyl Chloride	1.373	62	93066	23.11	ug/L	100
5) Bromomethane	1.599	94	36057	16.02	ug/L	90
6) Chloroethane	1.678	64	42394	16.22	ug/L	99
7) Freon 21	1.824	67	100654	19.00	ug/L	100
8) Trichlorofluoromethane	1.873	101	82109	21.56	ug/L	93
9) Diethyl Ether	2.105	59	67145	21.21	ug/L	88
10) Freon 123a	2.111	67	68688	20.91	ug/L	96
11) Freon 123	2.160	83	68403	19.40	ug/L	90
12) Acrolein	2.208	56	39583	40.99	ug/L	89
13) 1,1-Dicethene	2.294	96	43589	18.51	ug/L	95
14) Freon 113	2.306	101	46277	19.86	ug/L	91
15) Acetone	2.337	43	45294	21.74	ug/L	99
16) 2-Propanol	2.477	45	117542	326.37	ug/L	99
17) Iodomethane	2.428	142	69425	18.75	ug/L	96
18) Carbon Disulfide	2.489	76	117502	17.15	ug/L	99
19) Acetonitrile	2.586	40	51527	115.77	ug/L #	87
20) Allyl Chloride	2.629	76	22880	22.49	ug/L #	71
21) Methyl Acetate	2.647	43	80642	13.61	ug/L	90
22) Methylene Chloride	2.745	84	53517	19.92	ug/L #	78
23) TBA	2.873	59	167626	367.90	ug/L	89
24) Acrylonitrile	3.001	53	222921	109.33	ug/L	93
25) Methyl-t-Butyl Ether	3.050	73	158892	20.31	ug/L	99
26) trans-1,2-Dichloroethene	3.038	96	48816	19.02	ug/L	91
27) 1,1-Dicethane	3.537	63	112916	20.84	ug/L	95
28) Vinyl Acetate	3.635	86	11594	22.14	ug/L #	80
29) DIPE	3.666	45	273915	19.94	ug/L	95
30) 2-Chloro-1,3-Butadiene	3.666	53	116098	21.96	ug/L	99
31) ETBE	4.196	59	170999	18.64	ug/L	98
32) 2,2-Dichloropropane	4.379	77	54021	21.48	ug/L	97
33) cis-1,2-Dichloroethene	4.385	96	56955	19.18	ug/L	99
34) 2-Butanone	4.428	43	63892	21.46	ug/L	98
35) Propionitrile	4.507	54	85666	103.99	ug/L	92
36) Bromochloromethane	4.775	130	42796	21.90	ug/L	91
37) Methacrylonitrile	4.781	67	28190	18.56	ug/L #	70
38) Tetrahydrofuran	4.867	42	41000	22.38	ug/L	86
39) Chloroform	4.958	83	90038	21.17	ug/L	93
40) 1,1,1-Trichloroethane	5.257	97	71446	21.60	ug/L	95



Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8498.D  
 Acq On : 5 Oct 2017 12:16 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Oct 05 12:31:26 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.348	41	79049	21.67	ug/L	98
44) Carbontetrachloride	5.543	117	58010	22.28	ug/L	95
45) 1,1-Dichloropropene	5.555	75	63365	18.37	ug/L	98
47) Benzene	5.866	78	194224	18.88	ug/L	94
48) 1,2-Dichloroethane	5.909	62	94519	22.98	ug/L	98
49) Iso-Butyl Alcohol	5.891	43	101913	402.59	ug/L	89
50) TAME	6.110	73	117021	17.79	ug/L	90
51) n-Heptane	6.360	43	110134	23.17	ug/L	92
52) 1-Butanol	6.854	56	113706	997.46	ug/L	99
53) Trichloroethene	6.823	130	58721	20.65	ug/L	93
54) Methylcyclohexane	7.061	55	95307	20.68	ug/L	93
55) 1,2-Diclpropane	7.098	63	65134	19.52	ug/L	95
56) Dibromomethane	7.244	93	35916	20.84	ug/L	88
57) 1,4-Dioxane	7.305	88	19347	398.91	ug/L	96
58) Methyl Methacrylate	7.329	69	43279	21.10	ug/L #	79
59) Bromodichloromethane	7.470	83	65877	22.78	ug/L	98
60) 2-Nitropropane	7.756	41	32455	45.89	ug/L	88
61) 2-Chloroethylvinyl Ether	7.878	63	8785	7.63	ug/L	86
62) cis-1,3-Dichloropropene	8.018	75	75453	20.34	ug/L	98
63) 4-Methyl-2-pentanone	8.220	43	98831	20.60	ug/L	96
65) Toluene	8.384	91	211020	18.90	ug/L	94
66) trans-1,3-Dichloropropene	8.652	75	65724	24.04	ug/L	99
67) Ethyl Methacrylate	8.799	69	76093	21.51	ug/L	82
68) 1,1,2-Trichloroethane	8.841	97	53347	21.84	ug/L	99
71) Tetrachloroethene	8.982	164	42628	19.58	ug/L	96
72) 2-Hexanone	9.134	43	76088	20.42	ug/L	89
73) 1,3-Dichloropropane	9.012	76	87438	20.00	ug/L	89
74) Dibromochloromethane	9.238	129	58313	24.31	ug/L	99
75) N-Butyl Acetate	9.292	43	138036	20.82	ug/L	94
76) 1,2-Dibromoethane	9.335	107	56360	22.56	ug/L	98
77) 3-Chlorobenzotrifluoride	9.847	180	68382	16.97	ug/L	94
78) Chlorobenzene	9.829	112	153408	20.15	ug/L	99
79) 4-Chlorobenzotrifluoride	9.902	180	58287	15.46	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.920	131	54210	25.38	ug/L	95
81) Ethylbenzene	9.951	106	74765	19.79	ug/L	94
82) (m+p)Xylene	10.061	106	185955	38.99	ug/L	96
83) o-Xylene	10.420	106	94214	19.67	ug/L	98
84) Styrene	10.432	104	163722	20.90	ug/L	98
85) Bromoform	10.585	173	38231	24.87	ug/L	99
86) 2-Chlorobenzotrifluoride	10.664	180	64982	16.26	ug/L	99
87) Isopropylbenzene	10.756	105	224966	19.21	ug/L	98
88) Cyclohexanone	10.817	55	325228	425.85	ug/L	96
89) trans-1,4-Dichloro-2-B...	11.060	53	22113	22.24	ug/L	84
91) 1,1,2,2-Tetrachloroethane	11.012	83	73292	20.50	ug/L	97
92) Bromobenzene	10.999	156	69422	20.96	ug/L	97
93) 1,2,3-Trichloropropane	11.042	110	22217	19.42	ug/L	92
94) n-Propylbenzene	11.109	91	262163	18.82	ug/L	100
95) 2-Chlorotoluene	11.170	91	159760	19.12	ug/L	97
96) 3-Chlorotoluene	11.225	91	140776	16.29	ug/L	97
97) 4-Chlorotoluene	11.268	91	192598	19.96	ug/L	96
98) 1,3,5-Trimethylbenzene	11.262	105	196365	20.16	ug/L	96
99) tert-Butylbenzene	11.536	119	167432	18.72	ug/L	95
100) 1,2,4-Trimethylbenzene	11.573	105	204939	19.91	ug/L	96
101) 3,4-Dichlorobenzotrifl...	11.633	214	45833	14.62	ug/L	94
102) sec-Butylbenzene	11.719	105	232623	18.14	ug/L	99
103) p-Isopropyltoluene	11.841	119	207289	19.09	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8498.D  
 Acq On : 5 Oct 2017 12:16 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Oct 05 12:31:26 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	127161	20.12	ug/L	99
105) 1,4-Dclbenz	11.871	146	131060	20.78	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	41586	14.36	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.969	214	47094	14.80	ug/L	98
108) n-Butylbenzene	12.170	91	175899	18.52	ug/L	98
109) 1,2-Dclbenz	12.176	146	129106	20.63	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.798	157	14329	20.75	ug/L	99
111) Trielution Dichlorotol...	12.920	125	264278	48.60	ug/L	100
112) 1,3,5-Trichlorobenzene	12.975	180	75136	16.20	ug/L	94
113) Coelution Dichlorotoluene	13.243	125	200807	33.73	ug/L	97
114) 1,2,4-Tcbenzene	13.456	180	95397	21.80	ug/L	94
115) Hexachlorobt	13.590	225	33471	20.09	ug/L	97
116) Naphthalen	13.645	128	275743	22.16	ug/L	98
117) 1,2,3-Tclbenzene	13.834	180	91404	20.92	ug/L	98
118) 2,4,5-Trichlorotoluene	14.419	159	42730	17.93	ug/L	98
119) 2,3,6-Trichlorotoluene	14.505	159	57016	25.26	ug/L	94

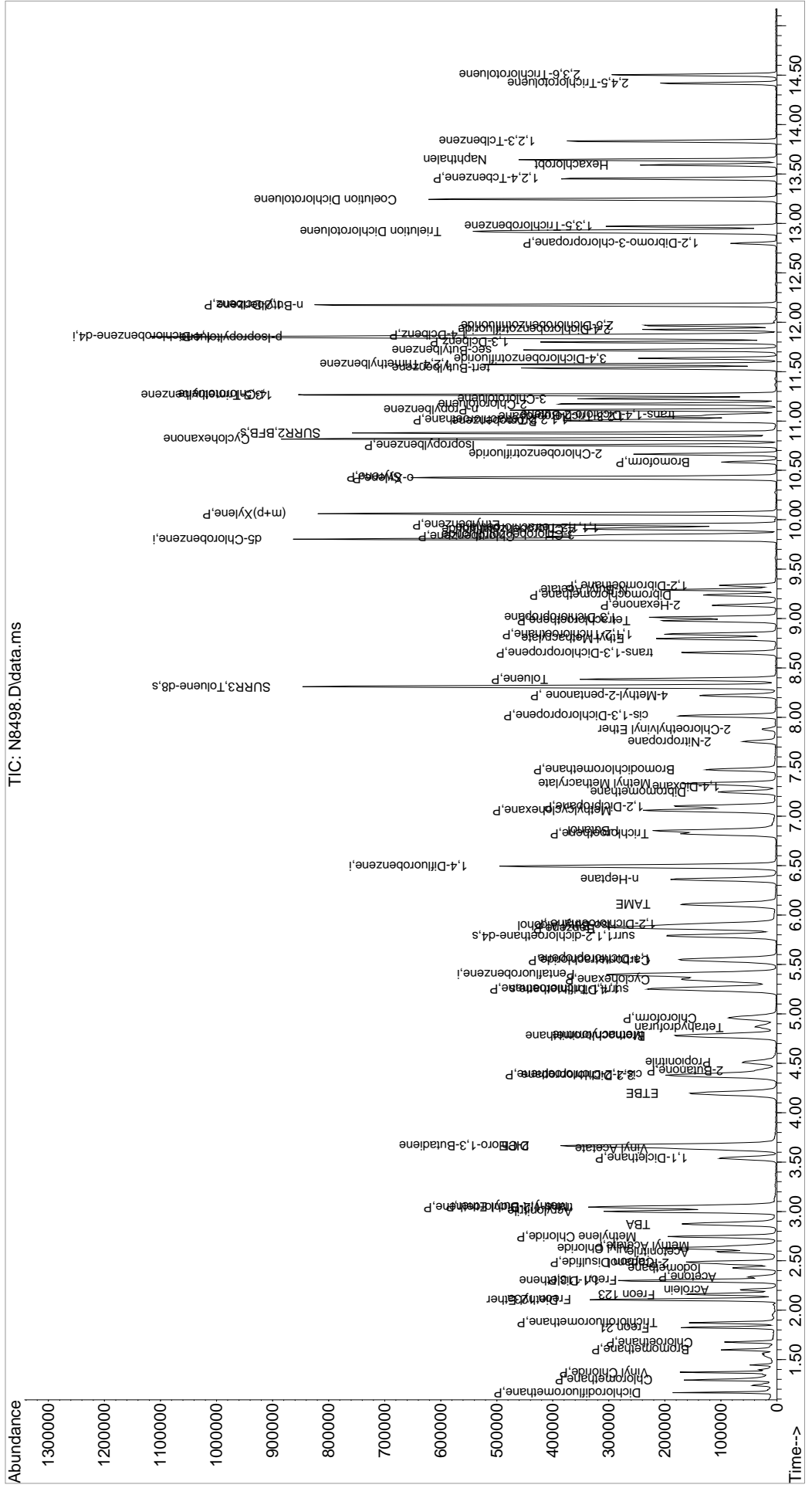
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\msvoa10\data\100517\  
Data File : N8498.D  
Acq On : 5 Oct 2017 12:16 pm  
Operator : F. NAEGLER  
Sample : LCS  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Oct 05 12:31:26 2017  
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 16:00:37 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8549.D Vial: 3  
 Acq On : 2 Oct 2017 9:50 am Operator: B.ALLGEIER  
 Sample : CCV Inst : MS#6  
 Misc : Multiplr: 1.00

MS Integration Params: CPD4.P  
 Quant Time: Oct 2 10:16 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	284923	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	387832	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	197963	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	239085	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	140117	50.37	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	100.74%
43) surr1,1,2-dichloroethane-d	4.47	65	138926	46.11	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	92.22%
65) SURRE3,Toluene-d8	7.89	98	434487	55.33	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	110.66%
86) SURR2,BFB	10.25	95	202244	54.55	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	109.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.11	85	185088	43.55	ug/L	99
3) Chloromethane	1.19	50	131694	46.67	ug/L	99
4) Vinyl Chloride	1.26	62	174721	50.22	ug/L	99
5) Bromomethane	1.44	94	95089	45.35	ug/L	97
6) Chloroethane	1.50	64	88307	51.81	ug/L	98
7) Freon 21	1.54	67	225887	43.67	ug/L	99
8) Freon 123	1.71	83	154297	48.03	ug/L	98
9) Freon 123a	1.73	67	117881	46.18	ug/L	95
10) Acrolein	1.78	56	36796	163.18	ug/L	99
11) Trichlorofluoromethane	1.79	101	180209	46.36	ug/L	98
12) Acetonitrile	1.80	41	39694	255.97	ug/L	95
13) 2-Propanol	1.83	45	102215	958.50	ug/L	97
14) Acetone	1.86	43	25221	47.29	ug/L	93
15) Diethyl Ether	1.94	59	70684	51.48	ug/L	98
16) 1,1-Dicethene	2.09	96	102549	52.23	ug/L	95
17) Iodomethane	2.11	142	122847	38.51	ug/L	88
18) TBA	2.13	59	192328	1052.60	ug/L	98
19) Acrylonitrile	2.14	53	160742	272.04	ug/L	99
20) Methylene Chloride	2.19	84	114340	54.82	ug/L	98
21) Freon 113	2.24	101	113461	50.59	ug/L	94
22) Methyl Acetate	2.25	43	63749	36.26	ug/L	96
23) Allyl Chloride	2.25	76	44923	55.58	ug/L	96
24) Carbon Disulfide	2.31	76	287669	47.91	ug/L	100
25) trans-1,2-Dichloroethene	2.69	96	113470	54.25	ug/L	95
26) Methyl-t-Butyl Ether	2.80	73	281105	52.29	ug/L	99
27) 1,1-Dicethane	2.89	63	175603	55.34	ug/L	97
28) Propionitrile	2.92	54	61557	289.10	ug/L	100
29) Vinyl Acetate	3.08	43	202705	53.76	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.25	53	135864	48.42	ug/L	91
31) 2-Butanone	3.35	43	34796	48.62	ug/L	98
32) Methacrylonitrile	3.45	67	38627	55.66	ug/L #	86
33) cis-1,2-Dichloroethene	3.46	96	123412	55.26	ug/L	96
34) Bromochloromethane	3.63	128	67074	52.94	ug/L	98
35) Chloroform	3.71	83	200571	52.72	ug/L	96
36) 2,2-Dichloropropane	3.79	77	172458	49.72	ug/L	97
38) Tetrahydrofuran	4.13	42	21901	50.99	ug/L	91
39) 1,1,1-Trichloroethane	4.72	97	180024	48.74	ug/L	98
42) Iso-Butyl Alcohol	3.95	42	44463	1025.11	ug/L	93
44) 1,2-Dichloroethane	4.59	64	49282	46.38	ug/L	96

(#) = qualifier out of range (m) = manual integration  
 D8549.D W082417.M Mon Oct 02 10:17:38 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8549.D

Vial: 3

Acq On : 2 Oct 2017 9:50 am

Operator: B.ALLGEIER

Sample : CCV

Inst : MS#6

Misc :

Multiplr: 1.00

MS Integration Params: CPD4.P

Quant Time: Oct 2 10:16 2017

Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)

Title : 8260C / 624 WATERS

Last Update : Fri Aug 25 11:23:15 2017

Response via : Initial Calibration

DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,1-Dichloropropene	5.08	75	145410	51.75	ug/L	96
47) Cyclohexane	5.16	56	143643	49.79	ug/L	92
48) Carbontetrachloride	5.30	119	153449	49.15	ug/L	93
49) Benzene	5.39	78	391721	51.53	ug/L	99
51) Dibromomethane	6.17	93	77109	47.98	ug/L	98
52) 1,2-Diclp propane	6.24	63	104668	53.91	ug/L	100
53) n-Heptane	6.34	43	110229	51.86	ug/L	92
54) Trichloroethene	6.32	130	126504	50.30	ug/L	97
55) Bromodichloromethane	6.36	83	159253	52.97	ug/L	99
56) 1,4-Dioxane	6.57	88	21070	1082.27	ug/L	98
57) Epichlorohydrin	6.72	57	71	0.46	ug/L #	1
58) Methyl Methacrylate	6.74	69	66044	50.39	ug/L	97
59) Methylcyclohexane	6.89	55	113687	50.76	ug/L	99
60) 2-Chloroethylvinyl Ether	7.01	63	62820	51.60	ug/L	92
61) cis-1,3-Dichloropropene	7.17	75	173263	51.49	ug/L	99
62) 4-Methyl-2-pentanone	7.37	43	81225	46.65	ug/L	96
63) trans-1,3-Dichloropropene	7.66	75	163008	51.57	ug/L	99
64) 1,1,2-Trichloroethane	7.77	97	101385	53.00	ug/L	97
66) Toluene	7.96	91	413751	47.95	ug/L	98
68) 1,3-Dichloropropane	8.01	76	158362	47.78	ug/L	93
69) Ethyl Methacrylate	8.19	69	131231	49.05	ug/L	92
70) Dibromochloromethane	8.21	129	135662	49.83	ug/L	100
71) 2-Hexanone	8.26	43	60454	45.25	ug/L	96
72) 1,2-Dibromoethane	8.43	107	113593	47.52	ug/L	99
73) n-Butyl Acetate	8.63	43	135784	44.43	ug/L	96
74) Tetrachloroethene	8.62	164	112304	47.52	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.16	131	120571	48.81	ug/L	97
76) Chlorobenzene	9.22	112	296308	47.37	ug/L	99
77) Ethylbenzene	9.44	106	165065	50.04	ug/L	95
78) Bromoform	9.61	173	97946	53.45	ug/L	97
79) (m+p)Xylene	9.61	106	381094	92.30	ug/L	96
80) o-Xylene	9.93	106	196512	49.46	ug/L	98
81) Cyclohexanone	9.84	55	106633	1401.82	ug/L	95
82) Styrene	9.88	104	303800	47.85	ug/L	100
84) trans-1,4-Dichloro-2-Buten	10.10	75	41166	44.56	ug/L	90
85) Isopropylbenzene	10.25	105	464133	45.79	ug/L	97
88) 1,1,2,2-Tetrachloroethane	9.92	83	137886	48.28	ug/L	98
89) 1,2,3-Trichloropropane	10.04	75	96511	44.77	ug/L	99
90) Bromobenzene	10.39	156	159354	44.96	ug/L	100
91) n-Propylbenzene	10.61	91	528461	41.70	ug/L	99
92) 2-Chlorotoluene	10.65	91	303622	41.19	ug/L	99
93) 4-Chlorotoluene	10.72	91	344391	43.45	ug/L	98
94) 1,3,5-Trimethylbenzene	10.87	105	369489	42.01	ug/L	98
95) tert-Butylbenzene	11.06	119	321076	41.98	ug/L	97
96) 1,2,4-Trimethylbenzene	11.17	105	383916	40.72	ug/L	97
97) sec-Butylbenzene	11.24	105	473441	43.42	ug/L	100
98) 1,3-Dclbenz	11.25	146	277415	46.03	ug/L	99
99) 1,4-Dclbenz	11.31	146	274557	44.95	ug/L	99
100) p-Isopropyltoluene	11.41	119	400783	44.60	ug/L	97
101) 1,2-Dclbenz	11.58	146	258922	42.94	ug/L	99
102) n-Butylbenzene	11.73	91	367358	44.36	ug/L	98
103) 1,2-Dibromo-3-chloropropan	11.94	75	23555	44.78	ug/L	96
104) Nitrobenzene	12.12	77	8000	215.33	ug/L	95
105) 1,2,4-Tcbenzene	13.01	180	180902	43.56	ug/L	97

(#)= qualifier out of range (m) = manual integration

D8549.D W082417.M

Mon Oct 02 10:17:39 2017

Page 2

Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8549.D Vial: 3  
 Acq On : 2 Oct 2017 9:50 am Operator: B.ALLGEIER  
 Sample : CCV Inst : MS#6  
 Misc : Multiplr: 1.00

MS Integration Params: CPD4.P  
 Quant Time: Oct 2 10:16 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

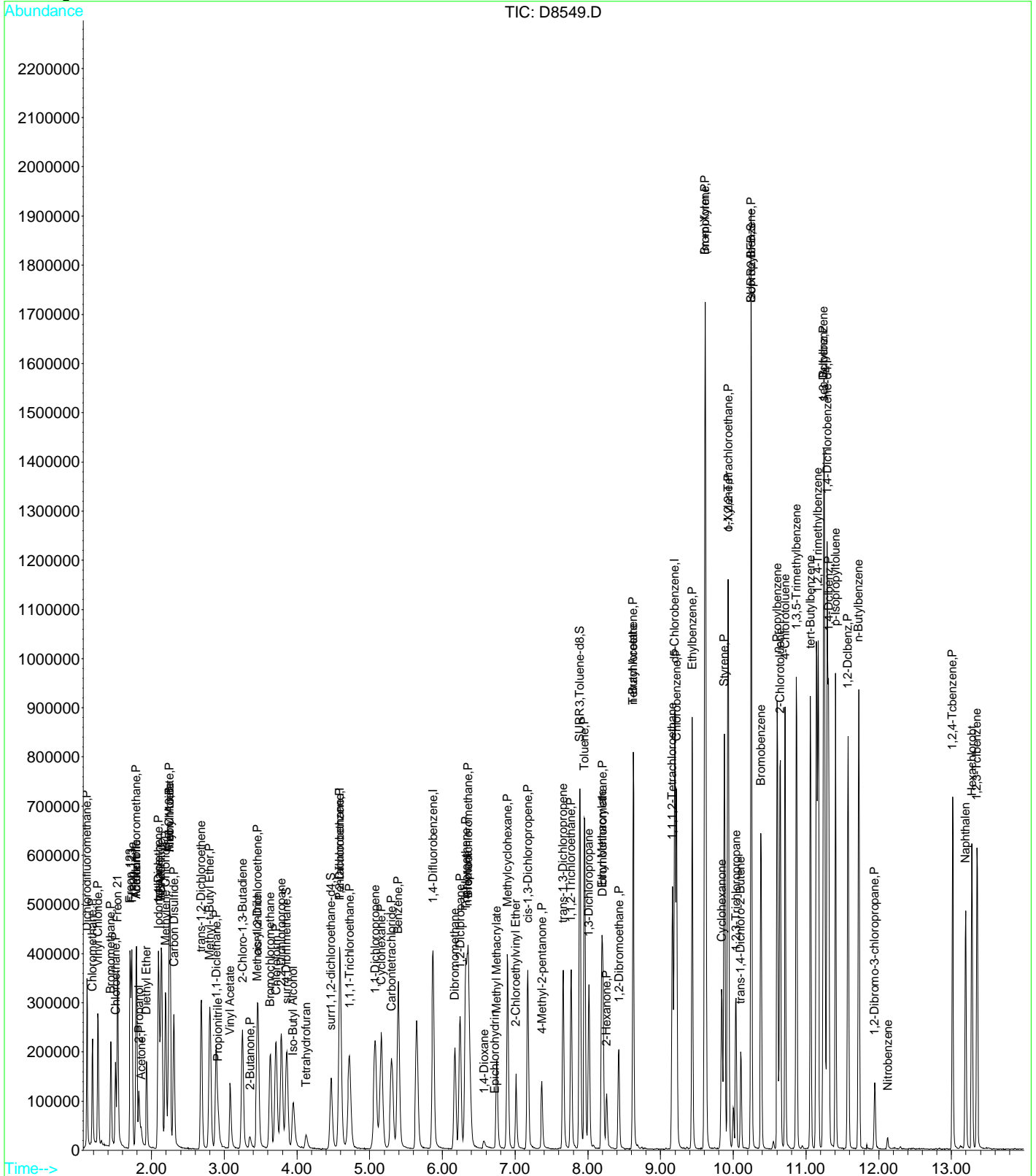
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
106) Naphthalen	13.20	128	283351	36.08	ug/L	99
107) Hexachlorobt	13.28	225	91254	44.85	ug/L	99
108) 1,2,3-Tclbenzene	13.36	180	155455	43.50	ug/L	99

Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8549.D  
Acq On : 2 Oct 2017 9:50 am  
Sample : CCV  
Misc :  
MS Integration Params: CPD4.P  
Quant Time: Oct 2 10:16 2017

Vial: 3  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8575.D  
 Acq On : 3 Oct 2017 10:29 am  
 Sample : ccv  
 Misc :  
 MS Integration Params: CPD4.P

Vial: 3  
 Operator: B.ALLGEIER  
 Inst : MS#6  
 Multiplr: 1.00

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.0000	1.0000	0.0	97	0.00
2 P	Dichlorodifluoromethane	0.7458	0.6199	16.9	86	0.00
3 P	Chloromethane	0.4952	0.4483	9.5	93	0.00
4 P	Vinyl Chloride	0.6105	0.6064	0.7	103	0.00
5 P	Bromomethane	0.3680	0.3268	11.2	97	0.00
6 P	Chloroethane	0.2991	0.3121	-4.3	109	0.00
7	Freon 21	0.9077	0.7513	17.2	91	0.00
8	Freon 123	0.5637	0.4940	12.4	96	0.00
9	Freon 123a	0.4479	0.3595	19.7	87	0.00
10	Acrolein	0.00396	0.0683	-72.5#	167	0.00
11 P	Trichlorofluoromethane	0.6822	0.6094	10.7	89	0.00
12	Acetonitrile	0.0272	0.0287	-5.5	105	0.00
13	2-Propanol	0.0187	0.0198	-5.9	103	0.00
14 P	Acetone	0.0936	0.1083	-15.7	105	0.00
15	Diethyl Ether	0.2409	0.2649	-10.0	115	0.00
16 P	1,1-Diclcethene	0.3445	0.3550	-3.0	105	0.00
17	Iodomethane	0.5598	0.4534	19.0	78	0.00
18	TBA	0.0321	0.0346	-7.8	104	0.00
19	Acrylonitrile	0.1037	0.1206	-16.3	116	0.00
20 P	Methylene Chloride	0.3660	0.4040	-10.4	114	0.00
21 P	Freon 113	0.3936	0.3891	1.1	101	0.00
22 P	Methyl Acetate	0.3086	0.2438	21.0#	76	0.00
23	Allyl Chloride	0.1418	0.1539	-8.5	107	0.00
24 P	Carbon Disulfide	1.0538	1.1029	-4.7	106	0.00
25	trans-1,2-Dichloroethene	0.3670	0.3835	-4.5	107	0.00
26 P	Methyl-t-Butyl Ether	0.9433	1.0119	-7.3	106	0.00
27 P	1,1-Diclcethane	0.5569	0.6143	-10.3	108	0.00
28	Propionitrile	0.0374	0.0475	-27.0#	119	0.00
29	Vinyl Acetate	0.6616	0.7611	-15.0	110	0.00
30	2-Chloro-1,3-Butadiene	0.4924	0.5080	-3.2	98	0.00
31 P	2-Butanone	0.1256	0.1437	-14.4	112	0.00
32	Methacrylonitrile	0.1218	0.1403	-15.2	115	0.00
33 P	cis-1,2-Dichloroethene	0.3919	0.4427	-13.0	113	0.00
34	Bromochloromethane	0.2224	0.2399	-7.9	109	0.00
35 P	Chloroform	0.6676	0.7075	-6.0	109	0.00
36	2,2-Dichloropropane	0.6087	0.5871	3.5	99	0.00
37	Ethyl Acetate	0.2627	0.0003	99.9#	0#	-0.01
38	Tetrahydrofuran	0.0754	0.0903	-19.8	113	0.00
39 P	1,1,1-Trichloroethane	0.6482	0.6176	4.7	100	-0.01
40 I	1,4-Difluorobenzene	1.0000	1.0000	0.0	99	0.00
41 S	surr4,Dibrflmethane	0.3586	0.3704	-3.3	98	0.00
42	Iso-Butyl Alcohol	0.0056	0.0062	-10.7	111	0.00
43 S	surr1,1,2-dichloroethane-d4	0.3884	0.3734	3.9	92	0.00
44 P	1,2-Dichloroethane	0.1370	0.1354	1.2	106	-0.01
45	2-Methyl-1,3-Dioxolane	0.0332	0.0000	100.0#	0#	-0.02
46	1,1-Dichloropropene	0.3622	0.3819	-5.4	106	0.00
47 P	Cyclohexane	0.3720	0.3255	12.5	95	0.00
48 P	Carbontetrachloride	0.4025	0.3924	2.5	98	0.00
49 P	Benzene	0.9800	1.0302	-5.1	109	0.00
50	Isopropyl Acetate	0.4836	0.0003	99.9#	0#	-0.07
51	Dibromomethane	0.2072	0.2109	-1.8	107	0.00
52 P	1,2-Diclcpropane	0.2503	0.2746	-9.7	113	0.00
53	n-Heptane	0.2740	0.2577	5.9	97	0.00



Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8575.D  
 Acq On : 3 Oct 2017 10:29 am  
 Sample : ccv  
 Misc :  
 MS Integration Params: CPD4.P

Vial: 3  
 Operator: B.ALLGEIER  
 Inst : MS#6  
 Multiplr: 1.00

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54 P	Trichloroethene	0.3242	0.3353	-3.4	106	0.00
55 P	Bromodichloromethane	0.3876	0.4247	-9.6	113	0.00
56	1,4-Dioxane	0.0025	0.0026	-4.0	99	-0.01
57	Epichlorohydrin	0.0200	0.0004	98.0#	2#	0.02
58	Methyl Methacrylate	0.1690	0.1863	-10.2	111	0.00
59 P	Methylcyclohexane	0.2887	0.2567	11.1	92	0.00
60	2-Chloroethylvinyl Ether	0.1569	0.1798	-14.6	115	0.00
61 P	cis-1,3-Dichloropropene	0.4338	0.4628	-6.7	107	0.00
62 P	4-Methyl-2-pentanone	0.2245	0.2371	-5.6	101	0.00
63	trans-1,3-Dichloropropene	0.4075	0.4335	-6.4	107	0.00
64 P	1,1,2-Trichloroethane	0.2466	0.2780	-12.7	112	0.00
65 S	SURR3,Toluene-d8	1.0124	1.1487	-13.5	102	0.00
66 P	Toluene	1.1125	1.0779	3.1	102	0.00
67 I	d5-Chlorobenzene	1.0000	1.0000	0.0	116	0.00
68	1,3-Dichloropropane	0.8371	0.7970	4.8	115	0.00
69	Ethyl Methacrylate	0.6757	0.6560	2.9	109	0.00
70 P	Dibromochloromethane	0.6876	0.6753	1.8	113	0.00
71 P	2-Hexanone	0.3374	0.3296	2.3	104	0.00
72 P	1,2-Dibromoethane	0.6037	0.5763	4.5	113	0.00
73	n-Butyl Acetate	0.7720	0.7241	6.2	102	0.00
74 P	Tetrachloroethene	0.5970	0.5329	10.7	105	0.00
75	1,1,1,2-Tetrachloroethane	0.6239	0.5790	7.2	107	0.00
76 P	Chlorobenzene	1.5799	1.4026	11.2	105	0.00
77 P	Ethylbenzene	0.8331	0.7405	11.1	103	0.00
78 P	Bromoform	0.4628	0.4759	-2.8	114	0.00
79 P	(m+p)Xylene	1.0428	0.8830	15.3	101	0.00
80 P	o-Xylene	1.0035	0.9169	8.6	103	0.00
81	Cyclohexanone	0.0192	0.0346	-80.2#	206#	0.00
82 P	Styrene	1.6035	1.4478	9.7	103	0.00
83	Amyl Acetate	1.0525	0.0237	97.7#	2#	0.00
84	trans-1,4-Dichloro-2-Butene	0.2333	0.1799	22.9#	91	0.00
85 P	Isopropylbenzene	2.5600	2.1151	17.4	99	0.00
86 S	SURR2,BFB	0.9365	0.9819	-4.8	112	0.00
87 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	112	0.00
88 P	1,1,2,2-Tetrachloroethane	0.5973	0.5774	3.3	107	0.00
89	1,2,3-Trichloropropane	0.4508	0.4030	10.6	105	0.00
90	Bromobenzene	0.7413	0.6327	14.6	100	0.00
91	n-Propylbenzene	2.6504	1.9992	24.6#	94	0.00
92	2-Chlorotoluene	1.5416	1.2586	18.4	107	0.00
93	4-Chlorotoluene	1.6577	1.3607	17.9	98	0.00
94	1,3,5-Trimethylbenzene	1.8392	1.4676	20.2#	96	0.00
95	tert-Butylbenzene	1.5994	1.2837	19.7	96	0.00
96	1,2,4-Trimethylbenzene	1.9719	1.5276	22.5#	96	0.00
97	sec-Butylbenzene	2.2802	1.8630	18.3	98	0.00
98 P	1,3-Dclbenz	1.2605	1.0747	14.7	98	0.00
99 P	1,4-Dclbenz	1.2773	1.0664	16.5	97	0.00
100	p-Isopropyltoluene	1.8793	1.5679	16.6	97	0.00
101 P	1,2-Dclbenz	1.2610	1.0539	16.4	101	0.00
102	n-Butylbenzene	1.7319	1.3624	21.3#	92	0.00
103 P	1,2-Dibromo-3-chloropropane	0.1100	0.0929	15.5	92	0.00
104	Nitrobenzene	0.0078	0.0135	-73.1#	245#	0.00
105 P	1,2,4-Tcbenzene	0.8686	0.6291	27.6#	86	0.00

(#) = Out of Range  
 D8575.D W082417.M

Tue Oct 03 15:04:58 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8575.D Vial: 3  
 Acq On : 3 Oct 2017 10:29 am Operator: B.ALLGEIER  
 Sample : ccv Inst : MS#6  
 Misc : Multiplr: 1.00  
 MS Integration Params: CPD4.P

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
106	Naphthalen	1.6422	0.9827	40.2#	68	0.00
107	Hexachlorobt	0.4255	0.3410	19.9	93	0.00
108	1,2,3-Tclbenzene	0.7474	0.5390	27.9#	80	0.00



Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8575.D

Vial: 3

Acq On : 3 Oct 2017 10:29 am

Operator: B.ALLGEIER

Sample : ccv

Inst : MS#6

Misc :

Multiplr: 1.00

MS Integration Params: CPD4.P

Quant Time: Oct 3 10:53 2017

Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)

Title : 8260C / 624 WATERS

Last Update : Fri Aug 25 11:23:15 2017

Response via : Initial Calibration

DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	276884	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	362879	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	196545	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	227191	50.00	ug/L	0.00

## System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	134410	51.64	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	103.28%
43) surr1,1,2-dichloroethane-d	4.47	65	135485	48.06	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	96.12%
65) SURRE3,Toluene-d8	7.89	98	416849	56.73	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	113.46%
86) SURRE2,BFB	10.24	95	192991	52.43	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	104.86%

## Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.11	85	171640	41.56	ug/L	97
3) Chloromethane	1.18	50	124133	45.27	ug/L	94
4) Vinyl Chloride	1.26	62	167894	49.66	ug/L	98
5) Bromomethane	1.44	94	90474	44.40	ug/L	99
6) Chloroethane	1.51	64	86409	52.17	ug/L	95
7) Freon 21	1.53	67	208019	41.38	ug/L	99
8) Freon 123	1.71	83	136771	43.81	ug/L	97
9) Freon 123a	1.73	67	99539	40.13	ug/L	97
10) Acrolein	1.79	56	94497	431.24	ug/L	94
11) Trichlorofluoromethane	1.79	101	168736	44.67	ug/L	99
12) Acetonitrile	1.79	41	39729	263.64	ug/L	98
13) 2-Propanol	1.83	45	109777	1059.30	ug/L	96
14) Acetone	1.86	43	29989	57.86	ug/L	93
15) Diethyl Ether	1.93	59	73353	54.98	ug/L	96
16) 1,1-Dicethene	2.09	96	98303	51.52	ug/L	98
17) Iodomethane	2.11	142	125546	40.50	ug/L	87
18) TBA	2.13	59	191785	1080.10	ug/L	99
19) Acrylonitrile	2.14	53	166980	290.81	ug/L	97
20) Methylene Chloride	2.19	84	111861	55.19	ug/L	95
21) Freon 113	2.24	101	107740	49.44	ug/L	94
22) Methyl Acetate	2.24	43	67517	39.51	ug/L	96
23) Allyl Chloride	2.26	76	42620	54.26	ug/L	91
24) Carbon Disulfide	2.31	76	305363	52.33	ug/L	99
25) trans-1,2-Dichloroethene	2.68	96	106172	52.24	ug/L	99
26) Methyl-t-Butyl Ether	2.80	73	280188	53.64	ug/L	96
27) 1,1-Dicethane	2.89	63	170086	55.16	ug/L	97
28) Propionitrile	2.92	54	65807	318.03	ug/L	100
29) Vinyl Acetate	3.08	43	210742	57.52	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.25	53	140652	51.58	ug/L	93
31) 2-Butanone	3.35	43	39783	57.20	ug/L	97
32) Methacrylonitrile	3.44	67	38856	57.61	ug/L	# 84
33) cis-1,2-Dichloroethene	3.47	96	122579	56.48	ug/L	95
34) Bromochloromethane	3.63	128	66428	53.95	ug/L	98
35) Chloroform	3.71	83	195907	52.99	ug/L	97
36) 2,2-Dichloropropane	3.78	77	162572	48.23	ug/L	93
38) Tetrahydrofuran	4.12	42	24991	59.88	ug/L	84
39) 1,1,1-Trichloroethane	4.72	97	171012	47.64	ug/L	97
42) Iso-Butyl Alcohol	3.95	42	45296	1116.13	ug/L	95
44) 1,2-Dichloroethane	4.59	64	49130	49.42	ug/L	99

(#)= qualifier out of range (m) = manual integration

D8575.D W082417.M Tue Oct 03 15:04:38 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8575.D

Vial: 3

Acq On : 3 Oct 2017 10:29 am

Operator: B.ALLGEIER

Sample : ccv

Inst : MS#6

Misc :

Multiplr: 1.00

MS Integration Params: CPD4.P

Quant Time: Oct 3 10:53 2017

Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)

Title : 8260C / 624 WATERS

Last Update : Fri Aug 25 11:23:15 2017

Response via : Initial Calibration

DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,1-Dichloropropene	5.08	75	138593	52.72	ug/L	97
47) Cyclohexane	5.16	56	118102	43.75	ug/L	94
48) Carbontetrachloride	5.30	119	142404	48.74	ug/L	95
49) Benzene	5.39	78	373830	52.56	ug/L	99
51) Dibromomethane	6.17	93	76538	50.90	ug/L	99
52) 1,2-Diclp propane	6.25	63	99651	54.85	ug/L	93
53) n-Heptane	6.34	43	93516	47.02	ug/L	92
54) Trichloroethene	6.31	130	121665	51.70	ug/L	99
55) Bromodichloromethane	6.36	83	154127	54.79	ug/L	99
56) 1,4-Dioxane	6.57	88	18865	1035.64	ug/L	89
57) Epichlorohydrin	6.75	57	699	4.81	ug/L	84
58) Methyl Methacrylate	6.74	69	67609	55.13	ug/L	92
59) Methylcyclohexane	6.90	55	93149	44.45	ug/L	97
60) 2-Chloroethylvinyl Ether	7.01	63	65261	57.29	ug/L	100
61) cis-1,3-Dichloropropene	7.18	75	167956	53.34	ug/L	98
62) 4-Methyl-2-pentanone	7.37	43	86049	52.82	ug/L	94
63) trans-1,3-Dichloropropene	7.66	75	157300	53.19	ug/L	99
64) 1,1,2-Trichloroethane	7.77	97	100896	56.37	ug/L	99
66) Toluene	7.96	91	391165	48.45	ug/L	98
68) 1,3-Dichloropropane	8.02	76	156640	47.60	ug/L	96
69) Ethyl Methacrylate	8.19	69	128937	48.55	ug/L	93
70) Dibromochloromethane	8.21	129	132718	49.10	ug/L	99
71) 2-Hexanone	8.26	43	64776	48.83	ug/L	94
72) 1,2-Dibromoethane	8.42	107	113273	47.73	ug/L	97
73) n-Butyl Acetate	8.62	43	142324	46.90	ug/L	98
74) Tetrachloroethene	8.62	164	104730	44.63	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.17	131	113804	46.40	ug/L	98
76) Chlorobenzene	9.22	112	275679	44.39	ug/L	98
77) Ethylbenzene	9.43	106	145532	44.44	ug/L	98
78) Bromoform	9.61	173	93534	51.41	ug/L	99
79) (m+p)Xylene	9.62	106	347104	84.67	ug/L	98
80) o-Xylene	9.93	106	180204	45.68	ug/L	98
81) Cyclohexanone	9.84	55	136152	1802.79	ug/L	92
82) Styrene	9.88	104	284567	45.15	ug/L	100
83) Amyl Acetate	10.00	43	4667	1.13	ug/L #	53
84) trans-1,4-Dichloro-2-Buten	10.10	75	35353	38.54	ug/L	91
85) Isopropylbenzene	10.25	105	415713	41.31	ug/L	98
88) 1,1,2,2-Tetrachloroethane	9.92	83	131177	48.33	ug/L	97
89) 1,2,3-Trichloropropane	10.04	75	91564	44.70	ug/L	96
90) Bromobenzene	10.38	156	143744	42.67	ug/L	99
91) n-Propylbenzene	10.61	91	454208	37.72	ug/L	98
92) 2-Chlorotoluene	10.64	91	285950	40.82	ug/L	97
93) 4-Chlorotoluene	10.71	91	309141	41.04	ug/L	98
94) 1,3,5-Trimethylbenzene	10.87	105	333433	39.90	ug/L	98
95) tert-Butylbenzene	11.06	119	291640	40.13	ug/L	98
96) 1,2,4-Trimethylbenzene	11.17	105	347058	38.73	ug/L	97
97) sec-Butylbenzene	11.24	105	423259	40.85	ug/L	100
98) 1,3-Dclbenz	11.25	146	244155	42.63	ug/L	99
99) 1,4-Dclbenz	11.31	146	242270	41.74	ug/L	99
100) p-Isopropyltoluene	11.40	119	356212	41.72	ug/L	98
101) 1,2-Dclbenz	11.58	146	239444	41.79	ug/L	99
102) n-Butylbenzene	11.72	91	309520	39.33	ug/L	98
103) 1,2-Dibromo-3-chloropropan	11.95	75	21105	42.23	ug/L	96
104) Nitrobenzene	12.13	77	6112	173.13	ug/L	98

(#)= qualifier out of range (m) = manual integration

D8575.D W082417.M Tue Oct 03 15:04:39 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8575.D Vial: 3  
 Acq On : 3 Oct 2017 10:29 am Operator: B.ALLGEIER  
 Sample : ccv Inst : MS#6  
 Misc : Multiplr: 1.00

MS Integration Params: CPD4.P  
 Quant Time: Oct 3 10:53 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

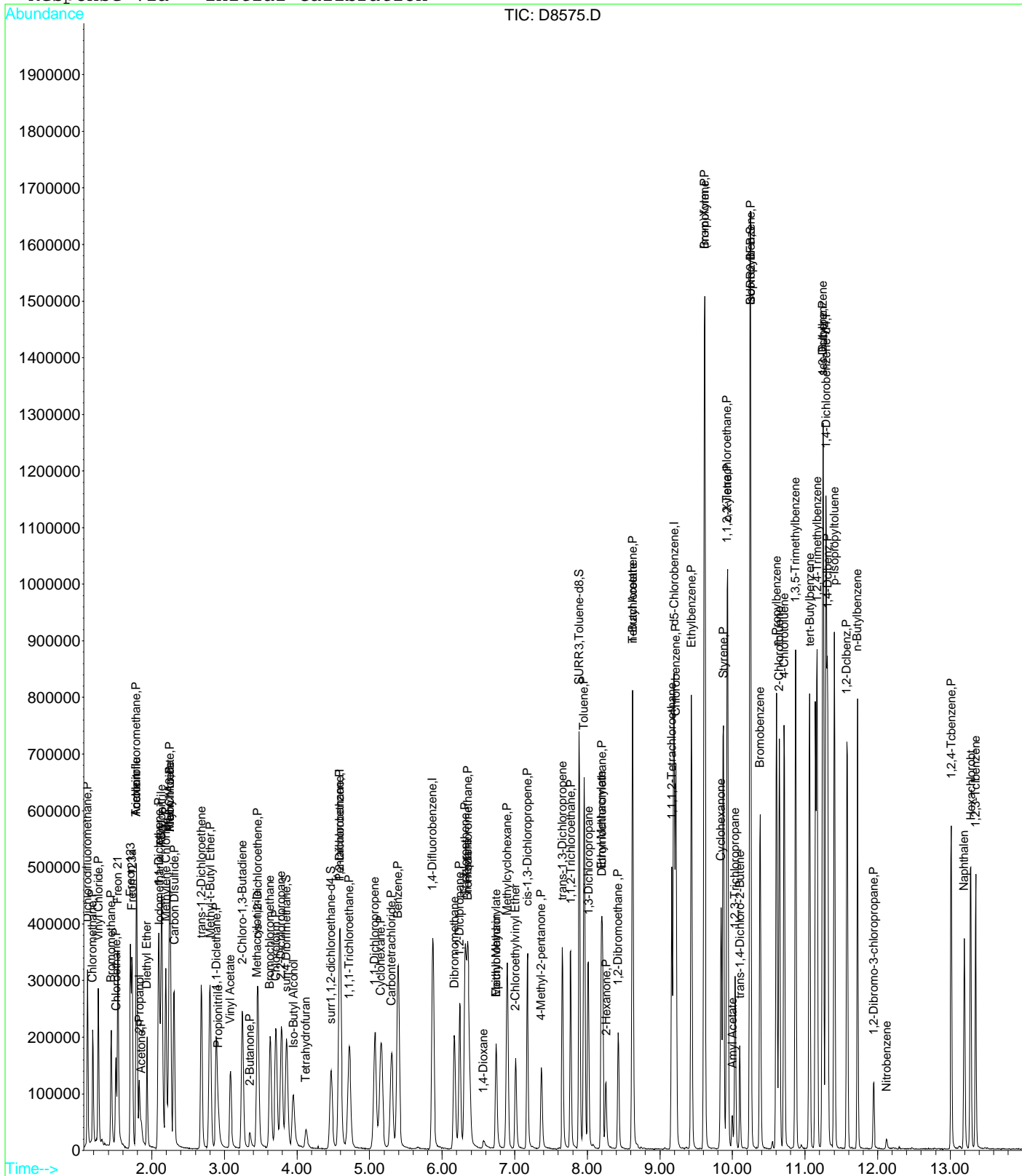
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
105) 1,2,4-Tcbenzene	13.02	180	142915	36.21	ug/L	98
106) Naphthalen	13.19	128	223262	29.92	ug/L	98
107) Hexachlorobt	13.28	225	77471	40.07	ug/L	100
108) 1,2,3-Tclbenzene	13.35	180	122463	36.06	ug/L	98

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8575.D  
Acq On : 3 Oct 2017 10:29 am  
Sample : ccv  
Misc :  
MS Integration Params: CPD4.P  
Quant Time: Oct 3 10:53 2017

Vial: 3  
Operator: B.ALLGEIER  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration



Evaluate Continuing Calibration Report

1st *FJ* 10/13/17  
 2nd *RL* 10/13/17

Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8497.D  
 Acq On : 5 Oct 2017 11:44 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Oct 05 11:58:41 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 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	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1 i Pentafluorobenzene	1.0000	1.0000	0.0	110	0.01	
2 P Dichlorodifluoromethane	0.5711	0.6439	-12.7	112	0.01	
3 P Chloromethane	1.0307	1.0233	0.7	109	0.01	
4 P Vinyl Chloride	0.7020	0.6899	1.7	101	0.01	
5 P Bromomethane	0.4283	0.3100	10.4	<del>27.6</del> #	99	0.02
6 P Chloroethane	0.4555	0.3760	17.5	97	0.02	
7 Freon 21	0.9237	0.7814	15.4	101	0.01	
8 P Trichlorofluoromethane	0.6639	0.6830	-2.9	110	0.01	
9 Diethyl Ether	0.5519	0.5127	7.1	102	0.01	
10 Freon 123a	0.5727	0.4577	20.1#	95	0.01	NT
11 Freon 123	0.6146	0.4922	19.9	95	0.00	
12 Acrolein	0.1683	0.1638	2.7	103	0.00	
13 1,1-Dicethene	0.4105	0.3982	3.0	103	0.00	
14 P Freon 113	0.4062	0.4058	0.1	107	0.01	
15 P Acetone	0.3633	0.3032	16.5	93	0.00	
16 2-Propanol	0.0628	0.0475	24.4#	78	-0.02	NT
17 Iodomethane	0.6380	0.6653	3.0	<del>4.3</del> #	99	0.01
18 P Carbon Disulfide	1.1944	1.1162	6.5	101	0.01	
19 Acetonitrile	0.0776	0.0743	4.3	102	0.00	
20 Allyl Chloride	0.1774	0.1736	2.1	105	0.01	
21 P Methyl Acetate	1.0326	0.6641	35.7#	68	0.00	(1)
22 P Methylene Chloride	0.4683	0.4299	8.2	102	0.01	
23 TBA	0.0794	0.0581	26.8#	77	0.00	NT
24 Acrylonitrile	0.3554	0.3316	6.7	98	0.00	
25 P Methyl-t-Butyl Ether	1.3635	1.2154	10.9	95	0.01	
26 P trans-1,2-Dichloroethene	0.4475	0.4212	5.9	101	0.01	
27 P 1,1-Dicethane	0.9445	0.9191	2.7	103	0.00	
28 Vinyl Acetate	0.0913	0.0917	-0.4	102	0.01	
29 DIPE	2.3948	2.6104	-9.0	116	0.00	
30 2-Chloro-1,3-Butadiene	0.9217	0.9631	-4.5	109	0.01	
31 ETBE	1.5991	1.5646	2.2	106	0.01	
32 2,2-Dichloropropane	0.4383	0.4728	-7.9	109	0.01	
33 P cis-1,2-Dichloroethene	0.5177	0.4850	6.3	99	0.00	
34 P 2-Butanone	0.5189	0.4609	11.2	97	0.00	
35 Propionitrile	0.1436	0.1226	14.6	91	0.00	
36 Bromochloromethane	0.3406	0.3359	1.4	107	0.00	
37 Methacrylonitrile	0.2648	0.2020	23.7#	82	0.00	NT
38 Tetrahydrofuran	0.3194	0.2545	20.3#	87	0.00	NT
39 P Chloroform	0.7415	0.7405	0.1	105	0.00	
40 P 1,1,1-Trichloroethane	0.5767	0.6190	-7.3	111	0.01	
41 i 1,4-Difluorobenzene	1.0000	1.0000	0.0	107	0.00	
42 P Cyclohexane	0.4394	0.4254	3.2	114	0.00	
43 s surr4,Dibrflmethane	0.3140	0.3279	-4.4	111	0.00	
44 P Carbontetrachloride	0.3136	0.3658	-16.6	119	0.00	
45 1,1-Dichloropropene	0.4156	0.4042	2.7	104	0.01	
46 s surr1,1,2-dichloroethane-d4	0.3785	0.3954	-4.5	111	0.00	
47 P Benzene	1.2390	1.1261	9.1	96	0.00	
48 P 1,2-Dichloroethane	0.4954	0.5142	-3.8	110	0.00	
49 Iso-Butyl Alcohol	0.0305	0.0252	17.4	86	0.00	
50 TAME	0.7922	0.7234	8.7	96	0.00	
51 n-Heptane	0.5726	0.7200	-25.7#	130	0.00	NT

Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8497.D  
 Acq On : 5 Oct 2017 11:44 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Oct 05 11:58:41 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 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	AvgRF	CCRF	%Dev	Area%	Dev(min)
52 1-Butanol	0.0150	0.0128	12.9	<del>14.7</del> 85	-0.01
53 P Trichloroethene	0.3425	0.3487	-1.8	104	0.00
54 P Methylcyclohexane	0.5550	0.5102	8.1	108	0.00
55 P 1,2-Diclp propane	0.4019	0.3633	9.6	95	0.00
56 Dibromomethane	0.2076	0.1925	7.3	98	0.00
57 1,4-Dioxane	0.0058	0.0043	25.9#	74	0.00 (2)
58 Methyl Methacrylate	0.2470	0.2167	12.3	84	0.00
59 P Bromodichloromethane	0.3484	0.3725	-6.9	111	0.00
60 2-Nitropropane	0.0852	0.0820	3.8	107	0.00
61 2-Chloroethylvinyl Ether	0.1387	0.0392	71.7#	28#	0.00 NT
62 P cis-1,3-Dichloropropene	0.4468	0.4469	-0.0	98	0.00
63 P 4-Methyl-2-pentanone	0.5779	0.5416	6.3	95	0.00
64 s SURR3,Toluene-d8	1.1862	1.1538	2.7	105	0.00
65 P Toluene	1.3451	1.2501	7.1	97	0.00
66 P trans-1,3-Dichloropropene	0.3292	0.3771	-14.6	101	0.00
67 Ethyl Methacrylate	0.4261	0.3844	9.8	88	0.00
68 P 1,1,2-Trichloroethane	0.2942	0.2758	6.3	97	0.00
69 s SURR2,BFB	0.4812	0.4464	7.2	101	0.00
70 i d5-Chlorobenzene	1.0000	1.0000	0.0	107	0.00
71 P Tetrachloroethene	0.2960	0.2950	0.3	107	0.00
72 P 2-Hexanone	0.5068	0.4585	9.5	95	0.00
73 1,3-Dichloropropane	0.5947	0.5400	9.2	93	0.00
74 P Dibromochloromethane	0.3262	0.3597	-10.3	108	0.00
75 N-Butyl Acetate	0.9018	0.9307	-3.2	98	0.00
76 P 1,2-Dibromoethane	0.3397	0.3356	1.2	100	0.00
77 3-Chlorobenzotrifluoride	0.5482	0.5380	1.9	106	0.00
78 P Chlorobenzene	1.0352	0.9758	5.7	100	0.00
79 4-Chlorobenzotrifluoride	0.5128	0.4853	5.4	106	0.00
80 1,1,1,2-Tetrachloroethane	0.2904	0.3458	-19.1	109	0.00
81 P Ethylbenzene	0.5137	0.5063	1.4	101	0.00
82 P (m+p)Xylene	0.6486	0.6380	1.6	103	0.00
83 P o-Xylene	0.6515	0.6143	5.7	99	0.00
84 P Styrene	1.0652	1.0541	1.0	101	0.00
85 P Bromoform	0.2091	0.2209	-5.6	110	0.00
86 2-Chlorobenzotrifluoride	0.5436	0.5255	3.3	104	0.00
87 P Isopropylbenzene	1.5930	1.5968	-0.2	101	0.00
88 Cyclohexanone	0.1039	0.0852	18.0	81	0.00
89 trans-1,4-Dichloro-2-Butene	0.1352	0.1081	20.0#	85	0.00 NT
90 i 1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	106	0.00
91 P 1,1,2,2-Tetrachloroethane	0.9132	0.7742	15.2	88	0.00
92 Bromobenzene	0.8461	0.8140	3.8	101	0.00
93 1,2,3-Trichloropropane	0.2922	0.2372	18.8	87	0.00
94 n-Propylbenzene	3.5579	3.3477	5.9	96	0.00
95 2-Chlorotoluene	2.1347	2.0303	4.9	99	0.00
96 3-Chlorotoluene	2.2077	2.1153	4.2	103	0.00
97 4-Chlorotoluene	2.4647	2.3198	5.9	95	0.00
98 1,3,5-Trimethylbenzene	2.4878	2.4563	1.3	99	0.00
99 tert-Butylbenzene	2.2849	2.1676	5.1	97	0.00
100 1,2,4-Trimethylbenzene	2.6294	2.4706	6.0	96	0.00
101 3,4-Dichlorobenzotrifluorid	0.8005	0.7360	8.1	103	0.00

Evaluate Continuing Calibration Report

1st *FJ* 10/13/17  
 2nd *RL* 10/13/17

Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8497.D  
 Acq On : 5 Oct 2017 11:44 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Oct 05 11:58:41 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 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	AvgRF	CCRF	%Dev	Area%	Dev(min)
102	sec-Butylbenzene	3.2760	3.0796	6.0	96	0.00
103	p-Isopropyltoluene	2.7742	2.6976	2.8	97	0.00
104 P	1,3-Dclbenz	1.6142	1.5421	4.5	102	0.00
105 P	1,4-Dclbenz	1.6107	1.5385	4.5	100	0.00
106	2,4-Dichlorobenzotrifluorid	0.7396	0.6552	11.4	98	0.00
107	2,5-Dichlorobenzotrifluorid	0.8127	0.7520	7.5	100	0.00
108	n-Butylbenzene	2.4256	2.3540	3.0	96	0.00
109 P	1,2-Dclbenz	1.5982	1.4886	6.9	98	0.00
110 P	1,2-Dibromo-3-chloropropane	0.1837	0.1667	10.4	<del>9.3</del> 89	0.00
111	Trielution Dichlorotoluene	1.3890	1.3554	2.4	101	0.00
112	1,3,5-Trichlorobenzene	1.1844	1.1112	6.2	101	0.00
113	Coelution Dichlorotoluene	1.5204	1.4898	2.0	100	0.00
114 P	1,2,4-Tcbenzene	1.1180	1.0691	4.4	97	0.00
115	Hexachlorobt	0.4255	0.4172	2.0	100	0.00
116	Naphthalen	3.1782	2.8135	11.5	84	0.00
117	1,2,3-Tclbenzene	1.1160	1.0244	8.2	93	0.00
118	2,4,5-Trichlorotoluene	0.6430	0.6872	-3.1	<del>-6.9</del> 96	0.00
119	2,3,6-Trichlorotoluene	0.5691	0.6308	-2.9	<del>-10.8</del> 98	0.00

(#) = Out of Range

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



Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8497.D  
 Acq On : 5 Oct 2017 11:44 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Oct 05 11:58:41 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.403	168	294393	50.00	ug/L	0.01	
41) 1,4-Difluorobenzene	6.494	114	426887	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.805	117	377620	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.853	152	198459	50.00	ug/L	0.00	
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.251	113	139997	52.21	ug/L	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	104.42%			
46) surr1,1,2-dichloroetha...	5.793	65	168781	52.23	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	104.46%			
64) SURR3,Toluene-d8	8.311	98	492537	48.63	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	97.26%			
69) SURR2,BFB	10.878	95	190555	46.39	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	92.78%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.166	85	189546	56.37	ug/L		100
3) Chloromethane	1.294	50	301257	49.64	ug/L		97
4) Vinyl Chloride	1.373	62	203088	49.13	ug/L		99
5) Bromomethane	1.599	94	91257	44.80	ug/L		98
6) Chloroethane	1.678	64	110692	41.27	ug/L		98
7) Freon 21	1.824	67	230047	42.30	ug/L		99
8) Trichlorofluoromethane	1.873	101	201063	51.44	ug/L		99
9) Diethyl Ether	2.105	59	150943	46.45	ug/L		94
10) Freon 123a	2.111	67	134756	39.97	ug/L		90
11) Freon 123	2.160	83	144889	40.04	ug/L		94
12) Acrolein	2.202	56	241052	243.23	ug/L		99
13) 1,1-Diclcethene	2.294	96	117231	48.50	ug/L		90
14) Freon 113	2.300	101	119463	49.95	ug/L		86
15) Acetone	2.337	43	89246	41.73	ug/L		97
16) 2-Propanol	2.471	45	279658	756.56	ug/L		98
17) Iodomethane	2.428	142	195874	48.52	ug/L		98
18) Carbon Disulfide	2.489	76	328607	46.73	ug/L		98
19) Acetonitrile	2.586	40	109303	239.28	ug/L		96
20) Allyl Chloride	2.629	76	51115	48.95	ug/L	#	78
21) Methyl Acetate	2.647	43	195498	32.15	ug/L		94
22) Methylene Chloride	2.745	84	126549	45.90	ug/L	#	81
23) TBA	2.873	59	342190	731.75	ug/L		82
24) Acrylonitrile	3.001	53	488048	233.22	ug/L		97
25) Methyl-t-Butyl Ether	3.050	73	357802	44.57	ug/L		99
26) trans-1,2-Dichloroethene	3.044	96	123994	47.06	ug/L		98
27) 1,1-Diclcethane	3.537	63	270567	48.66	ug/L		95
28) Vinyl Acetate	3.635	86	26987	50.22	ug/L	#	76
29) DIPE	3.666	45	768492	54.50	ug/L		98
30) 2-Chloro-1,3-Butadiene	3.666	53	283534	52.24	ug/L		91
31) ETBE	4.196	59	460612	48.92	ug/L		95
32) 2,2-Dichloropropane	4.379	77	139201	53.94	ug/L		93
33) cis-1,2-Dichloroethene	4.379	96	142766	46.83	ug/L		92
34) 2-Butanone	4.428	43	135696	44.41	ug/L		96
35) Propionitrile	4.501	54	180516	213.50	ug/L		94
36) Bromochloromethane	4.775	130	98895	49.31	ug/L		90
37) Methacrylonitrile	4.781	67	59474	38.15	ug/L	#	69
38) Tetrahydrofuran	4.867	42	74924	39.84	ug/L		90
39) Chloroform	4.958	83	217990	49.93	ug/L		96
40) 1,1,1-Trichloroethane	5.263	97	182217	53.66	ug/L		97



Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8497.D  
 Acq On : 5 Oct 2017 11:44 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Oct 05 11:58:41 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.342	41	181615	48.41	ug/L	99
44) Carbontetrachloride	5.537	117	156171	58.33	ug/L	98
45) 1,1-Dichloropropene	5.555	75	172566	48.64	ug/L	97
47) Benzene	5.872	78	480726	45.44	ug/L	92
48) 1,2-Dichloroethane	5.909	62	219497	51.90	ug/L	98
49) Iso-Butyl Alcohol	5.891	43	214815	825.15	ug/L	99
50) TAME	6.110	73	308808	45.66	ug/L	93
51) n-Heptane	6.360	43	307365	62.87	ug/L	90
52) 1-Butanol	6.854	56	274168	2178.61	ug/L	96
53) Trichloroethene	6.823	130	148844	50.90	ug/L	96
54) Methylcyclohexane	7.061	55	217780	45.96	ug/L	91
55) 1,2-Diclpropane	7.104	63	155100	45.20	ug/L	98
56) Dibromomethane	7.244	93	82197	46.37	ug/L	95
57) 1,4-Dioxane	7.305	88	37103	743.90	ug/L	88
58) Methyl Methacrylate	7.329	69	92499	43.86	ug/L #	75
59) Bromodichloromethane	7.470	83	159034	53.47	ug/L	98
60) 2-Nitropropane	7.756	41	70042	96.29	ug/L	89
61) 2-Chloroethylvinyl Ether	7.878	63	16748	14.15	ug/L	100
62) cis-1,3-Dichloropropene	8.018	75	190784	50.01	ug/L	99
63) 4-Methyl-2-pentanone	8.220	43	231221	46.87	ug/L	94
65) Toluene	8.384	91	533669	46.47	ug/L	98
66) trans-1,3-Dichloropropene	8.658	75	160983	57.27	ug/L	97
67) Ethyl Methacrylate	8.799	69	164079	45.10	ug/L #	79
68) 1,1,2-Trichloroethane	8.841	97	117742	46.87	ug/L	98
71) Tetrachloroethene	8.982	164	111400	49.83	ug/L	98
72) 2-Hexanone	9.134	43	173153	45.24	ug/L	89
73) 1,3-Dichloropropane	9.012	76	203910	45.40	ug/L	88
74) Dibromochloromethane	9.238	129	135813	55.13	ug/L	97
75) N-Butyl Acetate	9.292	43	351455	51.60	ug/L	94
76) 1,2-Dibromoethane	9.335	107	126727	49.40	ug/L	99
77) 3-Chlorobenzotrifluoride	9.853	180	203153	49.07	ug/L	98
78) Chlorobenzene	9.829	112	368492	47.13	ug/L	98
79) 4-Chlorobenzotrifluoride	9.902	180	183242	47.32	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.920	131	130598	59.54	ug/L	95
81) Ethylbenzene	9.951	106	191174	49.28	ug/L	97
82) (m+p)Xylene	10.061	106	481849	98.36	ug/L	100
83) o-Xylene	10.420	106	231982	47.15	ug/L	100
84) Styrene	10.432	104	398043	49.48	ug/L	98
85) Bromoform	10.585	173	83427	52.84	ug/L	96
86) 2-Chlorobenzotrifluoride	10.664	180	198433	48.33	ug/L	98
87) Isopropylbenzene	10.756	105	603002	50.12	ug/L	99
88) Cyclohexanone	10.817	55	643640	820.50	ug/L	98
89) trans-1,4-Dichloro-2-B...	11.067	53	40823	39.98	ug/L	91
91) 1,1,2,2-Tetrachloroethane	11.012	83	153641	42.39	ug/L	97
92) Bromobenzene	10.999	156	161548	48.10	ug/L	97
93) 1,2,3-Trichloropropane	11.042	110	47078	40.59	ug/L	99
94) n-Propylbenzene	11.109	91	664389	47.05	ug/L	99
95) 2-Chlorotoluene	11.176	91	402932	47.55	ug/L	96
96) 3-Chlorotoluene	11.225	91	419805	47.91	ug/L	98
97) 4-Chlorotoluene	11.268	91	460379	47.06	ug/L	97
98) 1,3,5-Trimethylbenzene	11.262	105	487483	49.37	ug/L	99
99) tert-Butylbenzene	11.536	119	430182	47.43	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	490318	46.98	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.633	214	146065	45.97	ug/L	98
102) sec-Butylbenzene	11.719	105	611173	47.00	ug/L	99
103) p-Isopropyltoluene	11.841	119	535366	48.62	ug/L	99

Data Path : I:\ACQUDATA\msvoa10\data\100517\  
 Data File : N8497.D  
 Acq On : 5 Oct 2017 11:44 am  
 Operator : F. NAEGLER  
 Sample : CCV Inst : MSVOA10  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 05 11:58:41 2017  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	306046	47.77	ug/L	99
105) 1,4-Dclbenz	11.871	146	305321	47.76	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.926	214	130036	44.30	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.969	214	149239	46.26	ug/L	95
108) n-Butylbenzene	12.176	91	467168	48.52	ug/L	98
109) 1,2-Dclbenz	12.176	146	295426	46.57	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	33079	44.78	ug/L	98
111) Trielution Dichlorotol...	12.914	125	806975	146.37	ug/L	97
112) 1,3,5-Trichlorobenzene	12.969	180	220531	46.91	ug/L	99
113) Coelution Dichlorotoluene	13.249	125	591337	97.99	ug/L	96
114) 1,2,4-Tcbenzene	13.456	180	212180	47.81	ug/L	99
115) Hexachlorobt	13.590	225	82800	49.02	ug/L	98
116) Naphthalen	13.645	128	558365	44.26	ug/L	100
117) 1,2,3-Tclbenzene	13.834	180	203297	45.89	ug/L	99
118) 2,4,5-Trichlorotoluene	14.420	159	136379	51.54	ug/L	100
119) 2,3,6-Trichlorotoluene	14.505	159	125195	51.47	ug/L	96

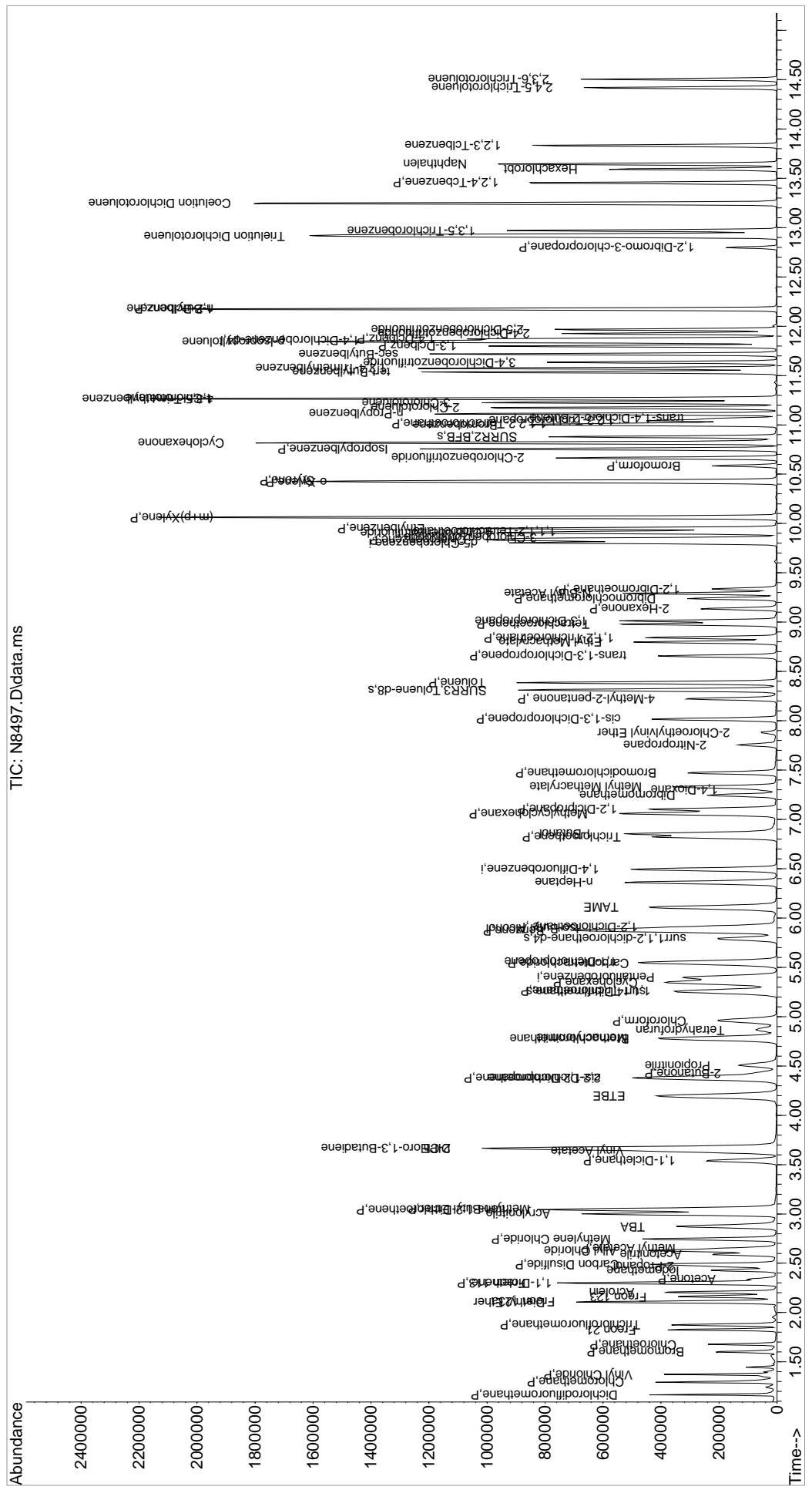
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

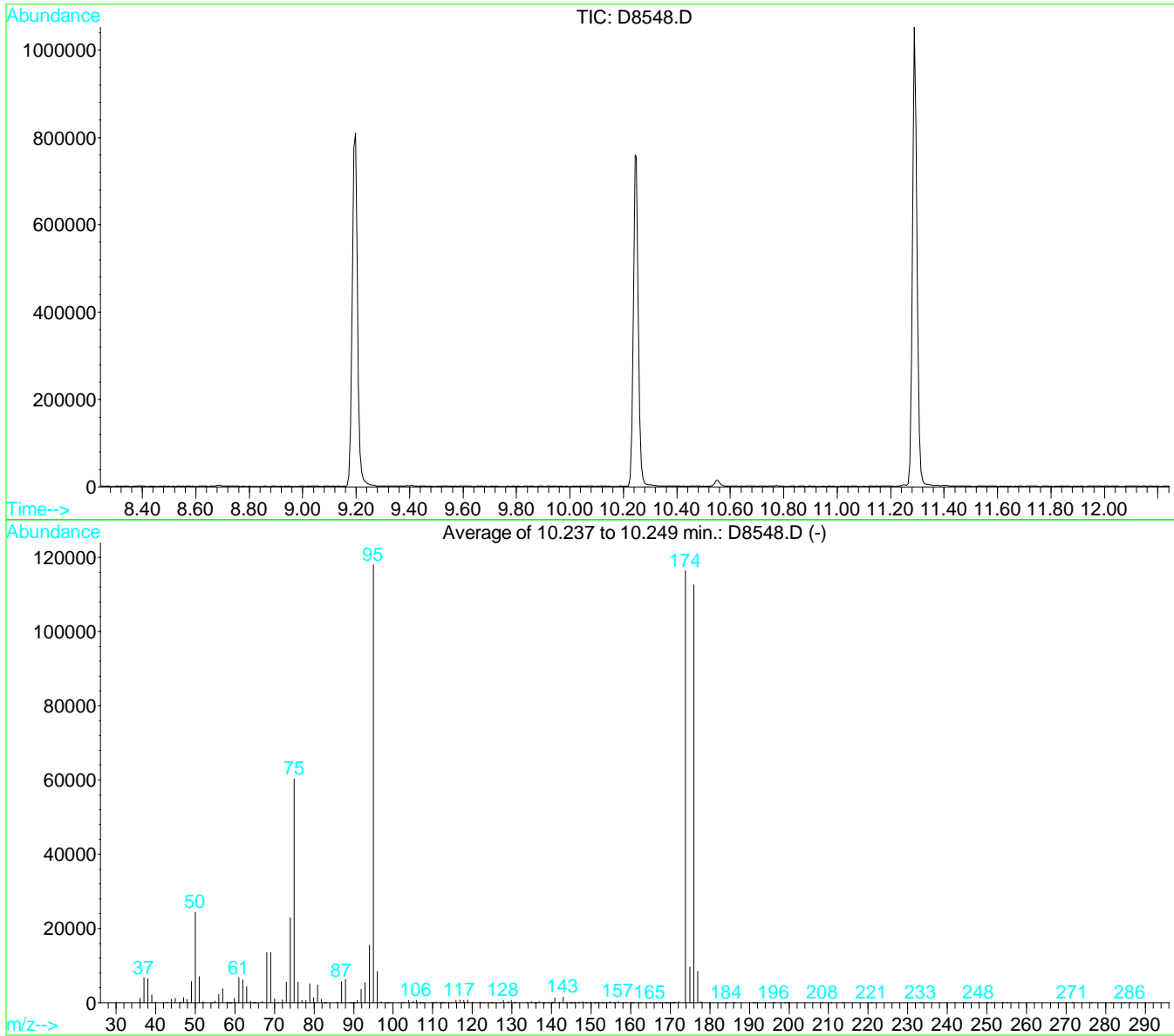
Data Path : I:\ACQDATA\msvoa10\data\100517\  
Data File : N8497.D  
Acq On : 5 Oct 2017 11:44 am  
Operator : F. NAEGLER  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Oct 05 11:58:41 2017  
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 16:00:37 2017  
Response via : Initial Calibration



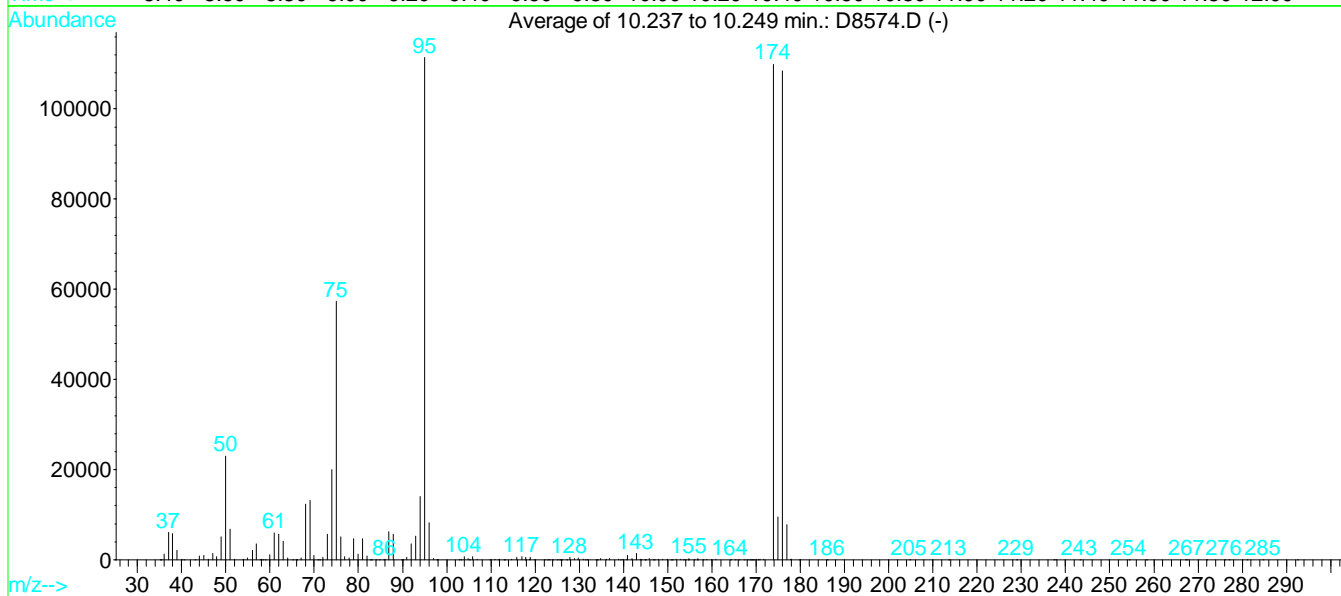
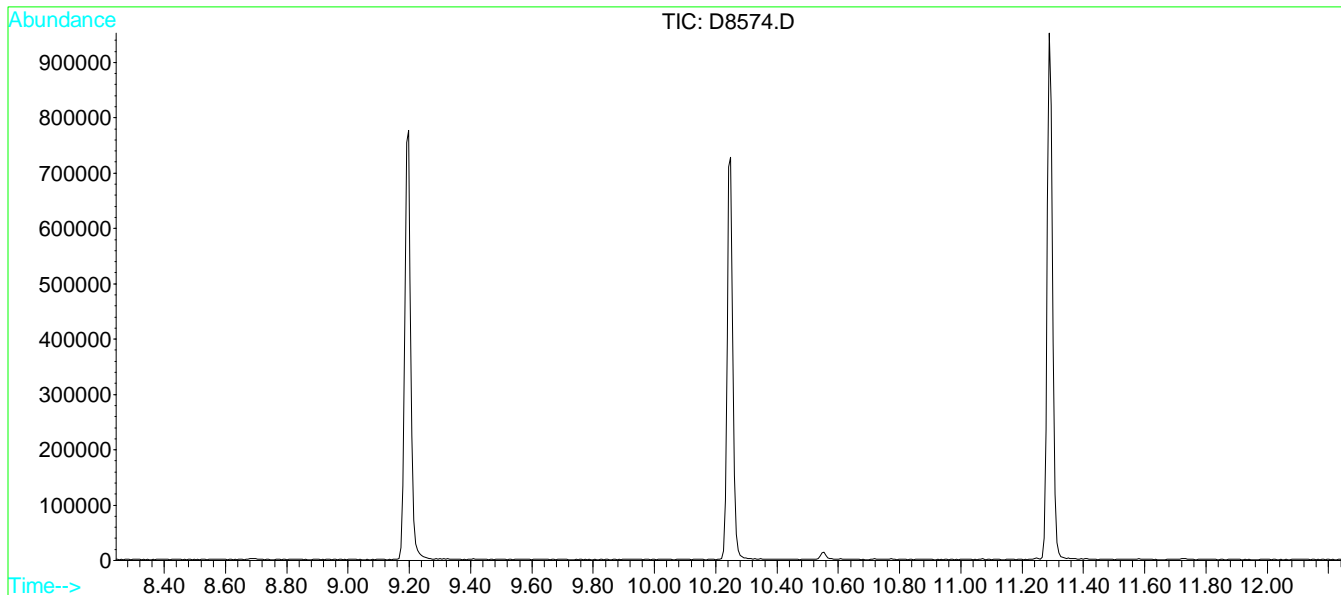
Data File : I:\ACQUDATA\MSVOA6\DATA\100217\D8548.D Vial: 2  
 Acq On : 2 Oct 2017 9:09 am Operator: B.ALLGEIER  
 Sample : TUNE Inst : MS#6  
 Misc : Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS



AutoFind: Scans 1509, 1510, 1511; Background Corrected with Scan 1504

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	24395	PASS
75	95	30	60	51.1	60355	PASS
95	95	100	100	100.0	117997	PASS
96	95	5	9	7.2	8456	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.6	116331	PASS
175	174	5	9	8.2	9565	PASS
176	174	95	101	96.9	112669	PASS
177	176	5	9	7.4	8364	PASS

Data File : I:\ACQUDATA\MSVOA6\DATA\100317\D8574.D Vial: 2  
 Acq On : 3 Oct 2017 9:29 am Operator: B.ALLGEIER  
 Sample : tune Inst : MS#6  
 Misc : Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS



AutoFind: Scans 1509, 1510, 1511; Background Corrected with Scan 1503

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	23029	PASS
75	95	30	60	51.5	57333	PASS
95	95	100	100	100.0	111389	PASS
96	95	5	9	7.4	8262	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.7	109907	PASS
175	174	5	9	8.7	9509	PASS
176	174	95	101	98.6	108413	PASS
177	176	5	9	7.2	7782	PASS

Tune File : I:\ACQUDATA\msvoa10\data\100517\N8496.D  
Tune Time : 5 Oct 2017 11:07 am

Daily Calibration File : I:\ACQUDATA\msvoa10\data\100517\N8497.D

294393 426887 377620  
198459

File	Sample	Surrogate Recovery %				Internal	Standard	Responses
=====								
N8498.D	LCS	100	105	96	94	286836	415098	367642
		195749						
-----								
N8500.D	MBLK	100	105	97	91	286068	416814	373346
		182412						
-----								
N8501.D	R1709175-0	102	107	96	91	292057	426798	376005
		191482						
-----								
N8503.D	R1709265-0	101	108	98	90	298138	425934	374753
		183826						
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N8504.D	R1709265-0	101	107	99	92	298977	439886	386024
		189069						
-----								
N8505.D	R1709265-0	99	106	97	92	295687	437773	385539
		188471						
-----								
N8506.D	R1709265-0	102	107	97	92	295033	432043	384834
		197042						
-----								
N8507.D	R1709265-0	102	108	99	96	290954	418324	379558
		193758						
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N8508.D	R1709205-0	99	105	96	89	309278	452548	398106
		192104						
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N8509.D	R1709208-0	98	106	97	90	277246	403546	357769
		183651						
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N8510.D	R1709208-0	97	104	96	91	295447	429877	383285
		191008						
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N8511.D	R1709208-0	98	106	98	93	265657	392486	348228
		179439						
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N8512.D	R1709208-0	101	107	97	90	287544	421323	367217
		184856						
-----								
N8513.D								

R1709208-0 100 107 96 91 282570 418213 374262  
184662

1st *FJ* 10/13/17  
2nd *RL* 10/13/17

N8514.D  
R1709208-0 102 110 101 92 293006 434894 382669  
191609

N8517.D  
R1709321-0 99 108 98 93 288453 425850 377735  
193640

N8518.D  
R1709321-0 99 106 98 91 298882 440402 392907  
200171

N8519.D  
R1709321-0 99 105 97 92 280008 420319 369421  
190654

N8520.D  
R1709321-0 99 106 97 92 288962 426341 375298  
189921

N8521.D  
R1709321-0 104 107 98 92 288665 419470 374317  
193031

N8522.D  
R1709321-0 100 106 96 94 297988 438376 387209  
197076

N8523.D  
R1709321-0 102 105 96 92 290379 422651 377525  
196838

N8524.D  
R1709321-0 103 107 99 96 284488 406996 364232  
196046

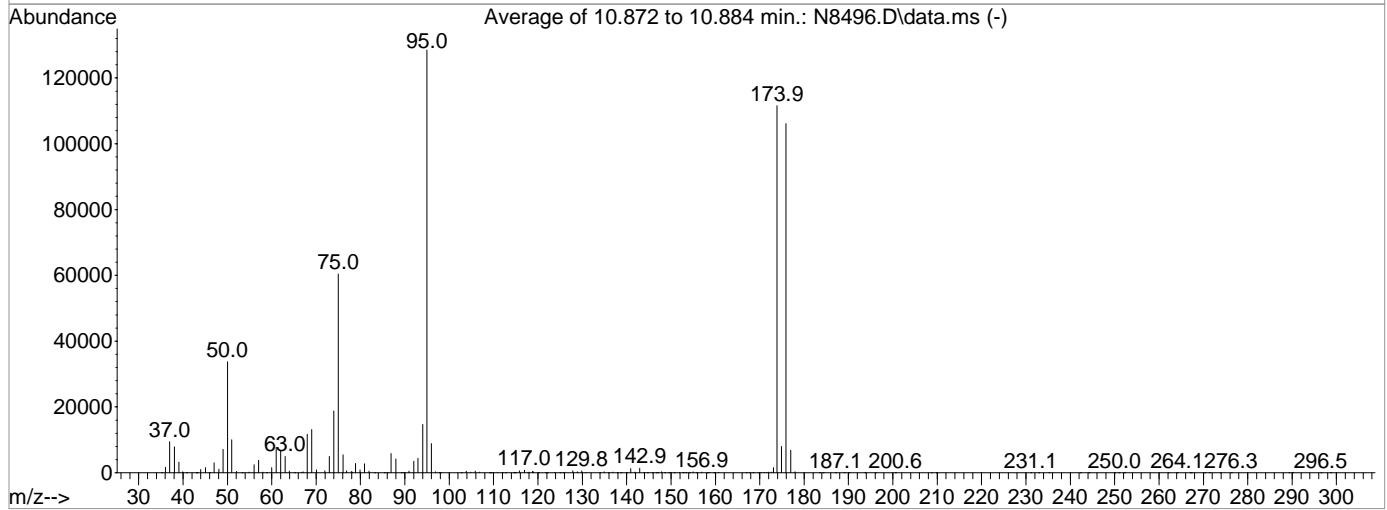
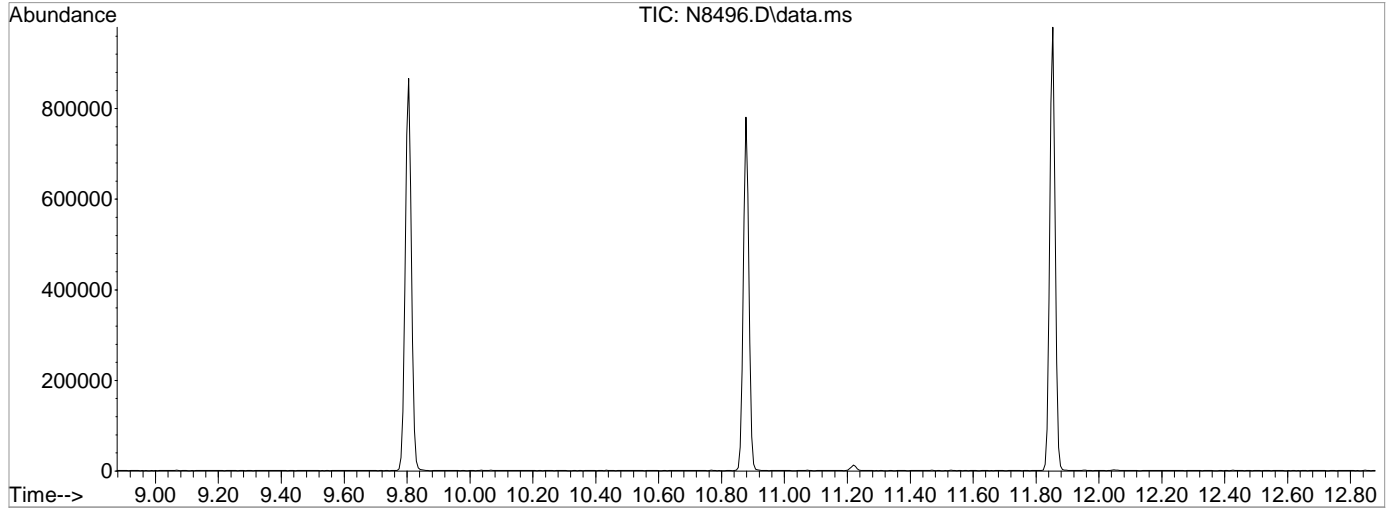
(fails) - fails 12hr time check \* - fails criteria

Created: Fri Oct 13 10:37:37 2017 MSVOA10

Data Path : I:\ACQUDATA\msvoa10\data\100517\  
Data File : N8496.D  
Acq On : 5 Oct 2017 11:07 am  
Operator : F. NAEGLER  
Sample : TUNE  
Misc :  
ALS Vial : 3 Sample Multiplier: 1  
Inst : MSVOA10

Integration File: RTEINT.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W082317.M  
Title : MS#10 - 8260B WATERS 10mL Purge  
Last Update : Thu Aug 24 16:00:37 2017



AutoFind: Scans 1605, 1606, 1607; Background Corrected with Scan 1598

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.3	33797	PASS
75	95	30	60	47.0	60437	PASS
95	95	100	100	100.0	128496	PASS
96	95	5	9	6.9	8832	PASS
173	174	0.00	2	1.4	1611	PASS
174	95	50	120	86.9	111605	PASS
175	174	5	9	7.2	8005	PASS
176	174	95	101	95.1	106182	PASS
177	176	5	9	6.5	6852	PASS



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
 Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
 Sample : ICV Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:41 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	285076	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	366306	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	169982	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	206519	50.00	ug/L	0.00

## System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	136555	51.98	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	103.96%
43) surr1,1,2-dichloroethane-d	4.47	65	147002	51.66	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	103.32%
65) SURRE3,Toluene-d8	7.89	98	408551	55.08	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	110.16%
86) SURRE2,BFB	10.25	95	172525	54.19	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	108.38%

## Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.12	85	201762	47.45	ug/L	100
3) Chloromethane	1.19	50	134831	47.76	ug/L	99
4) Vinyl Chloride	1.27	62	200602	57.63	ug/L	99
5) Bromomethane	1.44	94	108747	51.84	ug/L	99
6) Chloroethane	1.51	64	80057	46.95	ug/L	97
7) Freon 21	1.53	67	240776	46.52	ug/L	96
8) Freon 123	1.71	83	154694	48.13	ug/L	99
9) Freon 123a	1.74	67	120904m	47.34	ug/L	
10) Acrolein	1.79	56	28498	126.32	ug/L	98
11) Trichlorofluoromethane	1.79	101	194008	49.88	ug/L	96
12) Acetonitrile	1.80	41	37957m	244.64	ug/L	
13) 2-Propanol	1.83	45	96570	905.08	ug/L	95
14) Acetone	1.86	43	30433	57.03	ug/L	95
15) Diethyl Ether	1.94	59	62085	45.19	ug/L	97
16) 1,1-Dicethene	2.10	96	90681	46.16	ug/L	99
17) Iodomethane	2.11	142	148347	46.48	ug/L	99
18) TBA	2.13	59	183011m	1001.07	ug/L	
19) Acrylonitrile	2.14	53	142645	241.29	ug/L	92
20) Methylene Chloride	2.20	84	102772	49.25	ug/L	99
21) Freon 113	2.25	101	104763	46.69	ug/L	96
22) Methyl Acetate	2.25	43	63148	35.89	ug/L	95
23) Allyl Chloride	2.26	76	44976	55.61	ug/L	89
24) Carbon Disulfide	2.31	76	285973	47.60	ug/L	99
25) trans-1,2-Dichloroethene	2.69	96	97985	46.82	ug/L	99
26) Methyl-t-Butyl Ether	2.81	73	261547	48.63	ug/L	99
27) 1,1-Dicethane	2.90	63	159460	50.22	ug/L	99
28) Propionitrile	2.92	54	55345	259.78	ug/L	98
29) Vinyl Acetate	3.09	43	186362	49.40	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.26	53	151942	54.12	ug/L	94
31) 2-Butanone	3.35	43	35654	49.79	ug/L	93
32) Methacrylonitrile	3.45	67	35996	51.84	ug/L	88
33) cis-1,2-Dichloroethene	3.47	96	112189	50.20	ug/L	100
34) Bromochloromethane	3.64	128	58865	46.43	ug/L	96
35) Chloroform	3.72	83	187766	49.33	ug/L	96
36) 2,2-Dichloropropane	3.79	77	165947	47.81	ug/L	97
37) Ethyl Acetate	3.82	43	75319	50.29	ug/L	98
38) Tetrahydrofuran	4.13	42	20600	47.94	ug/L	92
39) 1,1,1-Trichloroethane	4.72	97	178866	48.40	ug/L	94
42) Iso-Butyl Alcohol	3.96	42	42059	1026.67	ug/L	95

(#) = qualifier out of range (m) = manual integration  
 D7735.D W082417.M Fri Aug 25 11:41:36 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
 Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
 Sample : ICV Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:41 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-Dichloroethane	4.59	64	45955	45.79	ug/L	96
45) 2-Methyl-1,3-Dioxolane	4.81	73	57602	237.16	ug/L	92
46) 1,1-Dichloropropene	5.08	75	128827	48.55	ug/L	96
47) Cyclohexane	5.16	56	125009	45.87	ug/L	90
48) Carbontetrachloride	5.31	119	155252	52.64	ug/L	97
49) Benzene	5.40	78	338905	47.20	ug/L	99
50) Isopropyl Acetate	5.40	43	172918	48.80	ug/L	95
51) Dibromomethane	6.17	93	71838	47.33	ug/L	99
52) 1,2-Dicloropropane	6.24	63	89645	48.88	ug/L	100
53) n-Heptane	6.35	43	100038	49.83	ug/L	96
54) Trichloroethene	6.32	130	119931	50.49	ug/L	98
55) Bromodichloromethane	6.37	83	148062	52.14	ug/L	99
56) 1,4-Dioxane	6.58	88	18783m	1021.49	ug/L	
57) Epichlorohydrin	6.74	57	37699	257.15	ug/L	92
58) Methyl Methacrylate	6.75	69	60508	48.88	ug/L	94
59) Methylcyclohexane	6.90	55	102662	48.53	ug/L	97
60) 2-Chloroethylvinyl Ether	7.02	63	55206	48.01	ug/L	96
61) cis-1,3-Dichloropropene	7.18	75	157727	49.63	ug/L	98
62) 4-Methyl-2-pentanone	7.37	43	80715	49.08	ug/L	99
63) trans-1,3-Dichloropropene	7.66	75	149036	49.92	ug/L	98
64) 1,1,2-Trichloroethane	7.77	97	93922	51.98	ug/L	98
66) Toluene	7.96	91	389190	47.75	ug/L	100
68) 1,3-Dichloropropane	8.01	76	132016	46.39	ug/L	98
69) Ethyl Methacrylate	8.20	69	115322	50.20	ug/L	97
70) Dibromochloromethane	8.21	129	124021	53.06	ug/L	100
71) 2-Hexanone	8.26	43	59224	51.63	ug/L	99
72) 1,2-Dibromoethane	8.43	107	109573	53.39	ug/L	98
73) n-Butyl Acetate	8.63	43	136536	52.03	ug/L	99
74) Tetrachloroethene	8.63	164	104098	51.29	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.16	131	114789	54.12	ug/L	96
76) Chlorobenzene	9.22	112	269902	50.25	ug/L	99
77) Ethylbenzene	9.44	106	149011	52.61	ug/L	99
78) Bromoform	9.61	173	91667	58.26	ug/L	98
79) (m+p)Xylene	9.61	106	363187	102.44	ug/L	99
80) o-Xylene	9.94	106	179085	52.50	ug/L	98
81) Cyclohexanone	9.84	55	65597	1004.30	ug/L	92
82) Styrene	9.88	104	283650	52.03	ug/L	99
83) Amyl Acetate	9.99	43	189335	52.91	ug/L	99
84) trans-1,4-Dichloro-2-Buten	10.11	75	42542	53.63	ug/L	92
85) Isopropylbenzene	10.25	105	434556	49.93	ug/L	100
88) 1,1,2,2-Tetrachloroethane	9.92	83	125941	51.05	ug/L	98
89) 1,2,3-Trichloropropane	10.04	75	88133	47.33	ug/L	99
90) Bromobenzene	10.39	156	146478	47.84	ug/L	99
91) n-Propylbenzene	10.61	91	485039	44.31	ug/L	99
92) 2-Chlorotoluene	10.65	91	292854	45.99	ug/L	98
93) 4-Chlorotoluene	10.71	91	319127	46.61	ug/L	100
94) 1,3,5-Trimethylbenzene	10.87	105	360104	47.40	ug/L	99
95) tert-Butylbenzene	11.07	119	307898	46.61	ug/L	99
96) 1,2,4-Trimethylbenzene	11.17	105	380012	46.66	ug/L	99
97) sec-Butylbenzene	11.24	105	451282	47.92	ug/L	99
98) 1,3-Dclbenz	11.26	146	259984	49.94	ug/L	100
99) 1,4-Dclbenz	11.31	146	259253	49.14	ug/L	99
100) p-Isopropyltoluene	11.41	119	393884	50.74	ug/L	99
101) 1,2-Dclbenz	11.58	146	240995	46.27	ug/L	99

(#) = qualifier out of range (m) = manual integration  
 D7735.D W082417.M Fri Aug 25 11:41:37 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
 Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
 Sample : ICV Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:41 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

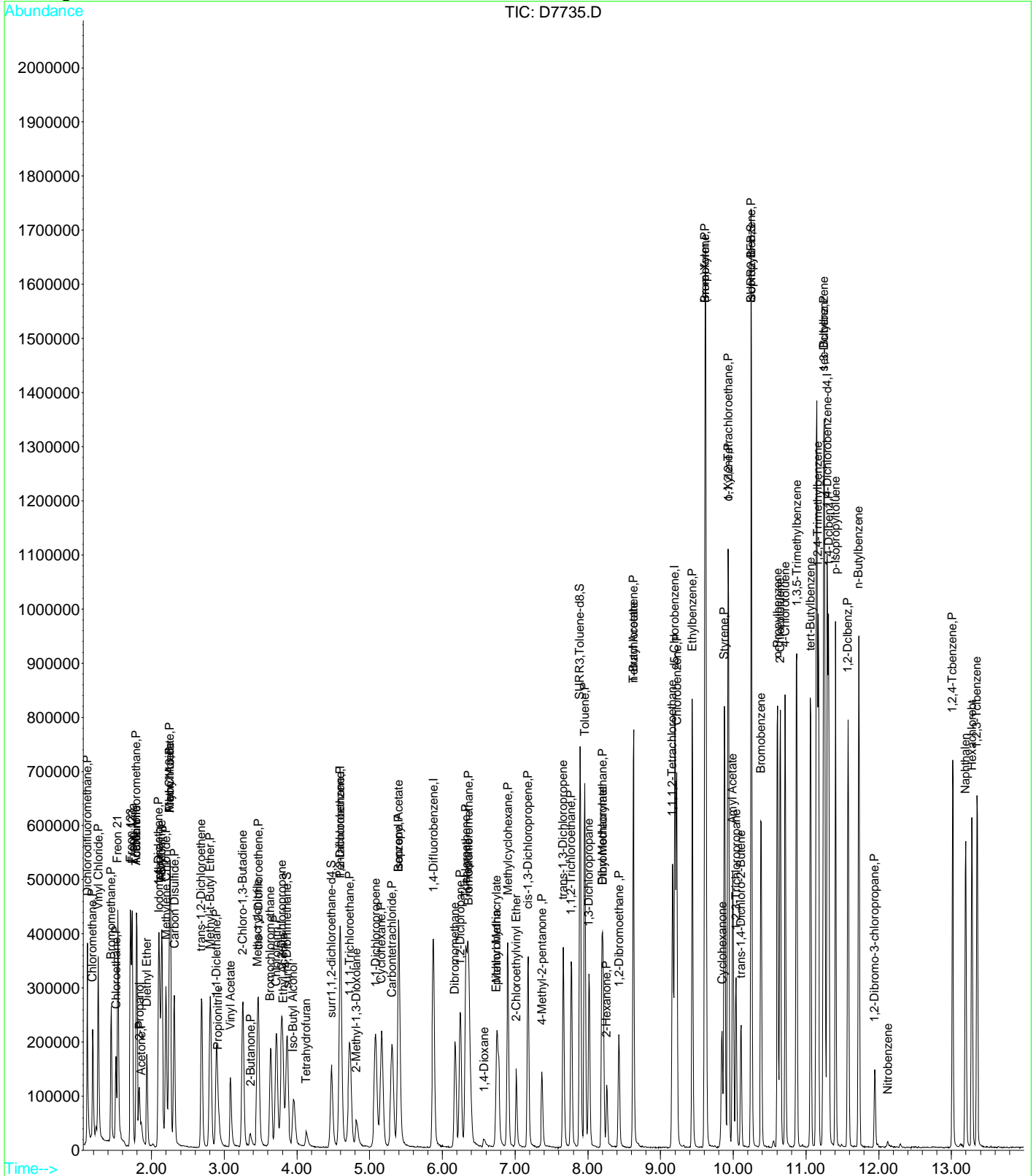
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.72	91	361184	50.49	ug/L	99
103) 1,2-Dibromo-3-chloropropan	11.94	75	23870	52.54	ug/L	96
104) Nitrobenzene	12.13	77	2801m	87.28	ug/L	
105) 1,2,4-Tcbenzene	13.01	180	175423	48.90	ug/L	98
106) Naphthalen	13.20	128	336803	49.65	ug/L	100
107) Hexachlorobt	13.28	225	87384	49.72	ug/L	99
108) 1,2,3-Tclbenzene	13.36	180	157845	51.13	ug/L	100

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D  
Acq On : 24 Aug 2017 4:05 pm  
Sample : ICV  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:41 2017

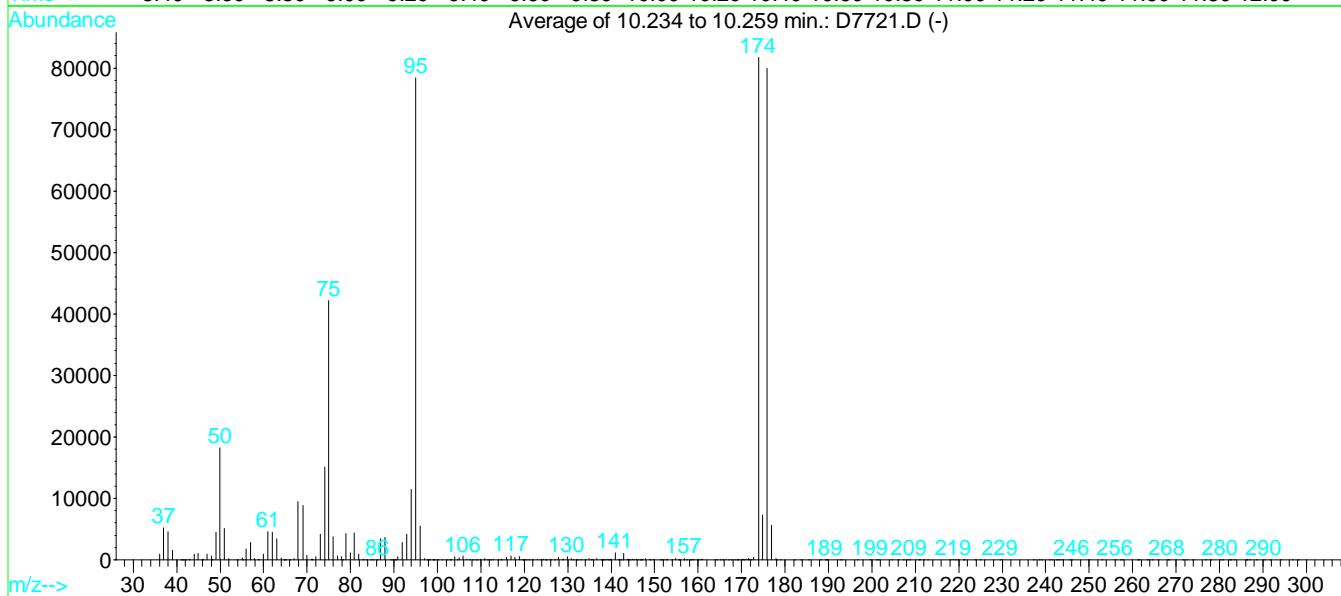
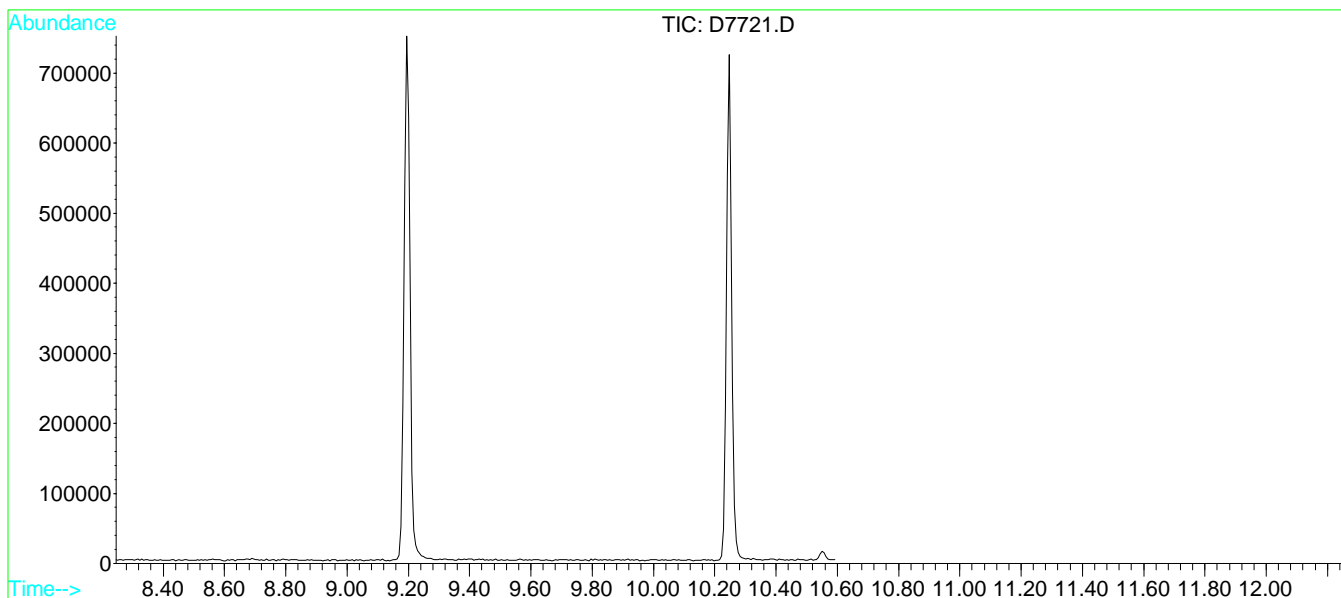
Vial: 18  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7721.D Vial: 4  
 Acq On : 24 Aug 2017 8:37 am Operator: D.Lipani  
 Sample : TUNE CHECK Inst : MS#6  
 Misc : 8260C / 624 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Method : I:\ACQUDATA\MSVOA6\METHODS\W041117.M (RTE Integrator)  
 Title : 8260C / 624 WATERS



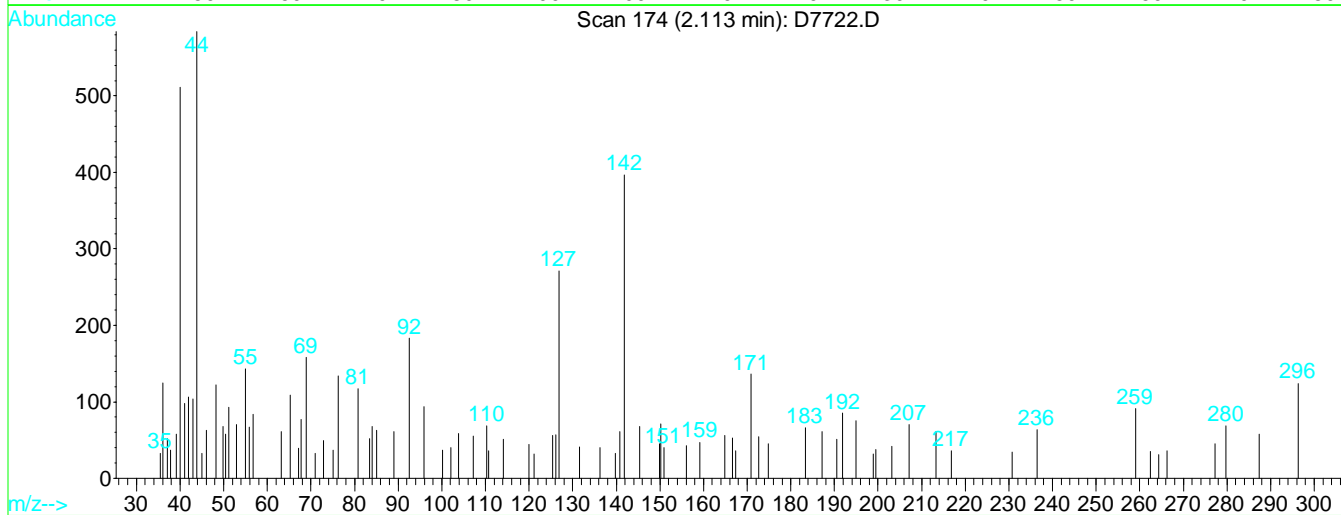
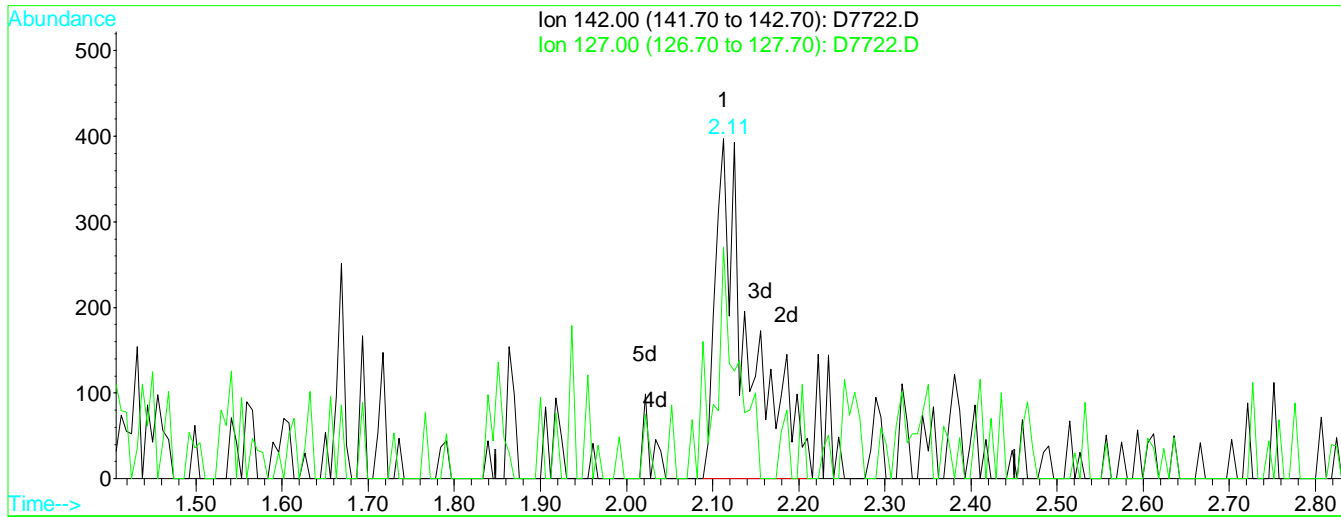
Spectrum Information: Average of 10.234 to 10.259 min.

Sub Scan = 1205

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	18244	PASS
75	95	30	60	53.7	42131	PASS
95	95	100	100	100.0	78433	PASS
96	95	5	9	7.1	5547	PASS
173	174	0.00	2	0.5	372	PASS
174	95	50	120	104.2	81707	PASS
175	174	5	9	9.0	7335	PASS
176	174	95	101	97.8	79938	PASS
177	176	5	9	7.0	5605	PASS

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7722.D Vial: 5  
 Acq On : 24 Aug 2017 9:07 am Operator: D.Lipani  
 Sample : INST BLK Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 13:33 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Multiple Level Calibration



TIC: D7722.D

(17) Iodomethane

2.11min 0.36ug/L m

response 1071

Ion Exp% Act%

142.00 100 100

127.00 48.60 68.26

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

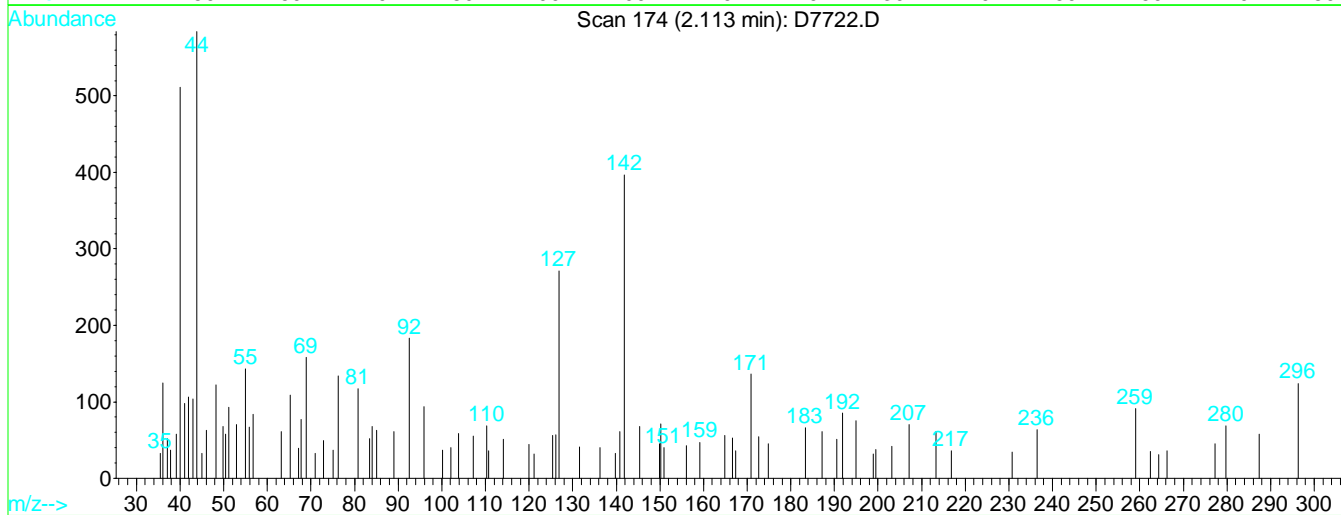
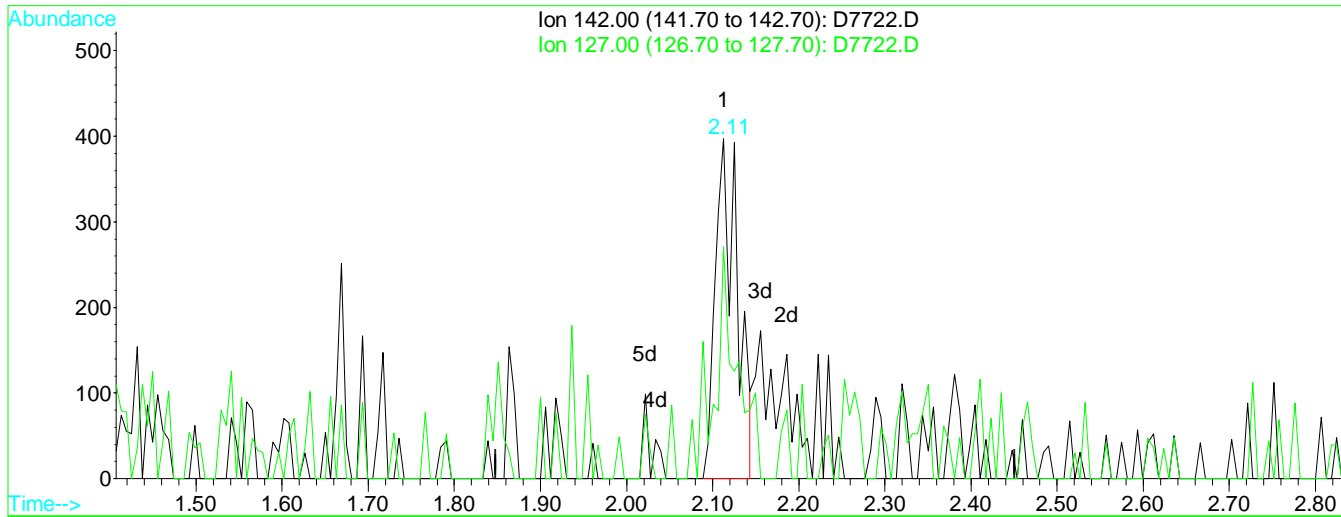
After

Split Peak.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7722.D Vial: 5  
 Acq On : 24 Aug 2017 9:07 am Operator: D.Lipani  
 Sample : INST BLK Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 13:32 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Multiple Level Calibration



TIC: D7722.D

(17) Iodomethane			Manual Integration:
2.11min 0.24ug/L			Before
response 700			
Ion	Exp%	Act%	08/25/17
142.00	100	100	
127.00	48.60	68.26	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7722.D Vial: 5  
 Acq On : 24 Aug 2017 9:07 am Operator: D.Lipani  
 Sample : INST BLK Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 13:35 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	265908	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	352263	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	161327	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	181537	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	129063	51.08	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	102.16%
43) surr1,1,2-dichloroethane-d	4.47	65	138603	50.65	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	101.30%
65) SURRE3,Toluene-d8	7.89	98	379301	53.18	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	106.36%
86) SURRE2,BFB	10.25	95	156742	51.87	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	103.74%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
17) Iodomethane	2.11	142	1071m	0.36	ug/L	
38) Tetrahydrofuran	4.13	42	200	0.50	ug/L #	35

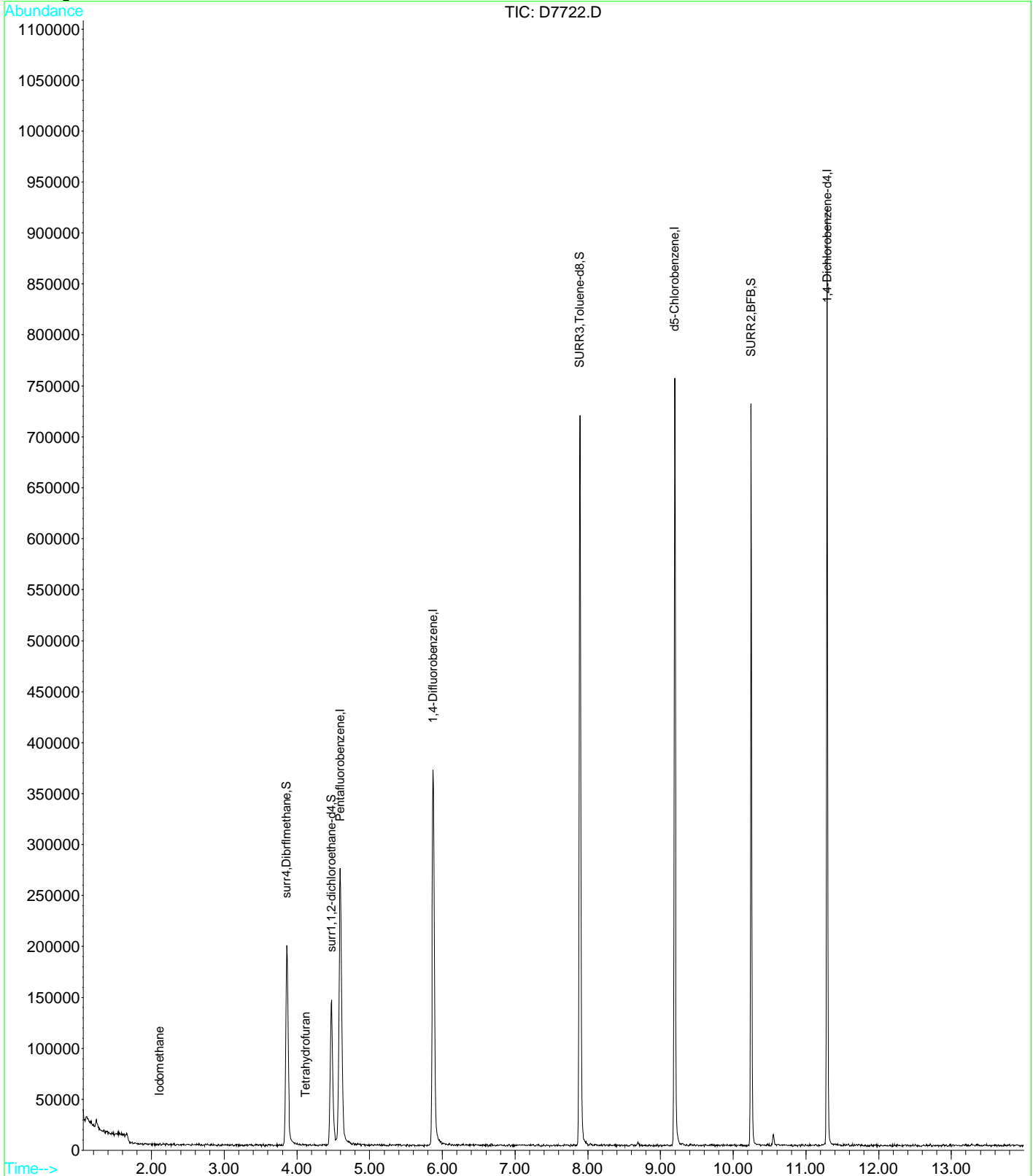


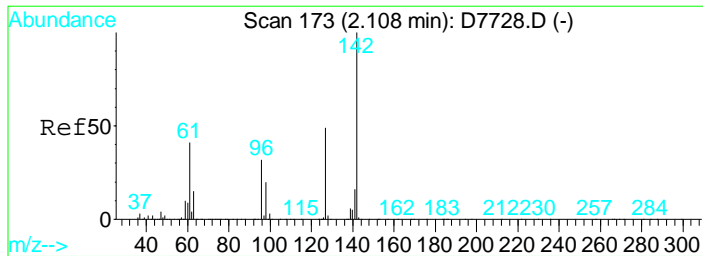
Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7722.D  
Acq On : 24 Aug 2017 9:07 am  
Sample : INST BLK  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 13:35 2017

Vial: 5  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

Quant Results File: W082417.RES

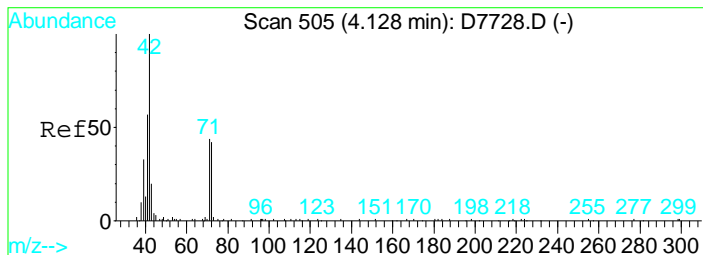
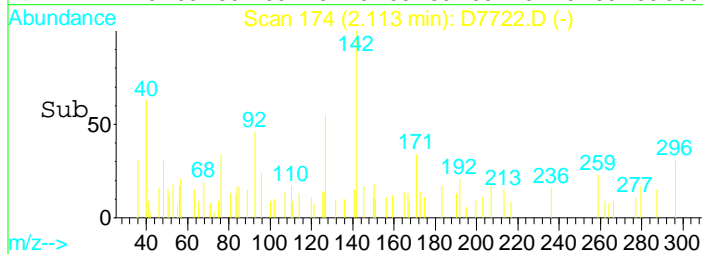
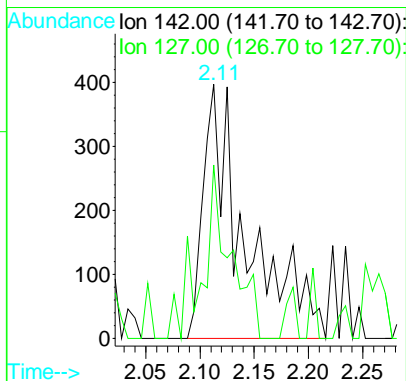
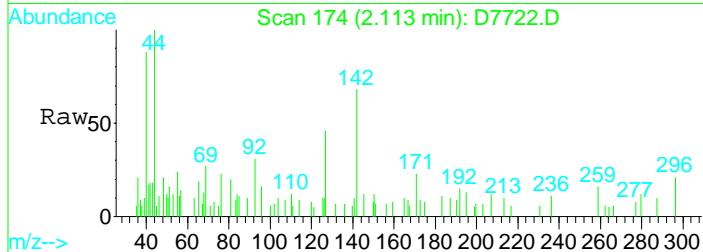
Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Initial Calibration





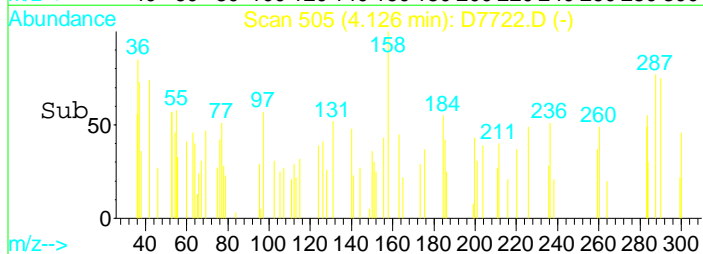
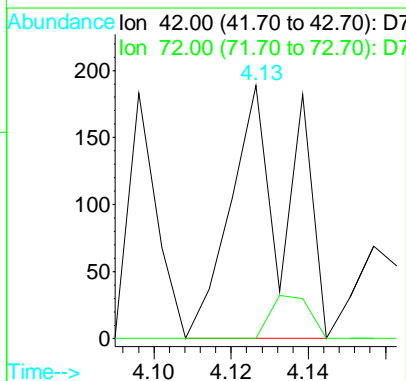
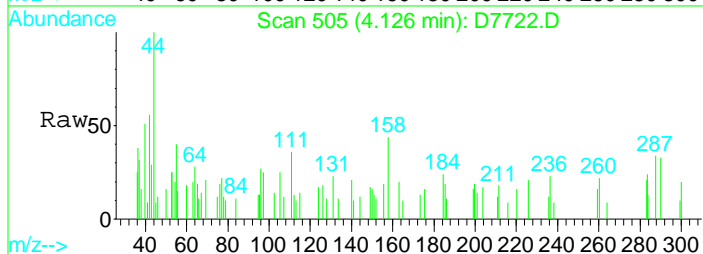
#17  
 Iodomethane  
 Concen: 0.36 ug/L m  
 RT: 2.11 min Scan# 174  
 Delta R.T. 0.00 min  
 Lab File: D7722.D  
 Acq: 24 Aug 2017 9:07 am

Tgt Ion	Resp	Lower	Upper
142	1071		
127	68.3	28.6	68.6



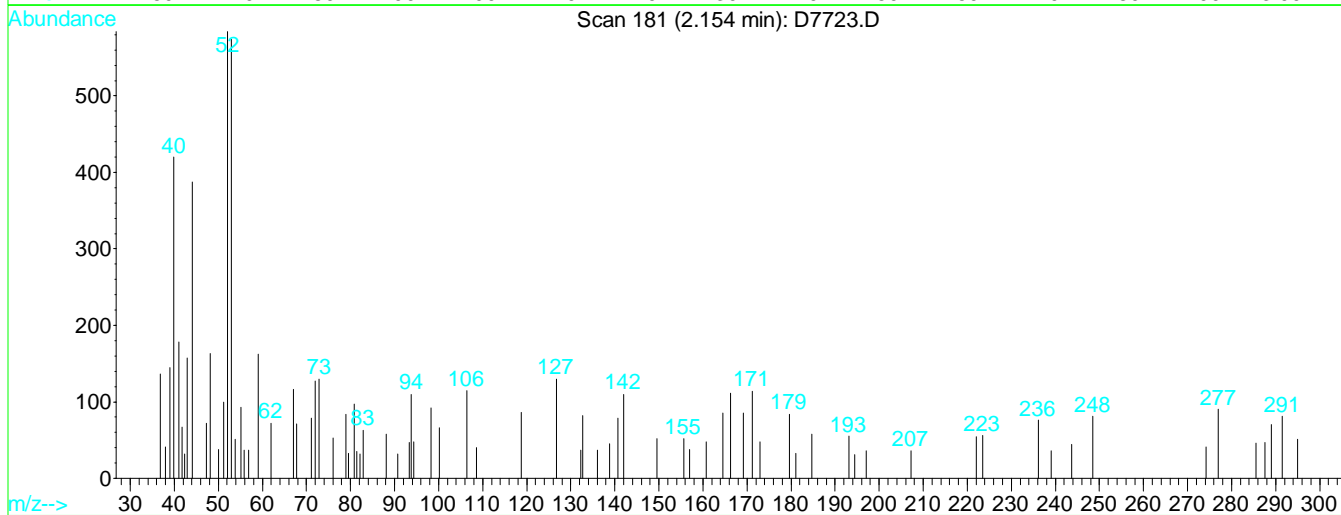
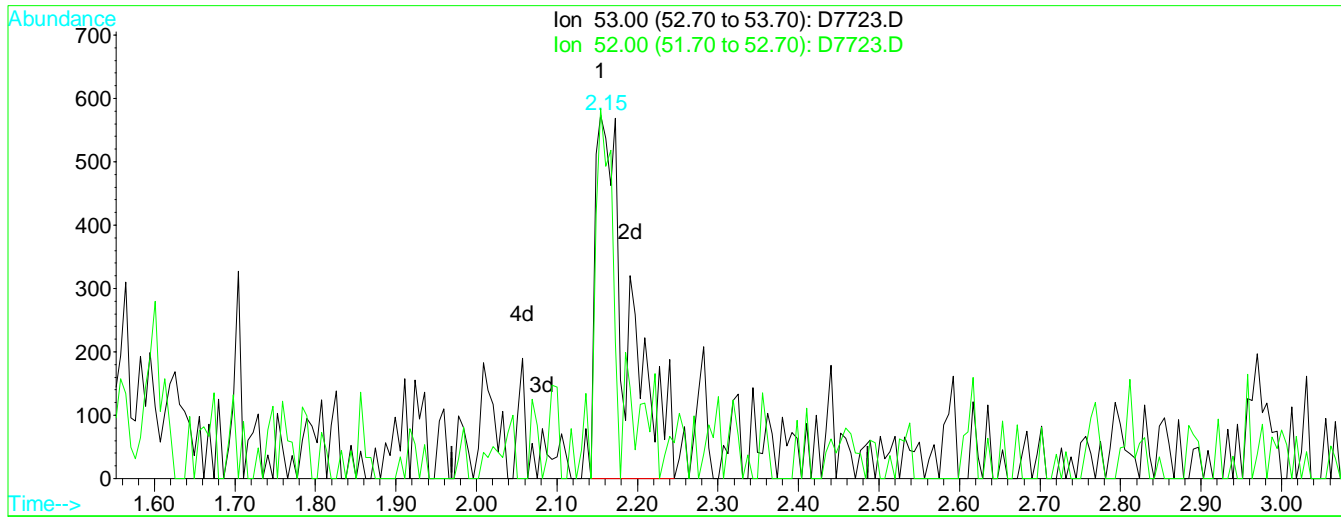
#38  
 Tetrahydrofuran  
 Concen: 0.50 ug/L  
 RT: 4.13 min Scan# 505  
 Delta R.T. -0.00 min  
 Lab File: D7722.D  
 Acq: 24 Aug 2017 9:07 am

Tgt Ion	Resp	Lower	Upper
42	200		
72	0.0	20.5	60.5#



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
 Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
 Sample : STD #1 - 0.5 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 8:53 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:40:01 2017  
 Response via : Multiple Level Calibration



TIC: D7723.D

(19) Acrylonitrile

Manual Integration:

2.15min 2.95ug/L m

After

response 1626

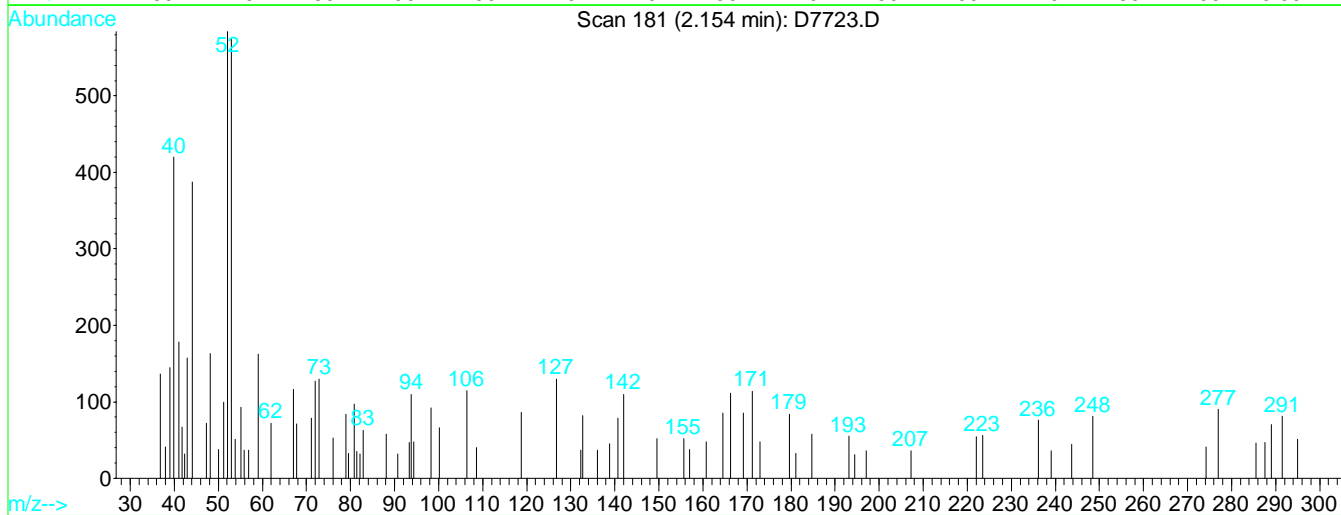
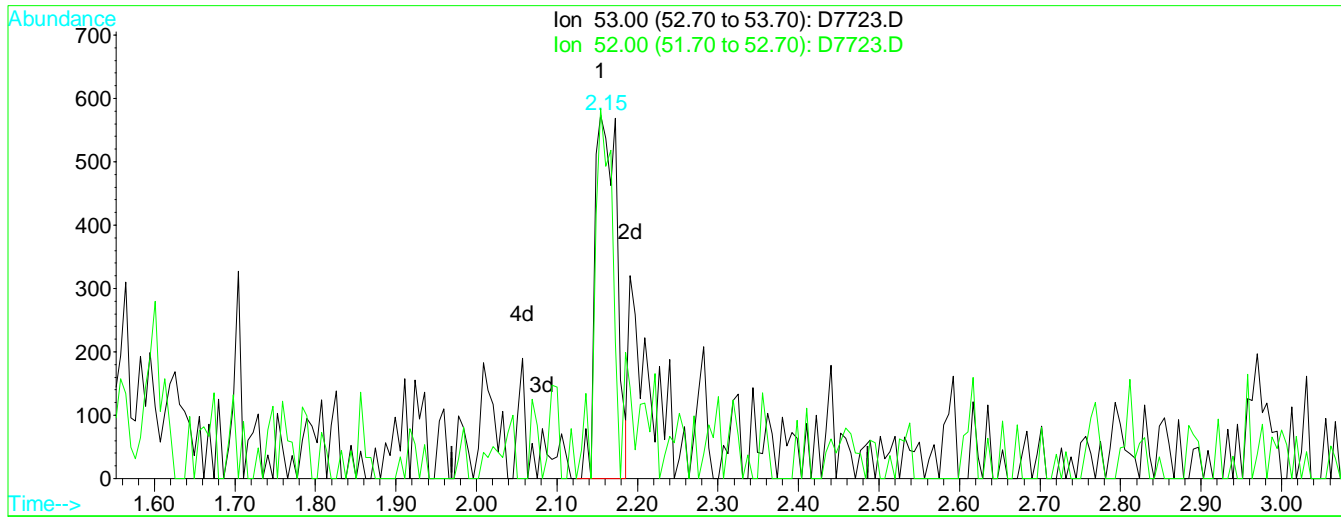
Split Peak.

Ion	Exp%	Act%
53.00	100	100
52.00	83.80	101.74
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 8:53 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(19) Acrylonitrile  
2.15min 1.98ug/L  
response 1089

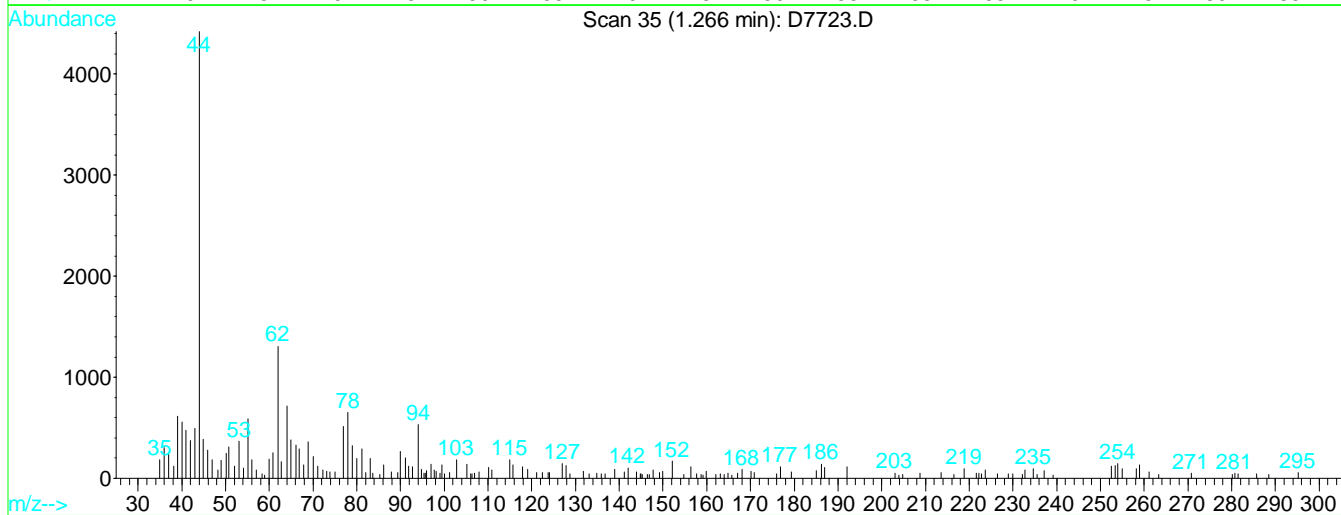
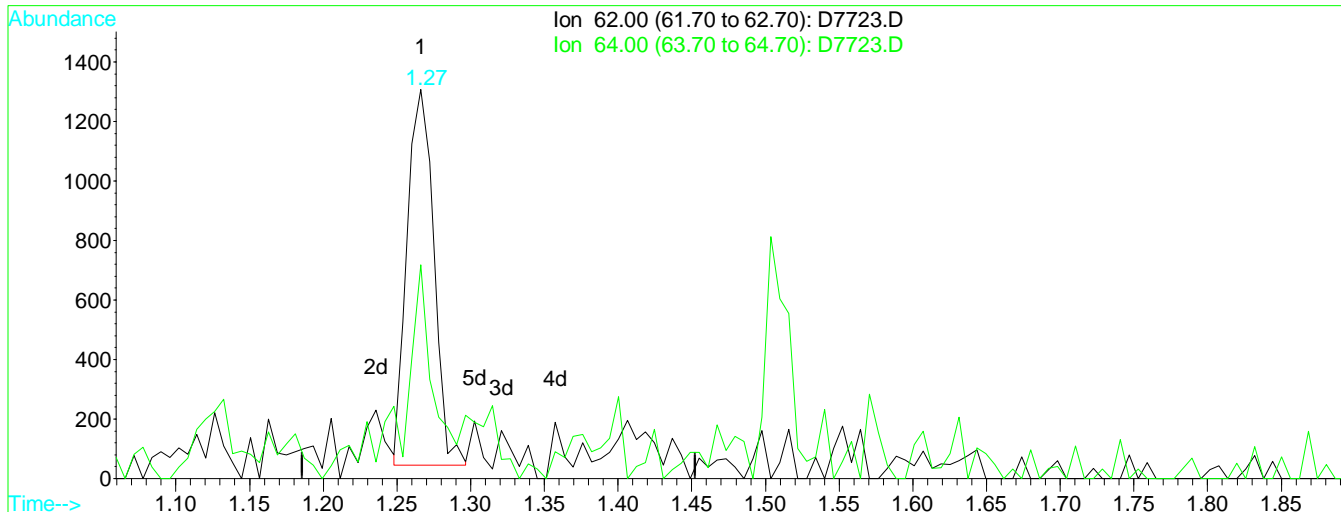
Manual Integration:  
Before

Ion	Exp%	Act%
53.00	100	100
52.00	83.80	101.74
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
 Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
 Sample : STD #1 - 0.5 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:02 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:40:01 2017  
 Response via : Multiple Level Calibration



TIC: D7723.D

(4) Vinyl Chloride (P)

Manual Integration:

1.27min 0.49ug/L m

After

response 1595

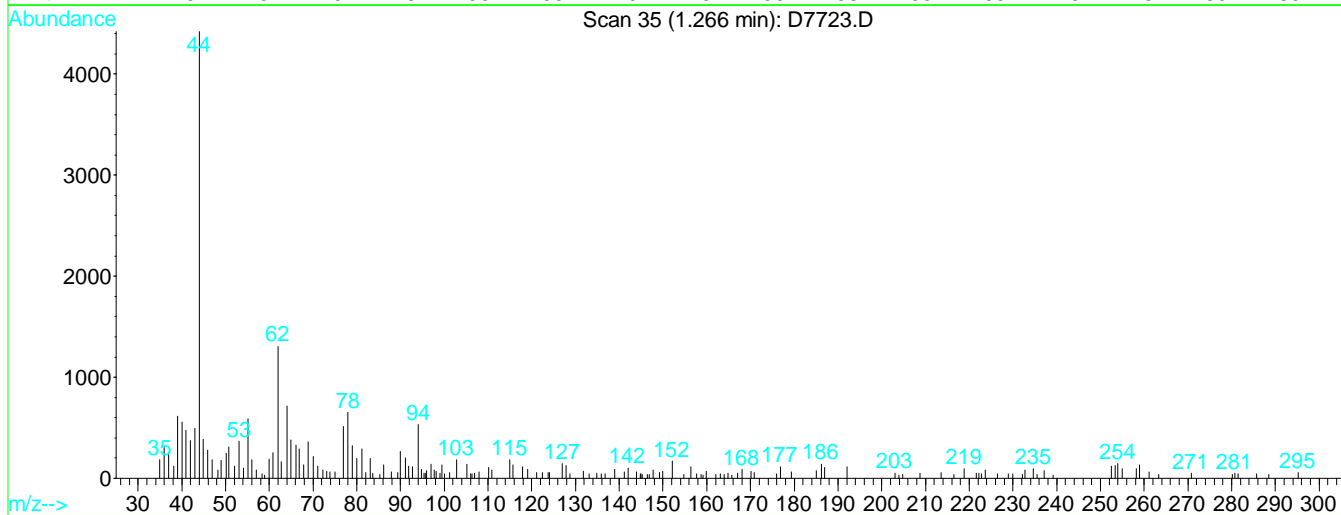
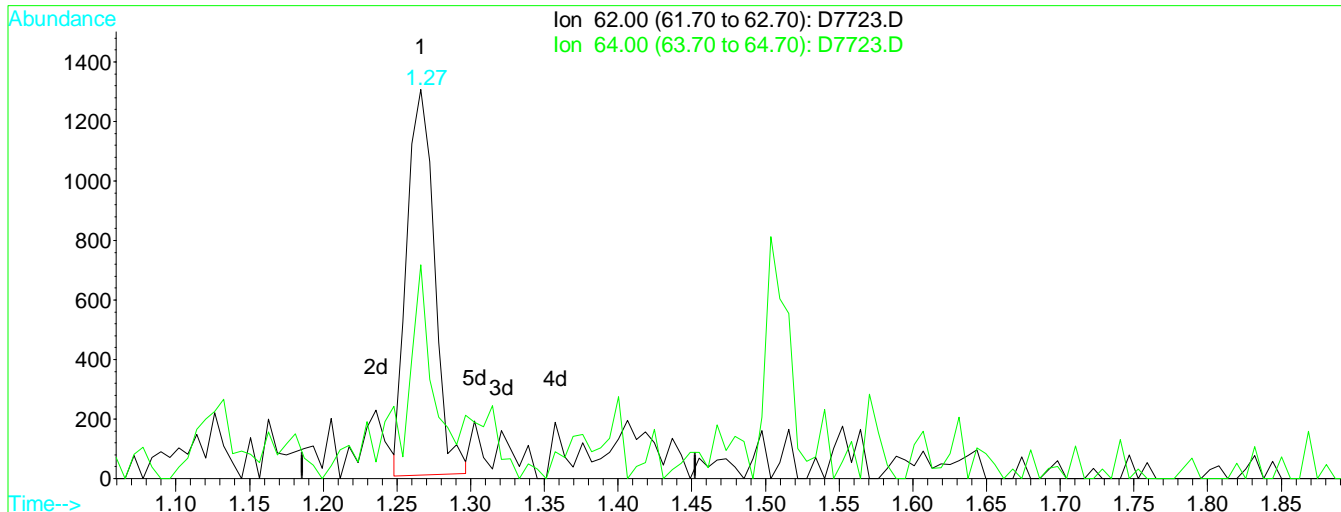
Poor integration.

Ion	Exp%	Act%
62.00	100	100
64.00	35.30	54.93
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
 Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
 Sample : STD #1 - 0.5 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:00 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:40:01 2017  
 Response via : Multiple Level Calibration



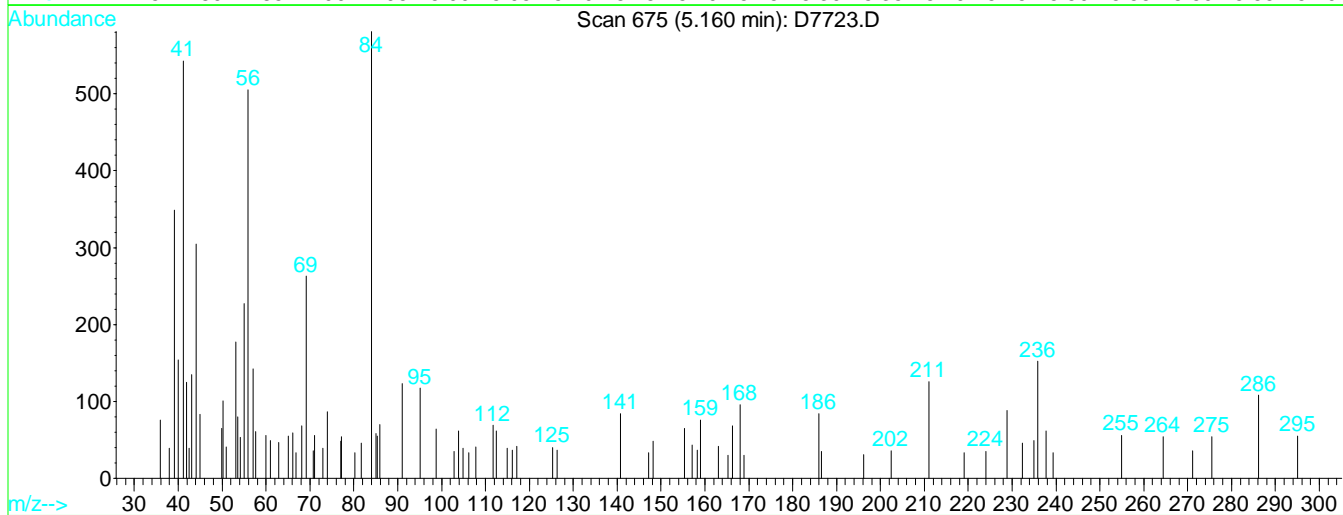
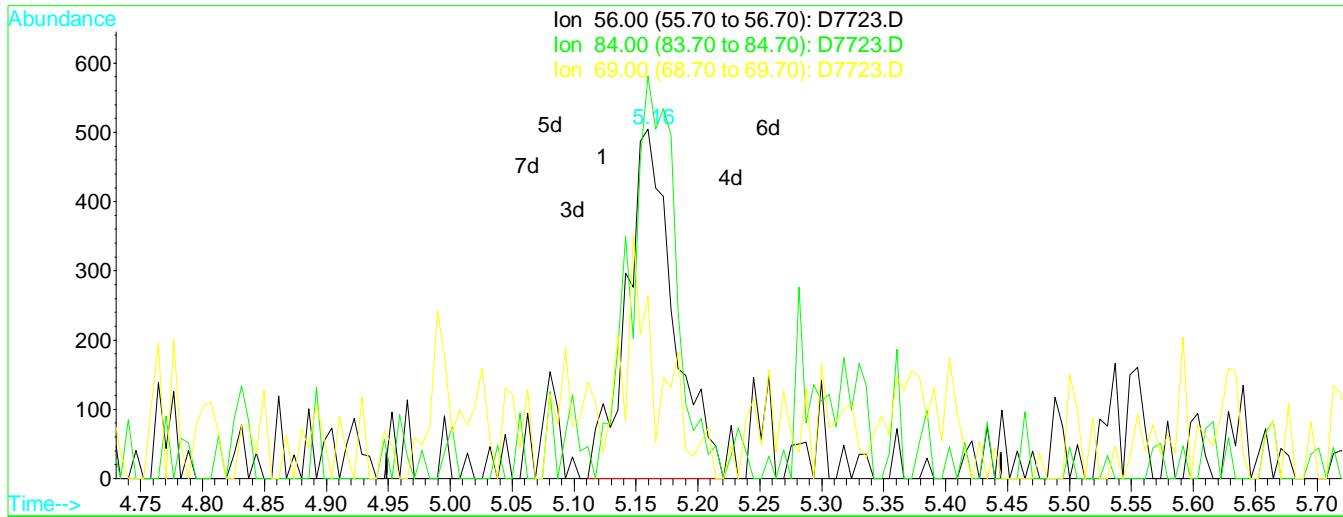
TIC: D7723.D

(4) Vinyl Chloride (P)	Manual Integration:	
1.27min 0.52ug/L	Before	
response 1689		
Ion	Exp%	Act%
62.00	100	100
64.00	35.30	54.93
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:07 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(47) Cyclohexane (P)

Manual Integration:

5.16min 0.52ug/L m

After

response 1329

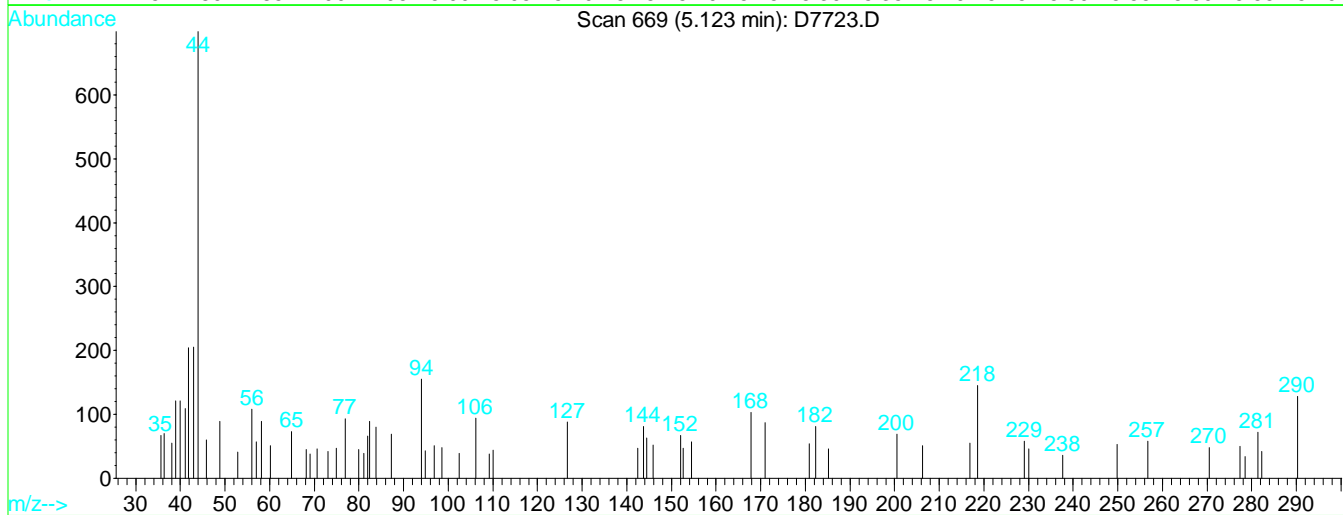
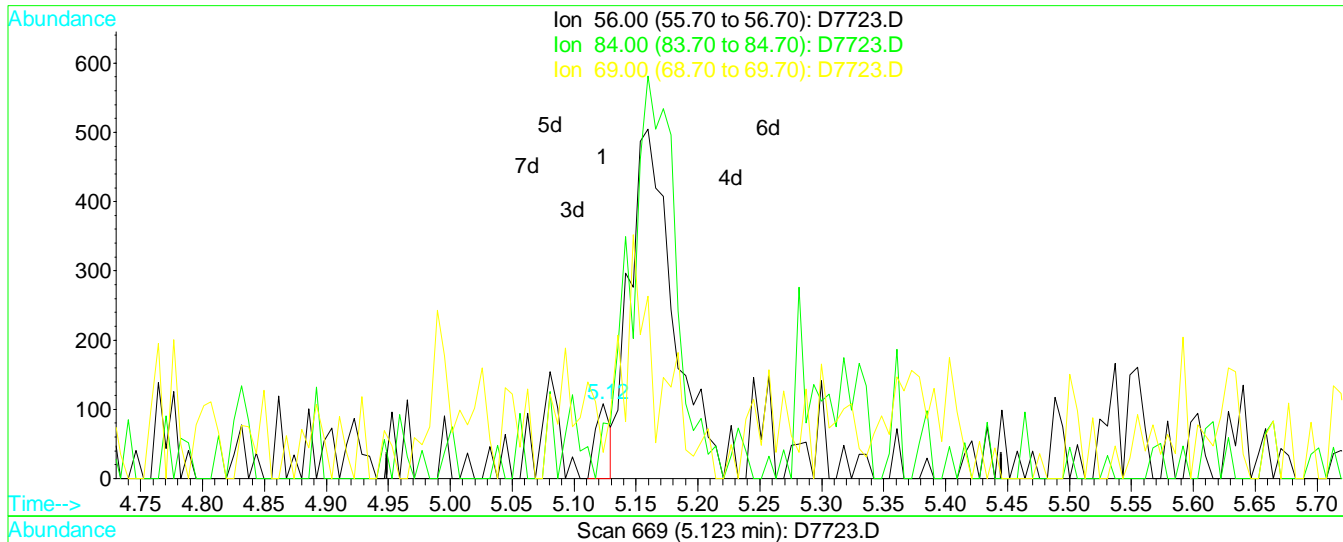
Split Peak.

08/25/17

Ion	Exp%	Act%
56.00	100	100
84.00	92.00	115.05#
69.00	31.60	52.08#
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
 Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
 Sample : STD #1 - 0.5 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:07 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:40:01 2017  
 Response via : Multiple Level Calibration



TIC: D7723.D

(47) Cyclohexane (P)

Manual Integration:

5.12min 0.04ug/L

Before

response 93

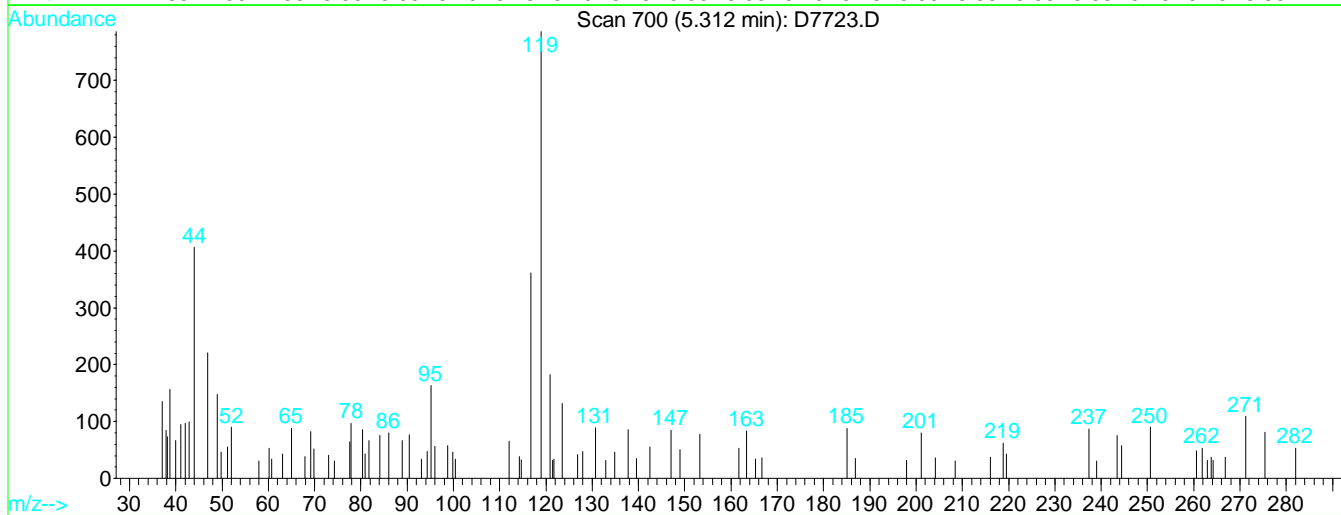
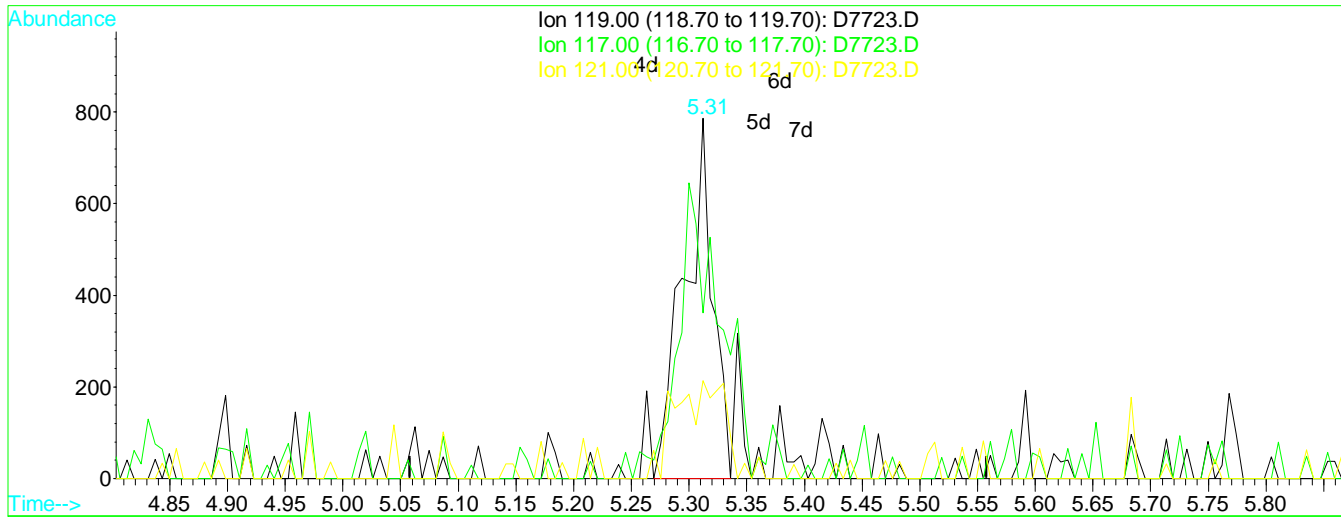
08/25/17

Ion	Exp%	Act%
56.00	100	100
84.00	92.00	74.07
69.00	31.60	35.19
0.00	0.00	0.00



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:08 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(48) Carbontetrachloride (P)

Manual Integration:

5.31min 0.49ug/L m

After

response 1363

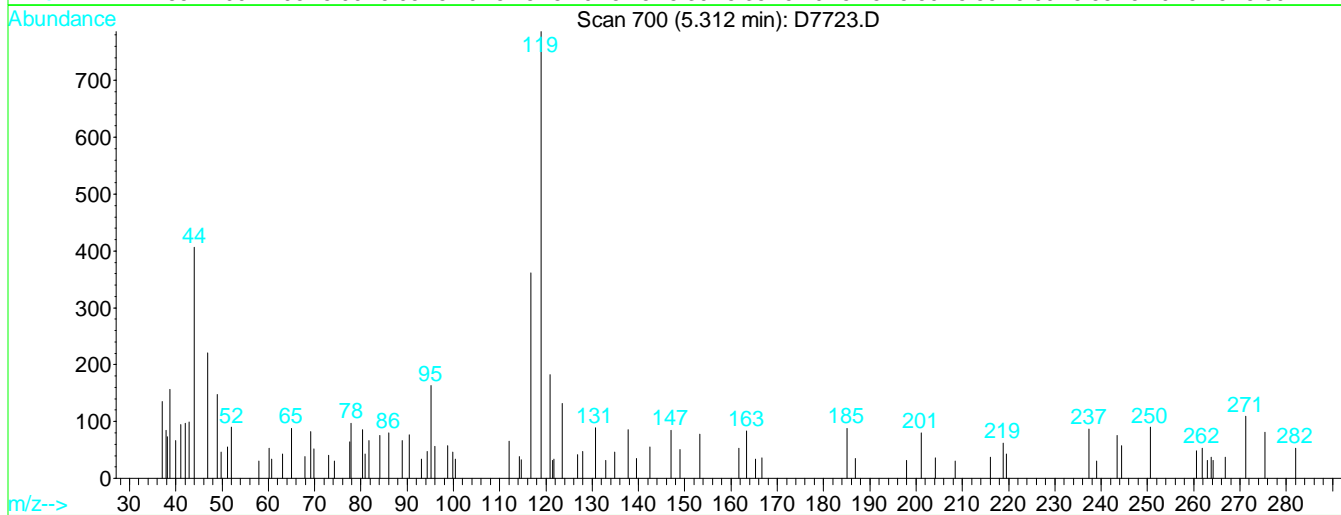
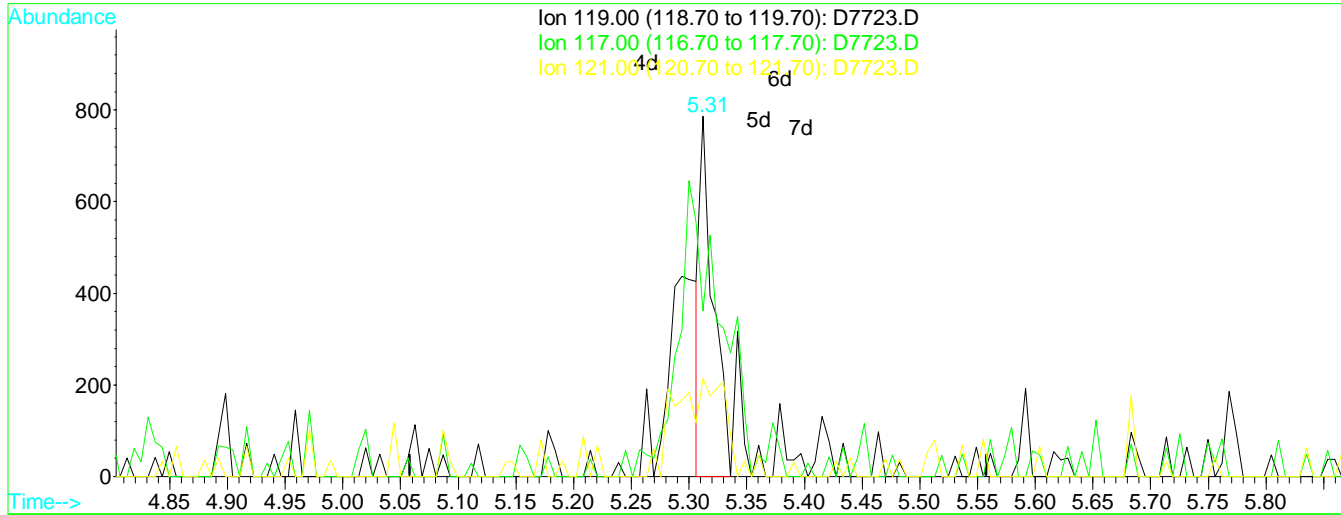
Split Peak.

Ion	Exp%	Act%
119.00	100	100
117.00	96.70	46.06#
121.00	33.20	23.16
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
 Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
 Sample : STD #1 - 0.5 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:07 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:40:01 2017  
 Response via : Multiple Level Calibration



TIC: D7723.D

(48) Carbontetrachloride (P)

Manual Integration:

5.31min 0.23ug/L

Before

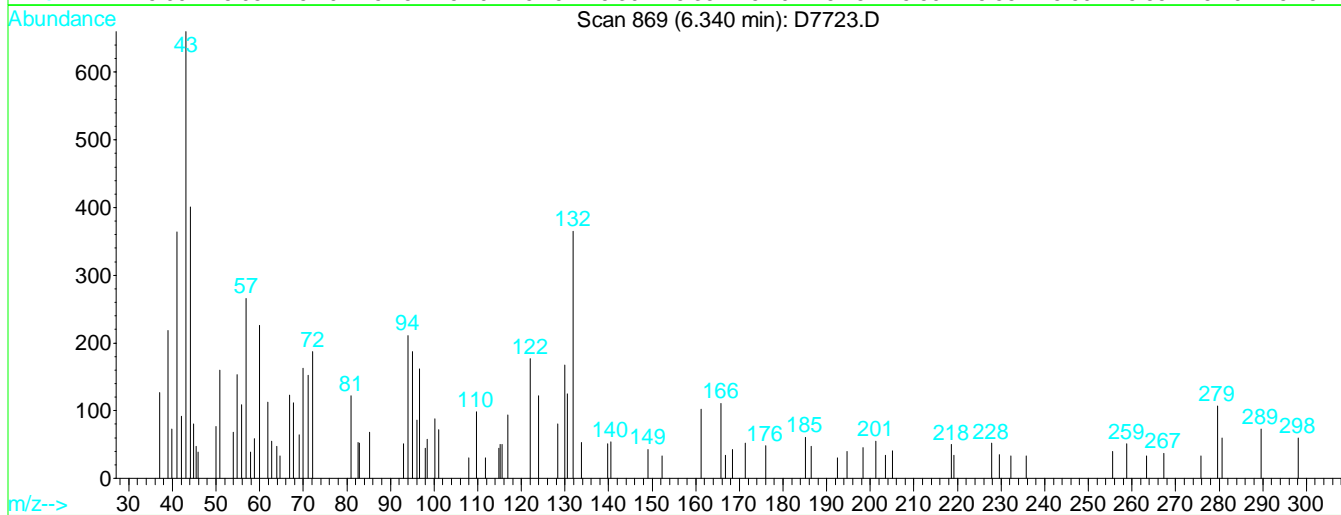
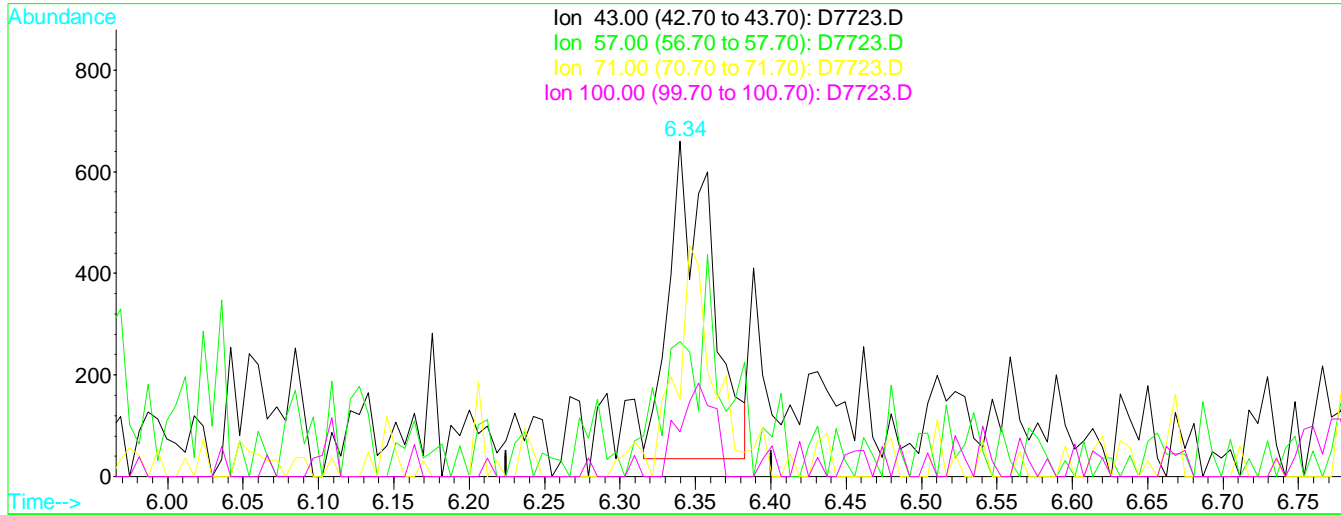
response 640

08/25/17

Ion	Exp%	Act%
119.00	100	100
117.00	96.70	46.06#
121.00	33.20	31.55
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:09 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(53) n-Heptane

6.34min 0.65ug/L m

response 1222

Ion	Exp%	Act%
43.00	100	100
57.00	55.20	40.30
71.00	56.30	23.03#
100.00	17.70	13.33

Manual Integration:

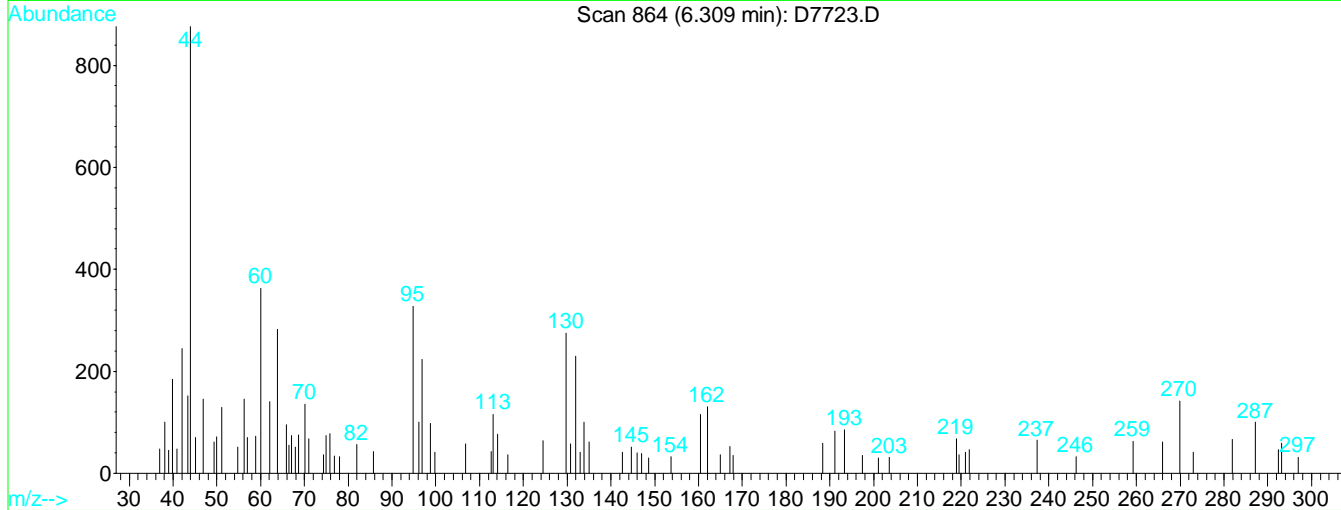
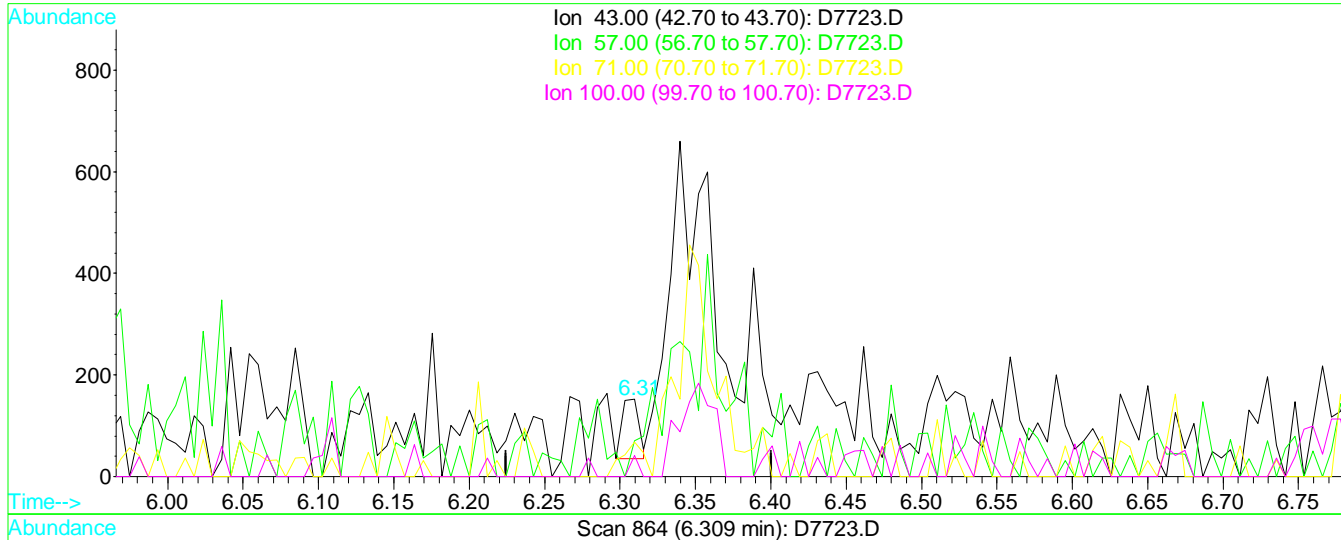
After

Peak not found.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
 Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
 Sample : STD #1 - 0.5 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:08 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:40:01 2017  
 Response via : Multiple Level Calibration



TIC: D7723.D

(53) n-Heptane  
 6.31min 0.05ug/L  
 response 91

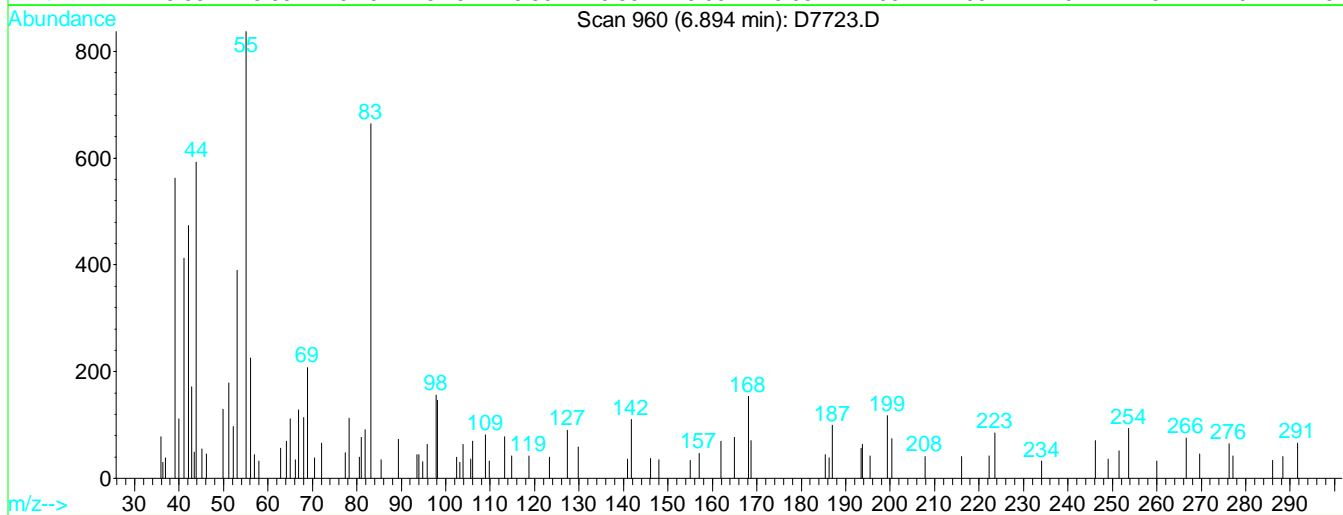
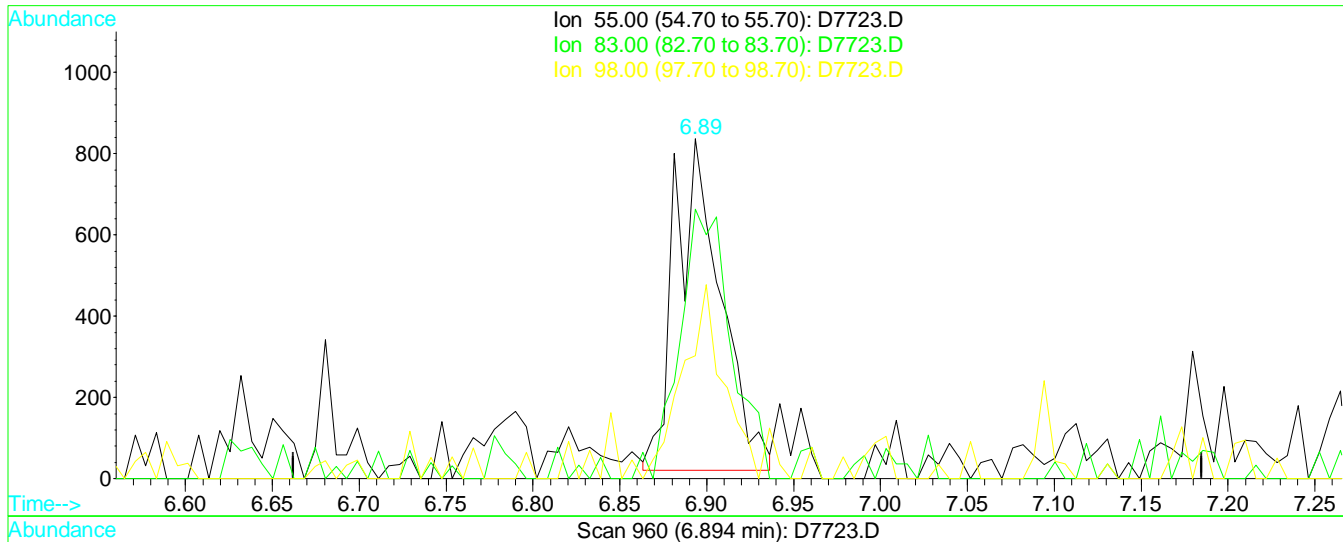
Manual Integration:  
 Before

Ion	Exp%	Act%
43.00	100	100
57.00	55.20	46.05
71.00	56.30	44.74
100.00	17.70	27.63

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:10 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(59) Methylcyclohexane (P)

Manual Integration:

6.89min 0.71ug/L m

After

response 1507

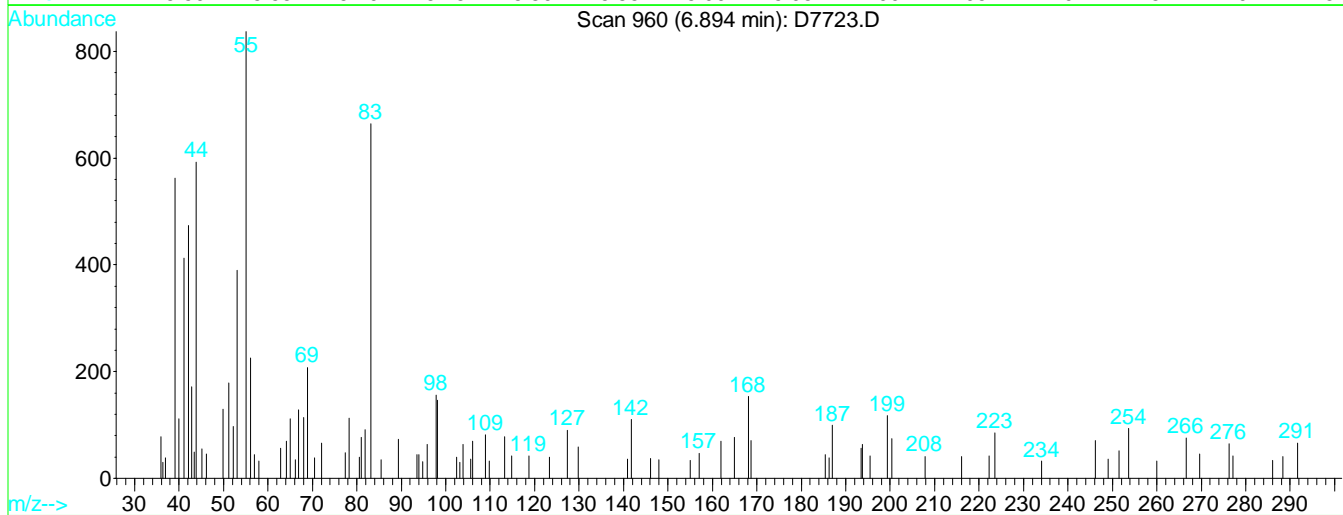
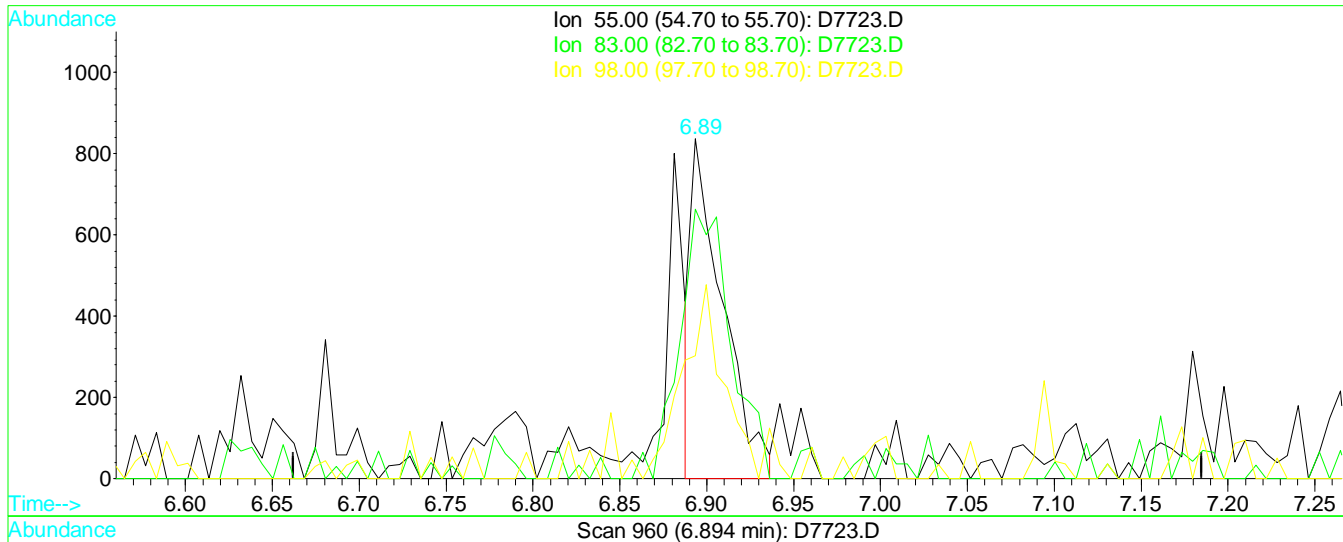
Split Peak.

08/25/17

Ion	Exp%	Act%
55.00	100	100
83.00	134.80	89.32#
98.00	62.30	51.43
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:09 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(59) Methylcyclohexane (P)

Manual Integration:

6.89min 0.50ug/L

Before

response 1057

Ion Exp% Act%

08/25/17

55.00 100 100

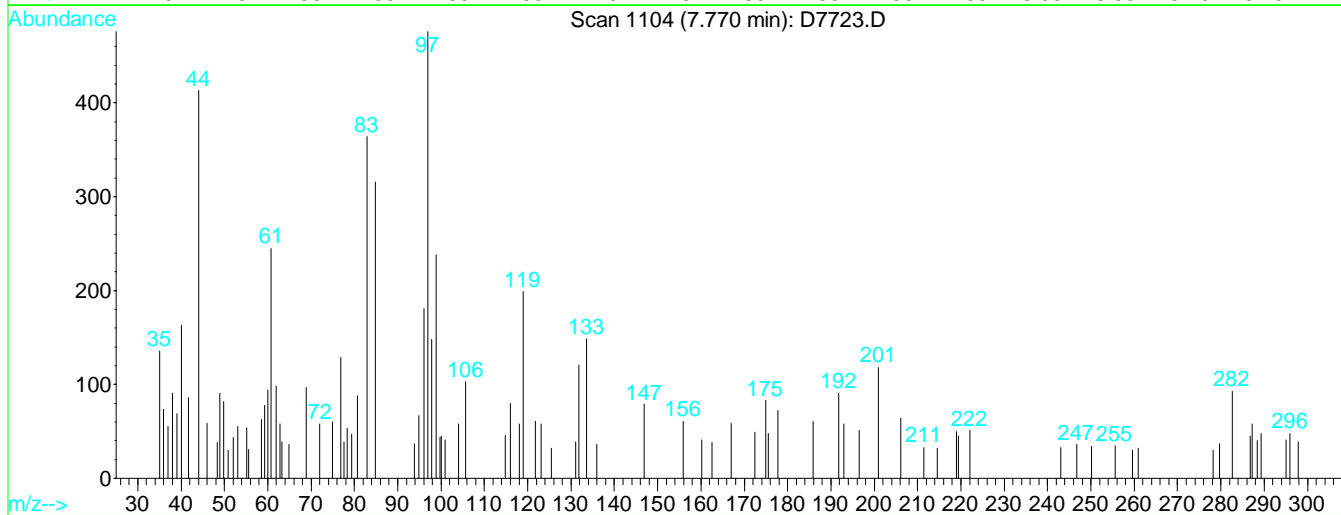
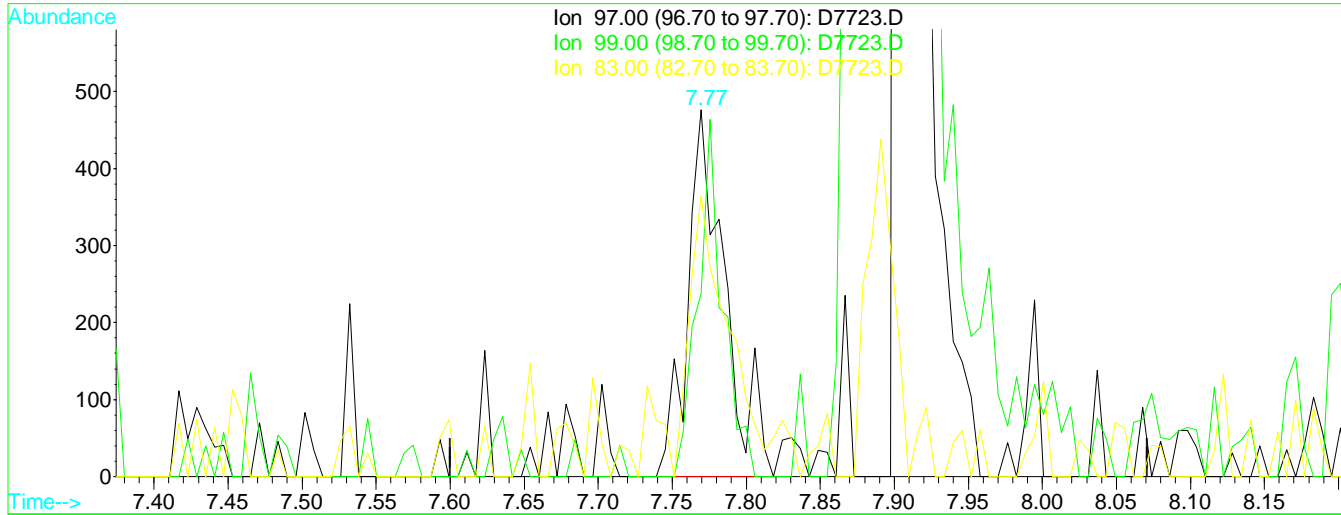
83.00 134.80 127.34

98.00 62.30 73.32

0.00 0.00 0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:11 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(64) 1,1,2-Trichloroethane (P)

Manual Integration:

7.77min 0.49ug/L m

After

response 833

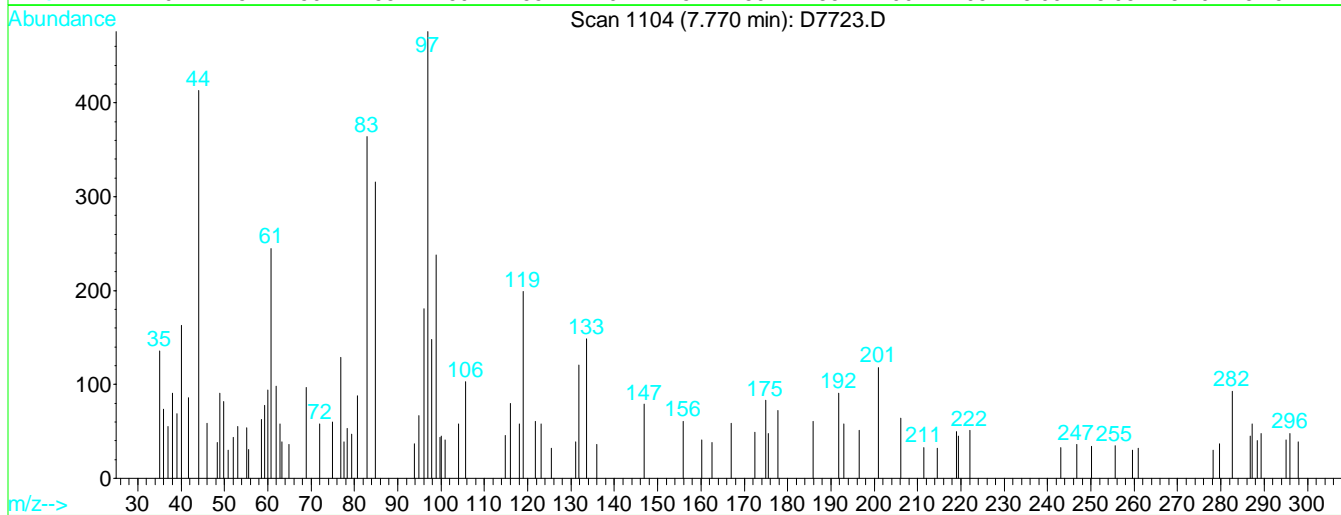
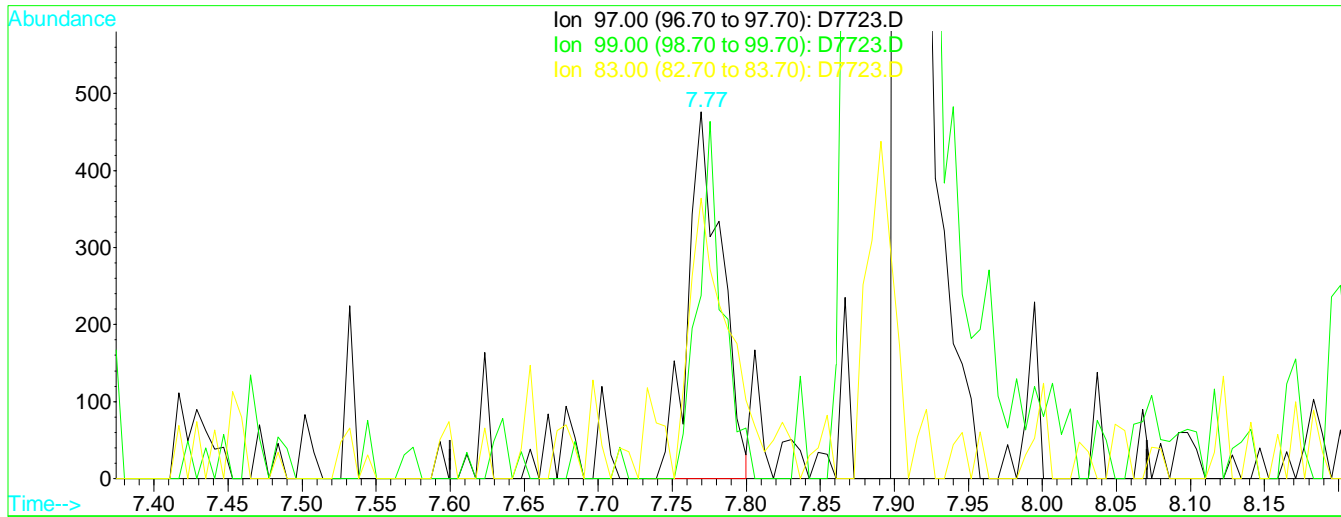
Split Peak.

Ion	Exp%	Act%
97.00	100	100
99.00	66.60	66.03
83.00	84.40	87.15
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:10 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(64) 1,1,2-Trichloroethane (P)

Manual Integration:

7.77min 0.44ug/L

Before

response 759

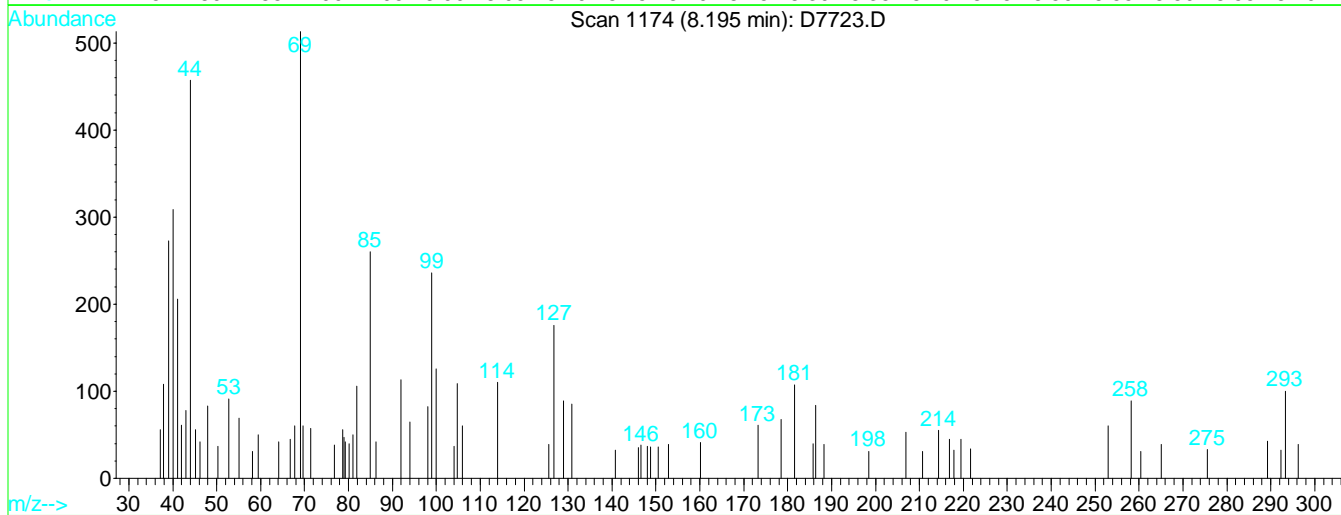
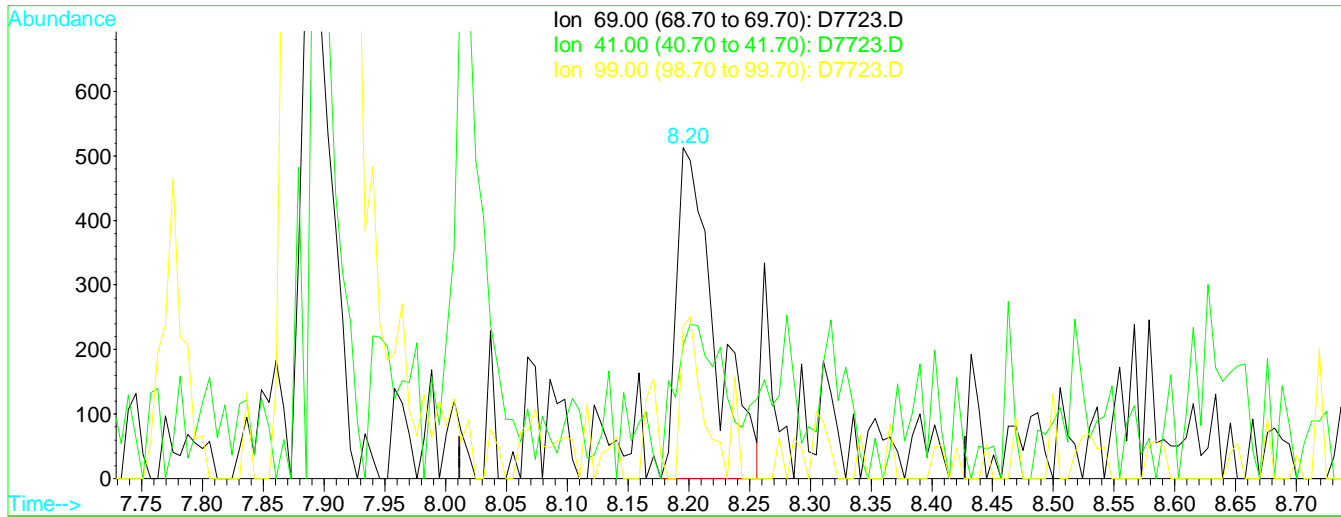
Ion	Exp%	Act%
97.00	100	100
99.00	66.60	72.46
83.00	84.40	95.65
0.00	0.00	0.00

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:12 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(69) Ethyl Methacrylate

Manual Integration:

8.20min 0.51ug/L m

After

response 1127

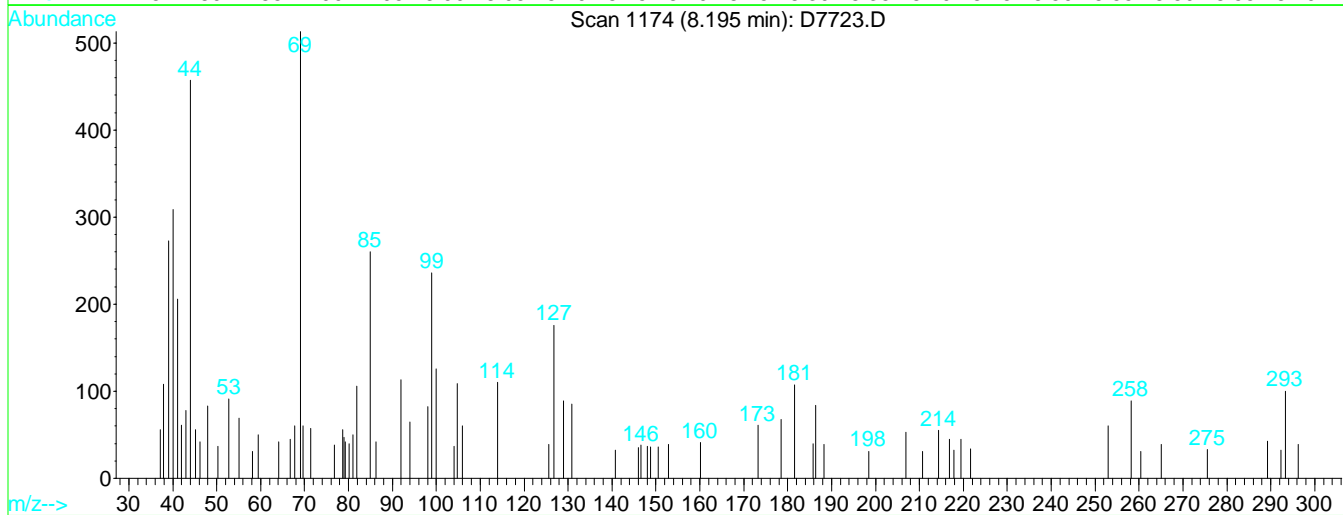
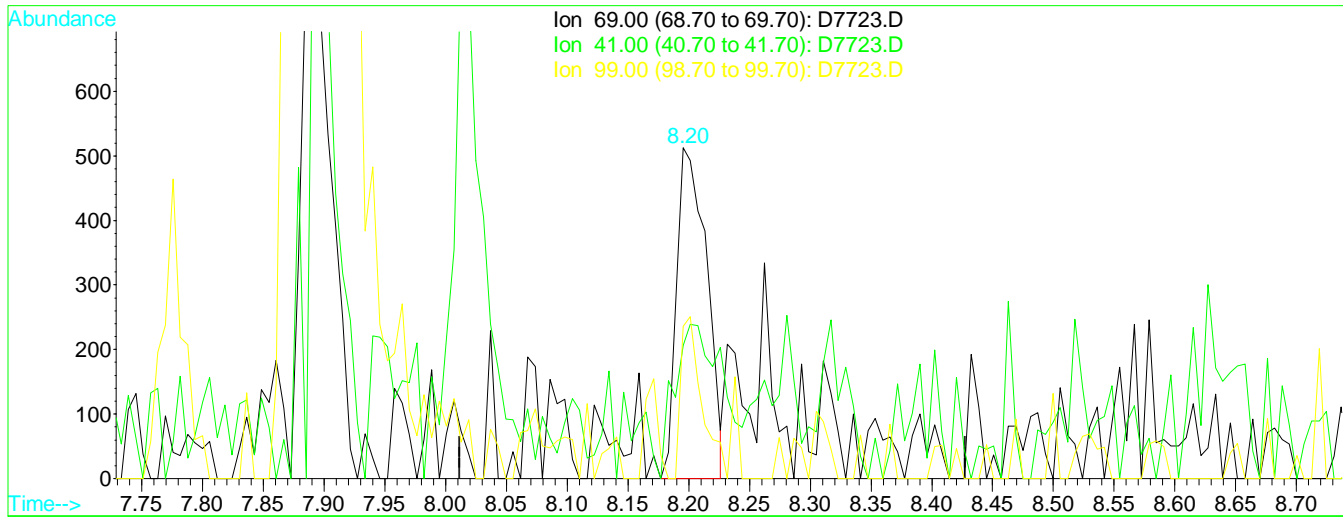
Split Peak.

Ion	Exp%	Act%
69.00	100	100
41.00	76.30	40.16#
99.00	24.30	46.00#
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
Sample : STD #1 - 0.5 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:11 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:40:01 2017  
Response via : Multiple Level Calibration



TIC: D7723.D

(69) Ethyl Methacrylate

Manual Integration:

8.20min 0.40ug/L

Before

response 883

Ion Exp% Act%

08/25/17

69.00 100 100

41.00 76.30 35.95#

99.00 24.30 41.19

0.00 0.00 0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
 Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
 Sample : STD #1 - 0.5 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:15 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:40:01 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	265340	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	346094	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	164119	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	182019	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	131011	52.78	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	105.56%
43) surr1,1,2-dichloroethane-d	4.47	65	139484	51.88	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	103.76%
65) SURRE3,Toluene-d8	7.89	98	389115	55.52	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	111.04%
86) SURRE2,BFB	10.25	95	153939	50.08	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	100.16%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.11	85	2153	0.54	ug/L	93
3) Chloromethane	1.19	50	1513	0.57	ug/L	79
4) Vinyl Chloride	1.27	62	1595m	0.49	ug/L	
5) Bromomethane	1.44	94	1404	0.72	ug/L #	48
6) Chloroethane	1.50	64	853	0.53	ug/L #	69
7) Freon 21	1.53	67	2774	0.58	ug/L	92
8) Freon 123	1.70	83	1869	0.62	ug/L	83
9) Freon 123a	1.73	67	1574	0.66	ug/L	87
11) Trichlorofluoromethane	1.79	101	2182	0.59	ug/L	81
13) 2-Propanol	1.83	45	1120	11.28	ug/L #	36
15) Diethyl Ether	1.95	59	719	0.57	ug/L	95
16) 1,1-Dicethene	2.09	96	1021	0.56	ug/L #	47
17) Iodomethane	2.11	142	2066	0.70	ug/L	97
18) TBA	2.14	59	1476	8.61	ug/L	83
19) Acrylonitrile	2.15	53	1626m	2.95	ug/L	
20) Methylene Chloride	2.20	84	1047	0.54	ug/L	90
21) Freon 113	2.24	101	1232	0.57	ug/L #	59
23) Allyl Chloride	2.26	76	582	0.77	ug/L	95
24) Carbon Disulfide	2.31	76	3398	0.59	ug/L	98
25) trans-1,2-Dichloroethene	2.70	96	1008	0.52	ug/L #	77
26) Methyl-t-Butyl Ether	2.81	73	2921	0.58	ug/L	87
27) 1,1-Dicethane	2.89	63	1936	0.63	ug/L	93
28) Propionitrile	2.99	54	355	1.79	ug/L	91
30) 2-Chloro-1,3-Butadiene	3.26	53	1761	0.67	ug/L	92
33) cis-1,2-Dichloroethene	3.47	96	1464	0.70	ug/L #	52
34) Bromochloromethane	3.65	128	719	0.61	ug/L #	85
35) Chloroform	3.72	83	2062	0.58	ug/L	84
36) 2,2-Dichloropropane	3.80	77	2377	0.71	ug/L	89
39) 1,1,1-Trichloroethane	4.73	97	2056	0.60	ug/L #	66
46) 1,1-Dichloropropene	5.10	75	1407	0.56	ug/L	94
47) Cyclohexane	5.16	56	1329m	0.52	ug/L	
48) Carbontetrachloride	5.31	119	1363m	0.49	ug/L	
49) Benzene	5.39	78	3660	0.54	ug/L	88
51) Dibromomethane	6.17	93	708	0.49	ug/L	96
52) 1,2-Diclpropane	6.25	63	1000	0.57	ug/L	97
53) n-Heptane	6.34	43	1222m	0.65	ug/L	
54) Trichloroethene	6.33	130	1413	0.63	ug/L	91
55) Bromodichloromethane	6.38	83	1515	0.56	ug/L #	72
59) Methylcyclohexane	6.89	55	1507m	0.71	ug/L	

(#) = qualifier out of range (m) = manual integration  
 D7723.D W082417.M Fri Aug 25 09:15:37 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D Vial: 6  
 Acq On : 24 Aug 2017 9:44 am Operator: D.Lipani  
 Sample : STD #1 - 0.5 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:15 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:40:01 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60) 2-Chloroethylvinyl Ether	7.03	63	699	0.64	ug/L	68
61) cis-1,3-Dichloropropene	7.18	75	2021	0.65	ug/L	95
63) trans-1,3-Dichloropropene	7.67	75	1433	0.51	ug/L #	45
64) 1,1,2-Trichloroethane	7.77	97	833m	0.49	ug/L	
66) Toluene	7.96	91	4139	0.54	ug/L	86
68) 1,3-Dichloropropane	8.02	76	1552	0.56	ug/L #	61
69) Ethyl Methacrylate	8.20	69	1127m	0.51	ug/L	
70) Dibromochloromethane	8.21	129	1238	0.55	ug/L	88
72) 1,2-Dibromoethane	8.43	107	941	0.47	ug/L	100
74) Tetrachloroethene	8.62	164	1011	0.52	ug/L	93
75) 1,1,1,2-Tetrachloroethane	9.17	131	1029	0.50	ug/L #	40
76) Chlorobenzene	9.22	112	3183	0.60	ug/L	88
77) Ethylbenzene	9.43	106	1429	0.52	ug/L #	85
78) Bromoform	9.62	173	603	0.40	ug/L #	70
79) (m+p)Xylene	9.62	106	3885	1.13	ug/L	94
80) o-Xylene	9.93	106	1651	0.50	ug/L #	70
81) Cyclohexanone	9.85	55	968	15.35	ug/L #	80
82) Styrene	9.88	104	2646	0.50	ug/L	98
84) trans-1,4-Dichloro-2-Buten	10.11	75	365	0.48	ug/L #	53
85) Isopropylbenzene	10.25	105	4933	0.59	ug/L	85
88) 1,1,2,2-Tetrachloroethane	9.92	83	1125	0.52	ug/L	93
89) 1,2,3-Trichloropropane	10.04	75	912	0.56	ug/L	86
90) Bromobenzene	10.39	156	1641	0.61	ug/L	94
91) n-Propylbenzene	10.61	91	5622	0.58	ug/L	98
92) 2-Chlorotoluene	10.65	91	3151	0.56	ug/L	90
93) 4-Chlorotoluene	10.71	91	3486	0.58	ug/L	88
94) 1,3,5-Trimethylbenzene	10.87	105	3784	0.57	ug/L	99
95) tert-Butylbenzene	11.07	119	3119	0.54	ug/L	99
96) 1,2,4-Trimethylbenzene	11.17	105	4231	0.59	ug/L	93
97) sec-Butylbenzene	11.24	105	4469	0.54	ug/L	97
98) 1,3-Dclbenz	11.26	146	2261	0.49	ug/L	84
99) 1,4-Dclbenz	11.32	146	3215	0.70	ug/L #	86
100) p-Isopropyltoluene	11.41	119	4004	0.59	ug/L	93
101) 1,2-Dclbenz	11.58	146	2481	0.54	ug/L	94
102) n-Butylbenzene	11.72	91	4234	0.67	ug/L	85
103) 1,2-Dibromo-3-chloropropan	11.95	75	396	0.99	ug/L #	40
105) 1,2,4-Tcbenzene	13.02	180	1846	0.58	ug/L	95
106) Naphthalen	13.20	128	3221	0.54	ug/L	97
107) Hexachlorobt	13.29	225	713	0.46	ug/L #	74
108) 1,2,3-Tclbenzene	13.35	180	1361	0.50	ug/L #	75

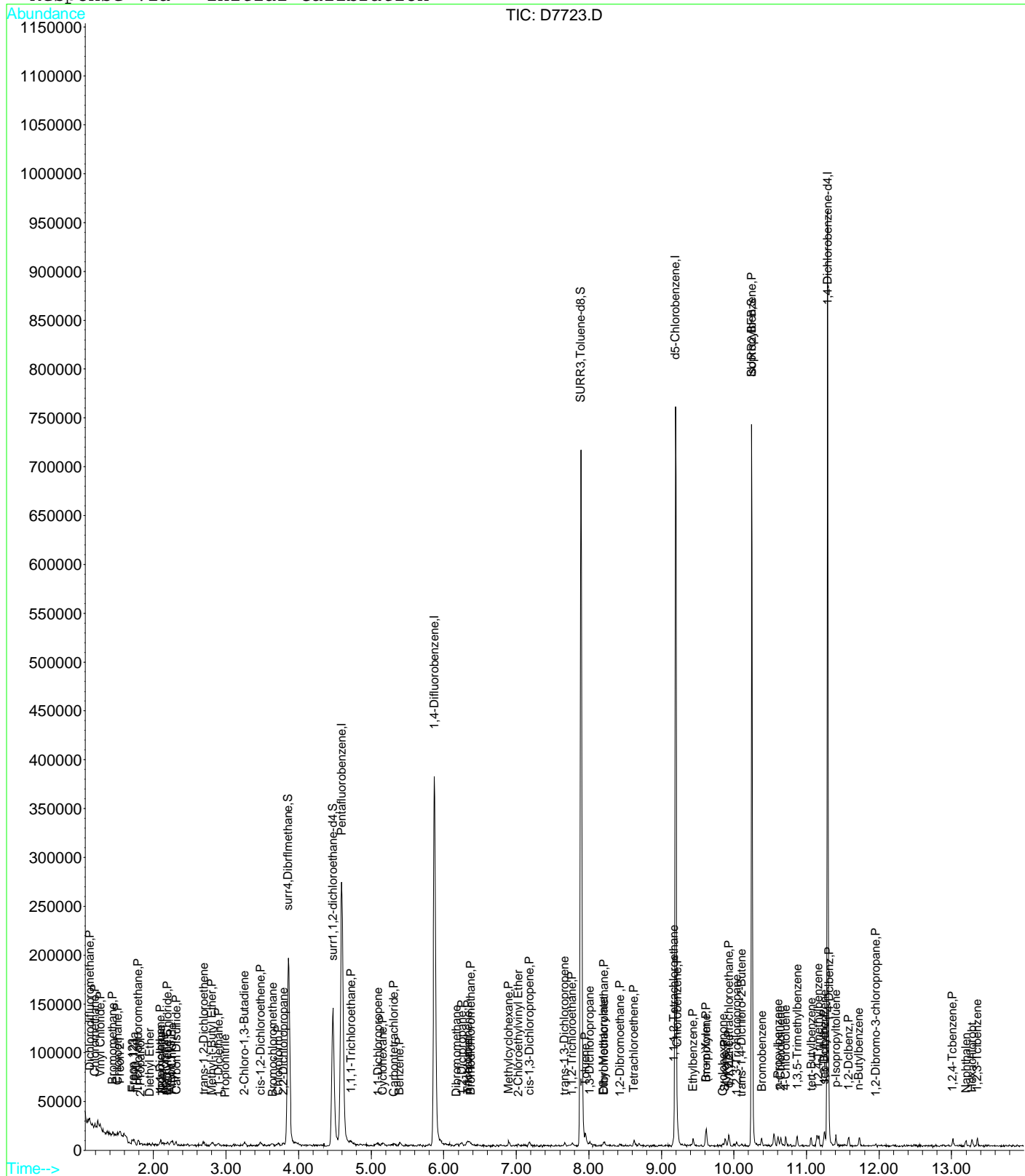
(#) = qualifier out of range (m) = manual integration  
 D7723.D W082417.M Fri Aug 25 09:15:37 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7723.D  
Acq On : 24 Aug 2017 9:44 am  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:15 2017

Vial: 6  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

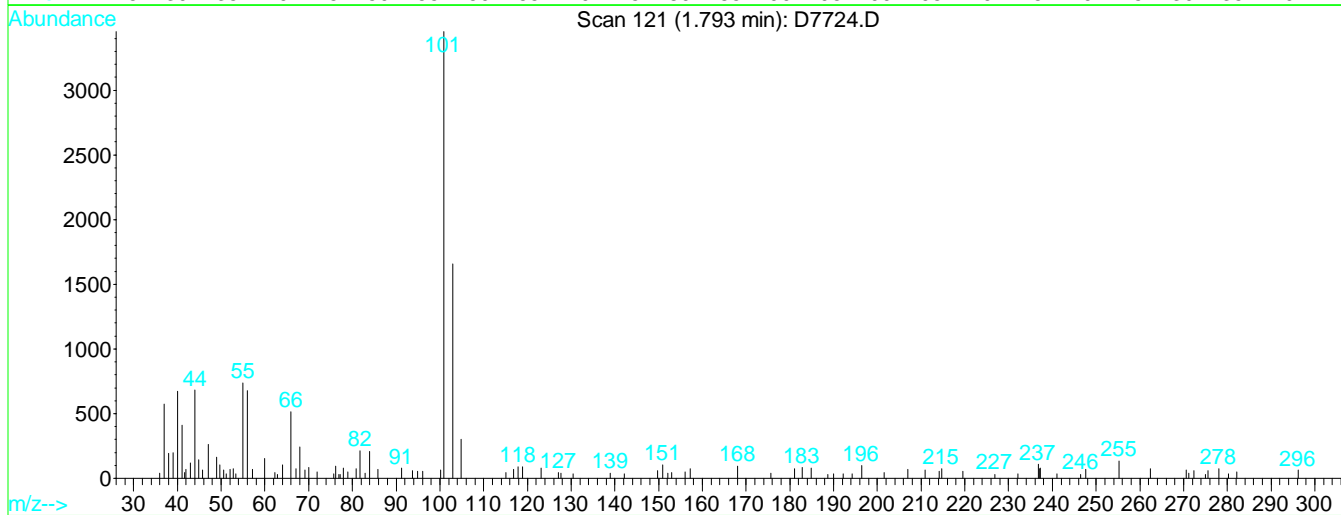
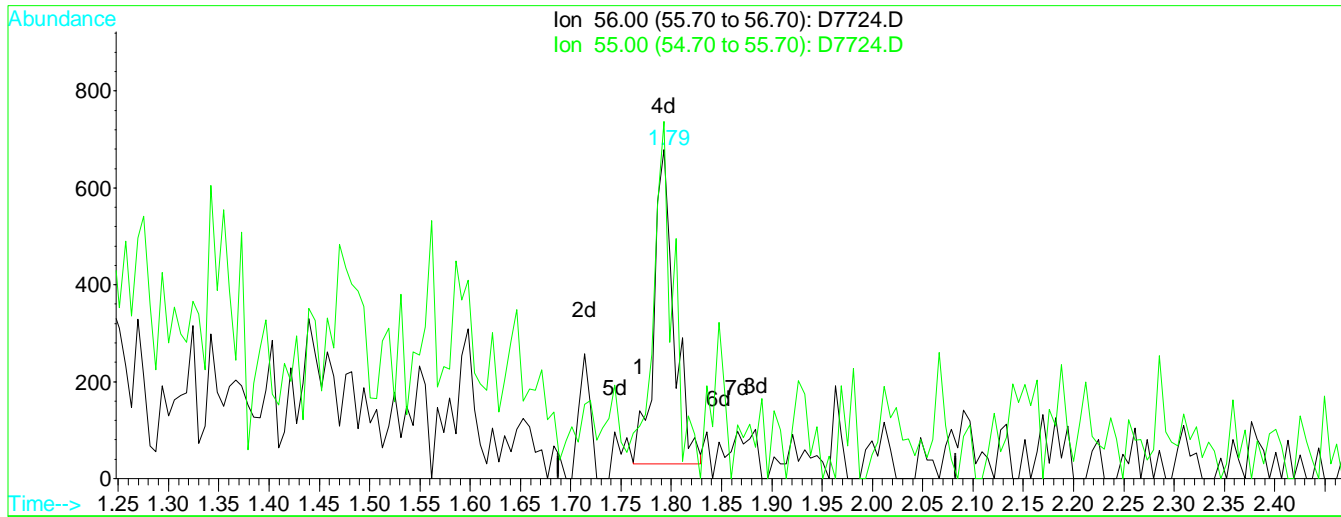
Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 08:54:47 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:42 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(10) Acrolein

Manual Integration:

1.79min 4.29ug/L m

After

response 906

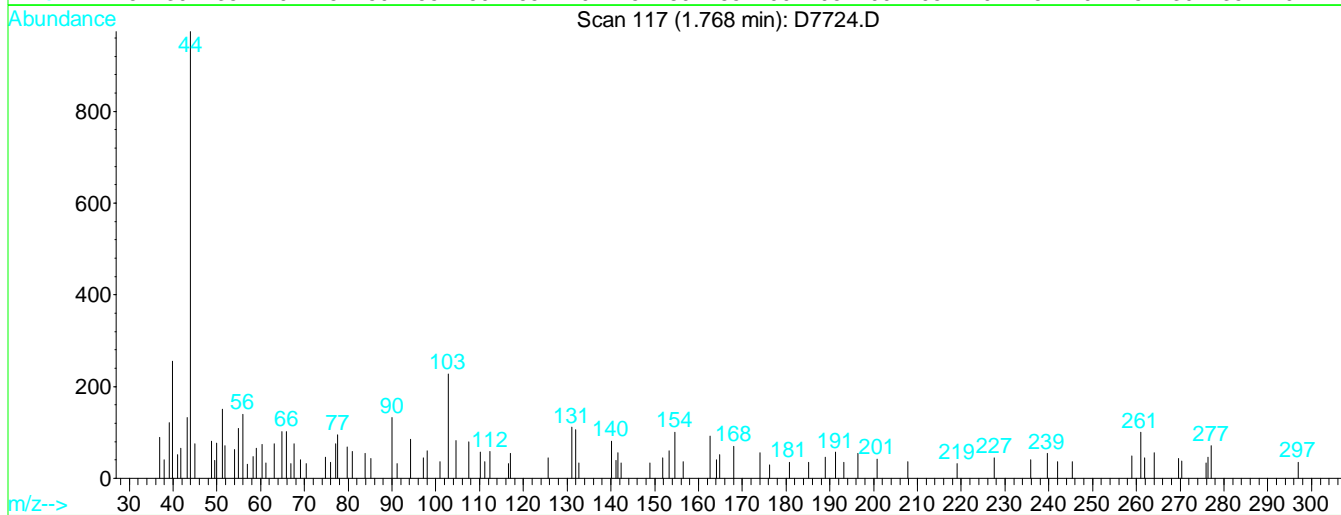
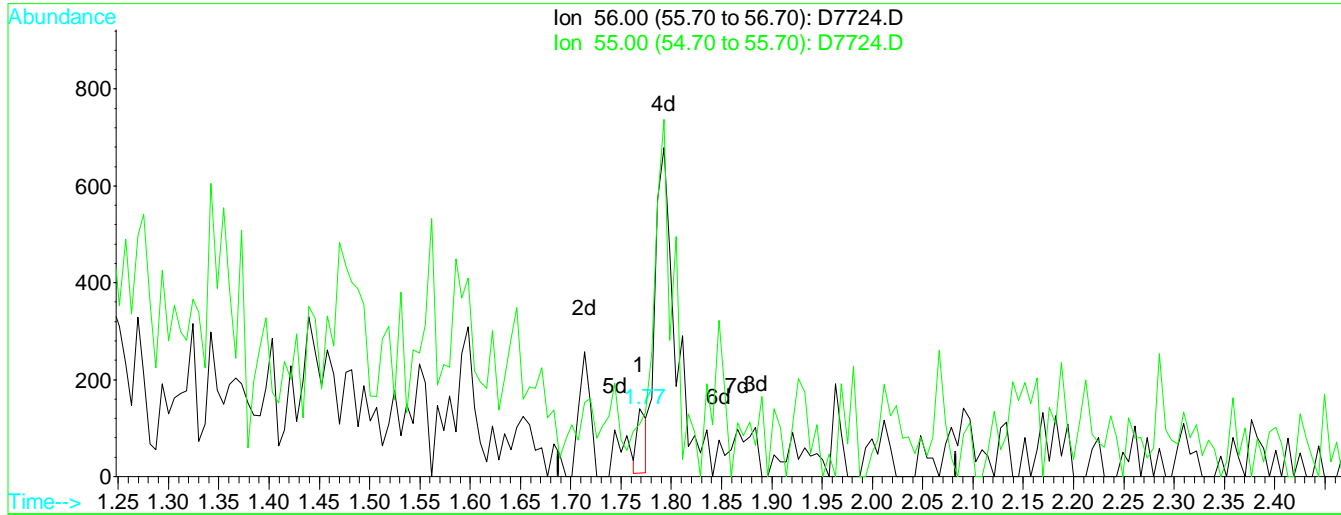
Split Peak.

Ion	Exp%	Act%
56.00	100	100
55.00	69.40	108.54#
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:42 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration

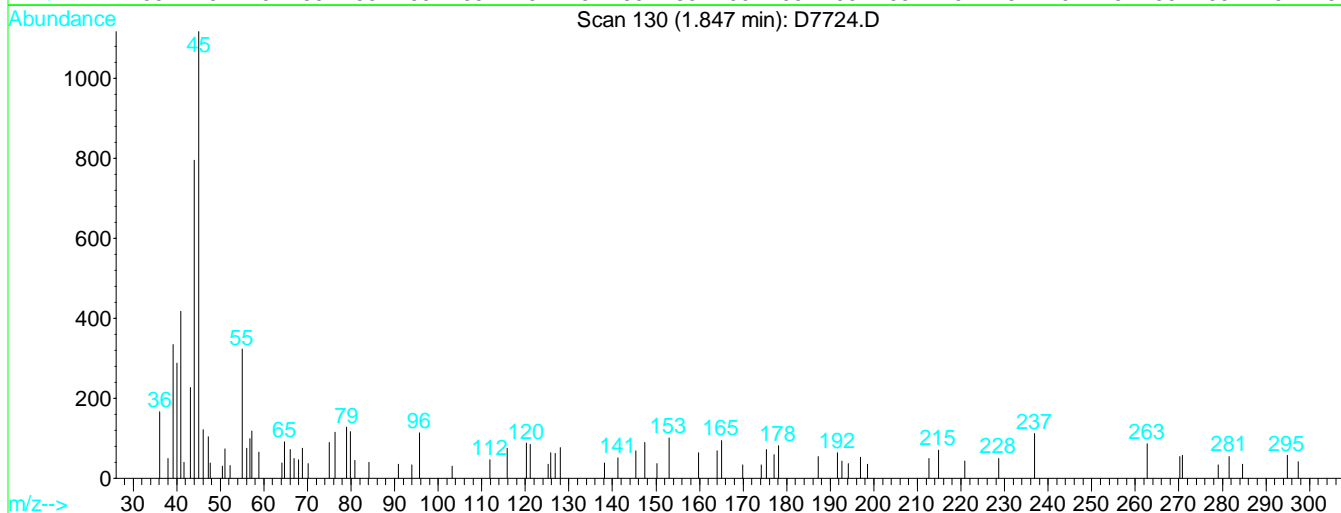
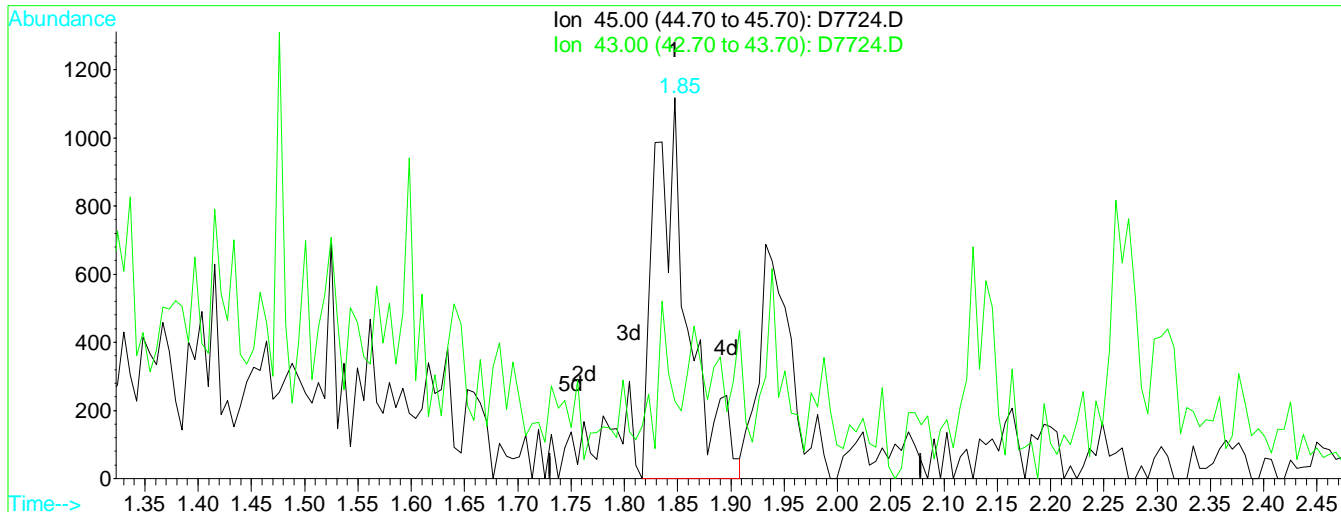


TIC: D7724.D

(10) Acrolein			Manual Integration:
1.77min	0.42ug/L		Before
response	89		
Ion	Exp%	Act%	08/25/17
56.00	100	100	
55.00	69.40	77.86	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:44 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(13) 2-Propanol

Manual Integration:

1.85min 24.67ug/L m

After

response 2460

Split Peak.

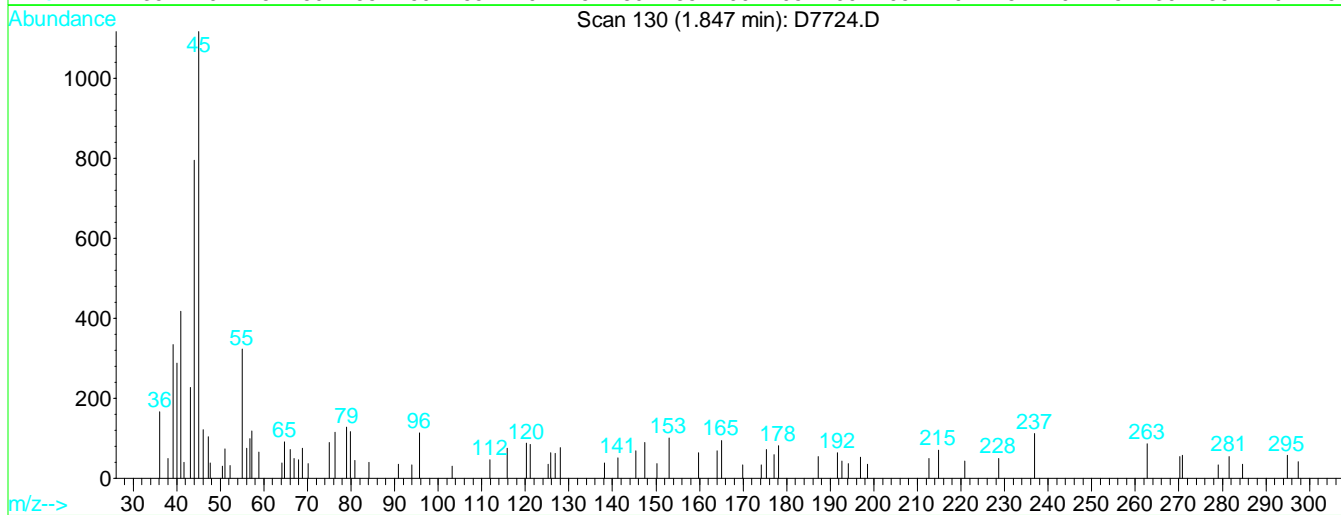
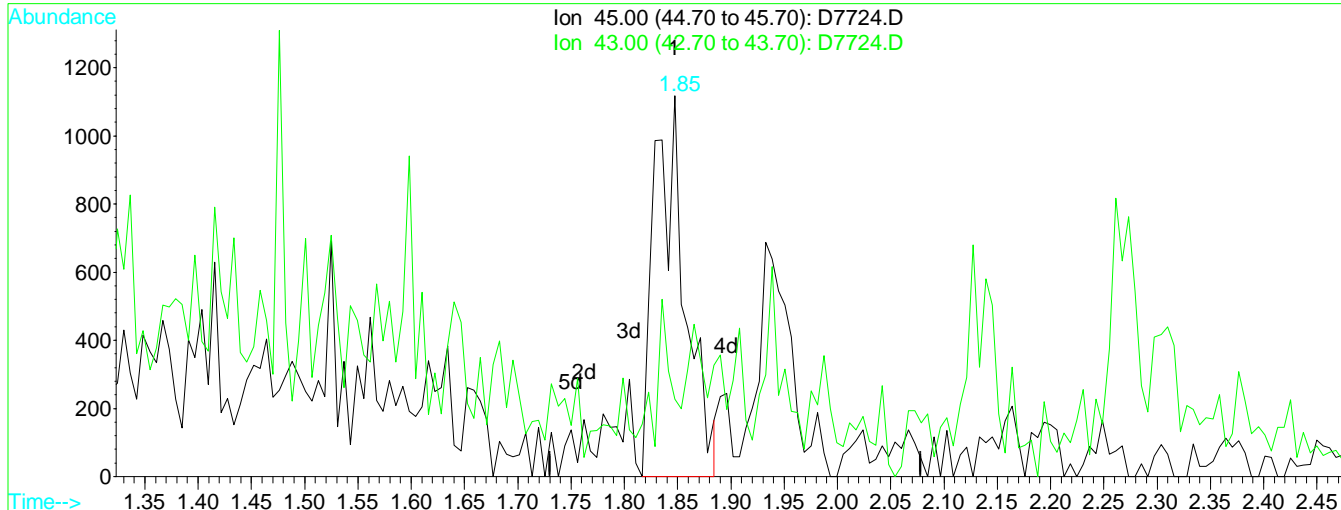
Ion	Exp%	Act%
45.00	100	100
43.00	23.50	20.32
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:42 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(13) 2-Propanol  
1.85min 22.49ug/L  
response 2243

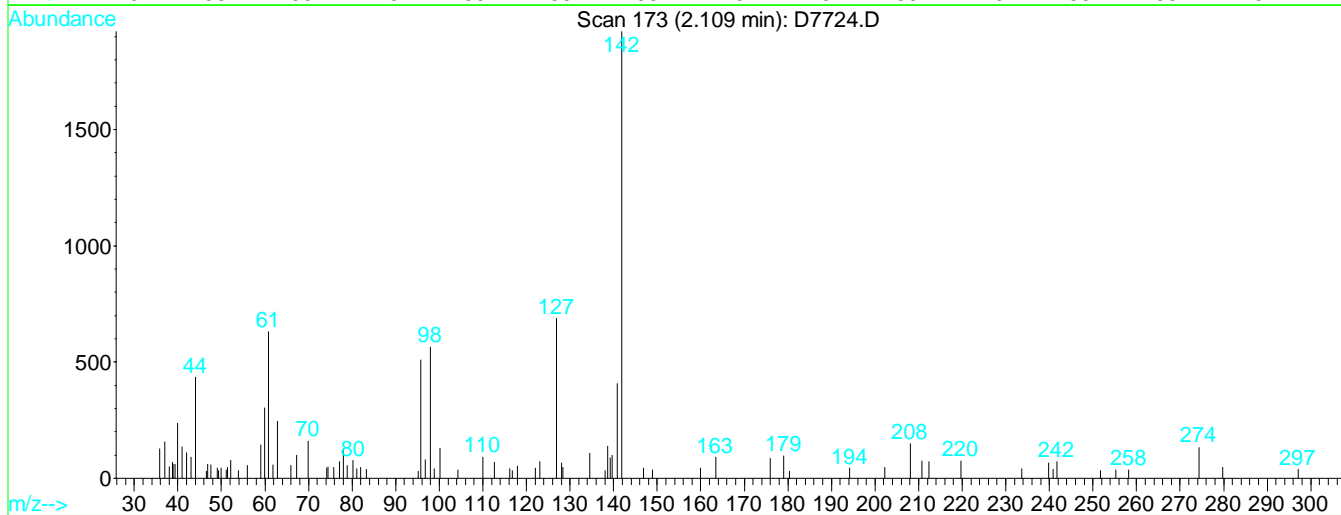
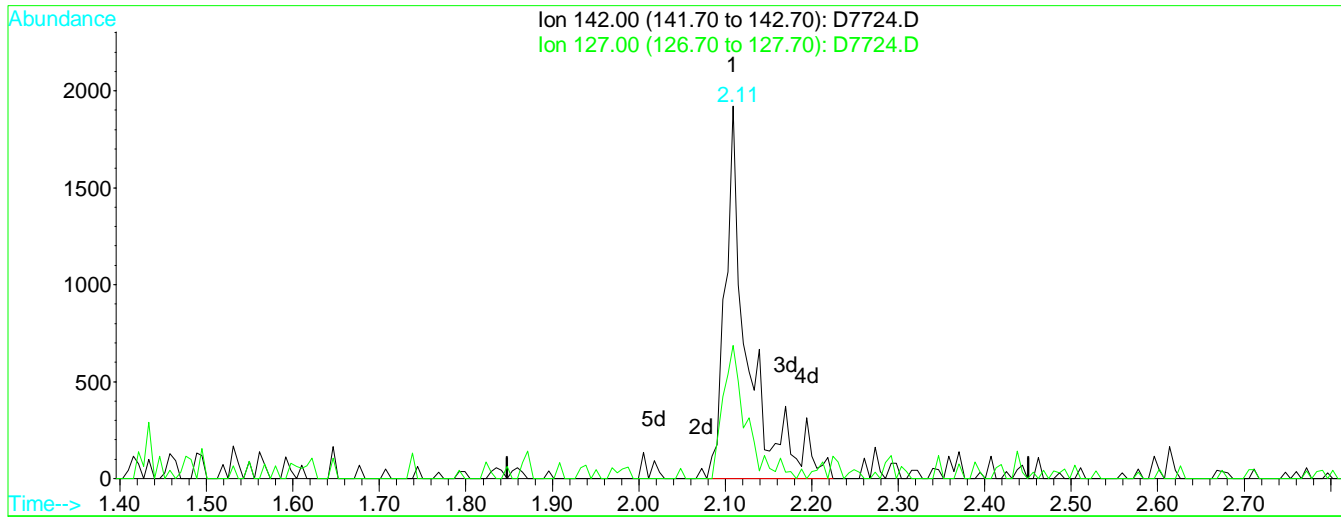
Manual Integration:  
Before

Ion	Exp%	Act%
45.00	100	100
43.00	23.50	20.32
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:44 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(17) Iodomethane

Manual Integration:

2.11min 1.17ug/L m

After

response 3484

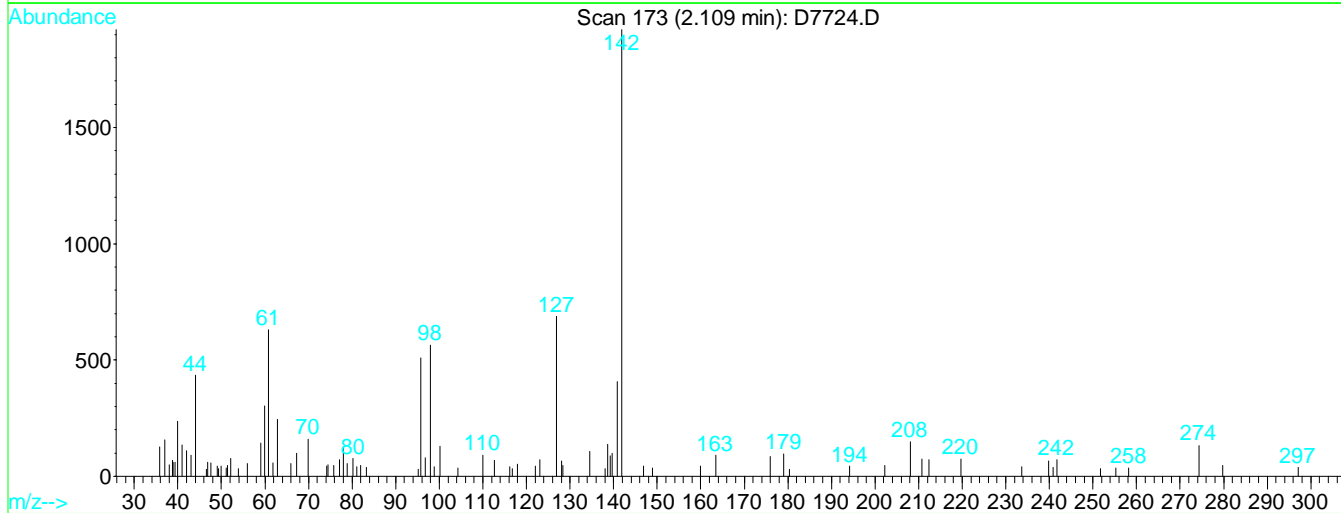
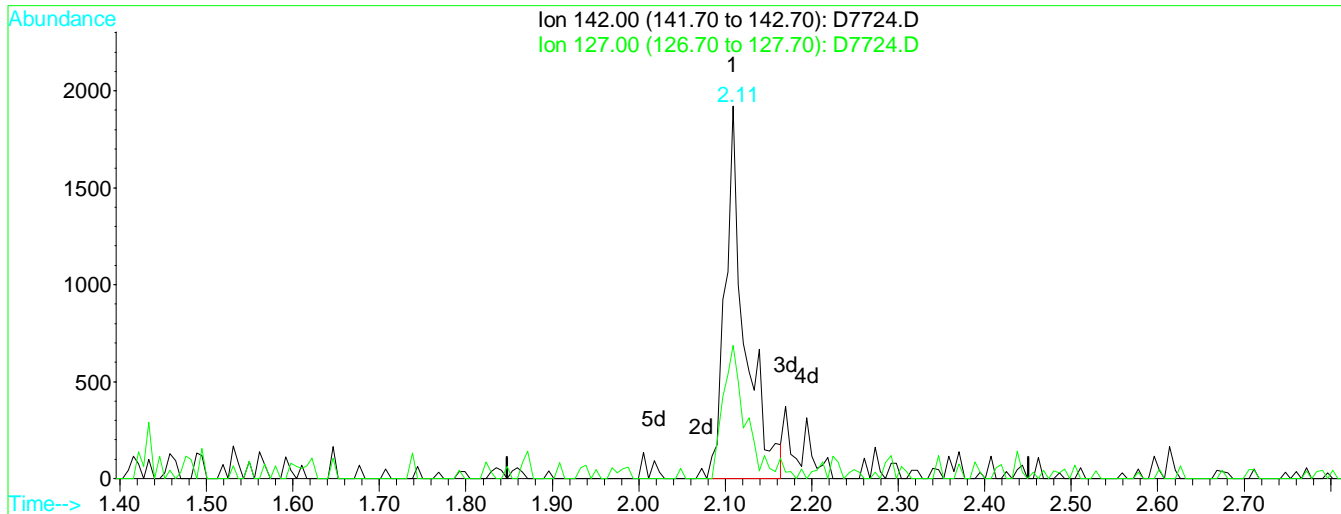
Split Peak.

Ion	Exp%	Act%
142.00	100	100
127.00	48.60	35.81
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:44 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration

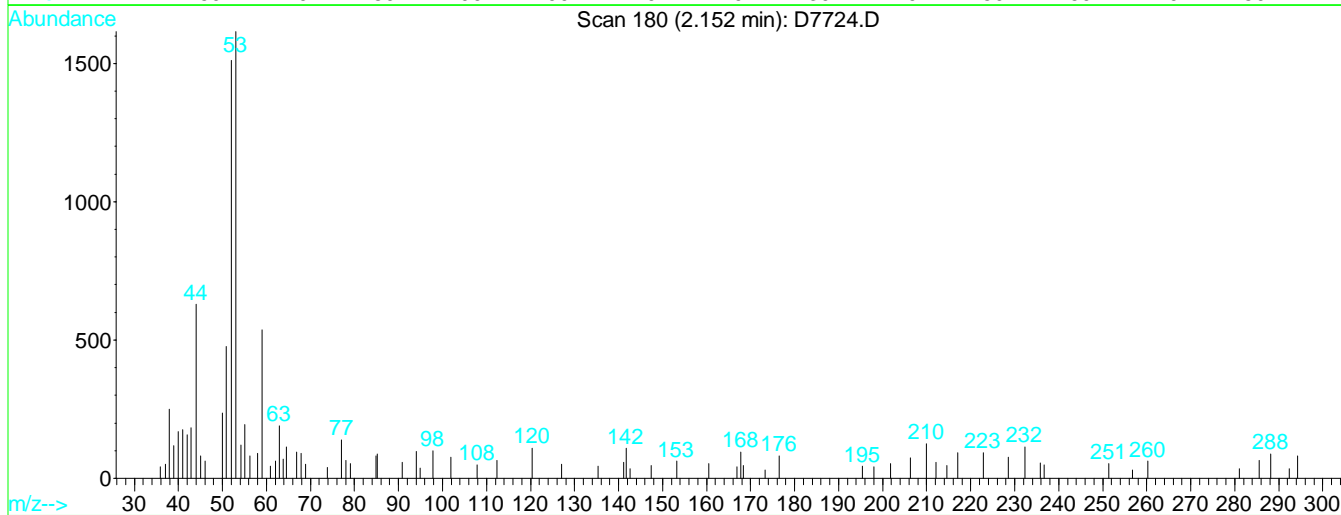
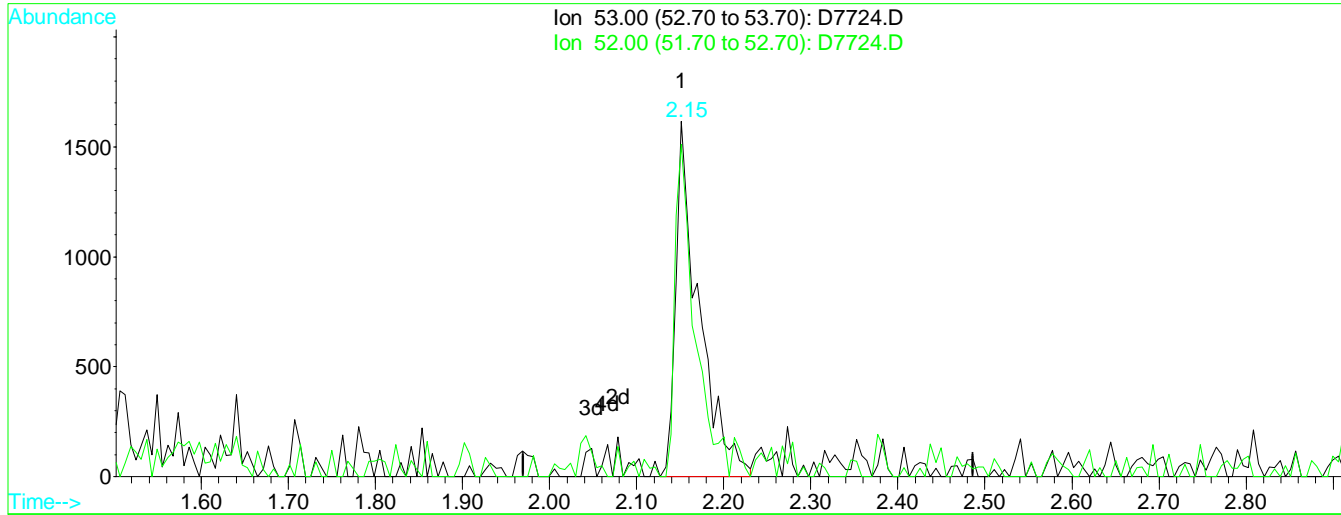


TIC: D7724.D

(17) Iodomethane			Manual Integration:
2.11min	1.01ug/L		Before
response	3000		
Ion	Exp%	Act%	08/25/17
142.00	100	100	
127.00	48.60	35.81	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:45 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(19) Acrylonitrile

Manual Integration:

2.15min 5.36ug/L m

After

response 2966

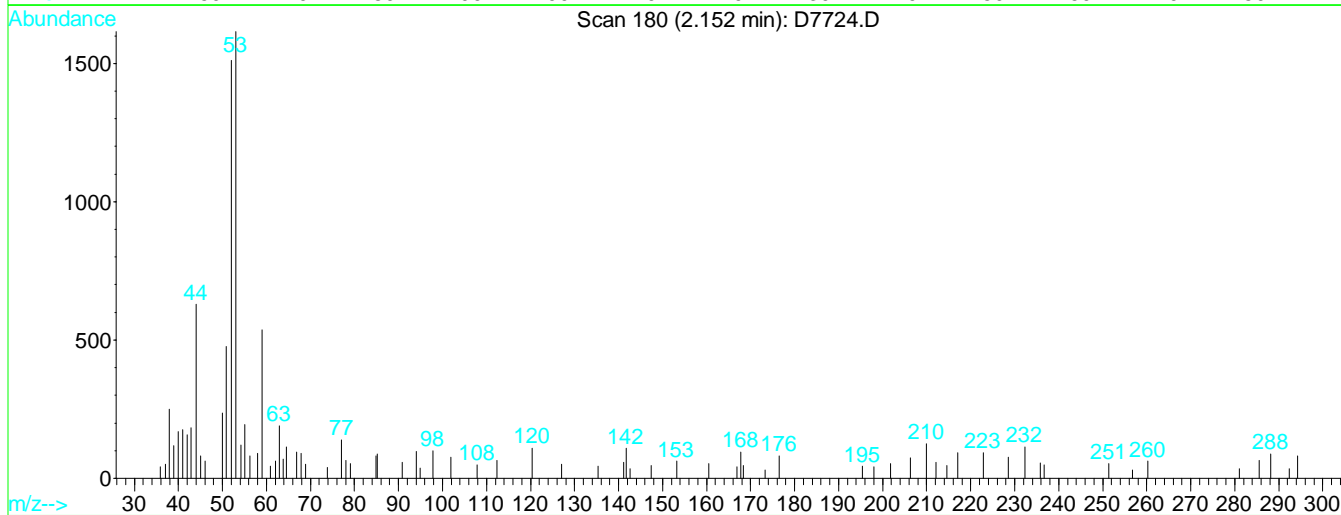
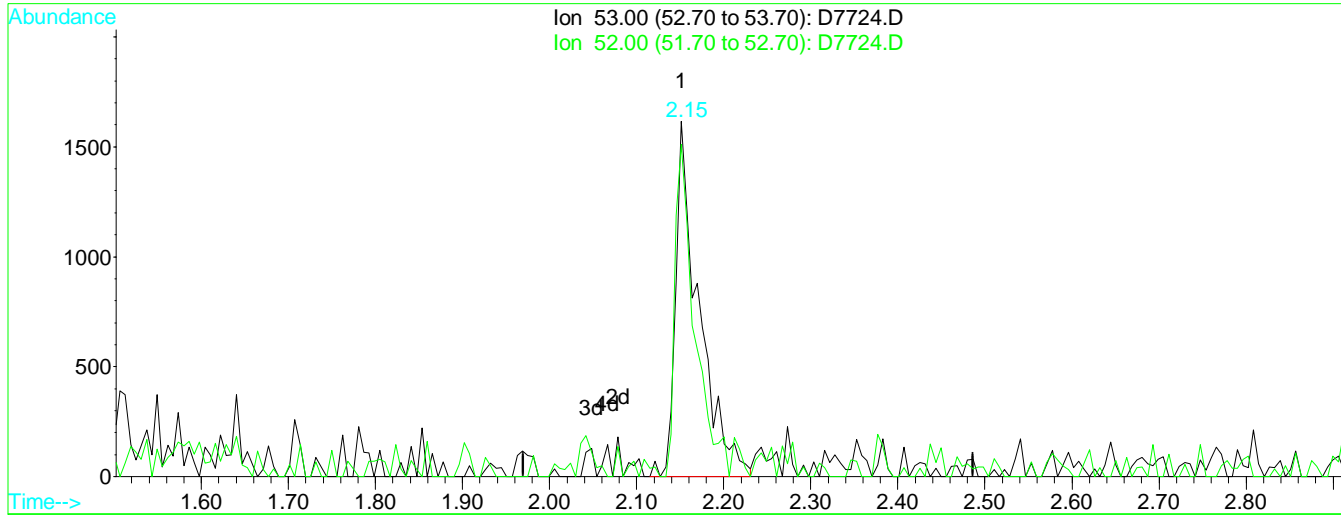
Poor integration.

Ion	Exp%	Act%
53.00	100	100
52.00	83.80	93.62
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:44 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(19) Acrylonitrile  
 2.15min 5.41ug/L  
 response 2992

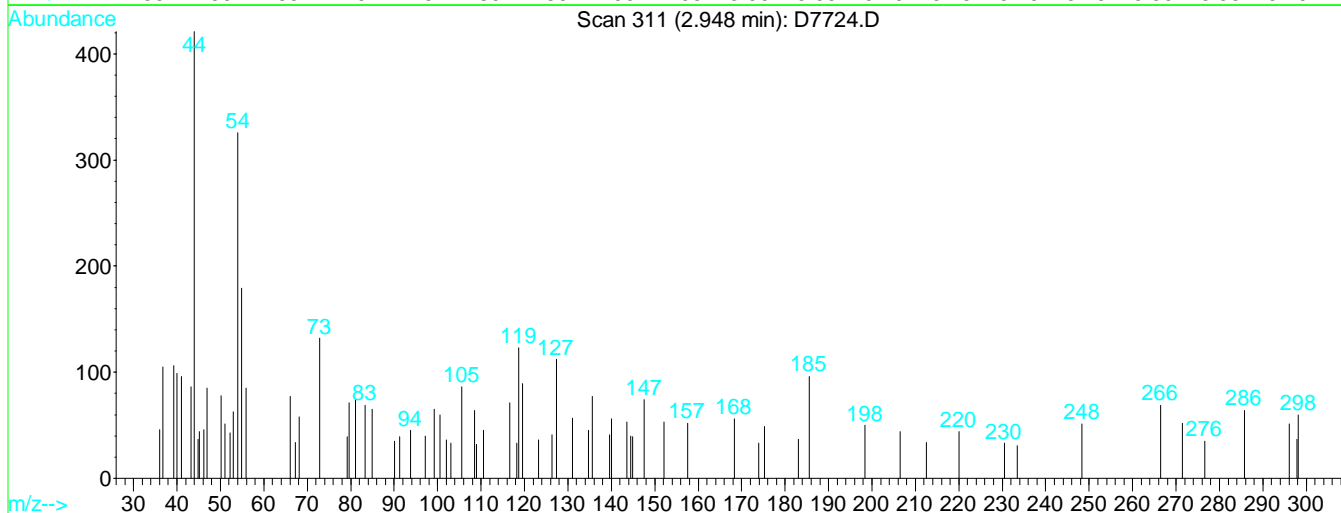
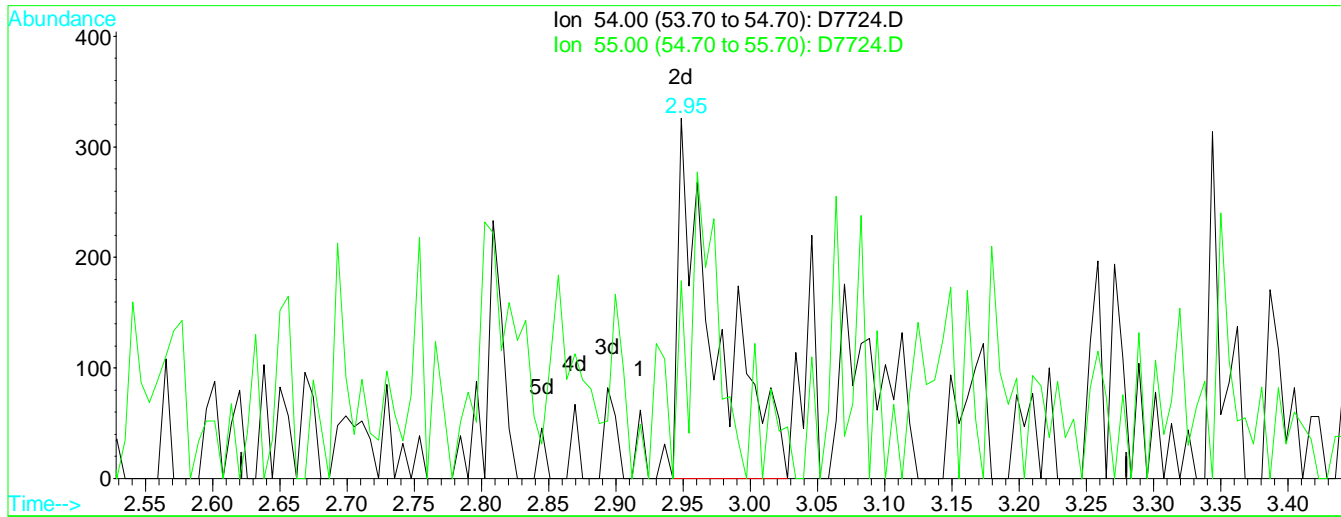
Manual Integration:  
 Before

Ion	Exp%	Act%
53.00	100	100
52.00	83.80	93.62
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:46 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(28) Propionitrile

2.95min 3.16ug/L m

response 629

Ion	Exp%	Act%
54.00	100	100
55.00	15.40	54.91#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

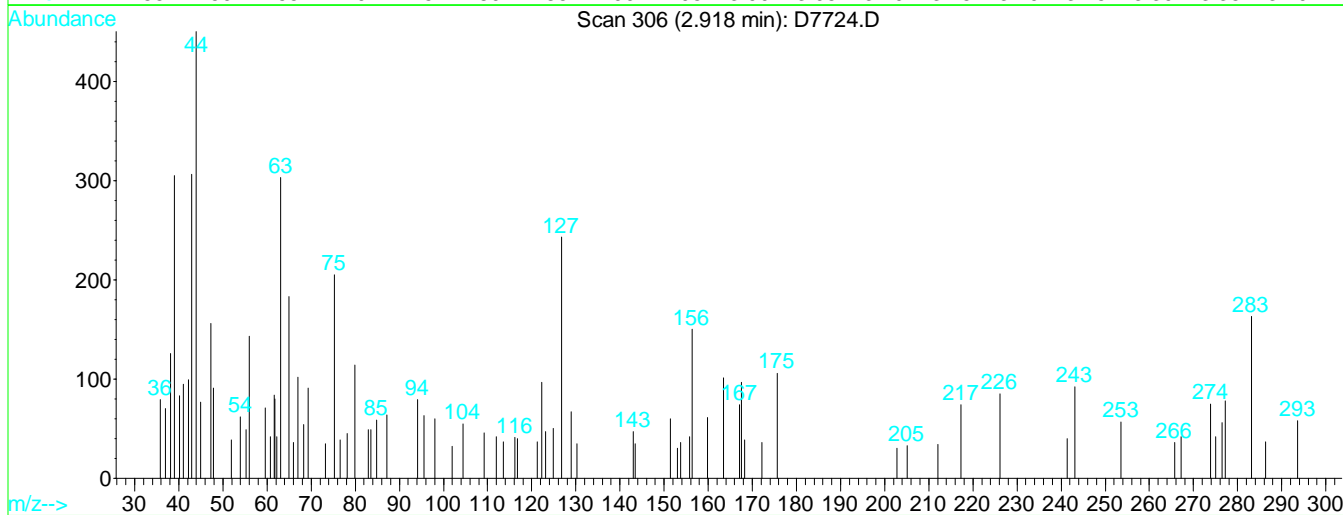
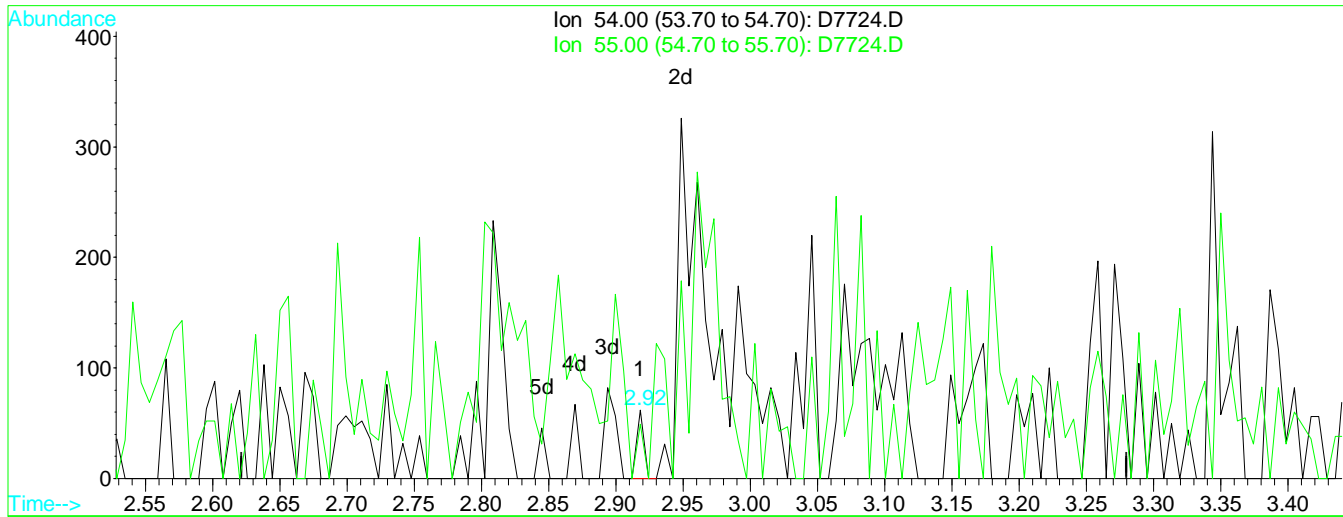
After

Peak not found.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:45 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(28) Propionitrile

Manual Integration:

2.92min 0.12ug/L

Before

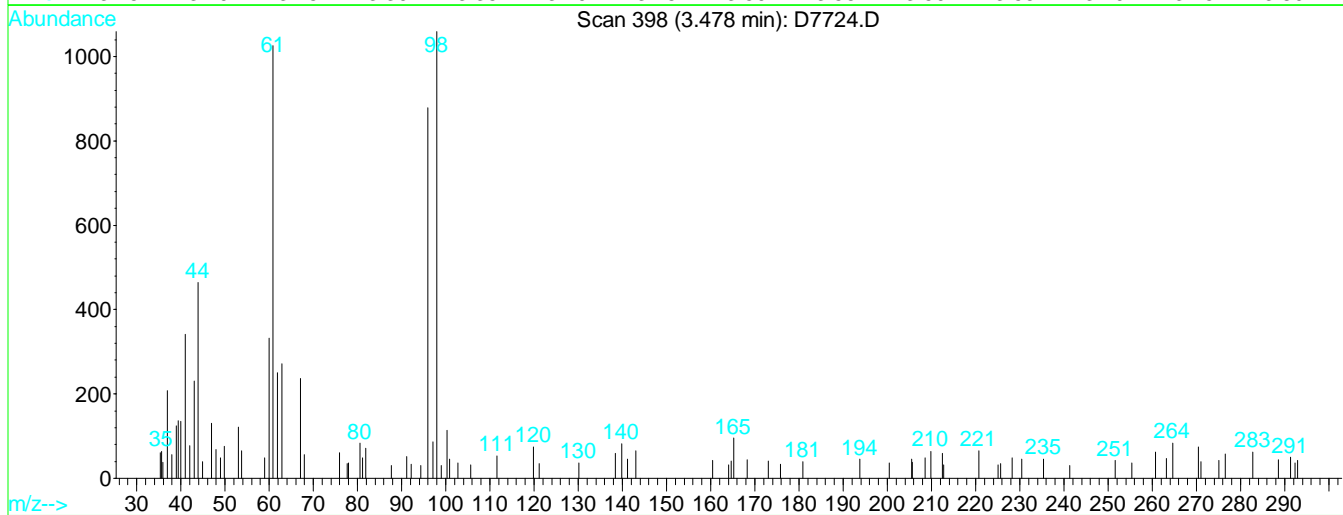
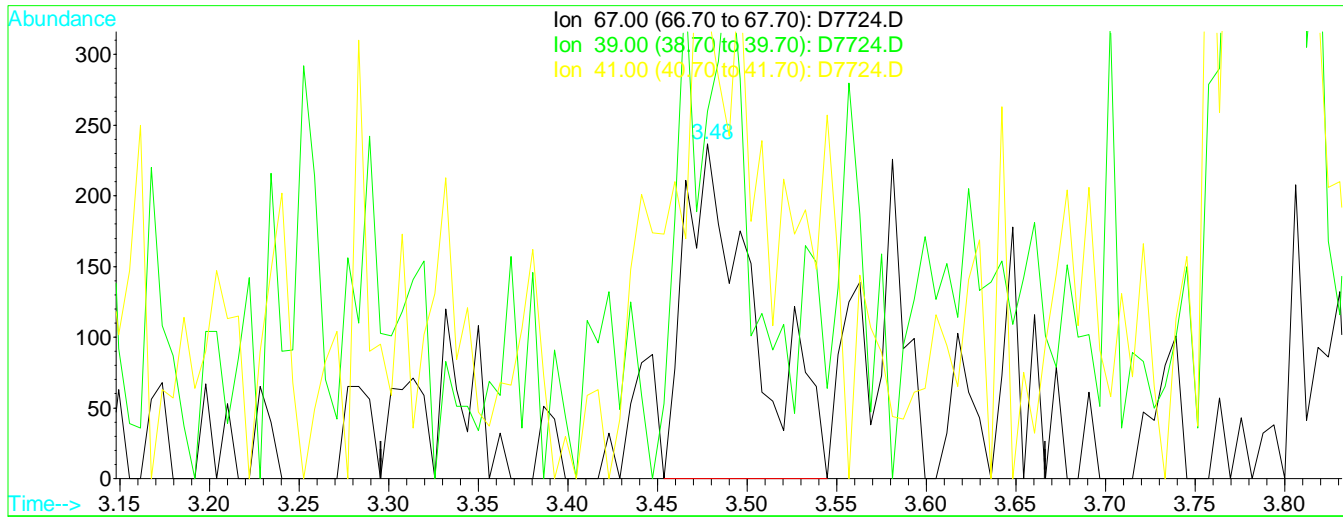
response 23

08/25/17

Ion	Exp%	Act%
54.00	100	100
55.00	15.40	79.03#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:47 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Single Level Calibration



TIC: D7724.D

(32) Methacrylonitrile

Manual Integration:

3.48min 0.98ug/L m

After

response 637

Split Peak.

Ion Exp% Act%

08/25/17

67.00 100 100

39.00 96.70 57.38#

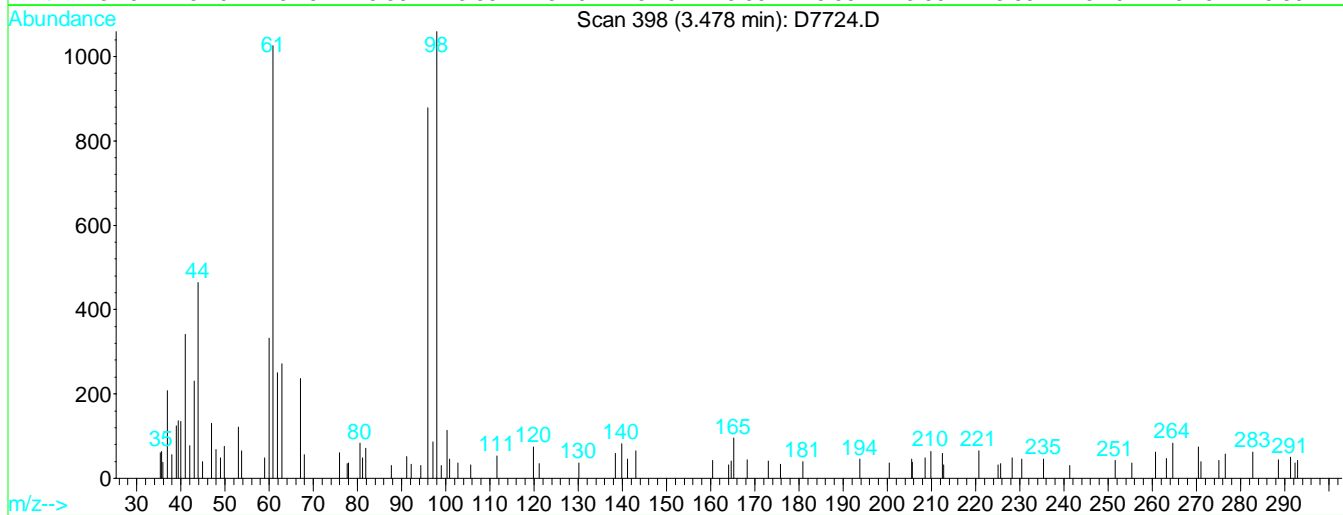
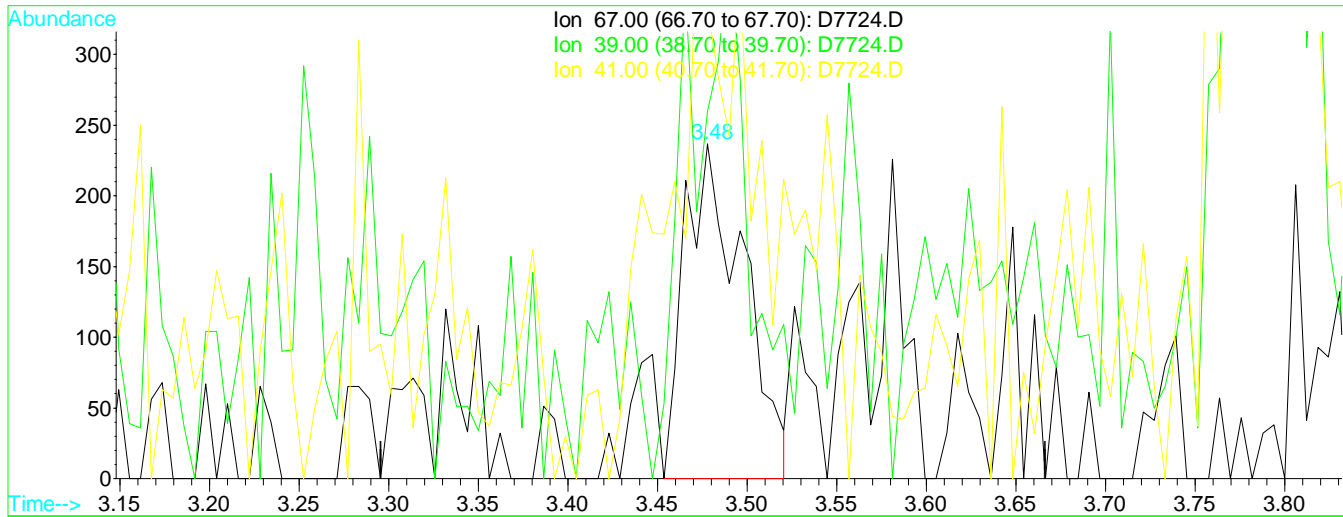
41.00 148.40 143.88

0.00 0.00 0.00



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:46 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Single Level Calibration



TIC: D7724.D

(32) Methacrylonitrile

Manual Integration:

3.48min 0.84ug/L

Before

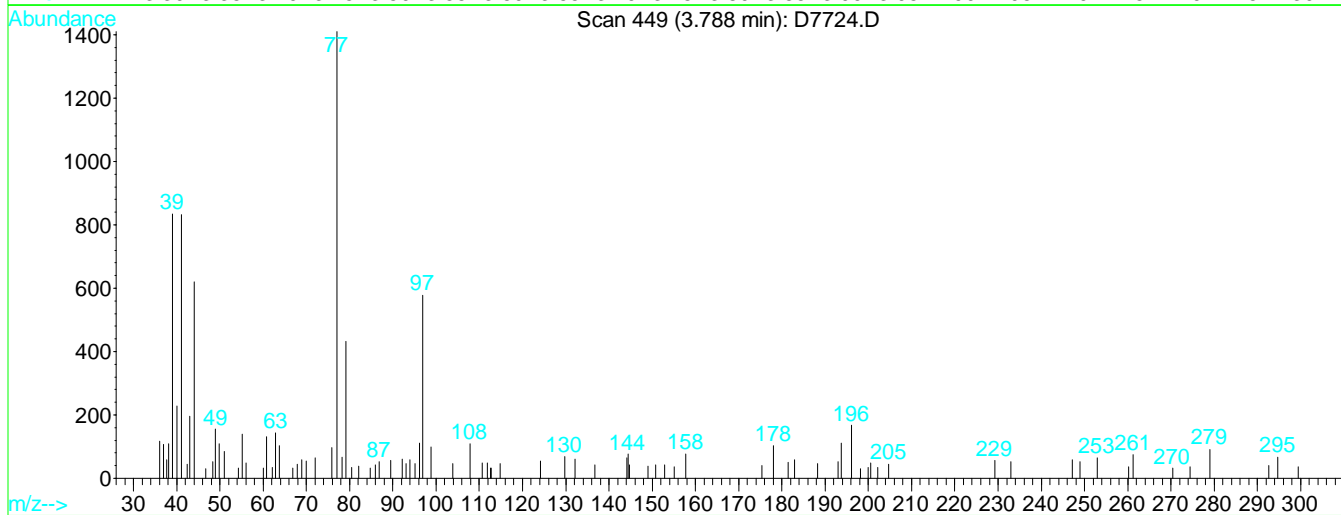
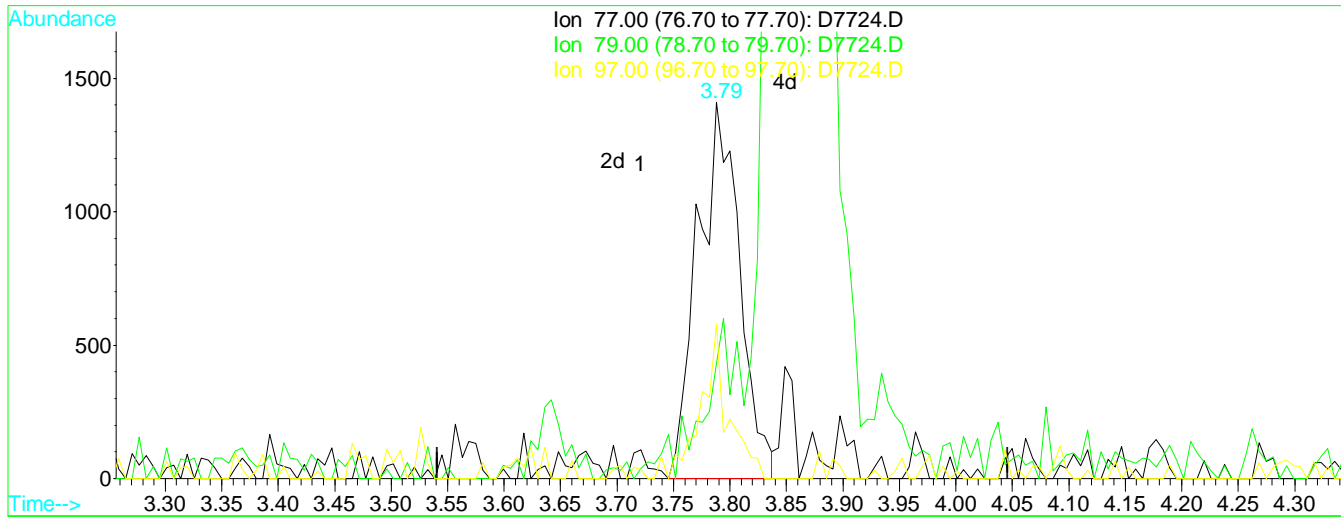
response 542

Ion	Exp%	Act%
67.00	100	100
39.00	96.70	109.70
41.00	148.40	143.88
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:47 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(36) 2,2-Dichloropropane

Manual Integration:

3.79min 1.12ug/L m

After

response 3620

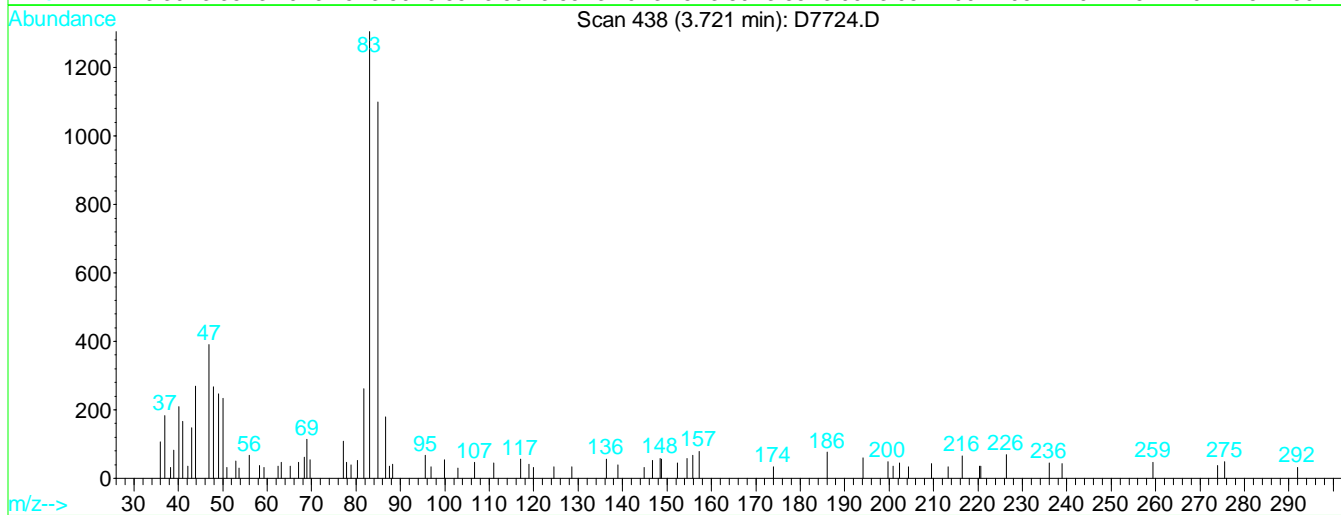
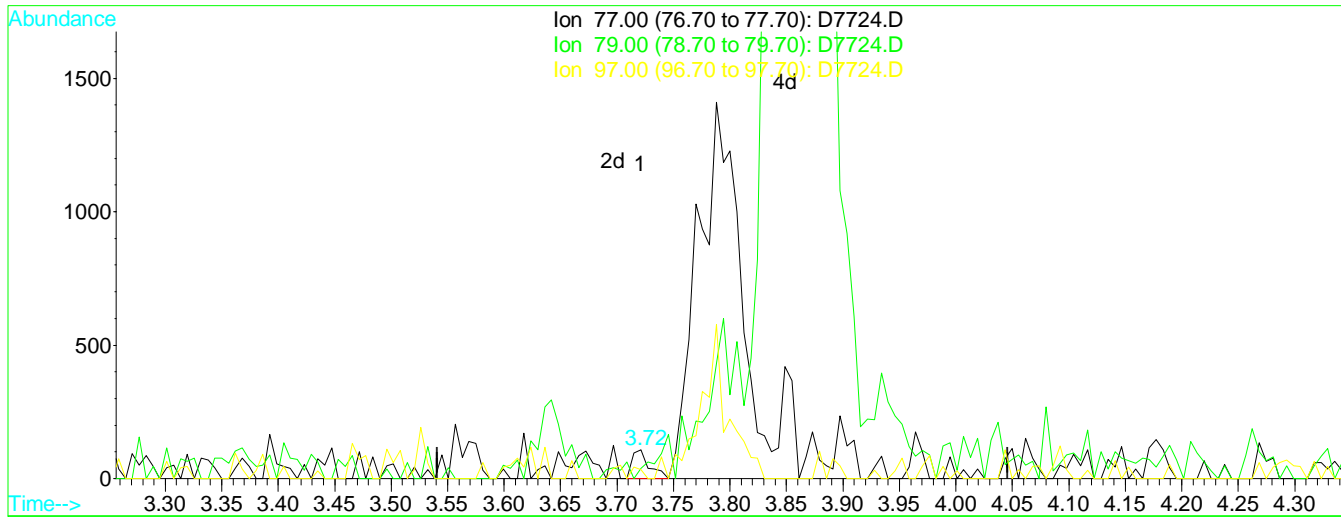
Peak not found.

Ion	Exp%	Act%
77.00	100	100
79.00	32.10	30.64
97.00	19.20	40.99#
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:47 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration

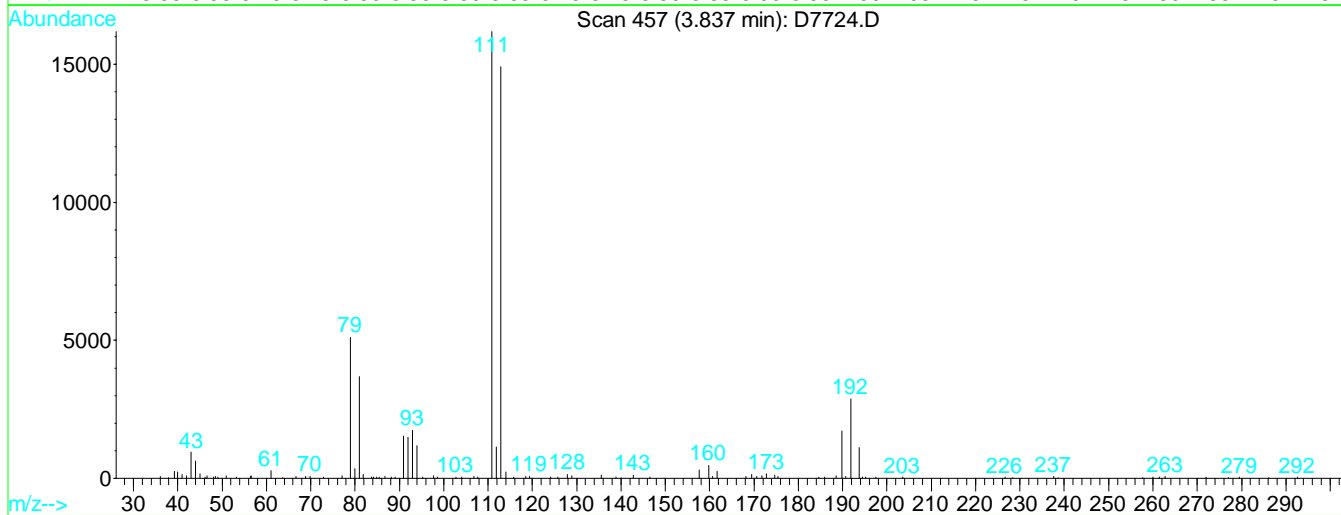
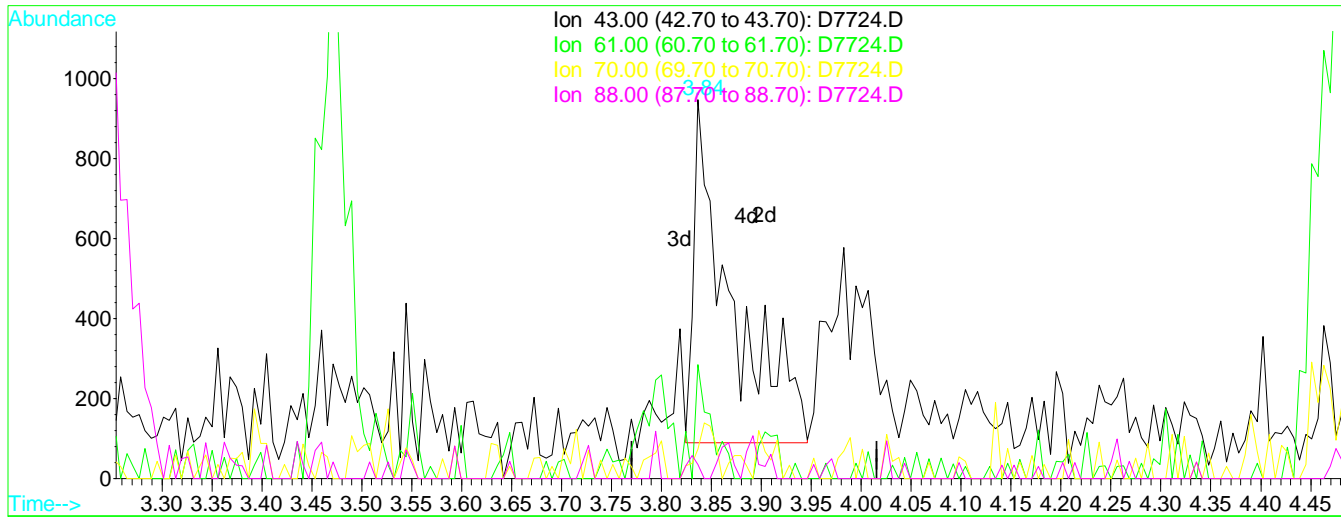


TIC: D7724.D

(36) 2,2-Dichloropropane			Manual Integration:
3.72min	0.03ug/L		Before
response	112		
Ion	Exp%	Act%	08/25/17
77.00	100	100	
79.00	32.10	35.78	
97.00	19.20	31.19	
0.00	0.00	0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:48 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(37) Ethyl Acetate

3.84min 1.56ug/L m

response 2216

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	30.10
70.00	10.60	7.71
88.00	4.70	3.80

Manual Integration:

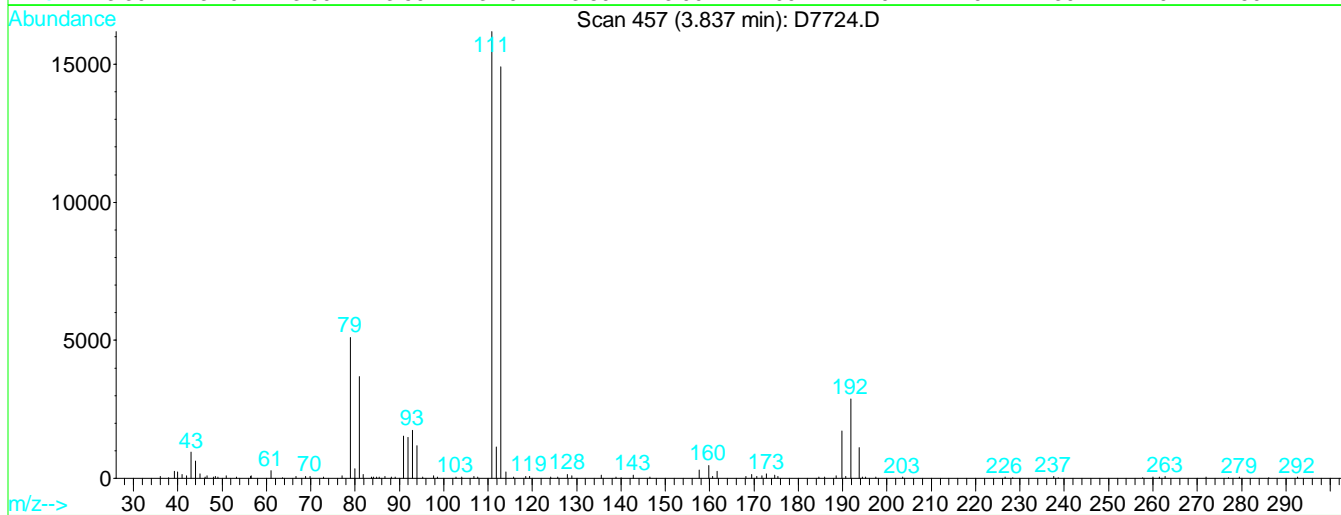
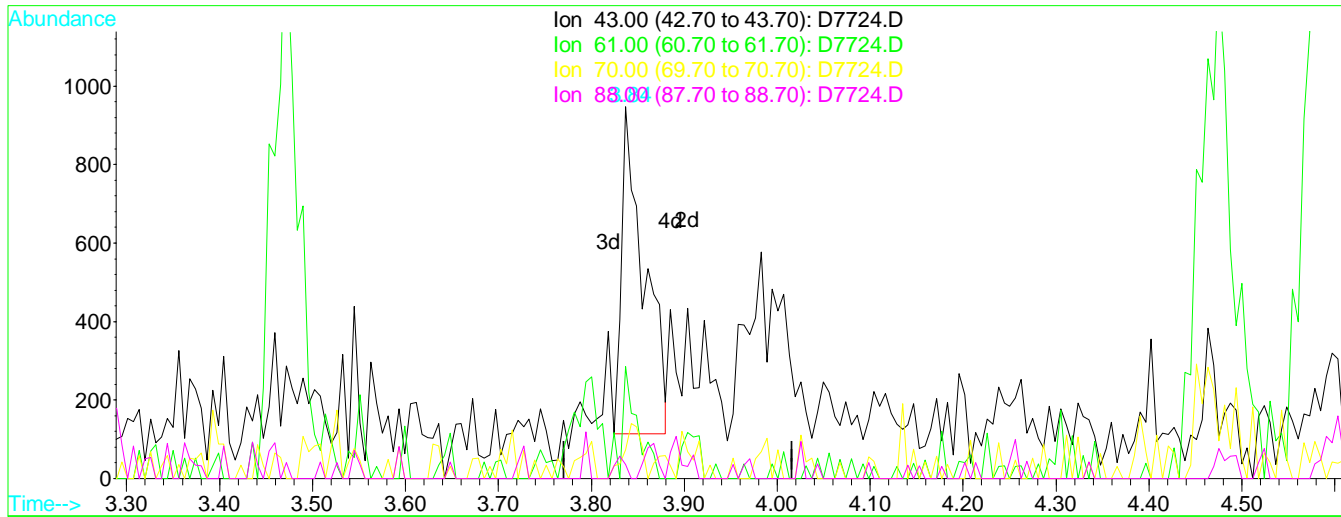
After

Split Peak.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:47 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(37) Ethyl Acetate

Manual Integration:

3.84min 0.98ug/L

Before

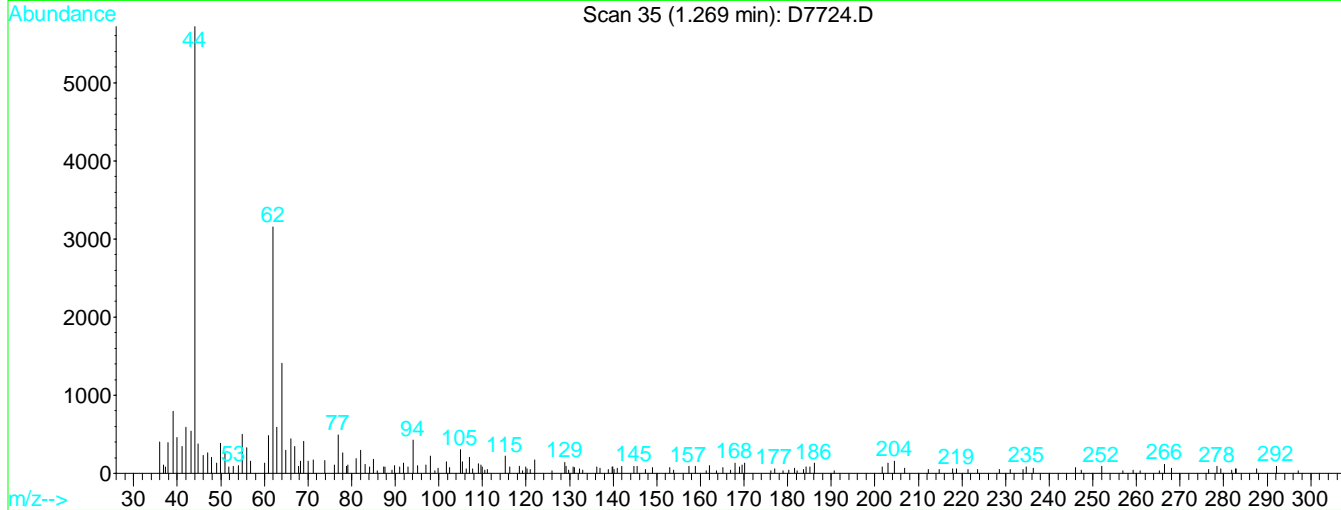
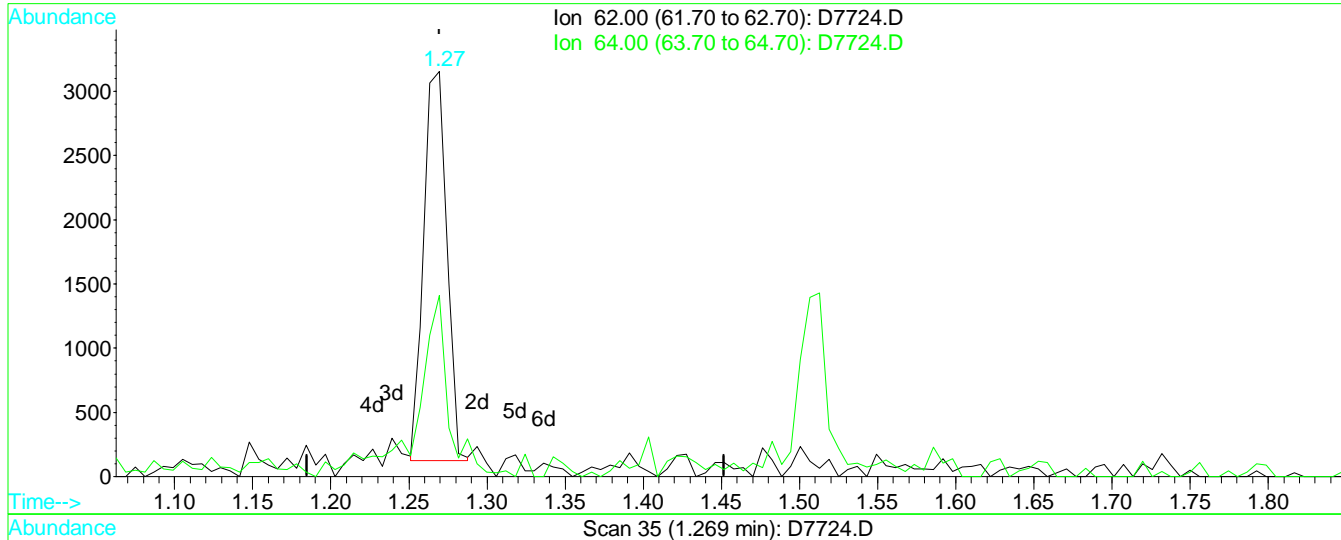
response 1398

08/25/17

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	30.10
70.00	10.60	7.71
88.00	4.70	3.80

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:40 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(4) Vinyl Chloride (P)

1.27min 0.95ug/L m

response 3095

Ion	Exp%	Act%
62.00	100	100
64.00	35.30	44.66
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

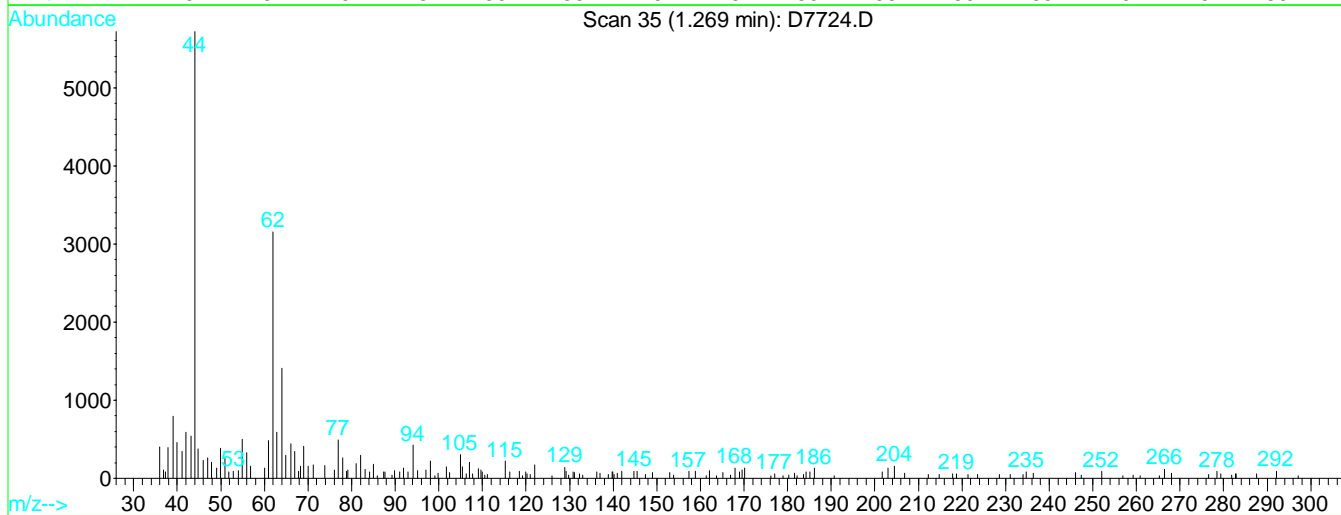
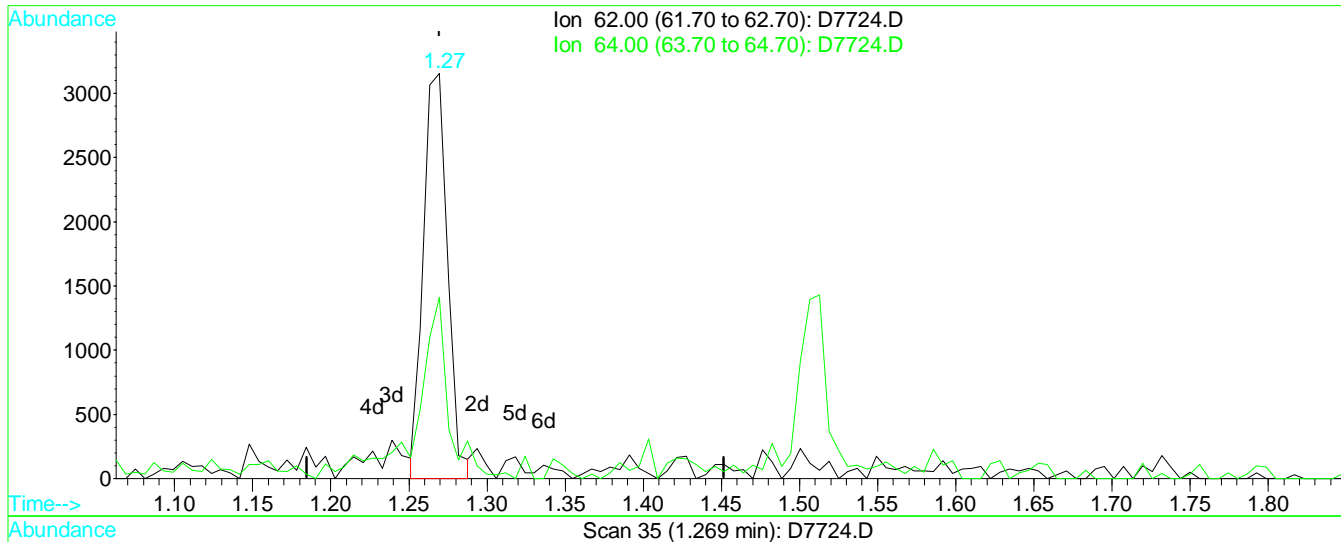
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:39 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(4) Vinyl Chloride (P)

Manual Integration:

1.27min 1.03ug/L

Before

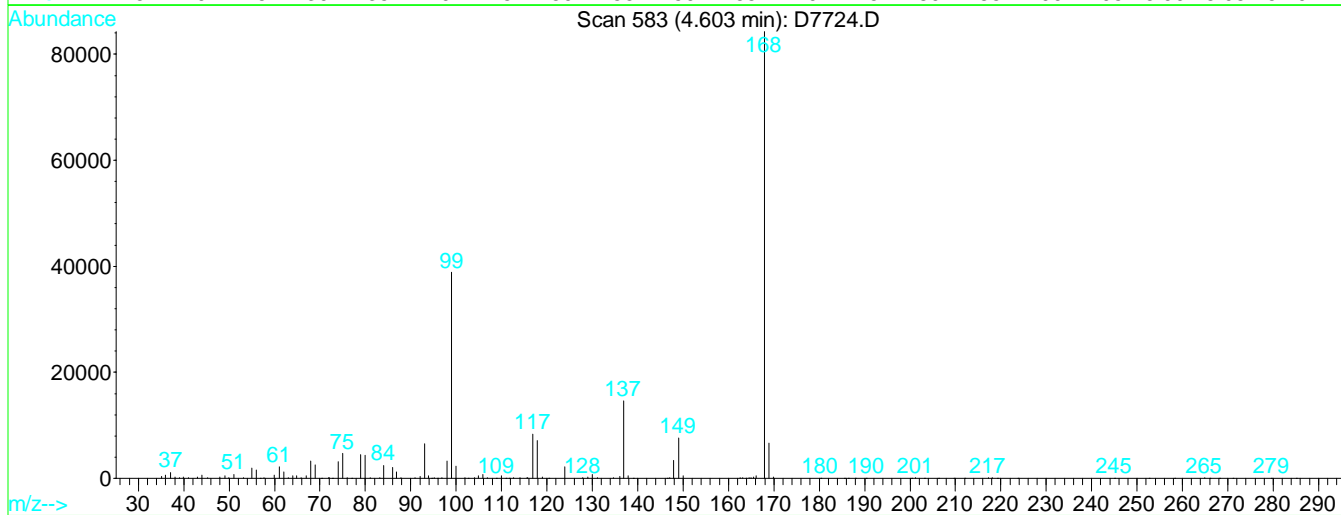
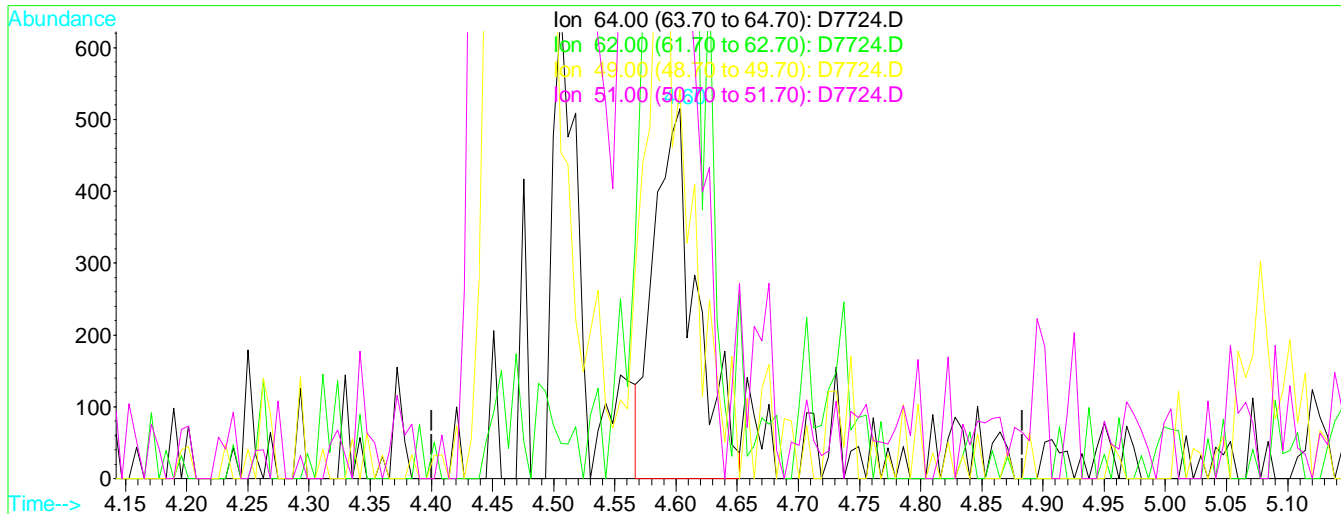
response 3364

Ion	Exp%	Act%
62.00	100	100
64.00	35.30	44.66
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:49 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



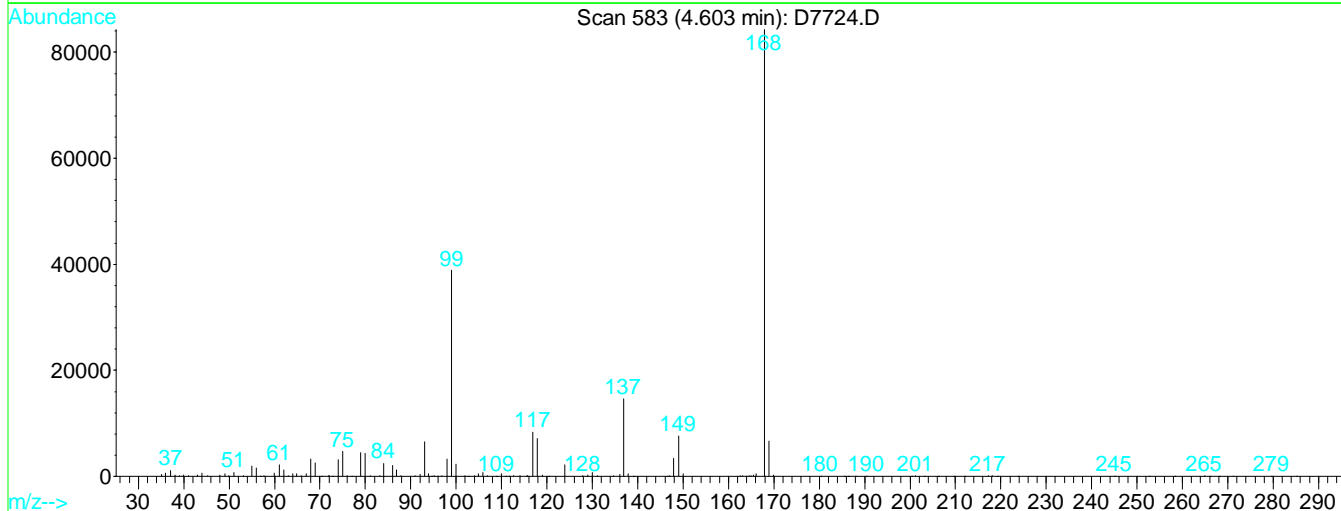
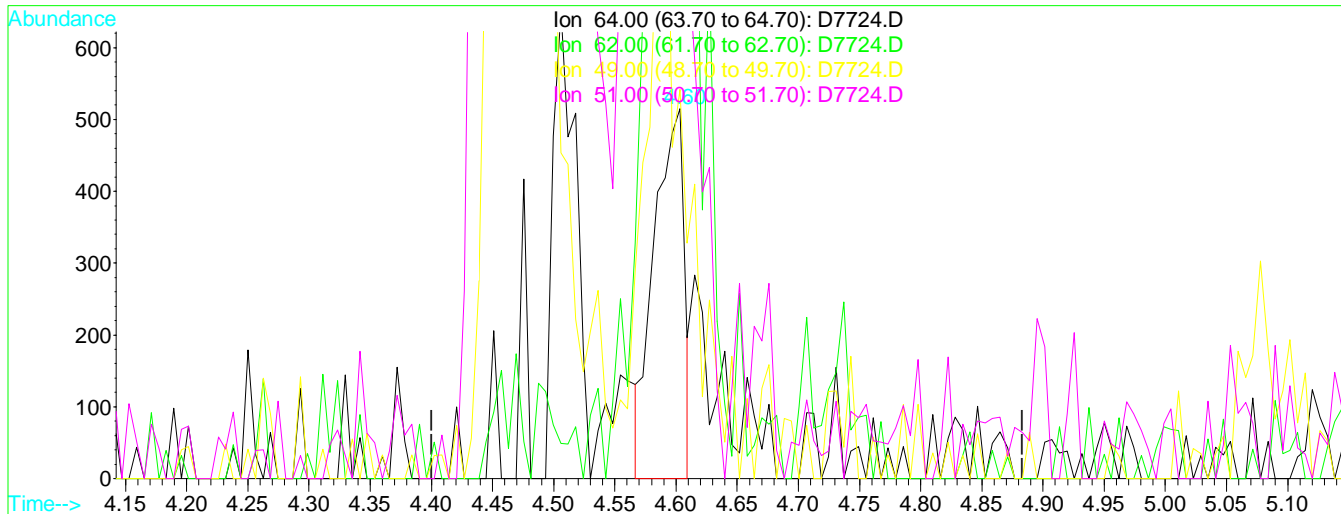
TIC: D7724.D

Retention Time (min)	Concentration (ug/L)	Response	Ion	Exp%	Act%	Notes
4.60	1.28	1233	64.00	100	100	Manual Integration: After Split Peak.
			62.00	291.40	233.59#	
			49.00	77.00	105.24#	
			51.00	29.80	153.01#	



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:48 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

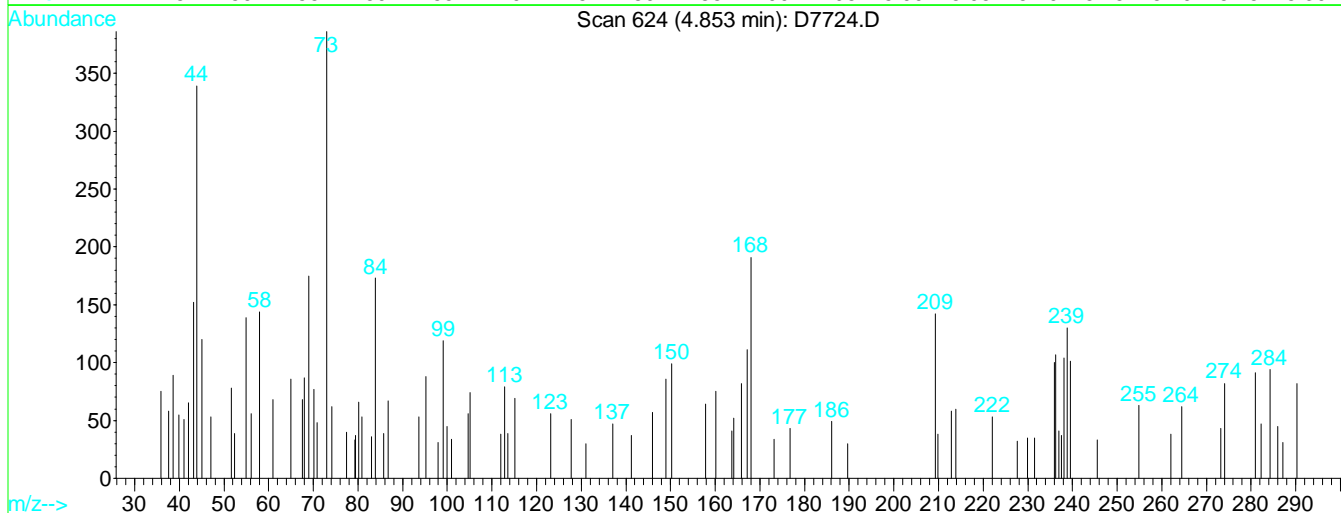
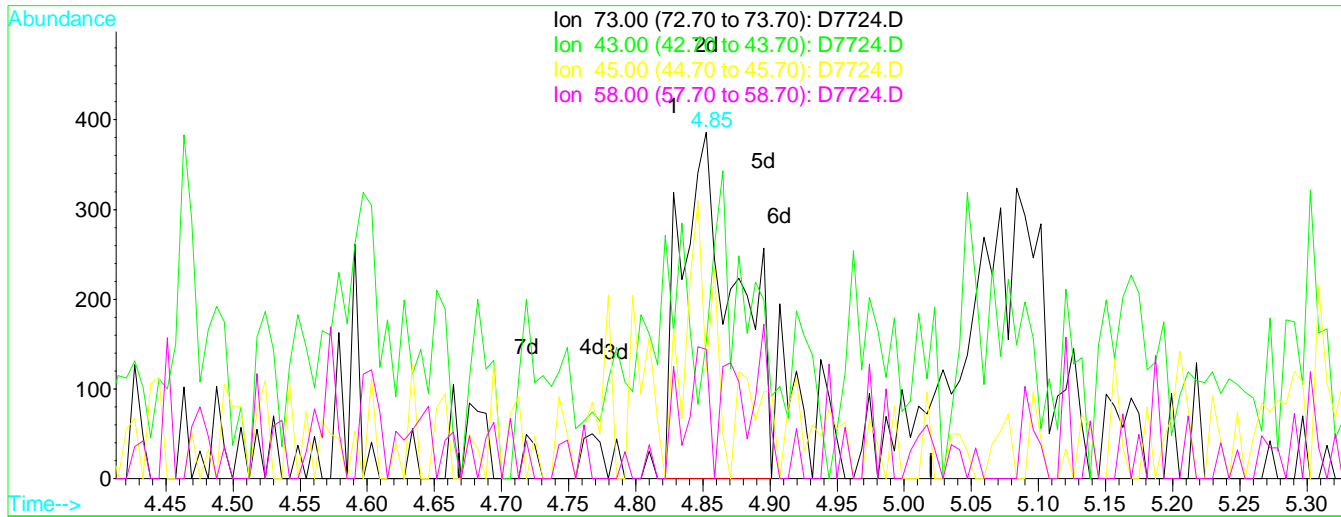
Retention Time (min)	Abundance	Integration Status
4.60	882	Manual Integration: Before

Ion	Exp%	Act%	Date
64.00	100	100	08/25/17
62.00	291.40	233.59#	
49.00	77.00	105.24#	
51.00	29.80	153.01#	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:50 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



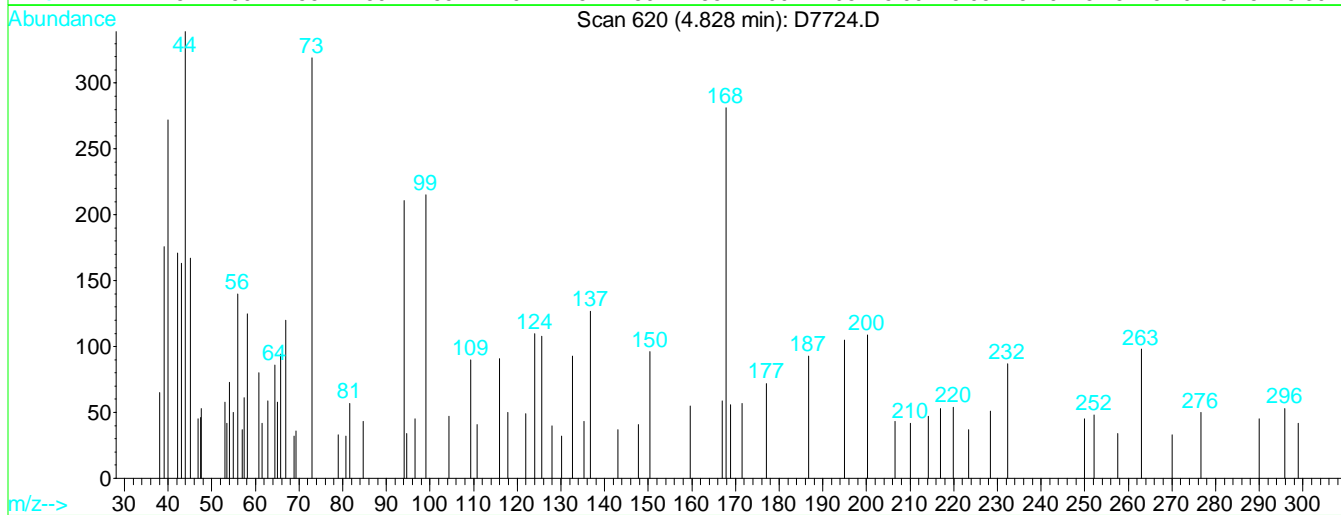
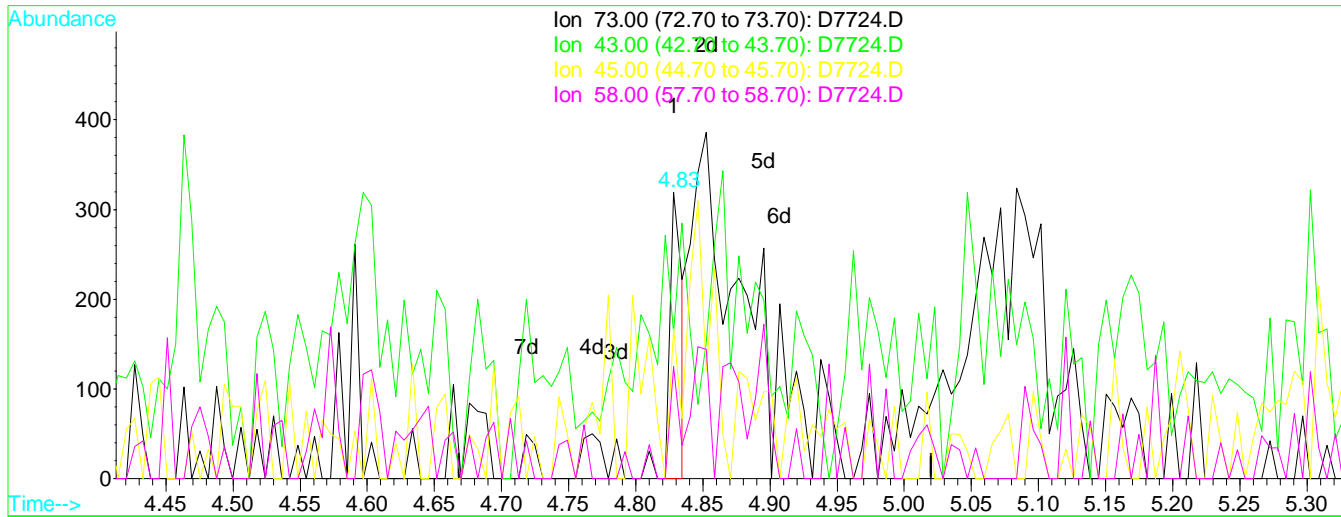
TIC: D7724.D

(45) 2-Methyl-1,3-Dioxolane	Manual Integration:	
4.85min 4.72ug/L m	After	
response 1097	Peak not found.	
Ion	Exp%	Act%
73.00	100	100
43.00	45.30	39.38
45.00	44.60	31.09
58.00	21.20	37.31

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:49 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(45) 2-Methyl-1,3-Dioxolane

Manual Integration:

4.83min 0.85ug/L

Before

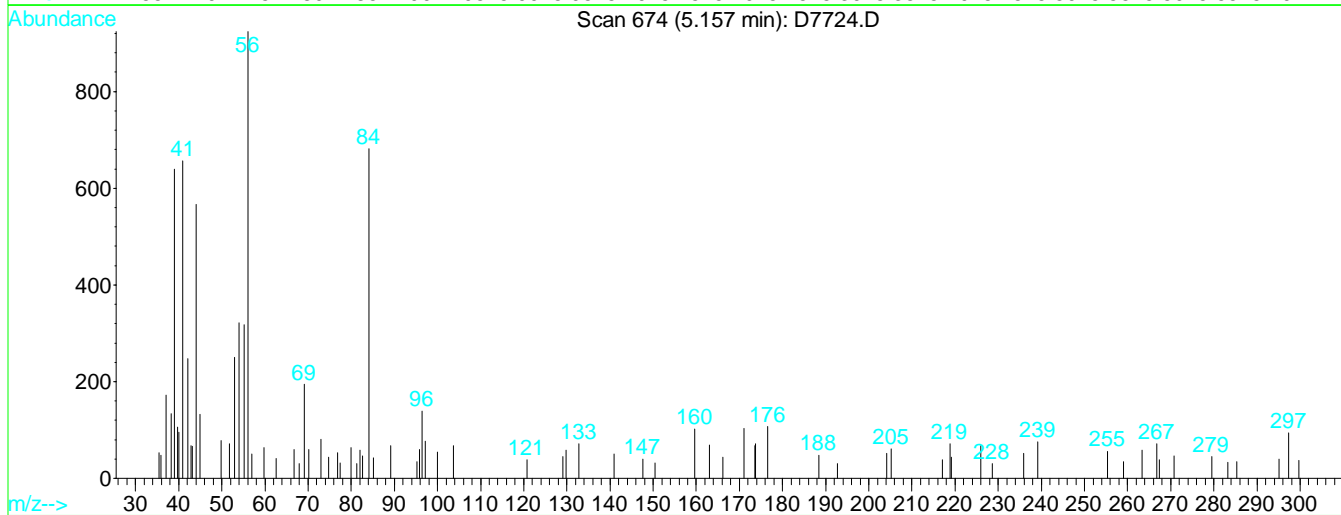
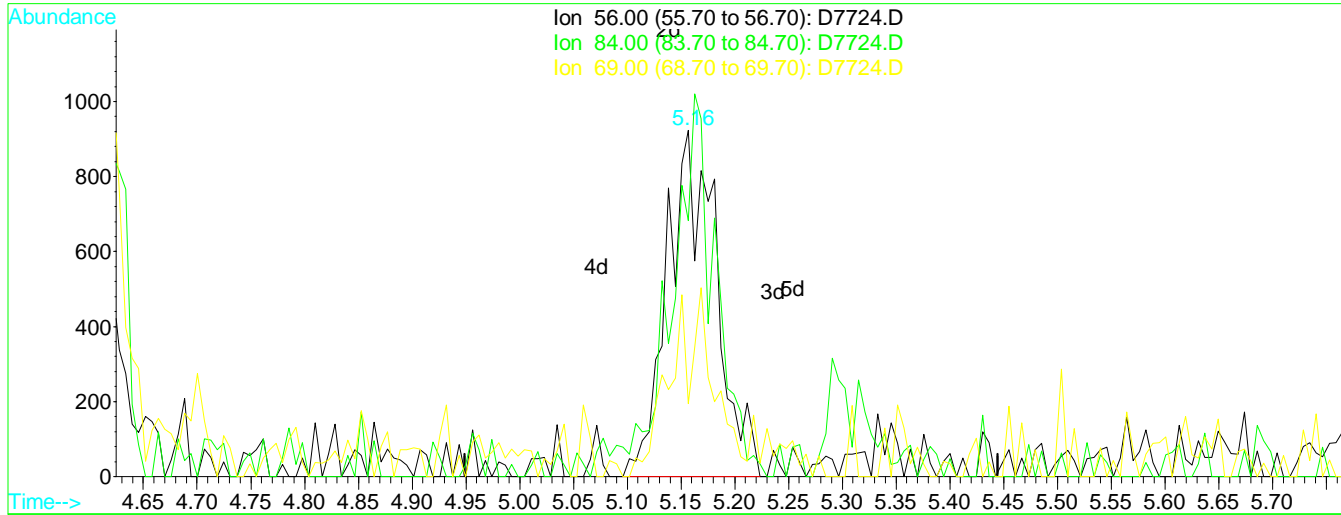
response 197

08/25/17

Ion	Exp%	Act%
73.00	100	100
43.00	45.30	51.10
45.00	44.60	52.35
58.00	21.20	39.18

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:50 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(47) Cyclohexane (P)

Manual Integration:

5.16min 1.13ug/L m

After

response 2940

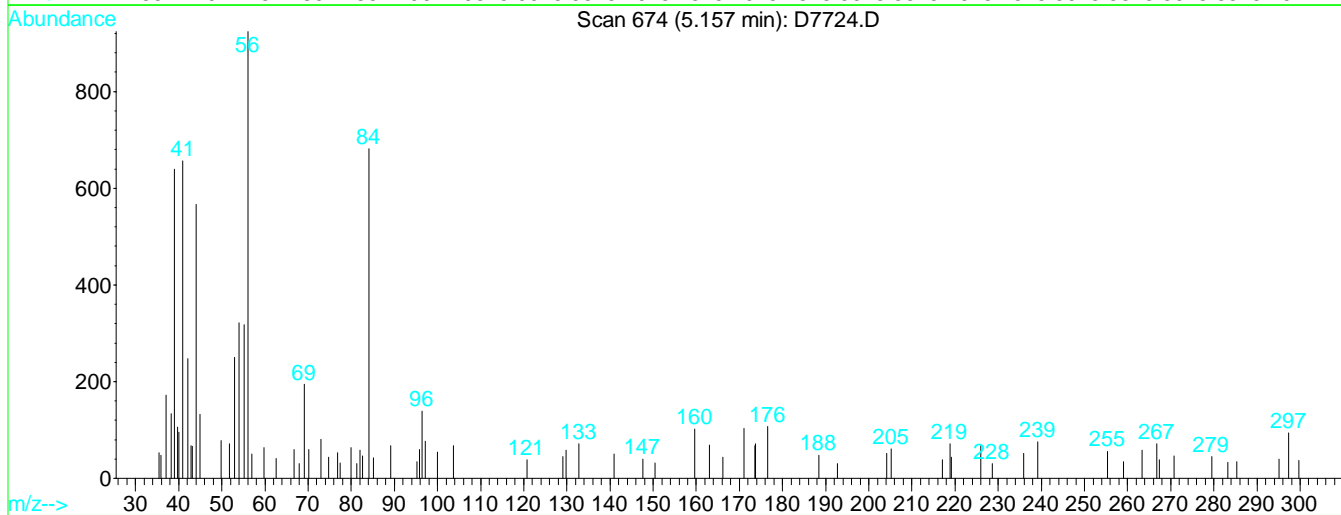
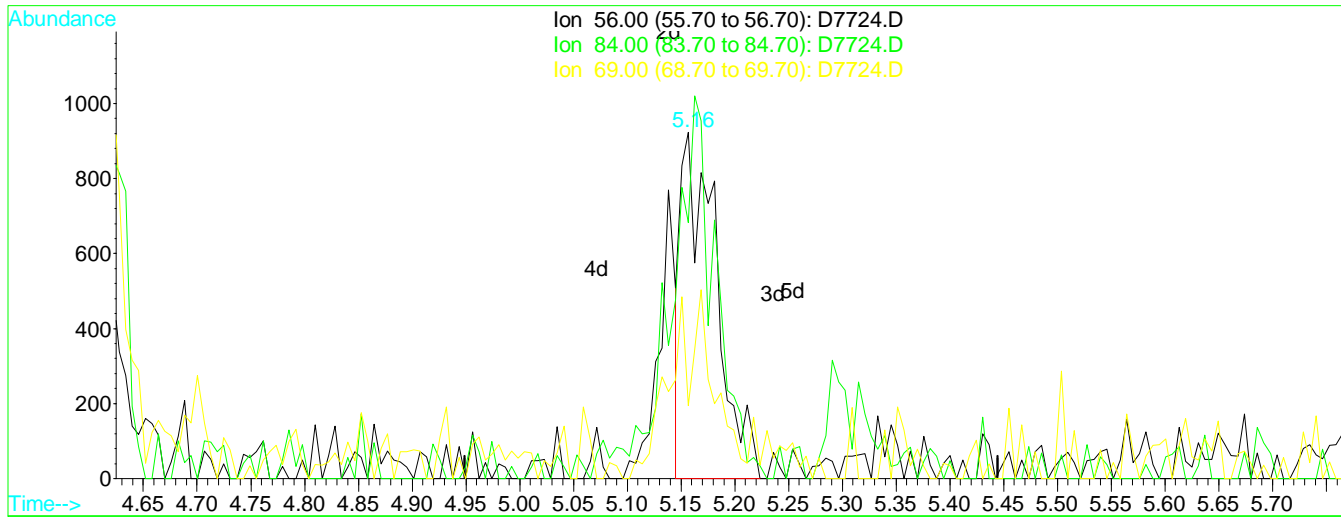
Split Peak.

Ion	Exp%	Act%
56.00	100	100
84.00	92.00	73.81
69.00	31.60	21.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:50 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(47) Cyclohexane (P)

Manual Integration:

5.16min 0.81ug/L

Before

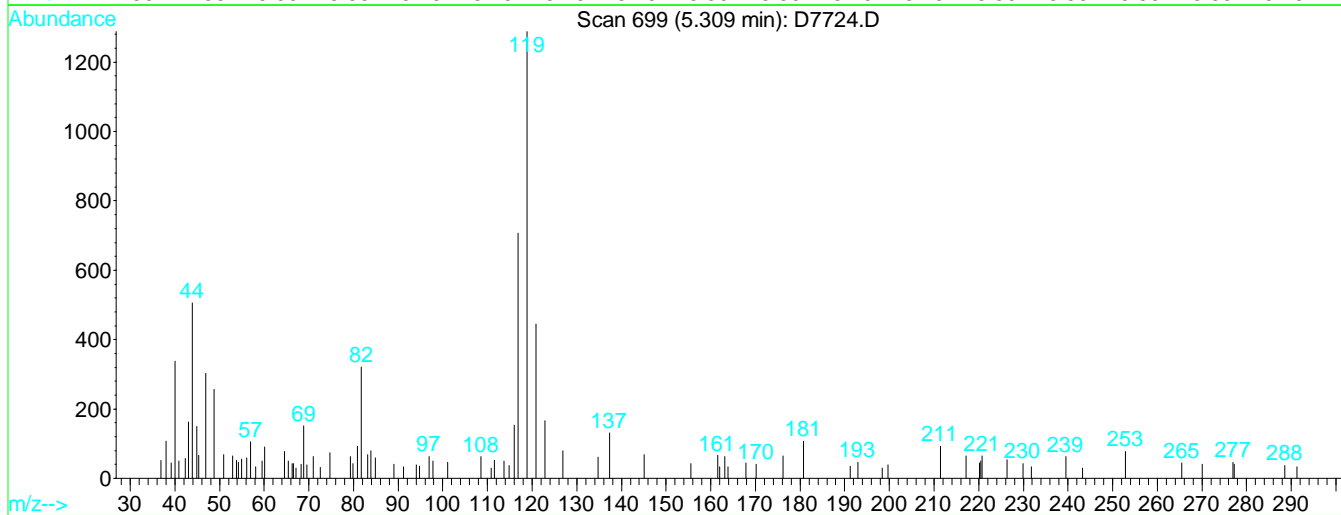
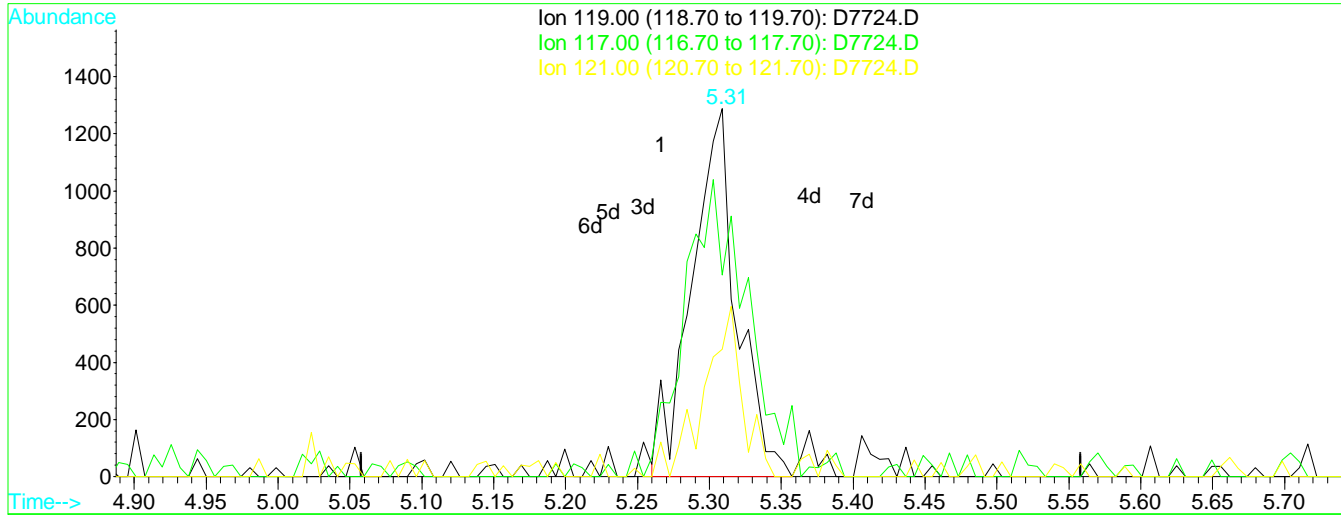
response 2122

Ion	Exp%	Act%
56.00	100	100
84.00	92.00	73.81
69.00	31.60	21.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:51 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(48) Carbontetrachloride (P)

Manual Integration:

5.31min 1.00ug/L m

After

response 2822

Peak not found.

Ion Exp% Act%

08/25/17

119.00 100 100

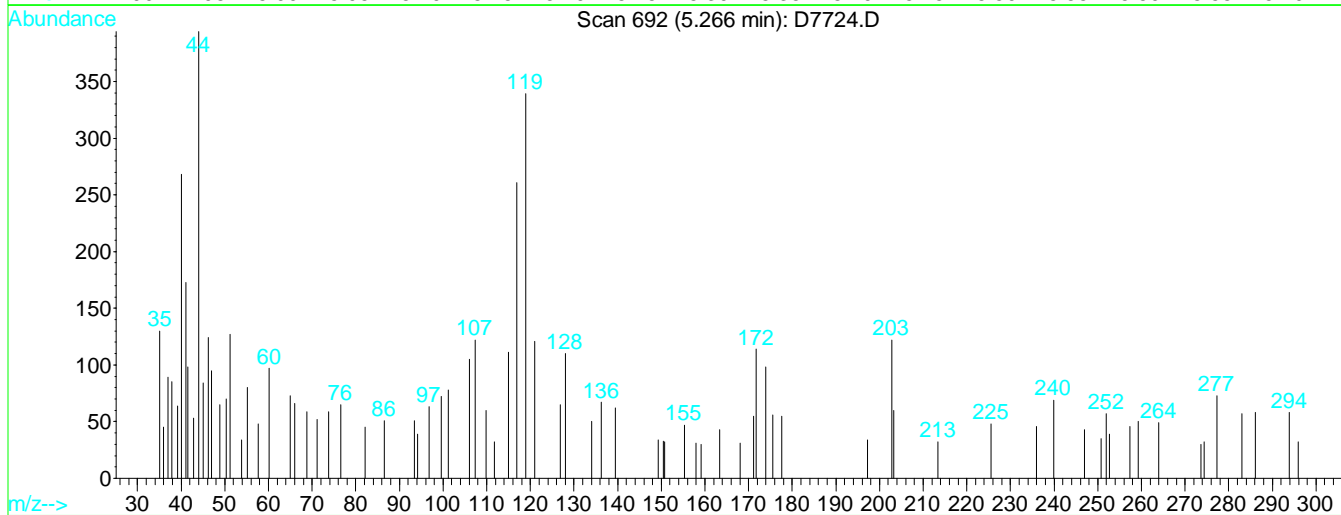
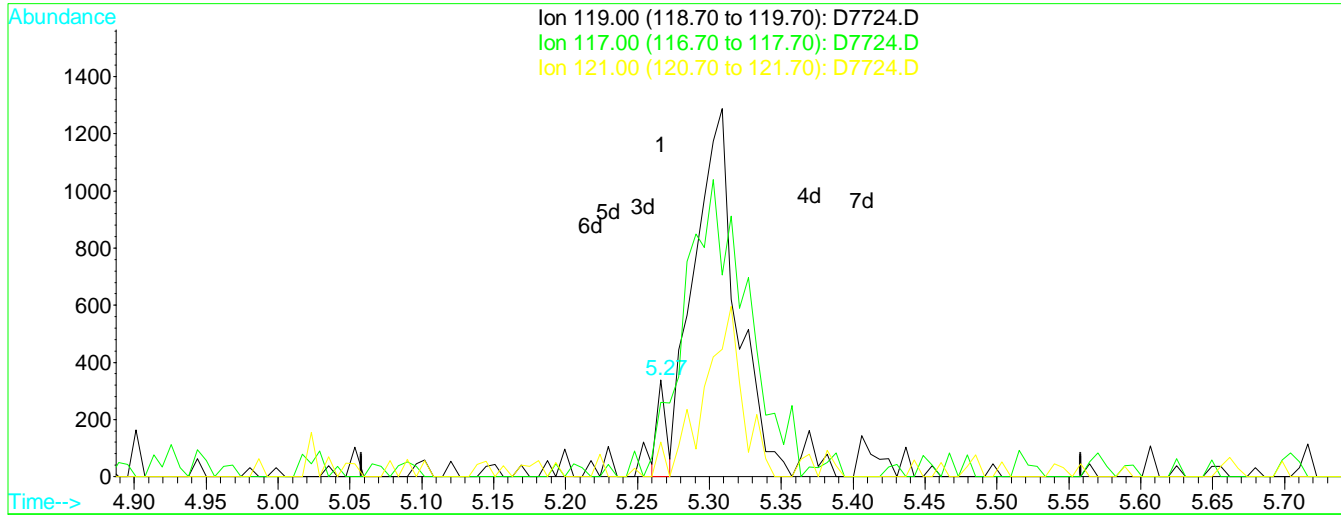
117.00 96.70 54.89#

121.00 33.20 34.55

0.00 0.00 0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:50 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(48) Carbontetrachloride (P)

Manual Integration:

5.27min 0.05ug/L

Before

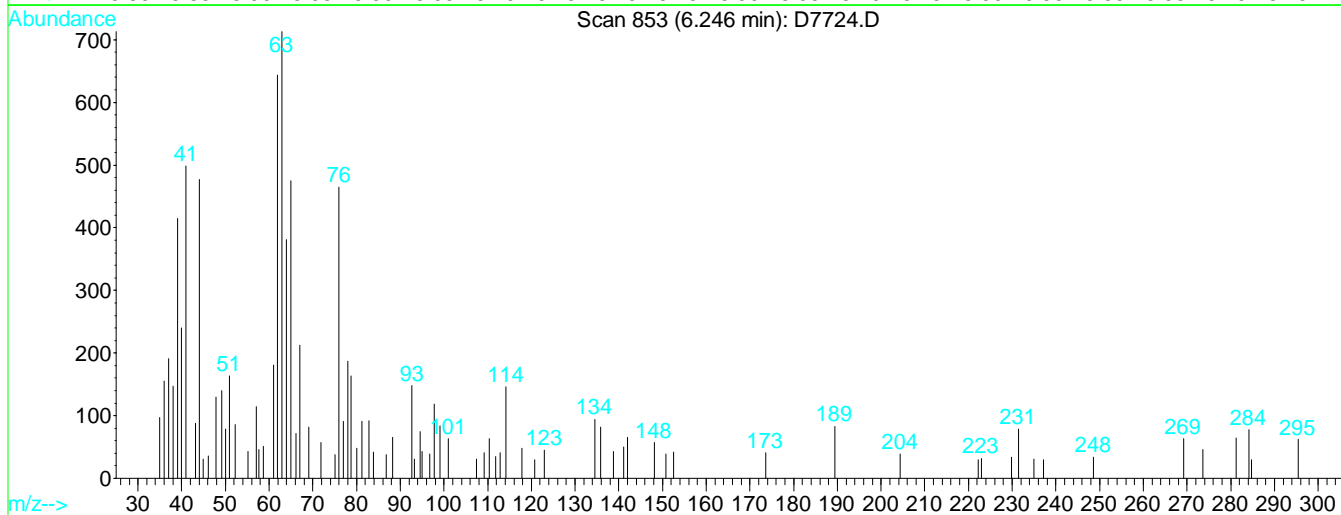
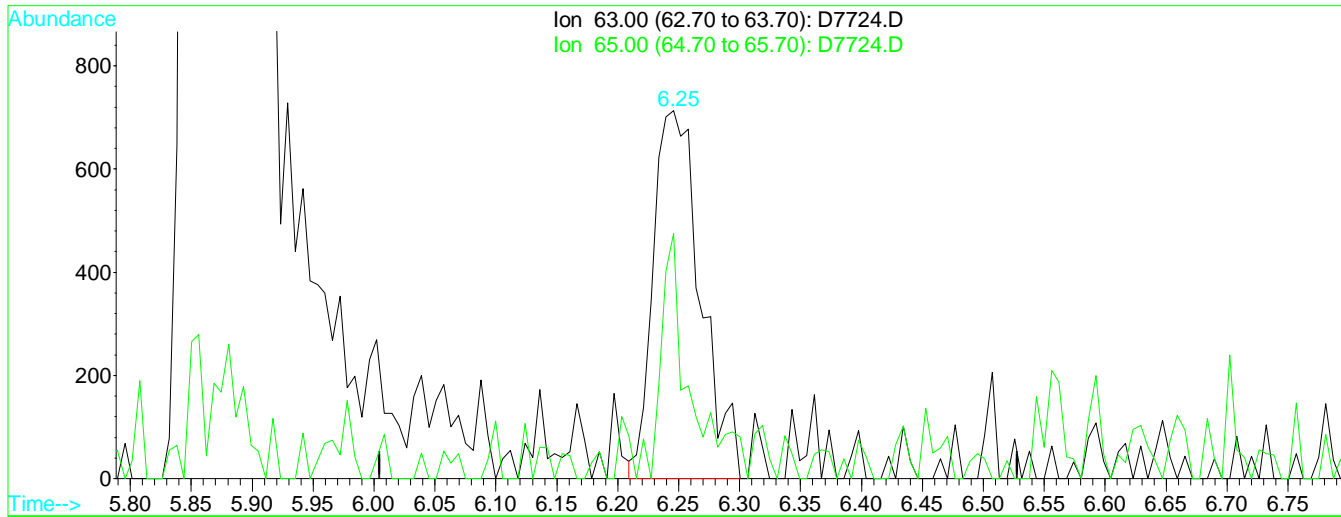
response 146

Ion	Exp%	Act%
119.00	100	100
117.00	96.70	76.99
121.00	33.20	35.69
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:51 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(52) 1,2-Dichloropropane (P)

Manual Integration:

6.25min 1.10ug/L m

After

response 1919

Poor integration.

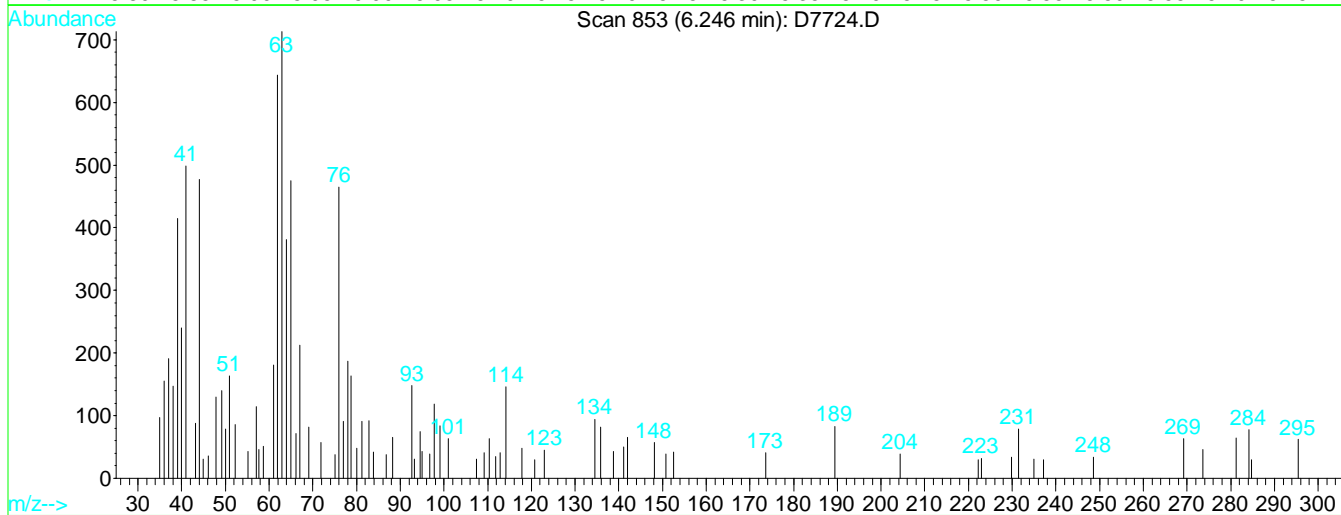
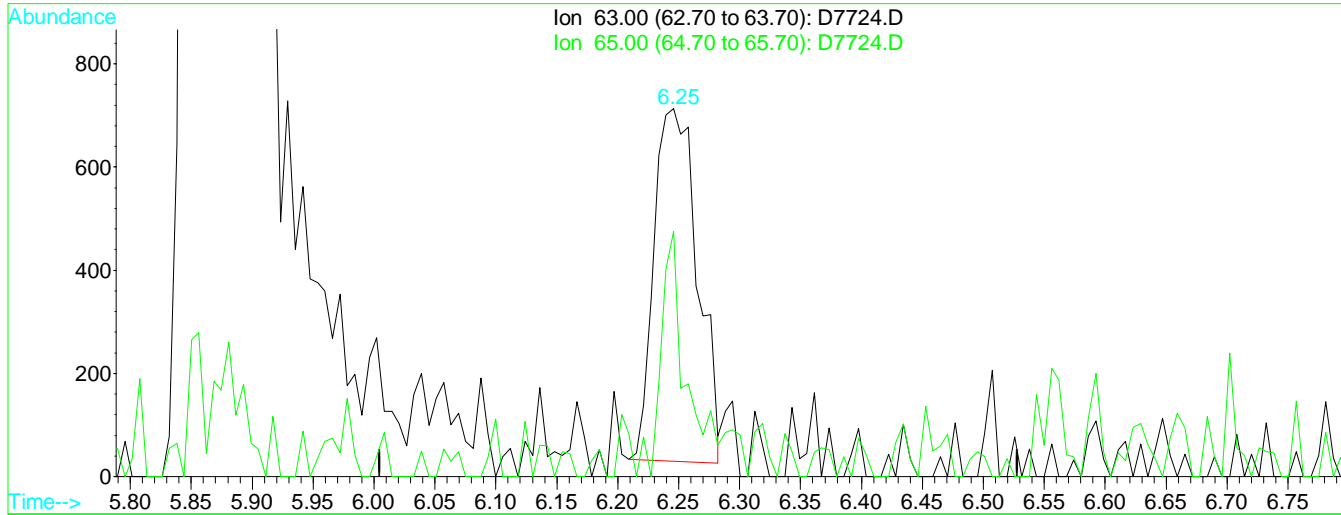
Ion	Exp%	Act%
63.00	100	100
65.00	30.10	39.13
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:51 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(52) 1,2-Dichloropropane (P)

Manual Integration:

6.25min 0.96ug/L

Before

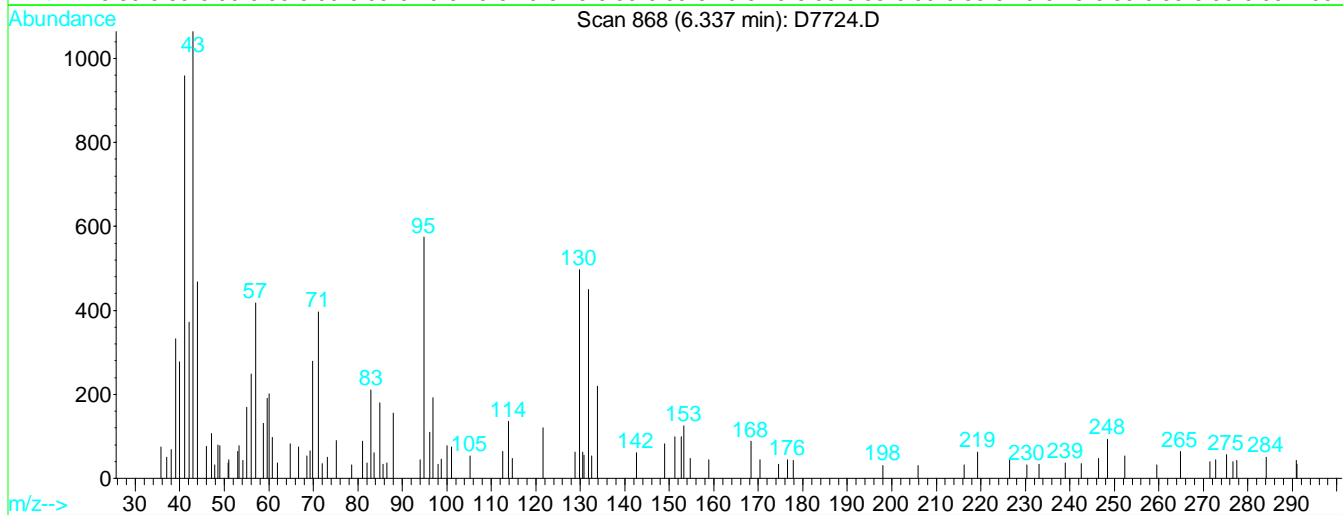
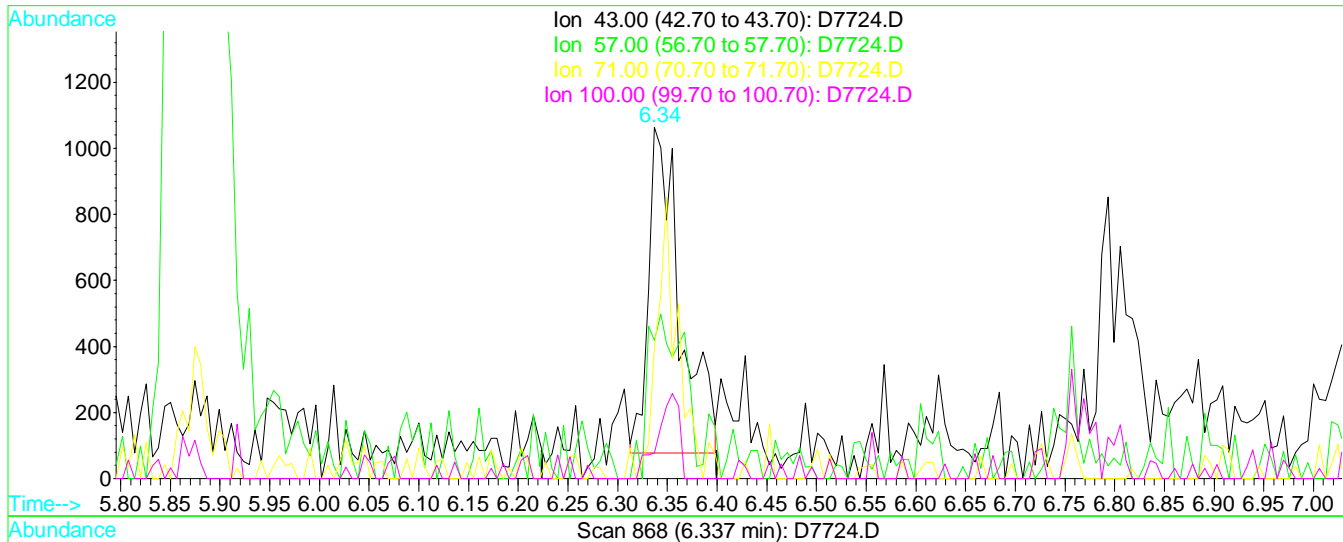
response 1687

Ion	Exp%	Act%
63.00	100	100
65.00	30.10	44.52
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:52 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(53) n-Heptane

6.34min 1.14ug/L m

response 2174

Ion	Exp%	Act%
43.00	100	100
57.00	55.20	39.29
71.00	56.30	37.31
100.00	17.70	7.33

Manual Integration:

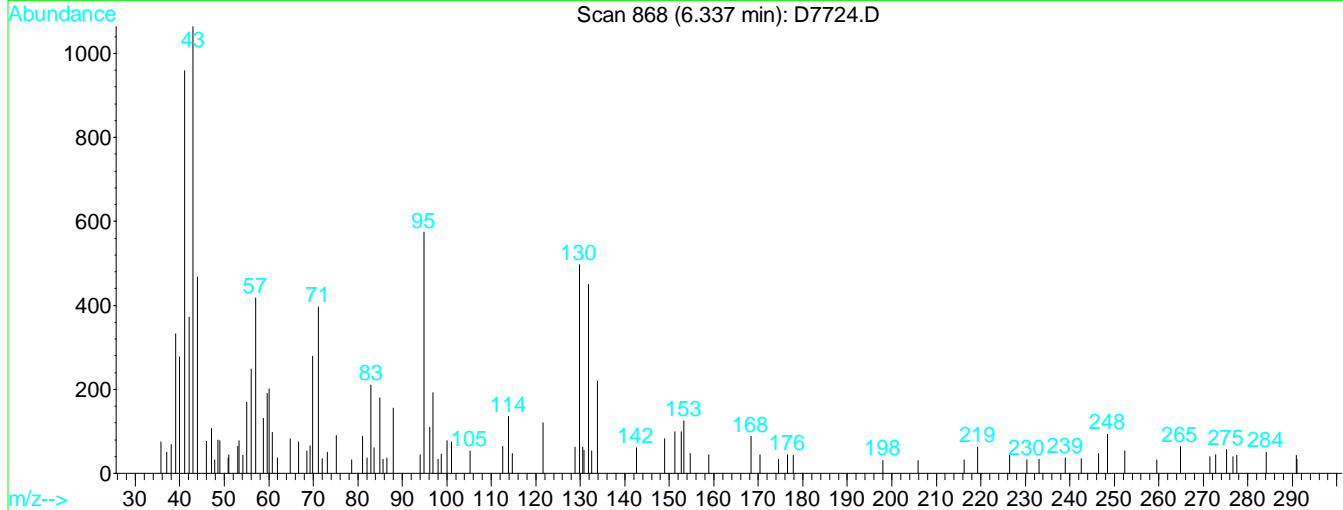
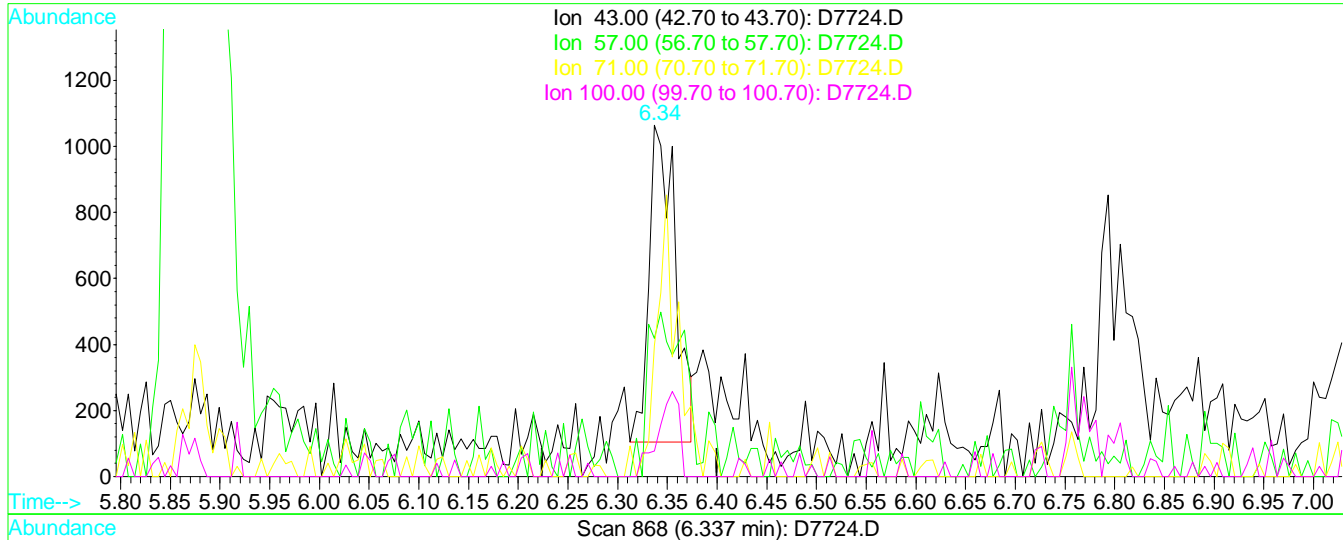
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:51 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(53) n-Heptane  
 6.34min 0.92ug/L  
 response 1754

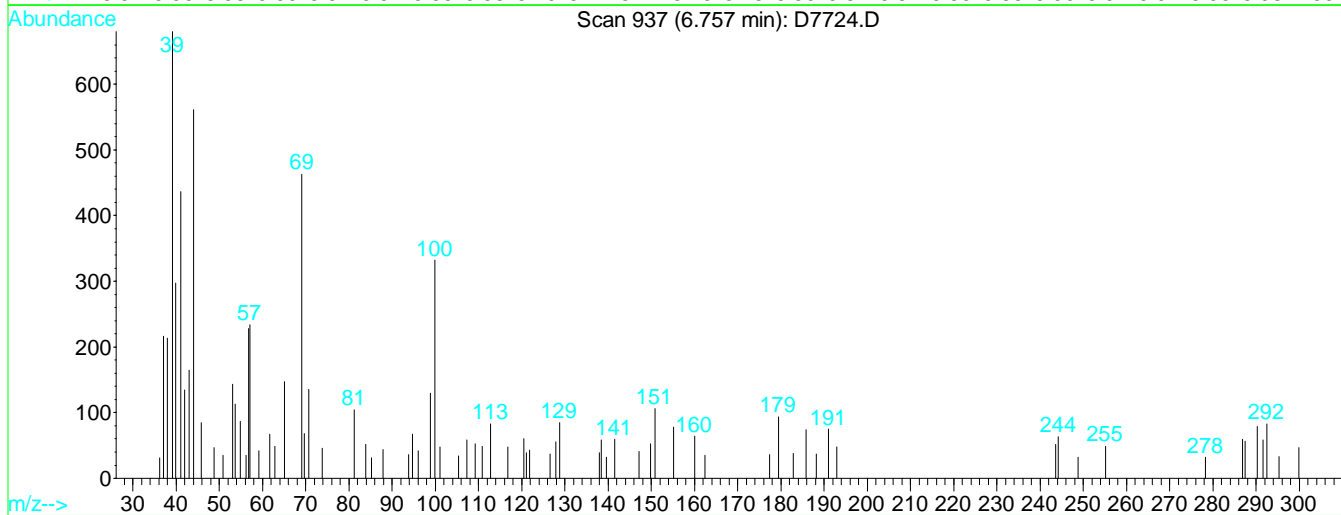
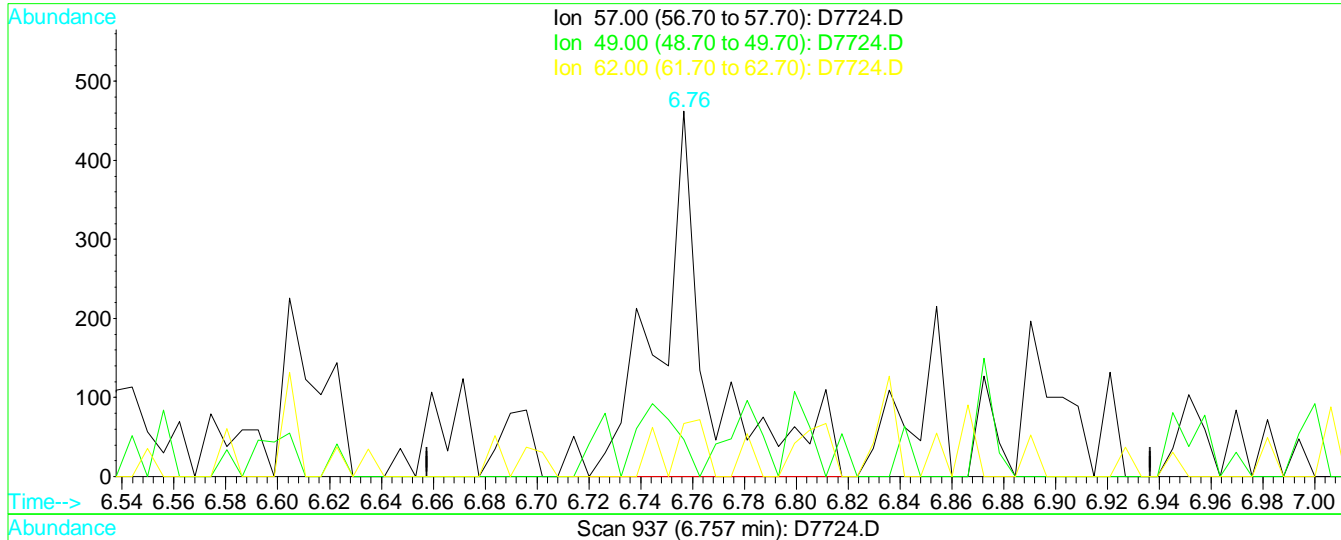
Manual Integration:  
 Before

Ion	Exp%	Act%
43.00	100	100
57.00	55.20	39.29
71.00	56.30	37.31
100.00	17.70	7.33

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:53 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(57) Epichlorohydrin

6.76min 4.55ug/L m

response 635

Ion	Exp%	Act%
57.00	100	100
49.00	34.00	20.09
62.00	23.60	28.63
0.00	0.00	0.00

Manual Integration:

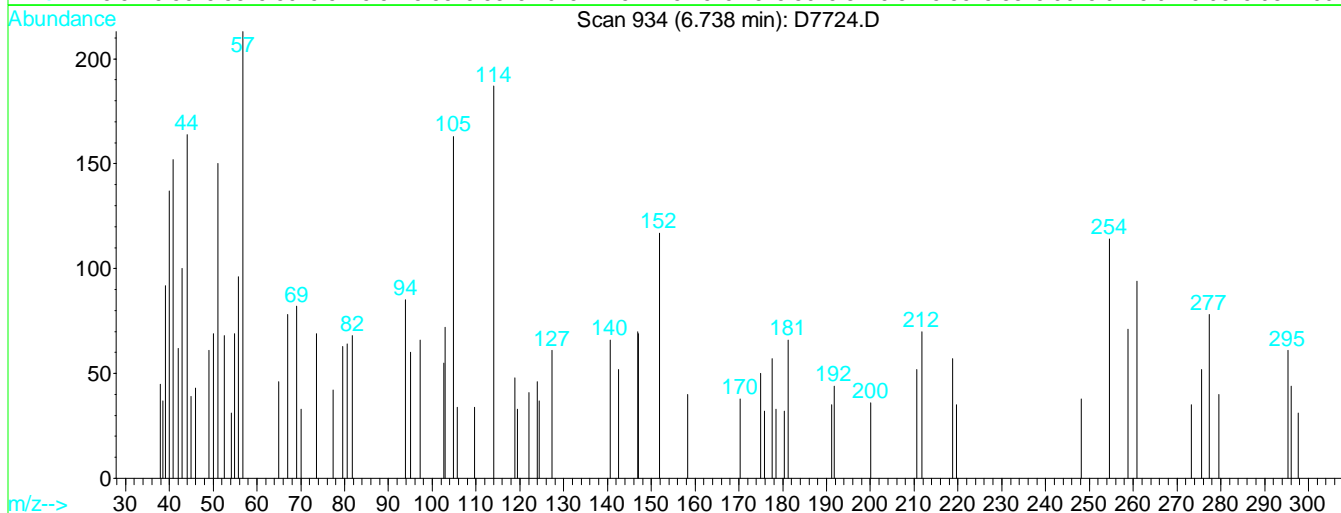
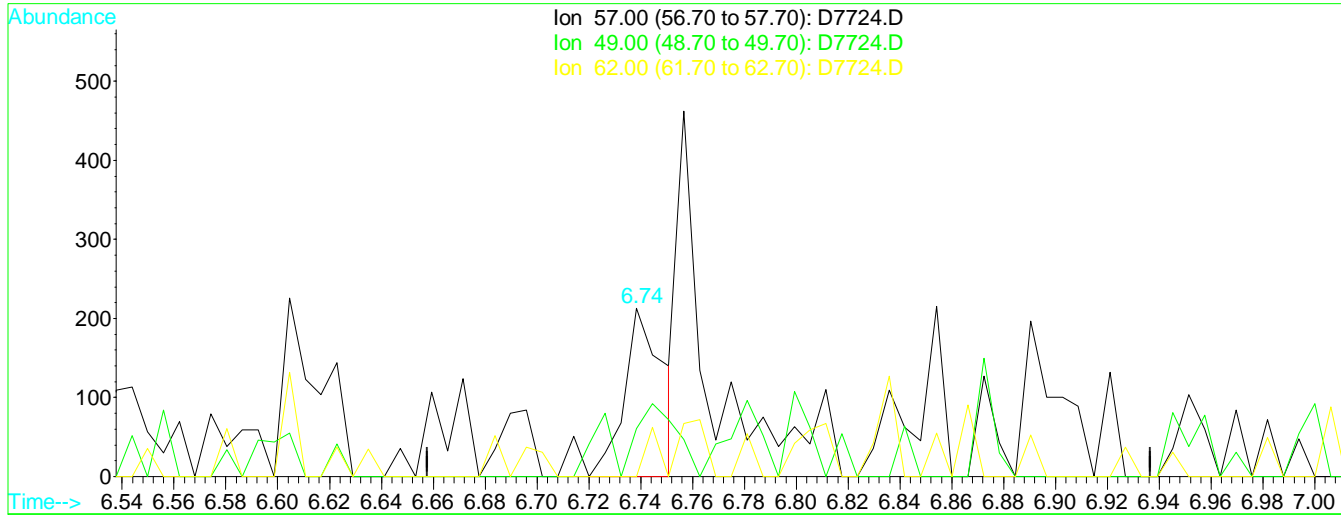
After

Peak not found.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:52 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(57) Epichlorohydrin

Manual Integration:

6.74min 1.58ug/L

Before

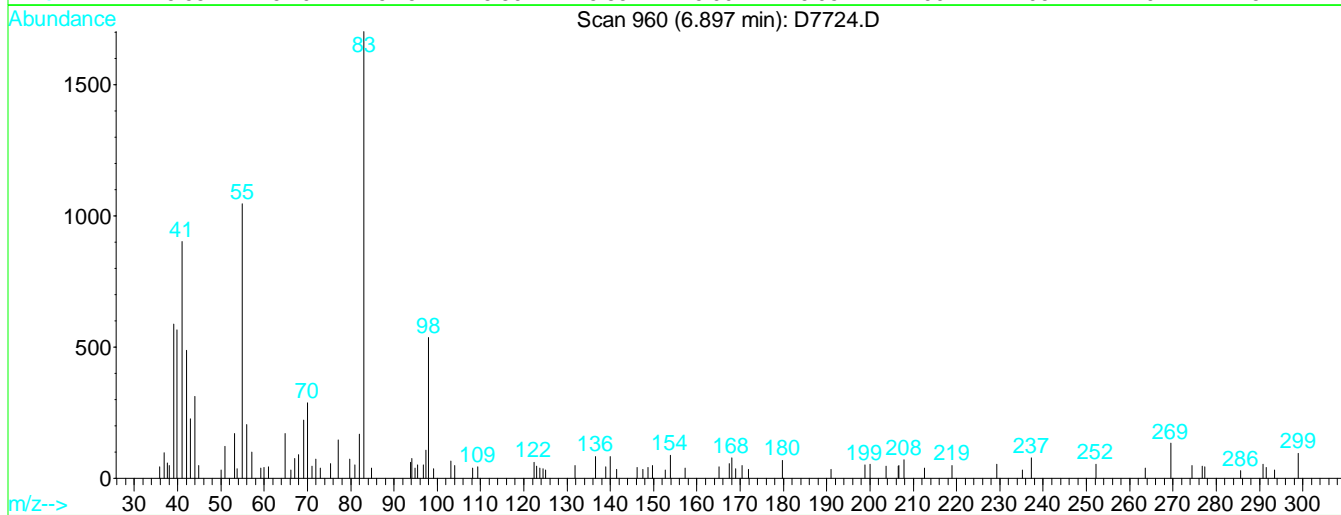
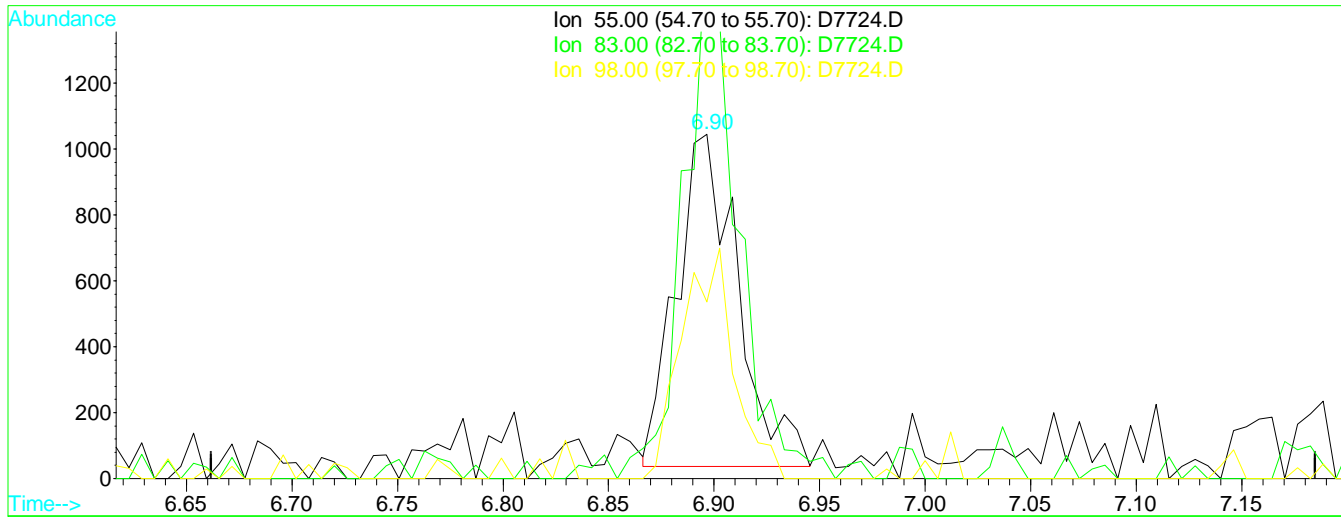
response 221

08/25/17

Ion	Exp%	Act%
57.00	100	100
49.00	34.00	28.64
62.00	23.60	0.00#
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:54 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(59) Methylcyclohexane (P)

Manual Integration:

6.90min 0.95ug/L m

After

response 2045

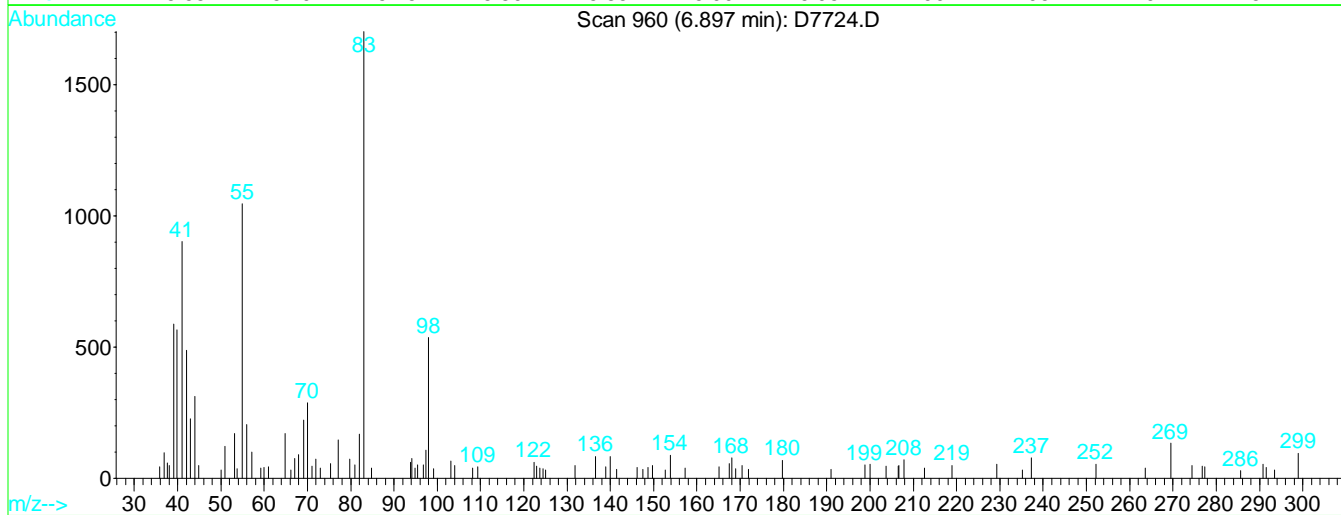
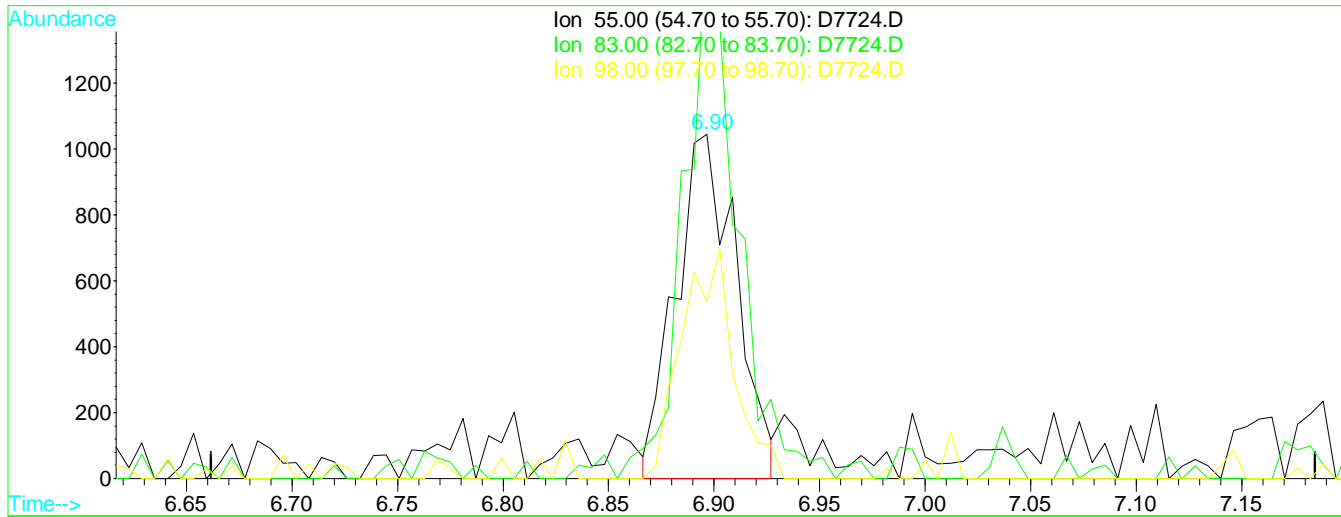
Poor integration.

Ion	Exp%	Act%
55.00	100	100
83.00	134.80	136.63
98.00	62.30	59.17
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:53 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(59) Methylcyclohexane (P)

Manual Integration:

6.90min 0.97ug/L

Before

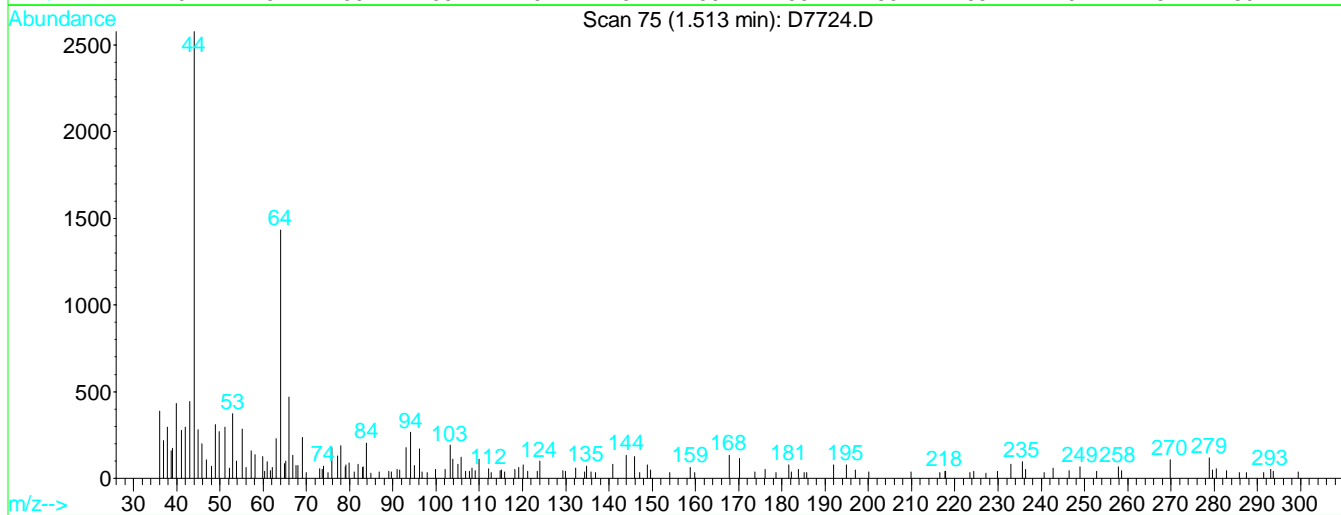
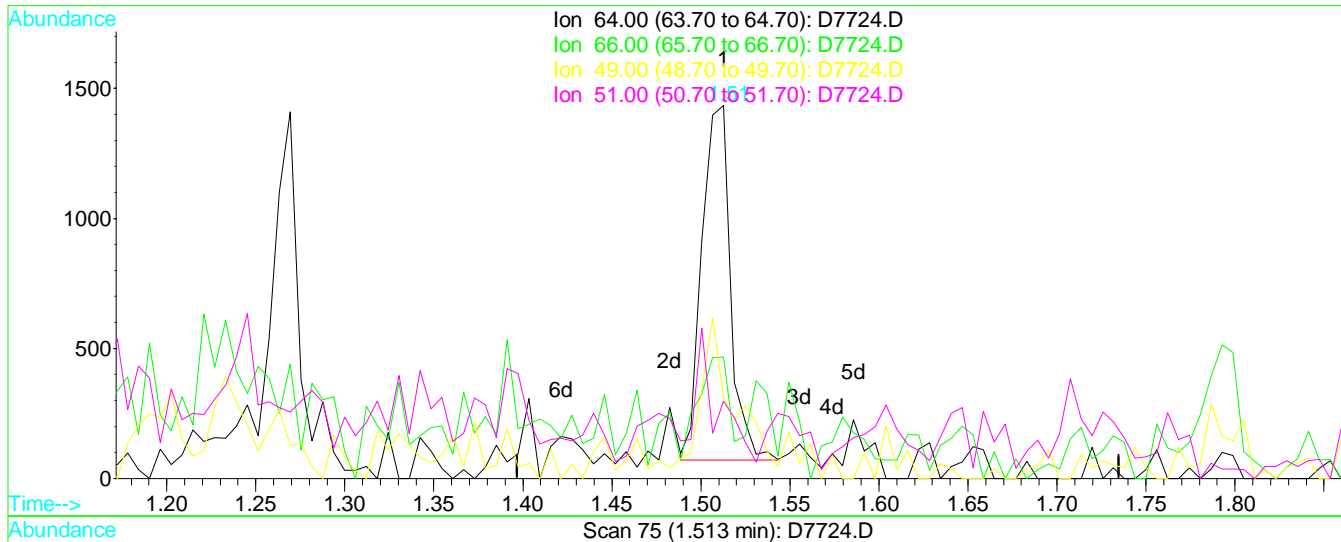
response 2078

Ion	Exp%	Act%
55.00	100	100
83.00	134.80	134.46
98.00	62.30	58.23
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:41 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(6) Chloroethane (P)

1.51min 0.94ug/L m

response 1514

Ion	Exp%	Act%
64.00	100	100
66.00	34.30	32.66
49.00	30.70	21.77
51.00	10.50	20.73

Manual Integration:

After

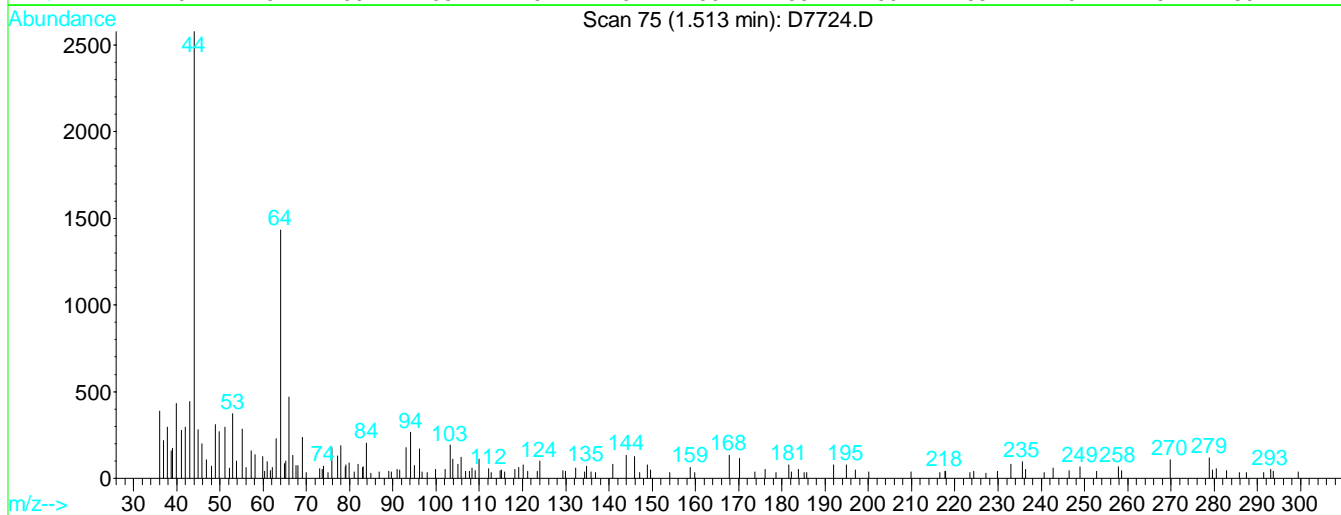
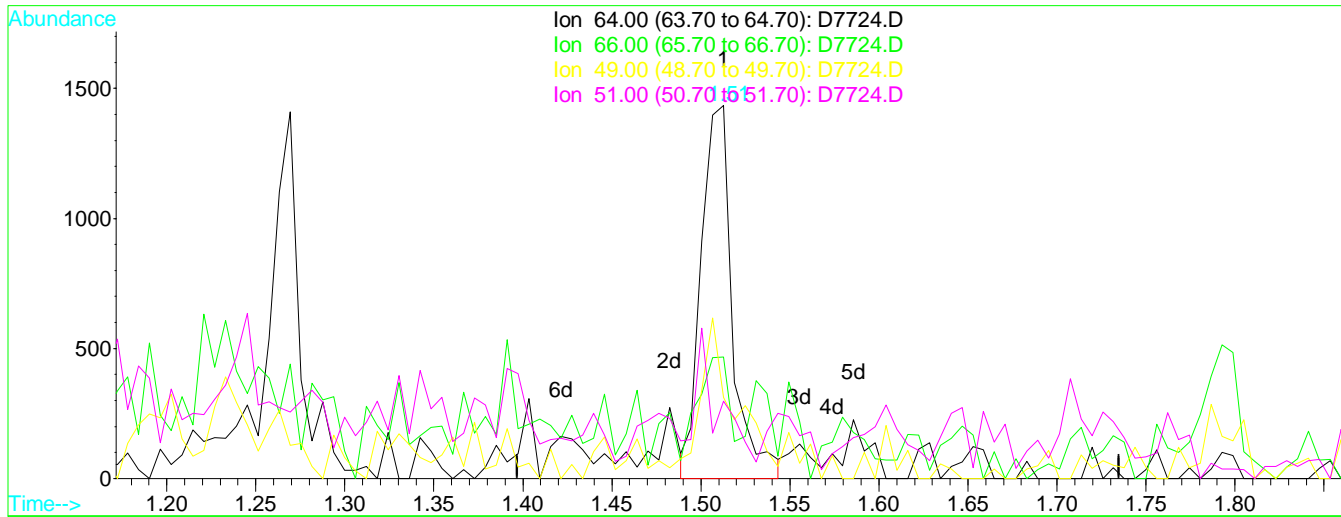
Poor integration.

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:40 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(6) Chloroethane (P)

Manual Integration:

1.51min 1.09ug/L

Before

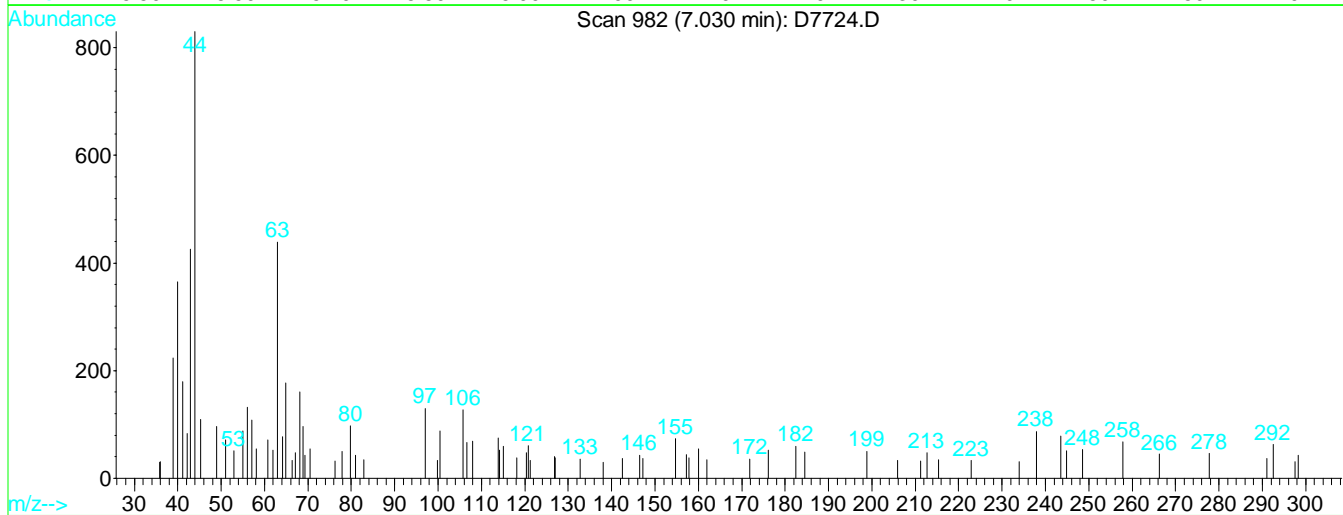
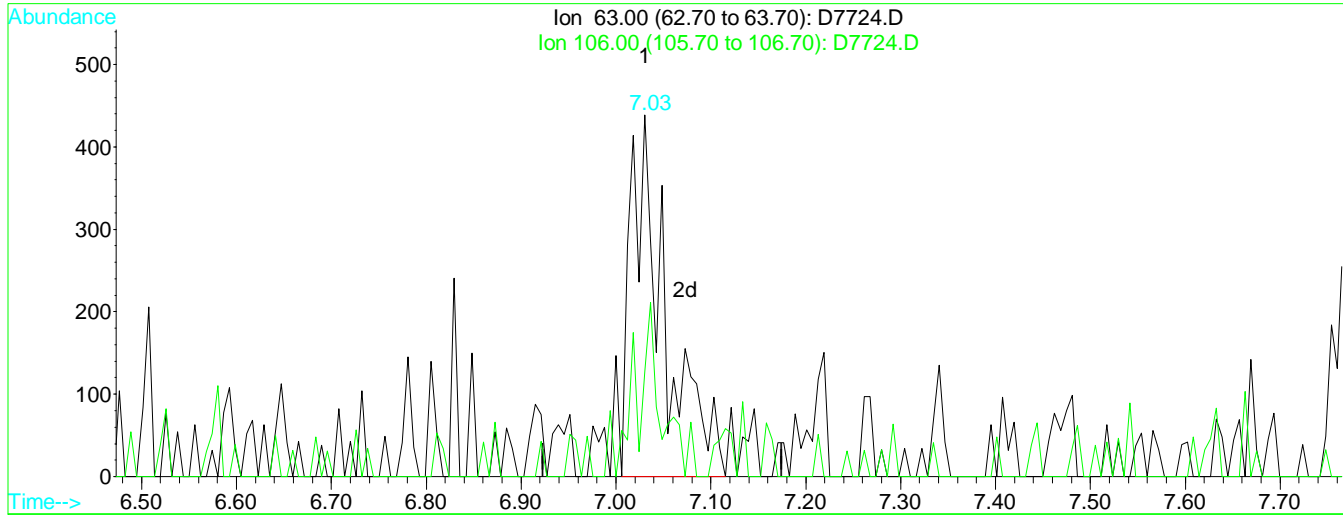
response 1751

Ion	Exp%	Act%
64.00	100	100
66.00	34.30	32.66
49.00	30.70	21.77
51.00	10.50	20.73

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:55 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(60) 2-Chloroethylvinyl Ether

Manual Integration:

7.03min 1.00ug/L m

After

response 1103

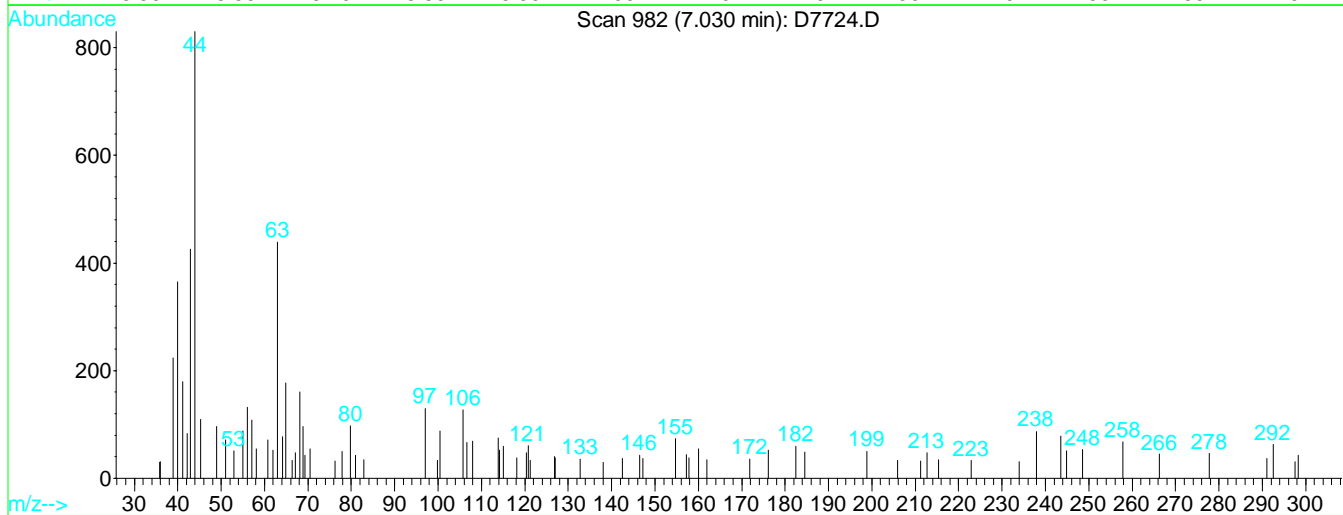
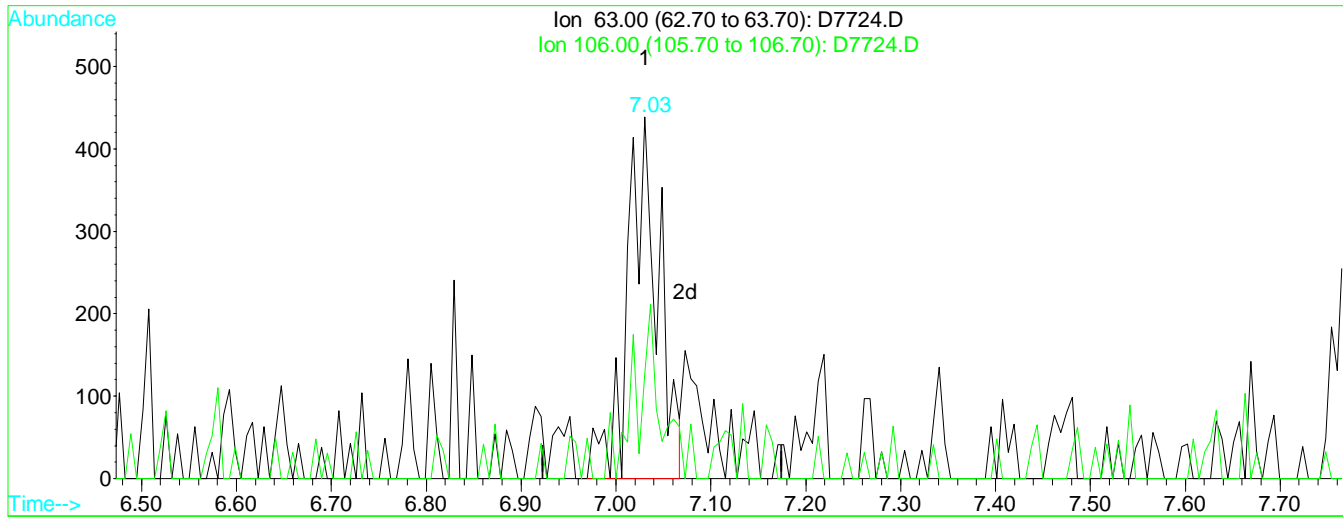
Split Peak.

Ion	Exp%	Act%
63.00	100	100
106.00	32.50	28.93
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:54 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(60) 2-Chloroethylvinyl Ether

Manual Integration:

7.03min 0.90ug/L

Before

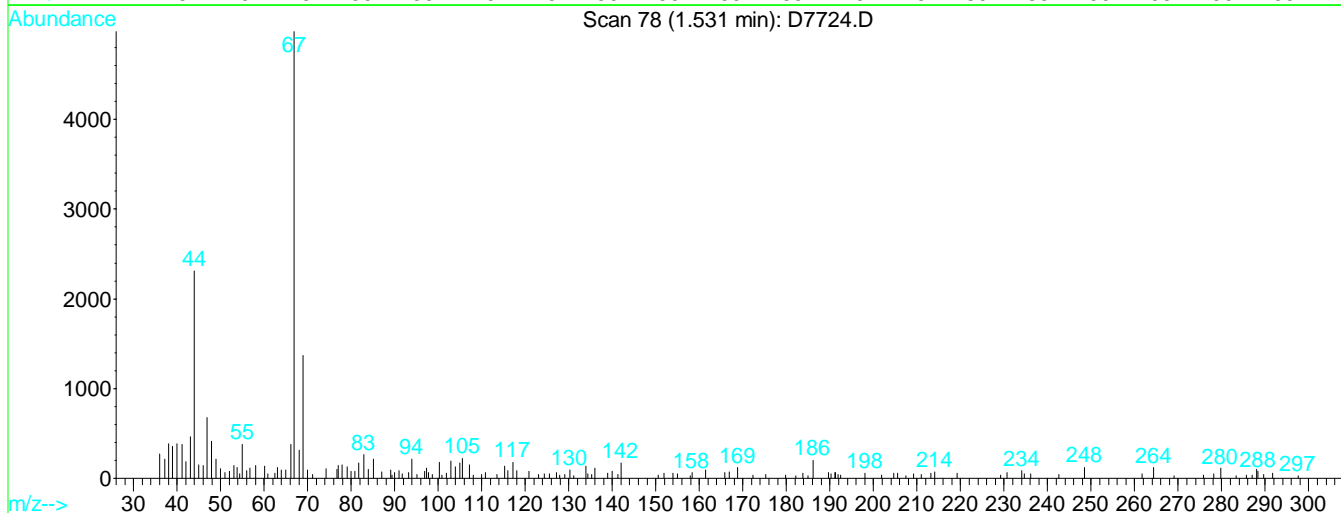
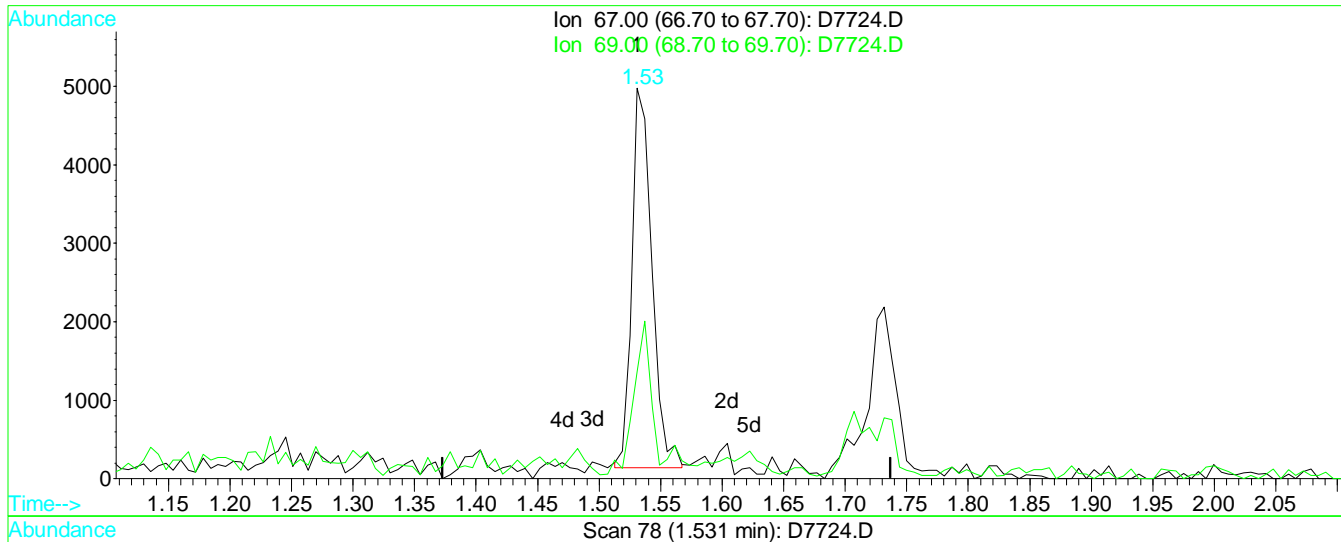
response 990

Ion	Exp%	Act%
63.00	100	100
106.00	32.50	44.19
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:42 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(7) Freon 21

1.53min 1.13ug/L m

response 5490

Ion	Exp%	Act%
67.00	100	100
69.00	36.90	27.44
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

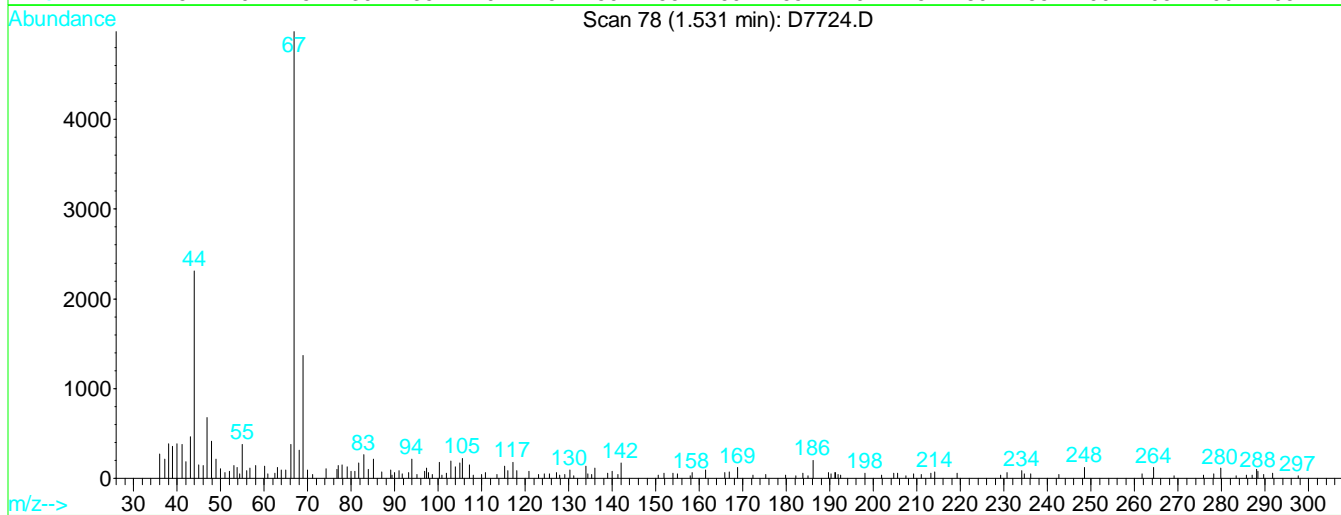
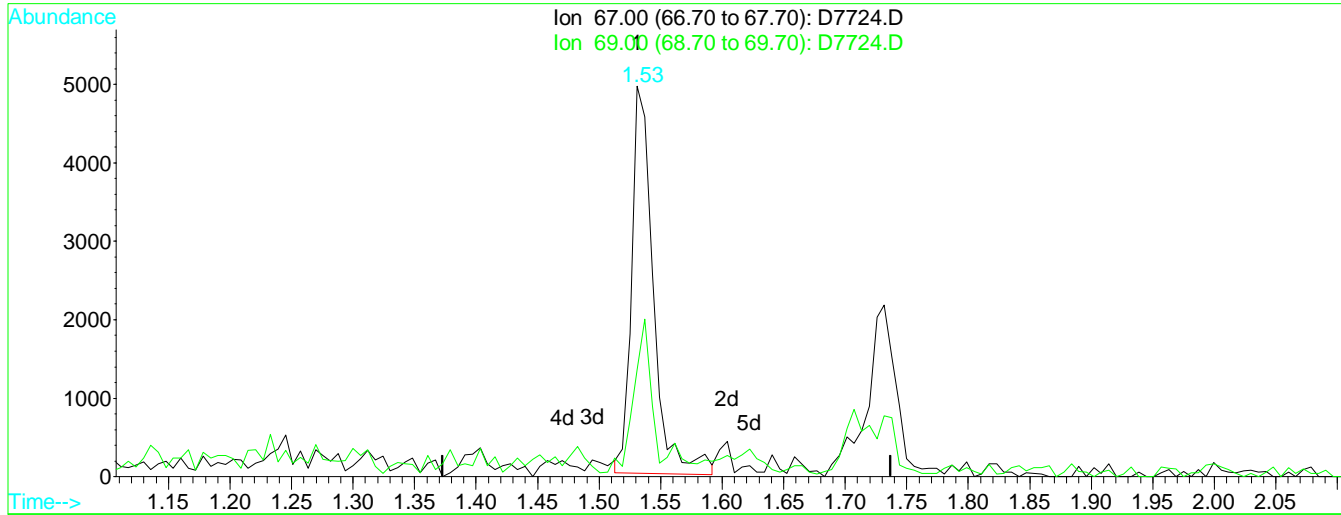
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:41 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(7) Freon 21  
 1.53min 1.25ug/L  
 response 6067

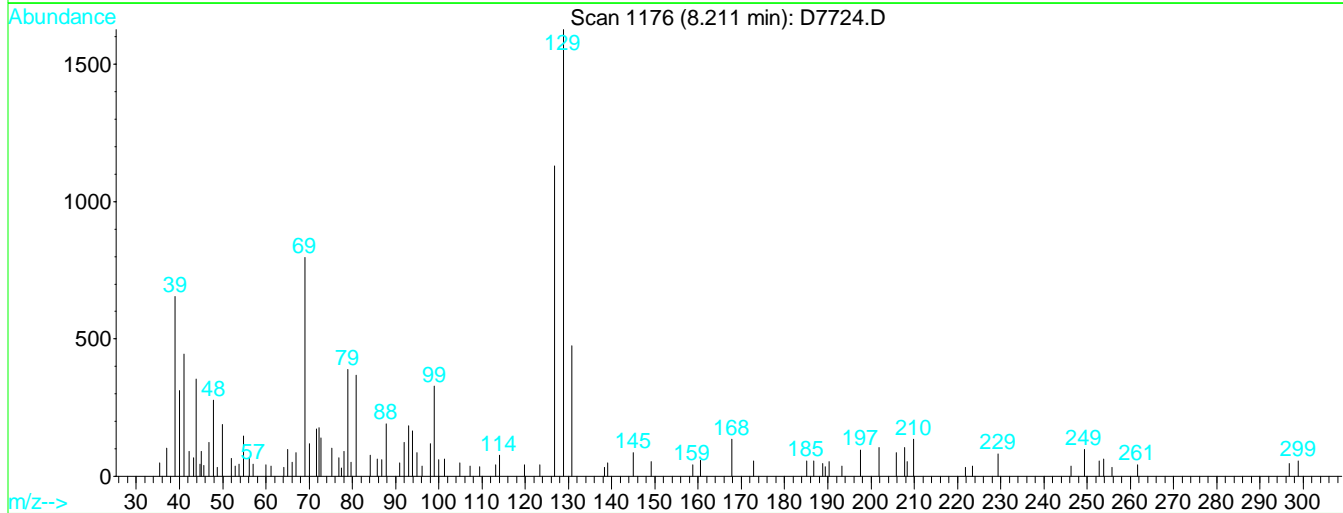
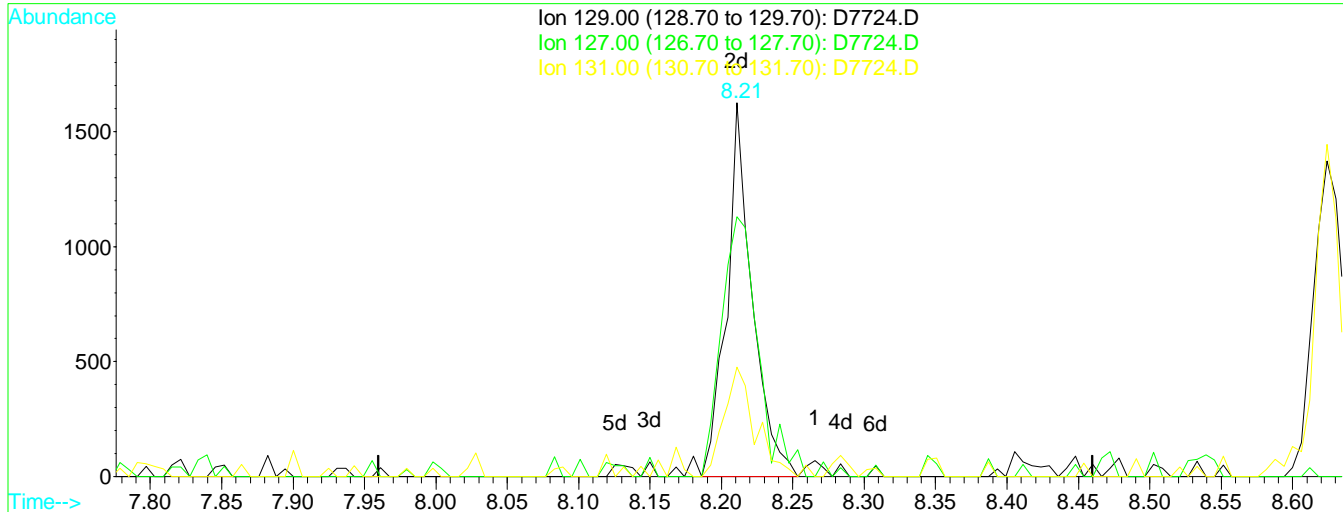
Manual Integration:  
 Before

Ion	Exp%	Act%
67.00	100	100
69.00	36.90	27.44
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:57 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(70) Dibromochloromethane (P)

Manual Integration:

8.21min 0.90ug/L m

After

response 2017

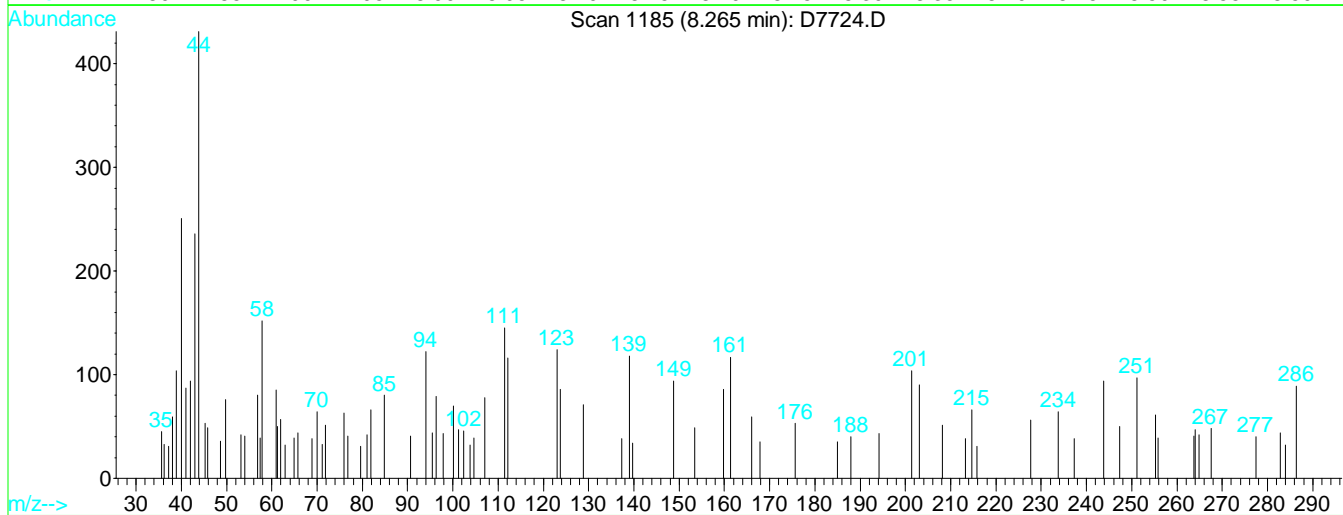
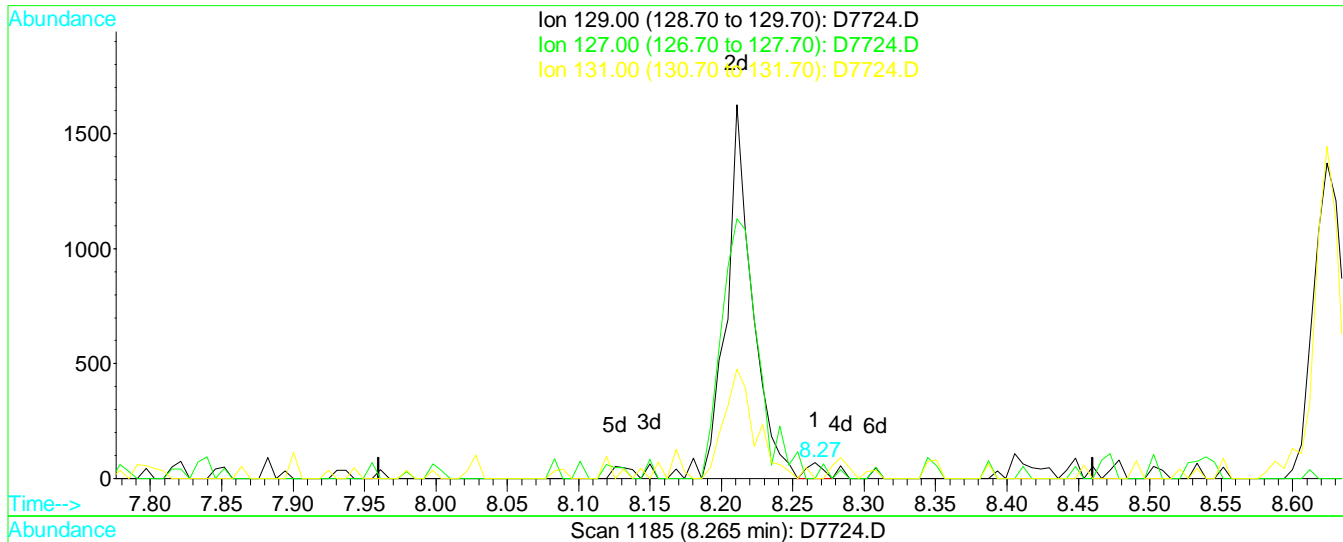
Peak not found.

Ion	Exp%	Act%
129.00	100	100
127.00	77.10	1.88#
131.00	25.10	0.89#
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:55 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(70) Dibromochloromethane (P)

Manual Integration:

8.27min 0.03ug/L

Before

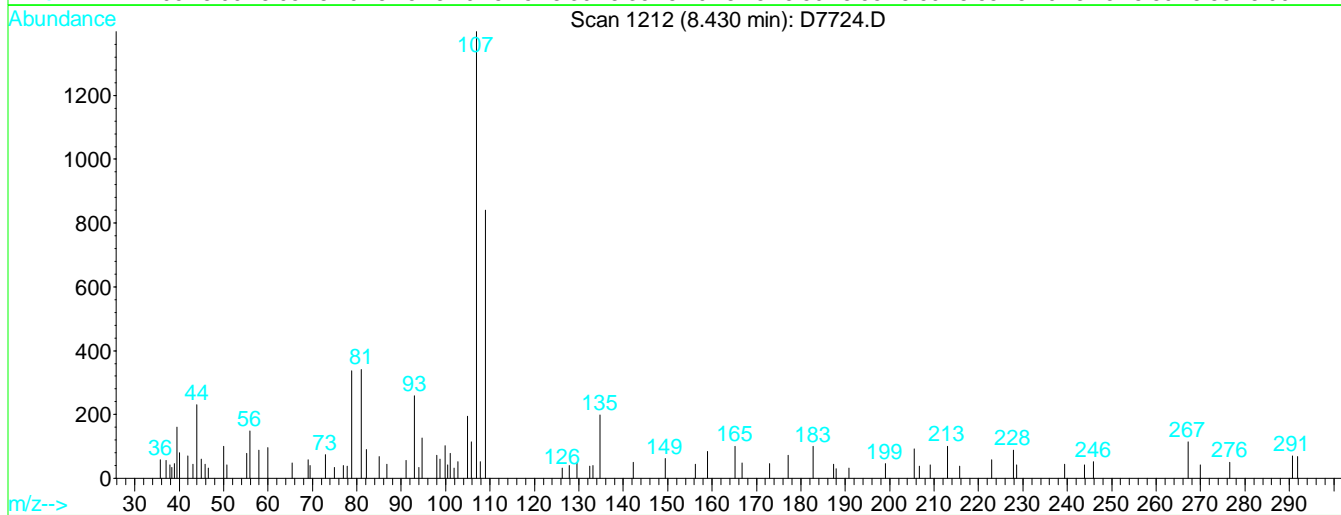
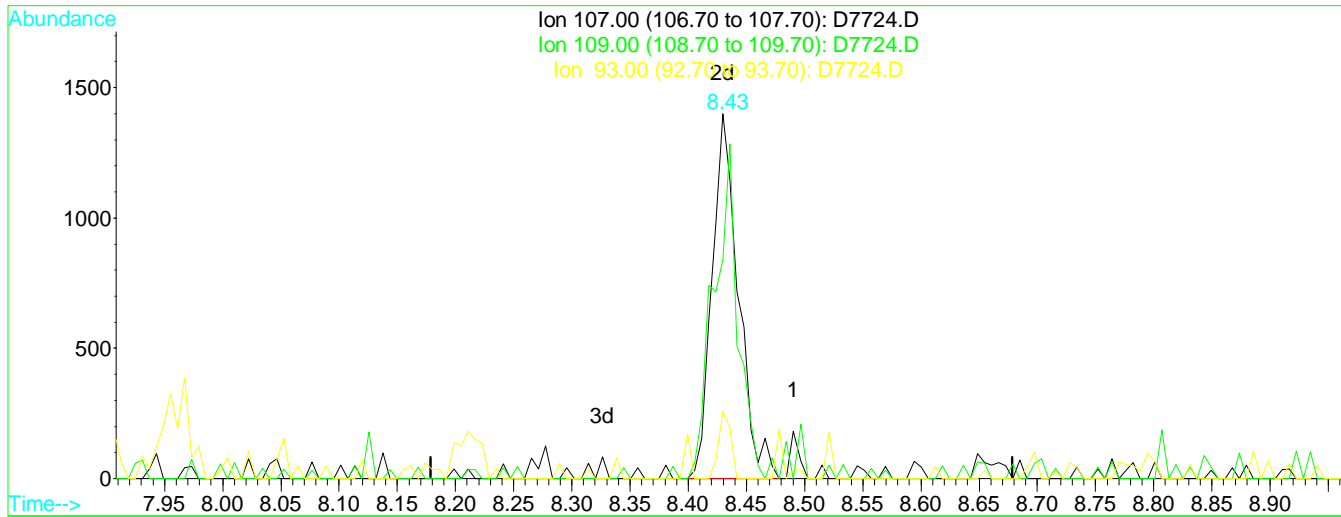
response 57

Ion	Exp%	Act%
129.00	100	100
127.00	77.10	66.67
131.00	25.10	31.58
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:58 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(72) 1,2-Dibromoethane (P)

Manual Integration:

8.43min 1.13ug/L m

After

response 2214

Peak not found.

Ion Exp% Act%

08/25/17

107.00 100 100

109.00 96.90 3.48#

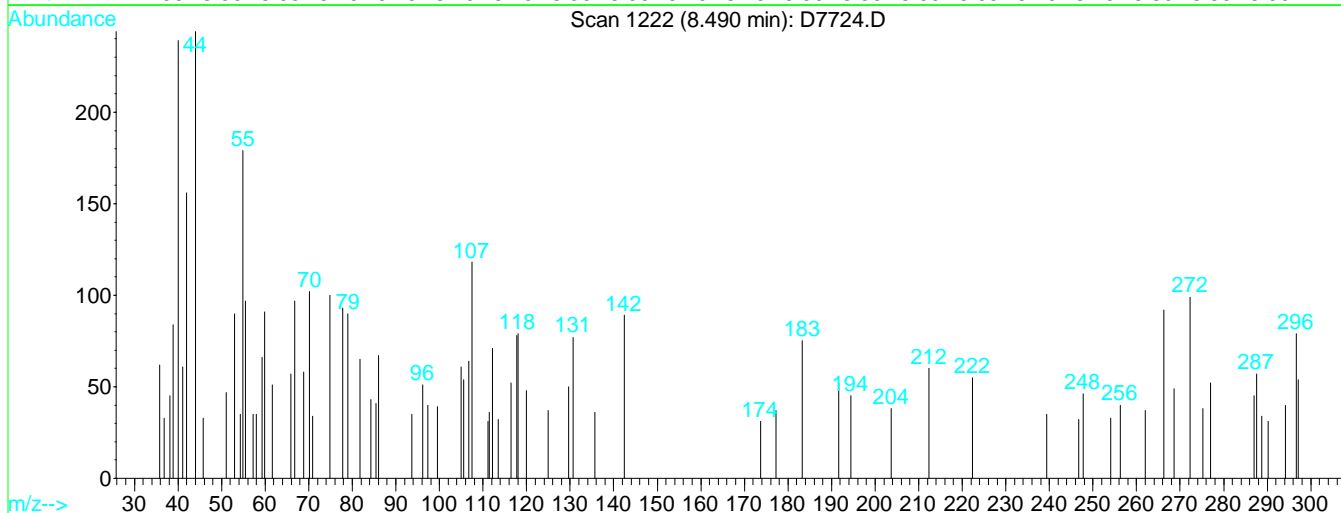
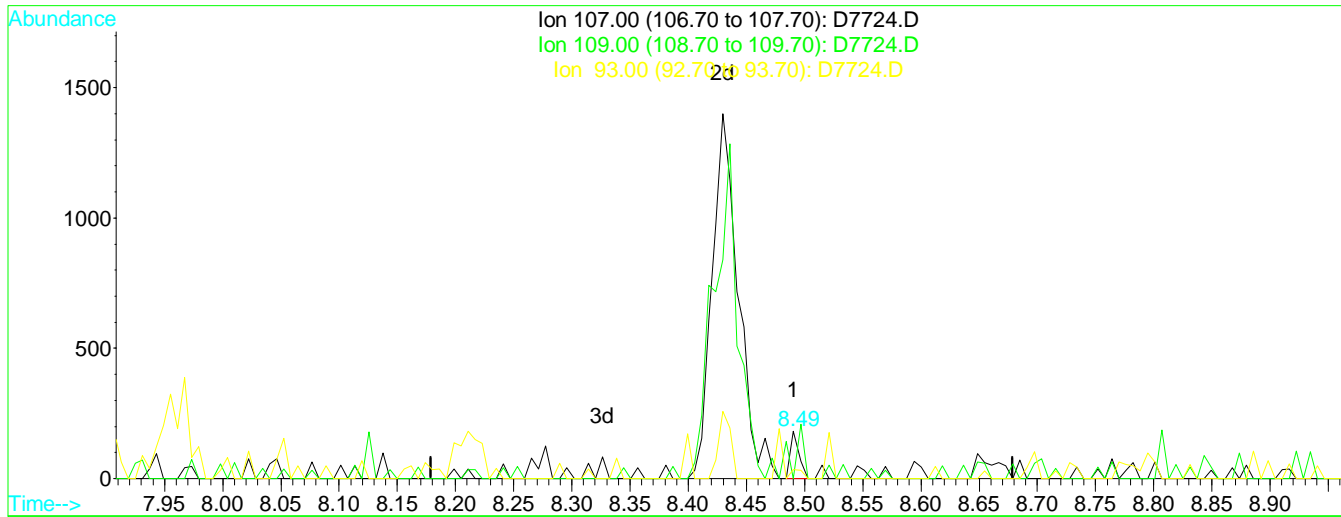
93.00 7.60 1.08

0.00 0.00 0.00



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 9:57 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Multiple Level Calibration



TIC: D7724.D

(72) 1,2-Dibromoethane (P)

Manual Integration:

8.49min 0.05ug/L

Before

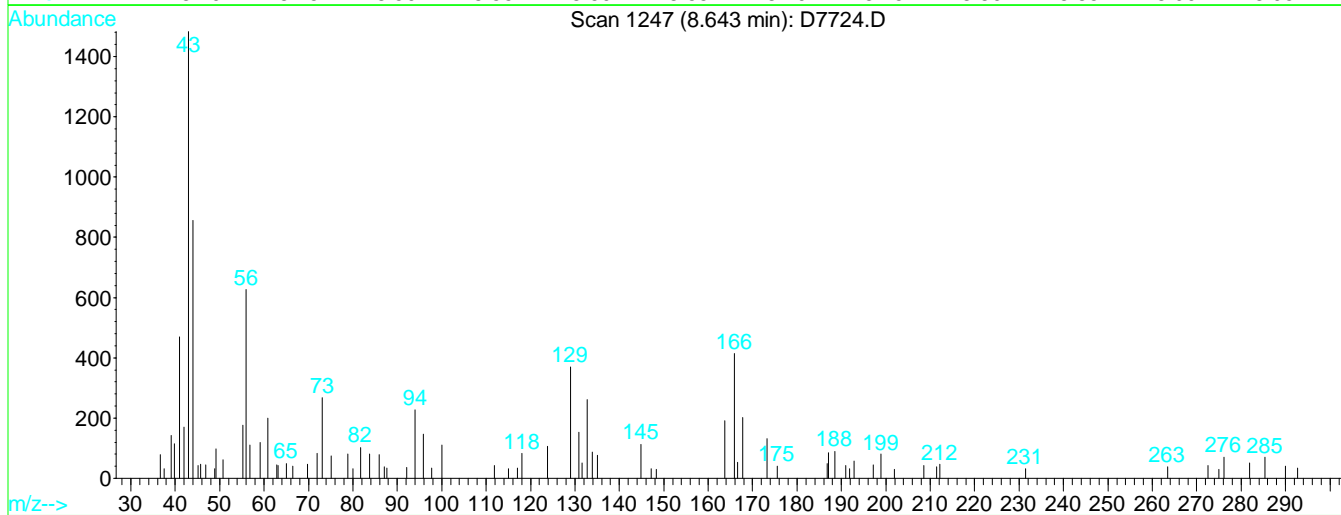
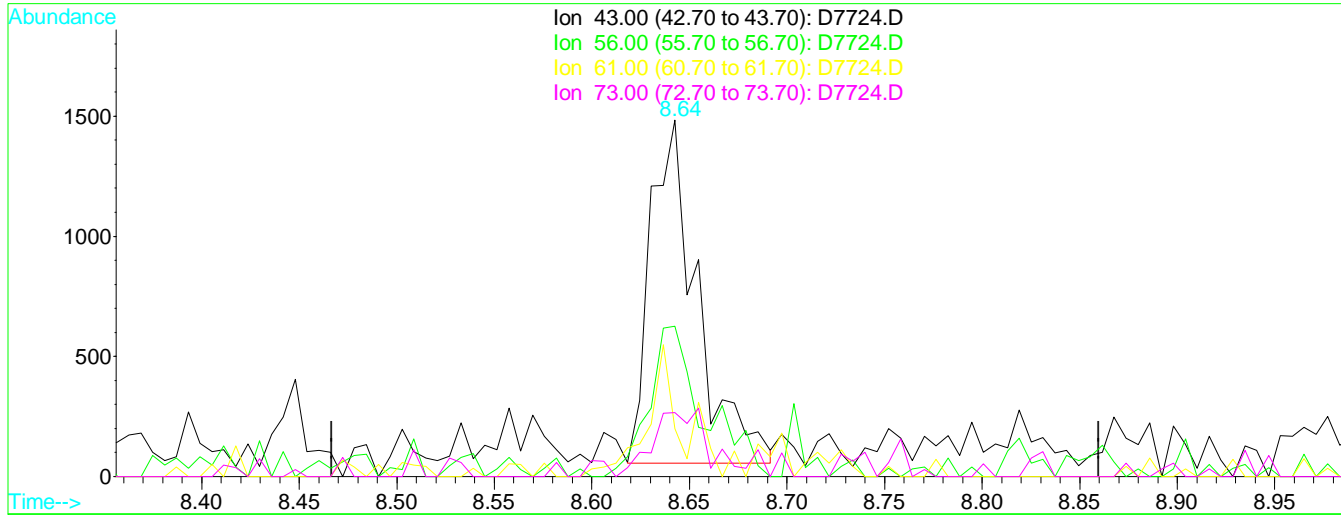
response 91

08/25/17

Ion	Exp%	Act%
107.00	100	100
109.00	96.90	84.62
93.00	7.60	26.37
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:58 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(73) n-Butyl Acetate

8.64min 0.95ug/L m

response 2386

Ion	Exp%	Act%
43.00	100	100
56.00	38.90	51.47
61.00	21.20	0.00#
73.00	15.20	0.00

Manual Integration:

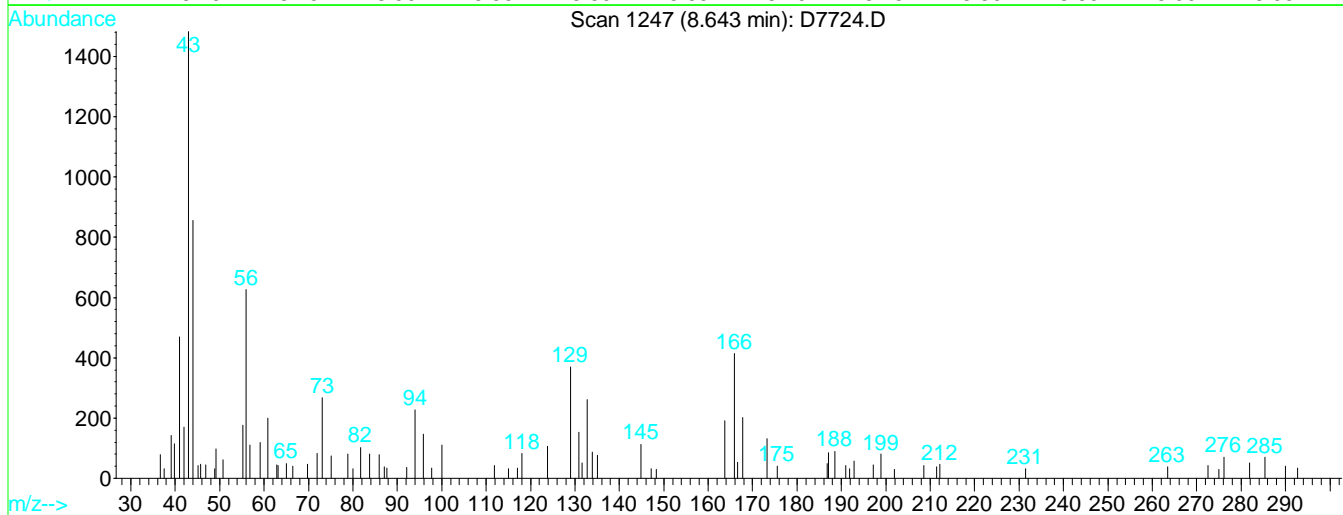
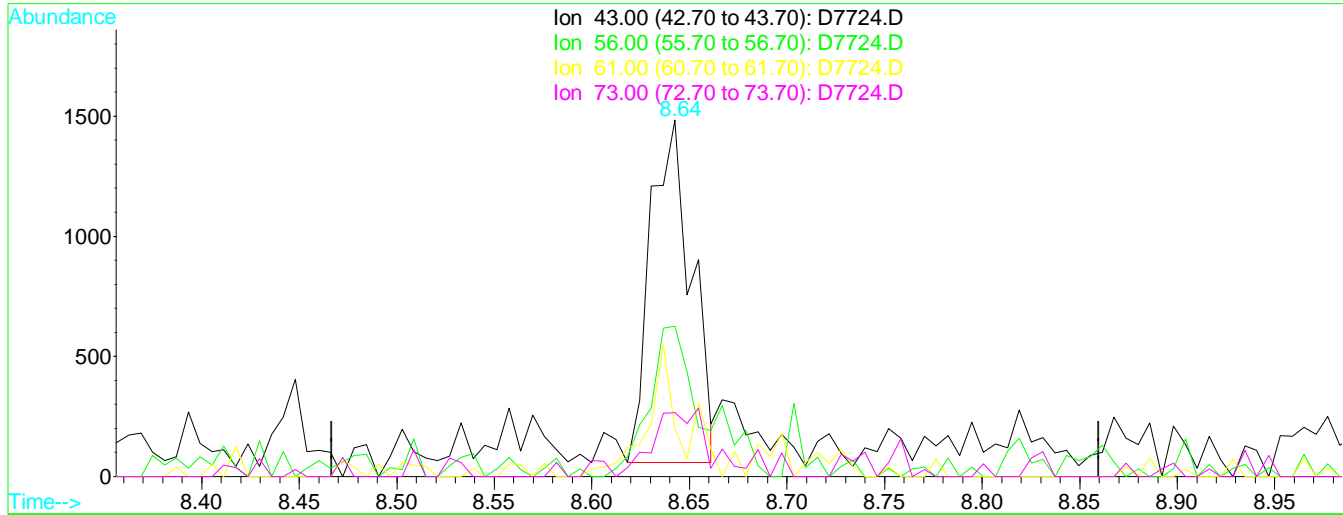
After

Split Peak.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:58 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(73) n-Butyl Acetate

Manual Integration:

8.64min 0.83ug/L

Before

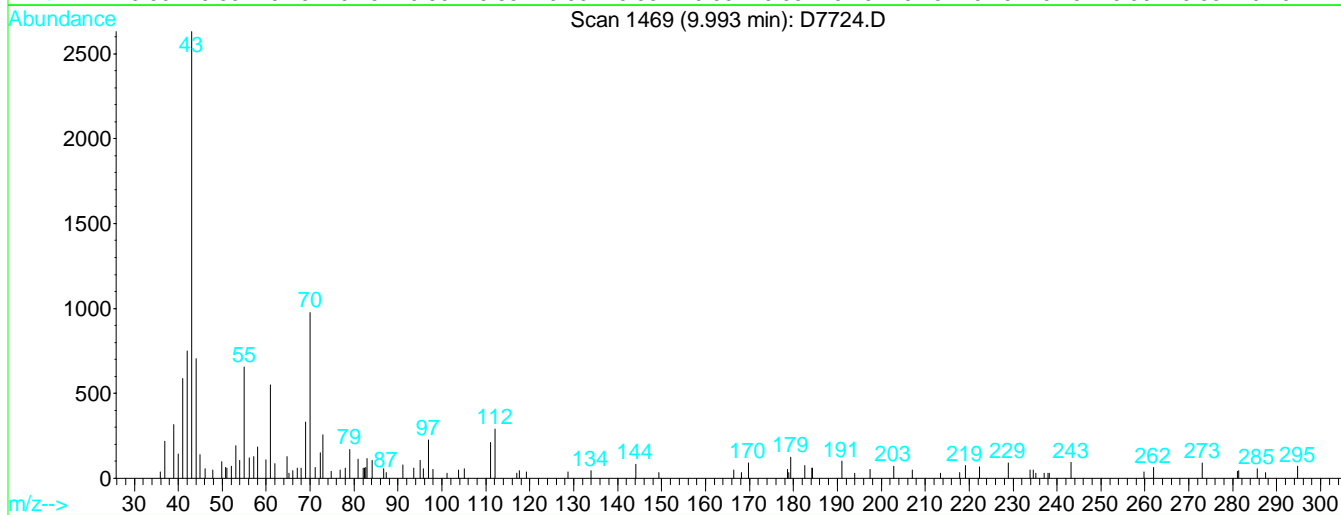
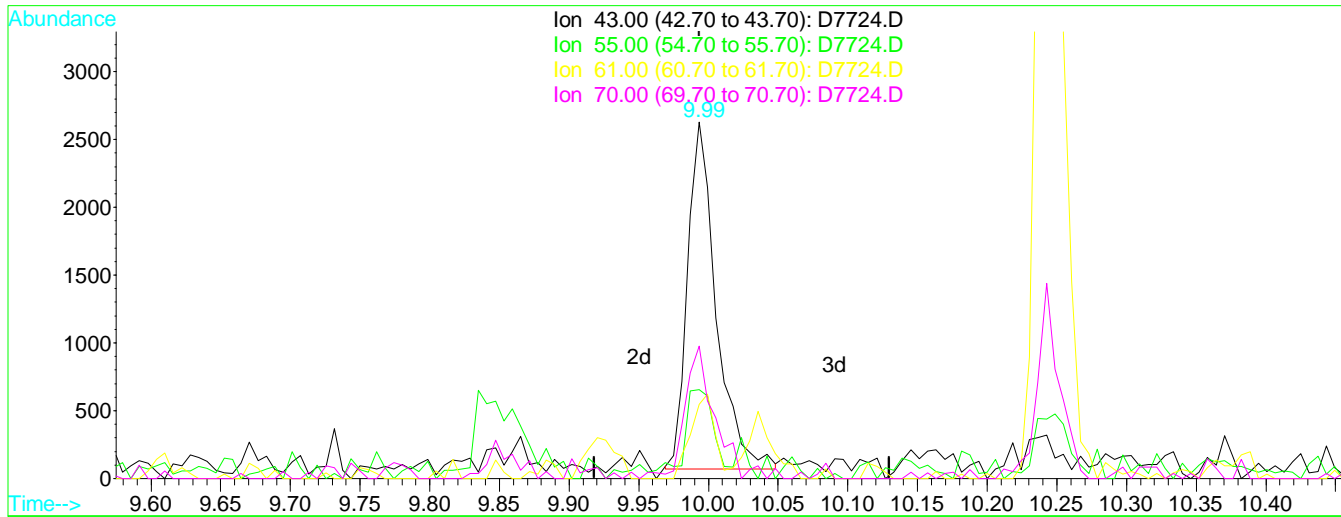
response 2077

Ion	Exp%	Act%
43.00	100	100
56.00	38.90	59.12#
61.00	21.20	0.00#
73.00	15.20	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:00 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(83) Amyl Acetate

9.99min 1.04ug/L m

response 3645

Ion	Exp%	Act%
43.00	100	100
55.00	24.30	24.98
61.00	25.60	20.87
70.00	37.00	37.15

Manual Integration:

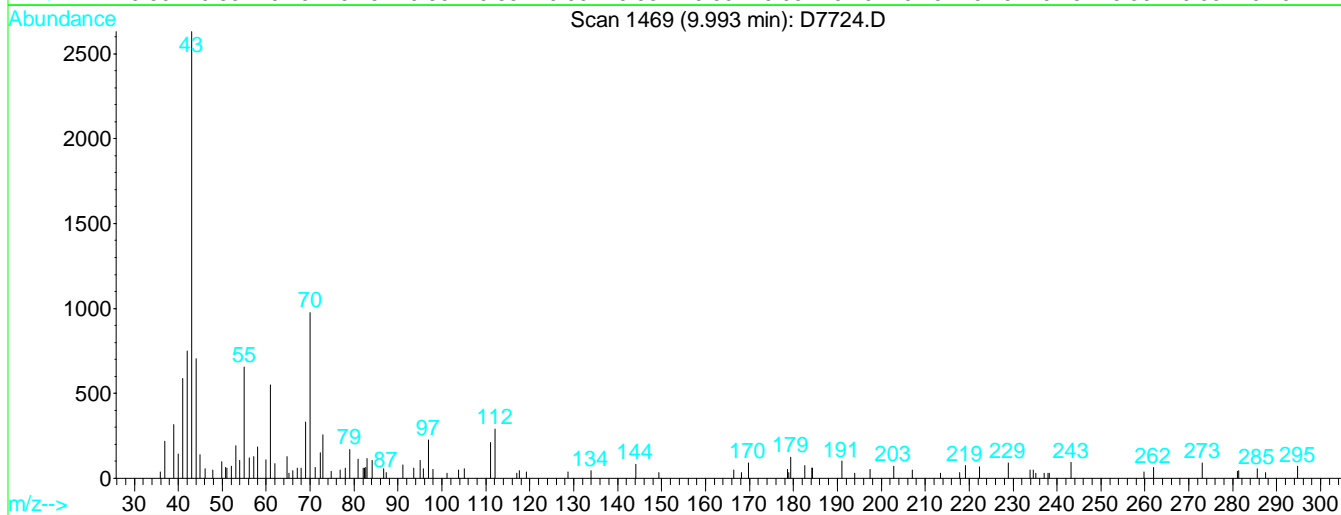
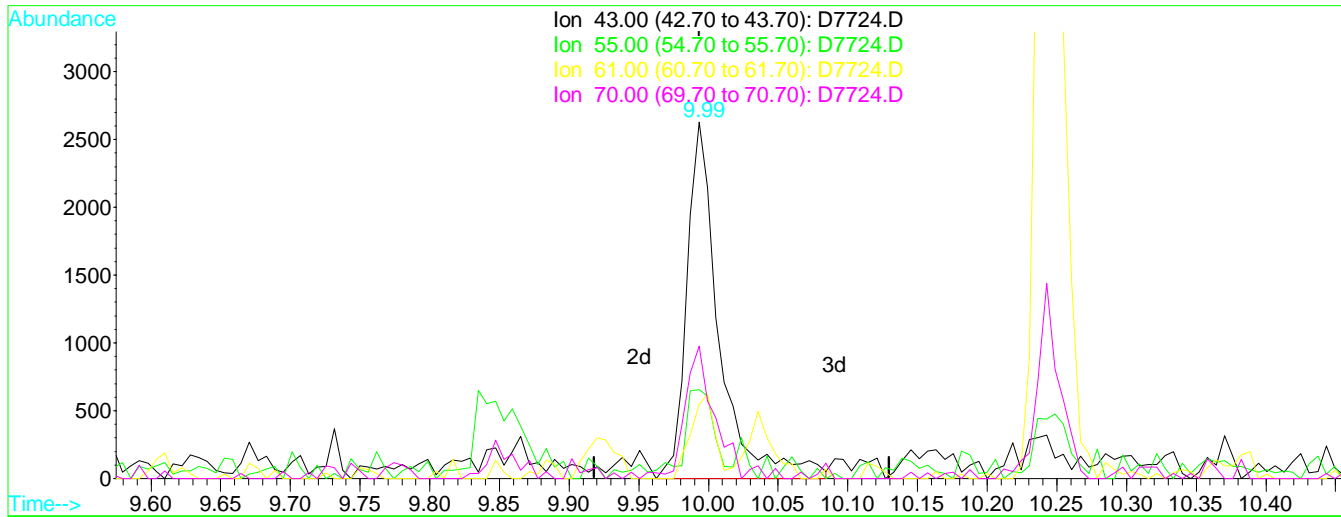
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 9:58 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(83) Amyl Acetate

Manual Integration:

9.99min 1.22ug/L

Before

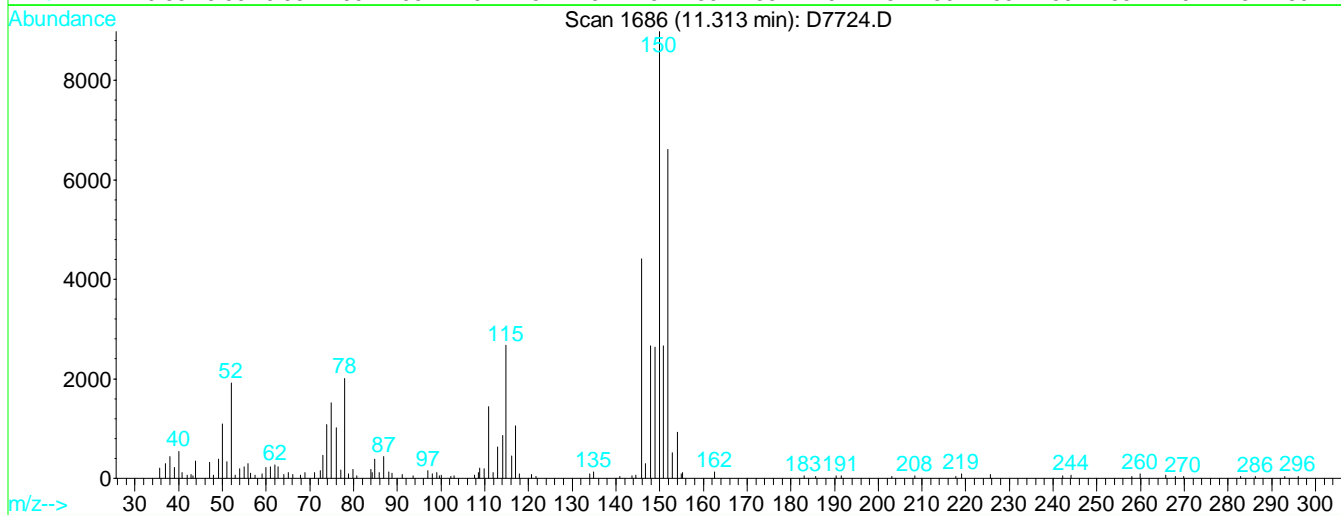
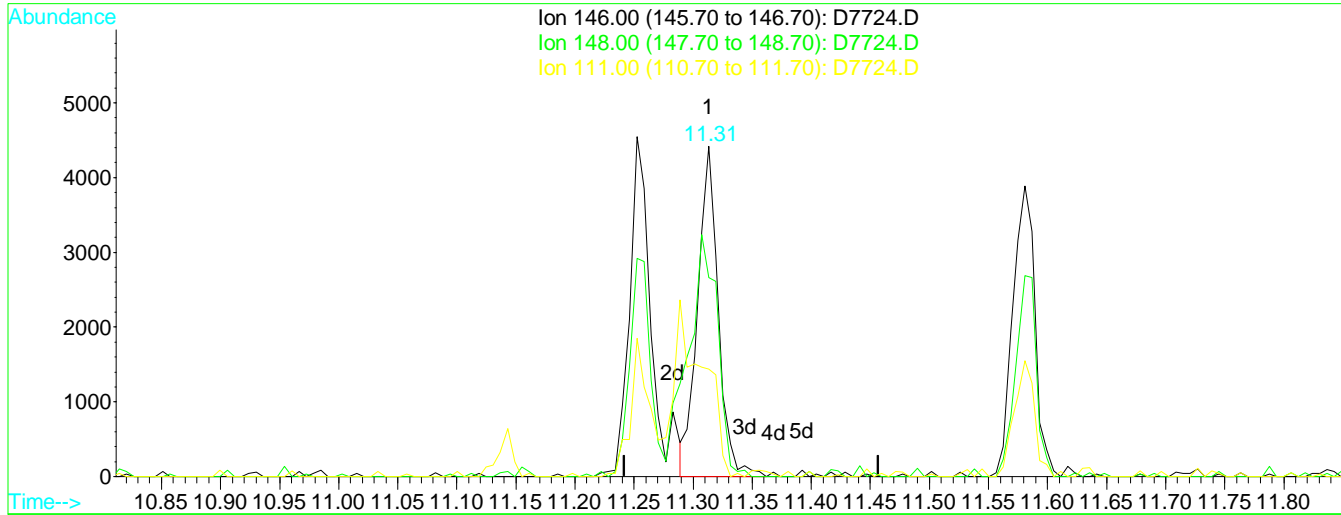
response 4254

Ion	Exp%	Act%
43.00	100	100
55.00	24.30	24.98
61.00	25.60	20.87
70.00	37.00	37.15

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:01 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration

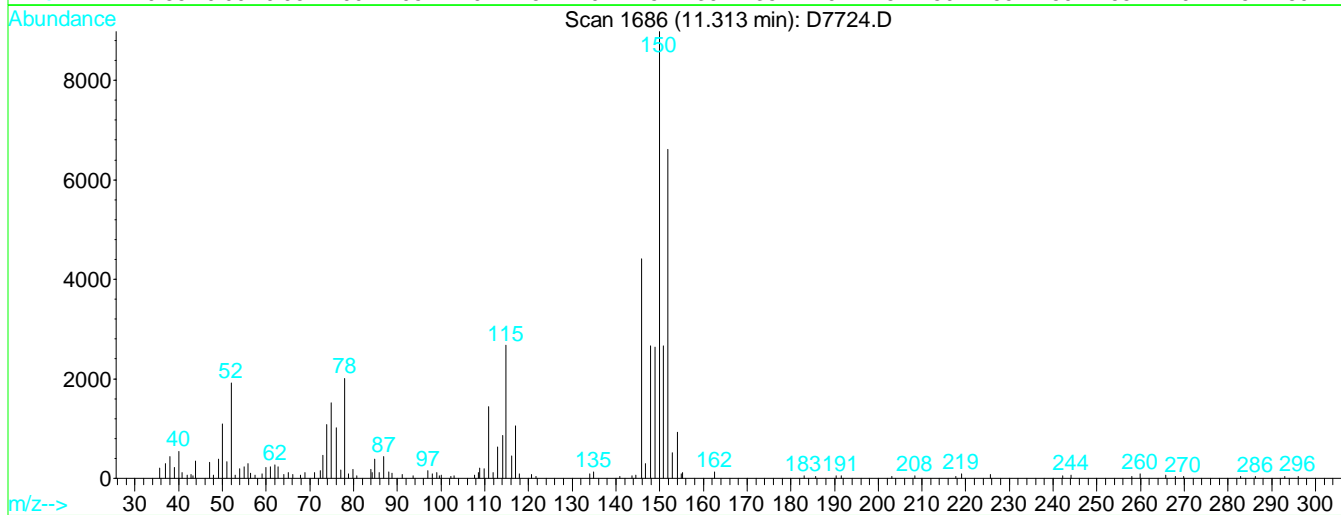
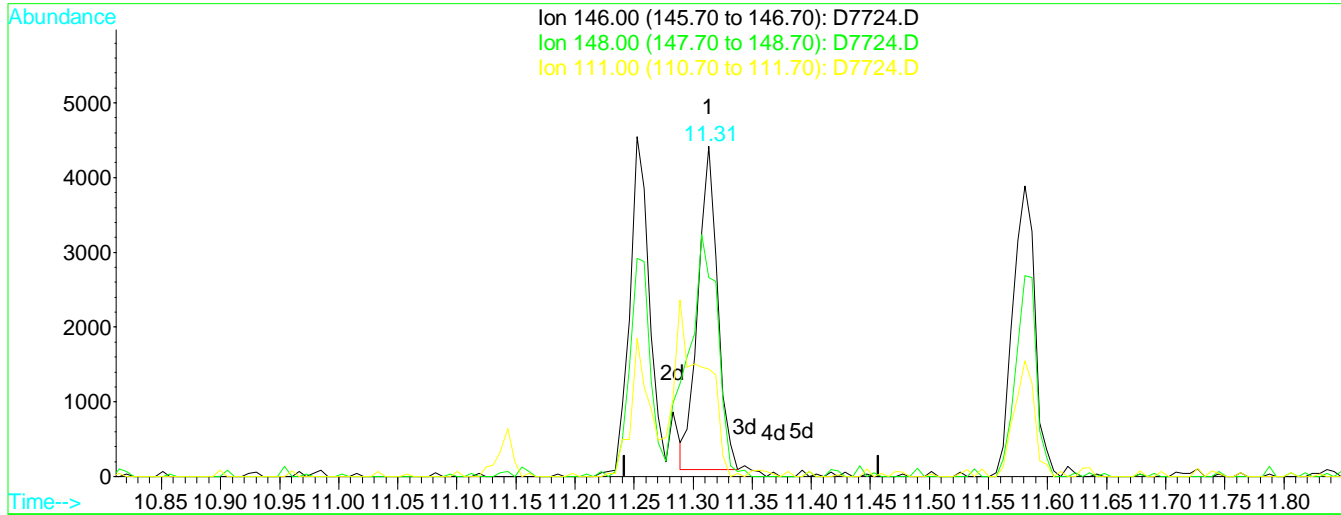


TIC: D7724.D

(99) 1,4-Dclbenz (P)	Manual Integration:
11.31min 1.17ug/L m	After
response 5404	Poor integration.
lon Exp% Act%	08/25/17
146.00 100 100	
148.00 66.20 101.26#	
111.00 37.30 0.35#	
0.00 0.00 0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
Sample : STD #2 - 1.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:00 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 09:33:36 2017  
Response via : Multiple Level Calibration



TIC: D7724.D

(99) 1,4-Diclbz (P)			Manual Integration:
11.31min	1.09ug/L		Before
response	5022		
Ion	Exp%	Act%	08/25/17
146.00	100	100	
148.00	66.20	108.96#	
111.00	37.30	0.38#	
0.00	0.00	0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:02 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	266445	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	350261	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	162128	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	182925	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) surr4,Dibrflmethane	3.86	113	127590	50.79	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	101.58%
43) surr1,1,2-dichloroethane-d	4.47	65	139185	51.15	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	102.30%
65) SURRE3,Toluene-d8	7.89	98	384477	54.21	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	108.42%
86) SURRE2,BFB	10.25	95	153450	50.53	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	101.06%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.11	85	4404	1.11	ug/L	92
3) Chloromethane	1.19	50	2768	1.05	ug/L	88
4) Vinyl Chloride	1.27	62	3095m	0.95	ug/L	
5) Bromomethane	1.44	94	2320	1.18	ug/L	91
6) Chloroethane	1.51	64	1514m	0.94	ug/L	
7) Freon 21	1.53	67	5490m	1.13	ug/L	
8) Freon 123	1.71	83	3417	1.14	ug/L	95
9) Freon 123a	1.73	67	2881	1.18	ug/L	99
10) Acrolein	1.79	56	906m	4.29	ug/L	
11) Trichlorofluoromethane	1.79	101	3764	1.04	ug/L	80
12) Acetonitrile	1.80	41	825	5.68	ug/L	97
13) 2-Propanol	1.85	45	2460m	24.67	ug/L	
15) Diethyl Ether	1.94	59	1552	1.22	ug/L #	77
16) 1,1-Dicethene	2.10	96	2029	1.11	ug/L #	81
17) Iodomethane	2.11	142	3484m	1.17	ug/L	
18) TBA	2.13	59	3385	19.65	ug/L	91
19) Acrylonitrile	2.15	53	2966m	5.36	ug/L	
20) Methylene Chloride	2.19	84	2491	1.28	ug/L	89
21) Freon 113	2.24	101	2527	1.20	ug/L	90
22) Methyl Acetate	2.26	43	1379	0.84	ug/L	79
23) Allyl Chloride	2.26	76	730	0.97	ug/L #	69
24) Carbon Disulfide	2.31	76	6578	1.17	ug/L	92
25) trans-1,2-Dichloroethene	2.69	96	2312	1.18	ug/L	97
26) Methyl-t-Butyl Ether	2.81	73	5190	1.03	ug/L	82
27) 1,1-Dicethane	2.89	63	3093	1.04	ug/L	84
28) Propionitrile	2.95	54	629m	3.16	ug/L	
29) Vinyl Acetate	3.11	43	4155	1.17	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.26	53	2790	1.06	ug/L	88
32) Methacrylonitrile	3.48	67	637m	0.98	ug/L	
33) cis-1,2-Dichloroethene	3.47	96	2319	1.11	ug/L #	71
34) Bromochloromethane	3.65	128	1284	1.08	ug/L #	75
35) Chloroform	3.71	83	3807	1.07	ug/L	92
36) 2,2-Dichloropropane	3.79	77	3620m	1.12	ug/L	
37) Ethyl Acetate	3.84	43	2216m	1.56	ug/L	
39) 1,1,1-Trichloroethane	4.72	97	3822	1.11	ug/L	90
44) 1,2-Dichloroethane	4.60	64	1233m	1.28	ug/L	
45) 2-Methyl-1,3-Dioxolane	4.85	73	1097m	4.72	ug/L	
46) 1,1-Dichloropropene	5.07	75	2486	0.98	ug/L	87
47) Cyclohexane	5.16	56	2940m	1.13	ug/L	

(#) = qualifier out of range (m) = manual integration  
 D7724.D W082417.M Fri Aug 25 10:02:23 2017



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:02 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) Carbontetrachloride	5.31	119	2822m	1.00	ug/L	
49) Benzene	5.39	78	7408	1.08	ug/L	87
50) Isopropyl Acetate	5.42	43	3433	1.03	ug/L	83
51) Dibromomethane	6.18	93	1789	1.23	ug/L #	84
52) 1,2-Diclp propane	6.25	63	1919m	1.10	ug/L	
53) n-Heptane	6.34	43	2174m	1.14	ug/L	
54) Trichloroethene	6.32	130	2126	0.94	ug/L	92
55) Bromodichloromethane	6.37	83	2784	1.03	ug/L	93
57) Epichlorohydrin	6.76	57	635m	4.55	ug/L	
58) Methyl Methacrylate	6.76	69	1386	1.17	ug/L #	88
59) Methylcyclohexane	6.90	55	2045m	0.95	ug/L	
60) 2-Chloroethylvinyl Ether	7.03	63	1103m	1.00	ug/L	
61) cis-1,3-Dichloropropene	7.18	75	3234	1.06	ug/L	97
62) 4-Methyl-2-pentanone	7.38	43	1815	1.15	ug/L #	45
63) trans-1,3-Dichloropropene	7.67	75	3073	1.08	ug/L #	54
64) 1,1,2-Trichloroethane	7.77	97	1833	1.06	ug/L	97
66) Toluene	7.96	91	7671	0.98	ug/L	95
68) 1,3-Dichloropropene	8.02	76	2879	1.06	ug/L	98
69) Ethyl Methacrylate	8.20	69	2478	1.13	ug/L #	69
70) Dibromochloromethane	8.21	129	2017m	0.90	ug/L	
71) 2-Hexanone	8.28	43	1015	0.94	ug/L	89
72) 1,2-Dibromoethane	8.43	107	2214m	1.13	ug/L	
73) n-Butyl Acetate	8.64	43	2386m	0.95	ug/L	
74) Tetrachloroethene	8.62	164	1837	0.95	ug/L #	83
75) 1,1,1,2-Tetrachloroethane	9.17	131	1939	0.96	ug/L #	85
76) Chlorobenzene	9.22	112	5906	1.12	ug/L	86
77) Ethylbenzene	9.43	106	3049	1.13	ug/L	93
78) Bromoform	9.62	173	1338	0.89	ug/L	87
79) (m+p)Xylene	9.62	106	7853	2.32	ug/L	97
80) o-Xylene	9.93	106	3359	1.03	ug/L	88
81) Cyclohexanone	9.83	55	1446	23.21	ug/L #	79
82) Styrene	9.88	104	5140	0.99	ug/L	92
83) Amyl Acetate	9.99	43	3645m	1.04	ug/L	
84) trans-1,4-Dichloro-2-Buten	10.11	75	865	1.15	ug/L #	65
85) Isopropylbenzene	10.25	105	9563	1.15	ug/L	91
88) 1,1,2,2-Tetrachloroethane	9.92	83	2034	0.93	ug/L	85
89) 1,2,3-Trichloropropane	10.04	75	1767	1.07	ug/L	98
90) Bromobenzene	10.38	156	3027	1.12	ug/L	98
91) n-Propylbenzene	10.61	91	10759	1.11	ug/L	91
92) 2-Chlorotoluene	10.64	91	6390	1.13	ug/L	91
93) 4-Chlorotoluene	10.72	91	6171	1.02	ug/L	99
94) 1,3,5-Trimethylbenzene	10.87	105	6820	1.01	ug/L	96
95) tert-Butylbenzene	11.06	119	6339	1.08	ug/L	98
96) 1,2,4-Trimethylbenzene	11.17	105	7789	1.08	ug/L	95
97) sec-Butylbenzene	11.24	105	8689	1.04	ug/L	91
98) 1,3-Dclbenz	11.25	146	5098	1.11	ug/L	96
99) 1,4-Dclbenz	11.31	146	5404m	1.17	ug/L	
100) p-Isopropyltoluene	11.40	119	8167	1.19	ug/L	97
101) 1,2-Dclbenz	11.58	146	5071	1.10	ug/L	98
102) n-Butylbenzene	11.73	91	6917	1.09	ug/L	88
103) 1,2-Dibromo-3-chloropropan	11.95	75	414	1.03	ug/L	85
105) 1,2,4-Tc benzene	13.02	180	3505	1.10	ug/L	91
106) Naphthalen	13.19	128	6789	1.13	ug/L	97
107) Hexachlorobt	13.28	225	1820	1.17	ug/L	85

(#) = qualifier out of range (m) = manual integration  
 D7724.D W082417.M Fri Aug 25 10:02:24 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D Vial: 7  
 Acq On : 24 Aug 2017 10:25 am Operator: D.Lipani  
 Sample : STD #2 - 1.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:02 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 09:33:36 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

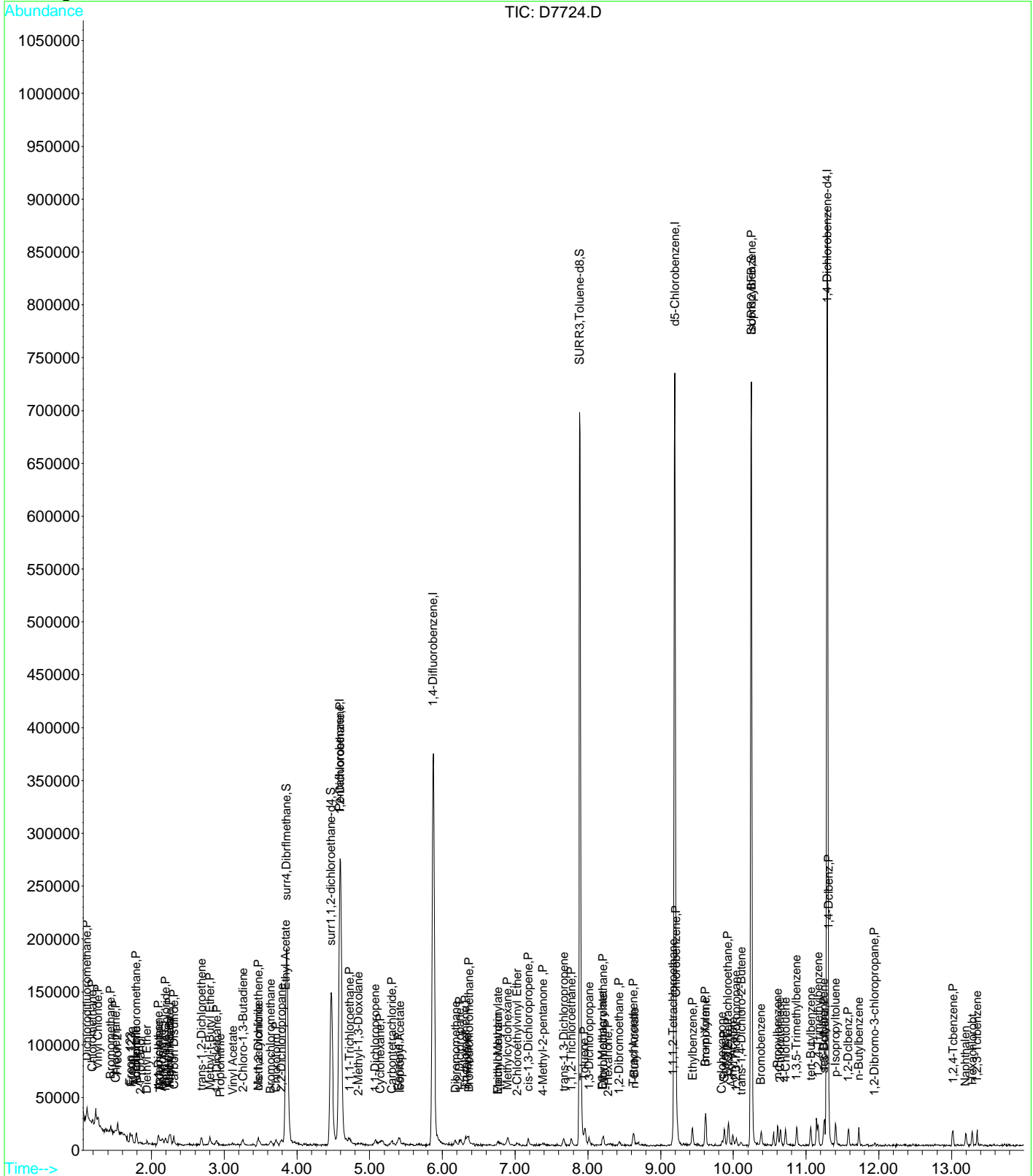
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
108) 1,2,3-Tclbenzene	13.35	180	2950	1.08 ug/L	86

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7724.D  
Acq On : 24 Aug 2017 10:25 am  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:02 2017

Vial: 7  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

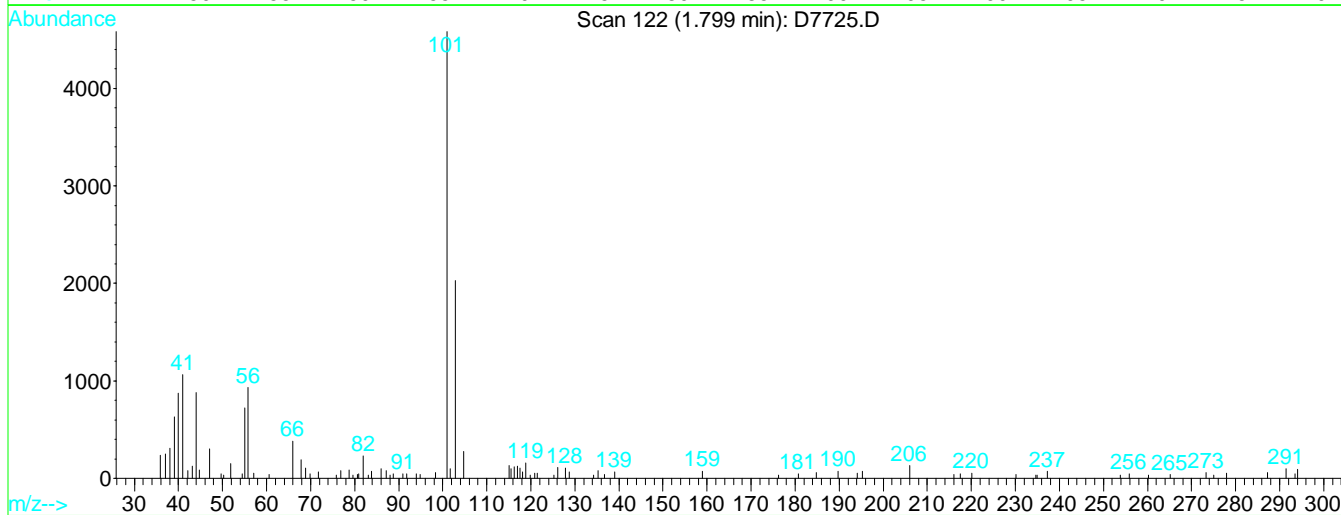
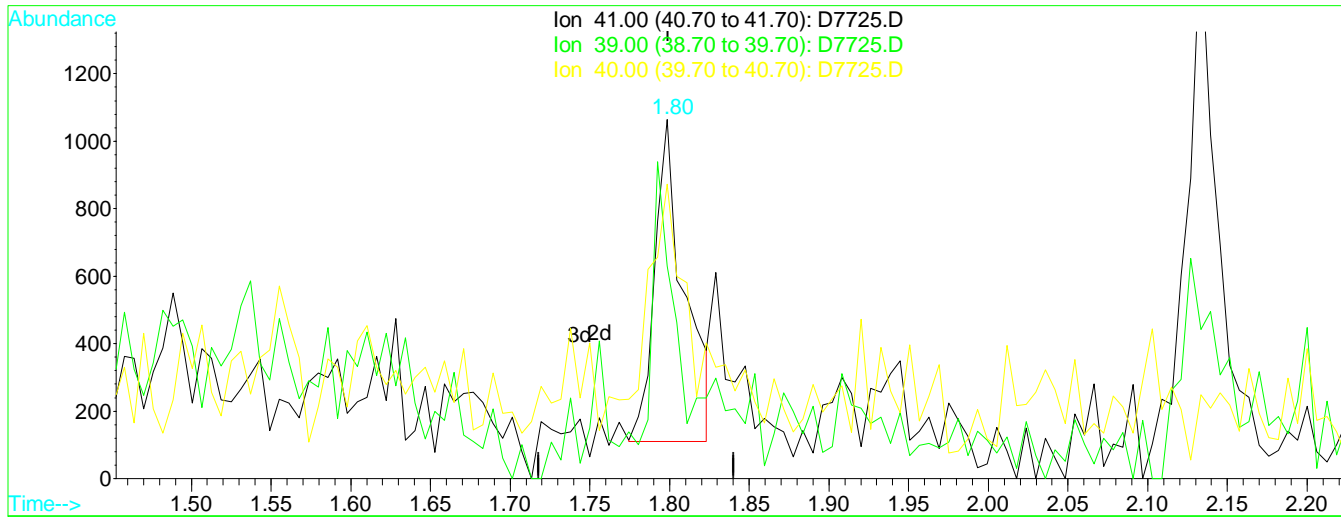
Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:01:01 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:10 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Multiple Level Calibration



TIC: D7725.D

(12) Acetonitrile

1.80min 8.51ug/L m

response 1234

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	59.06#
40.00	57.00	81.88#
0.00	0.00	0.00

Manual Integration:

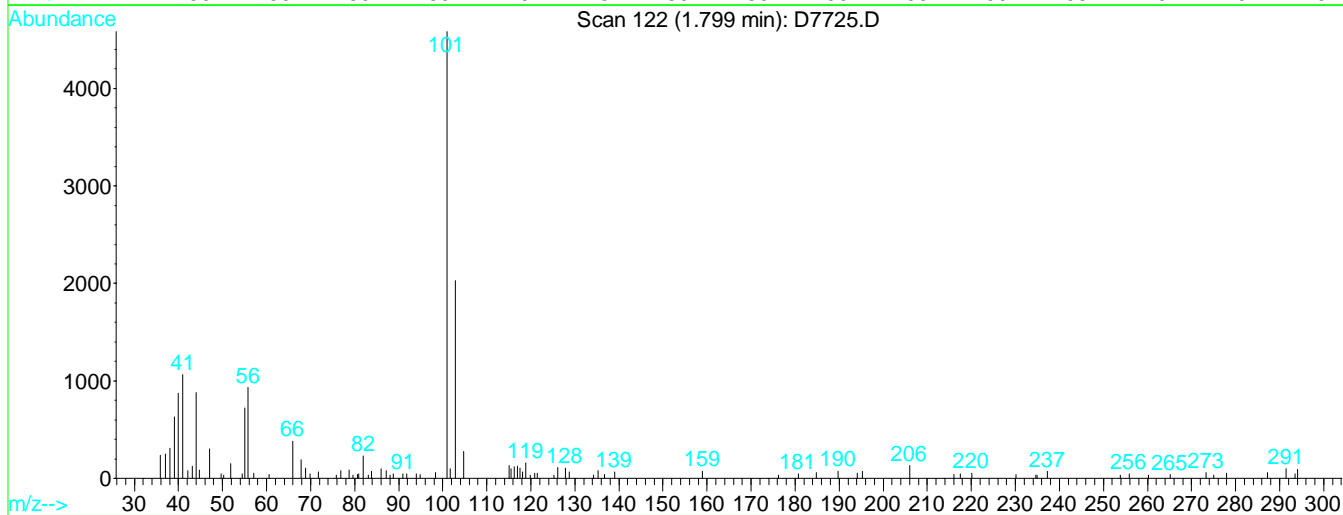
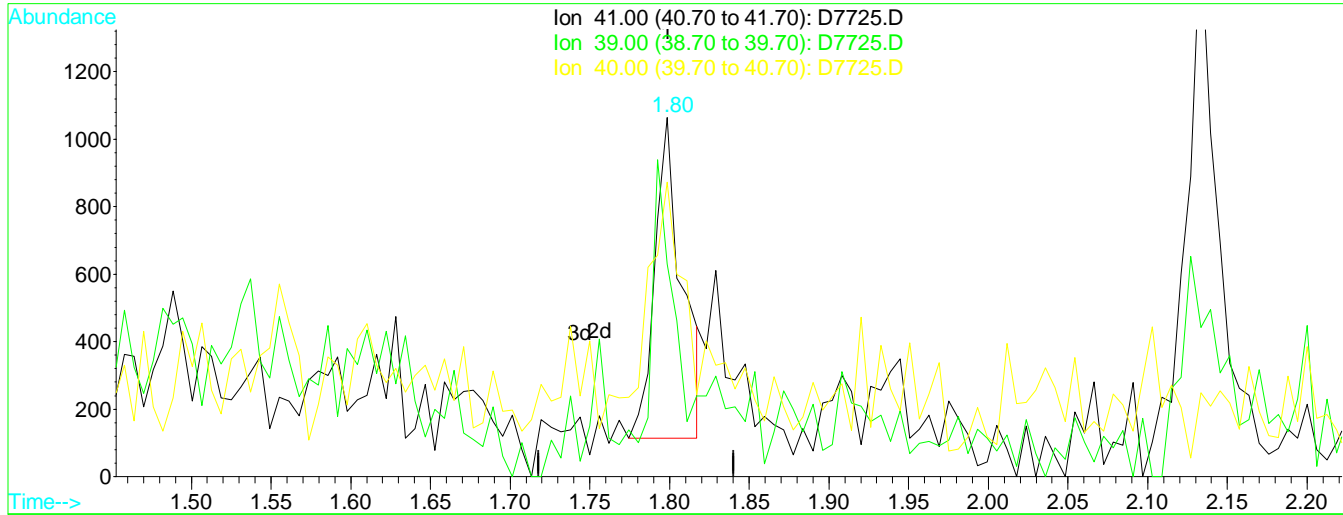
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:08 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(12) Acetonitrile  
1.80min 7.80ug/L  
response 1130

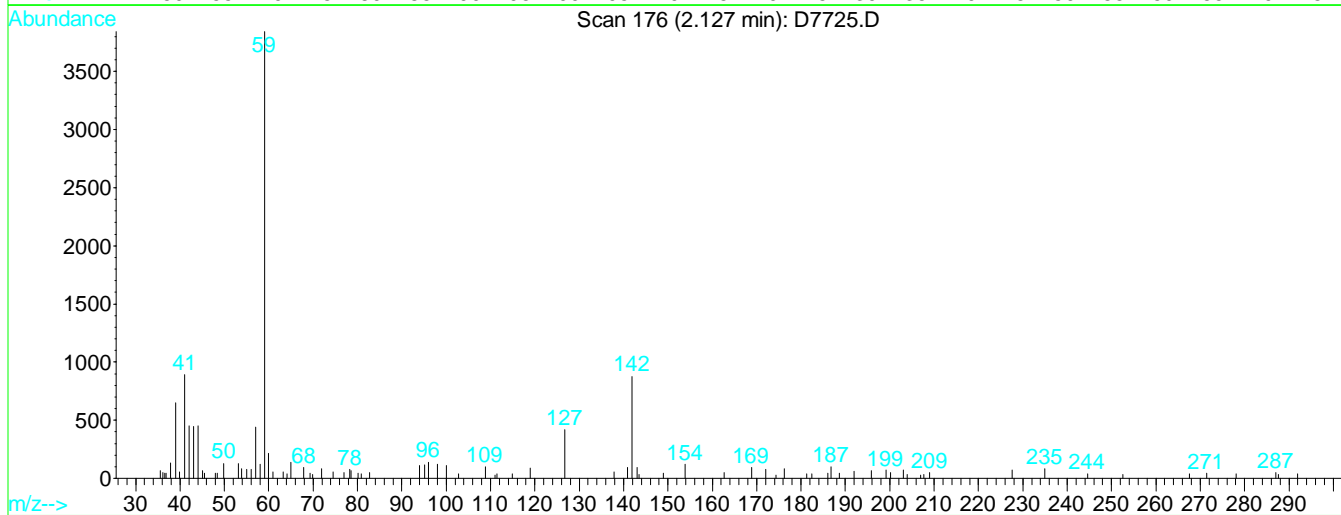
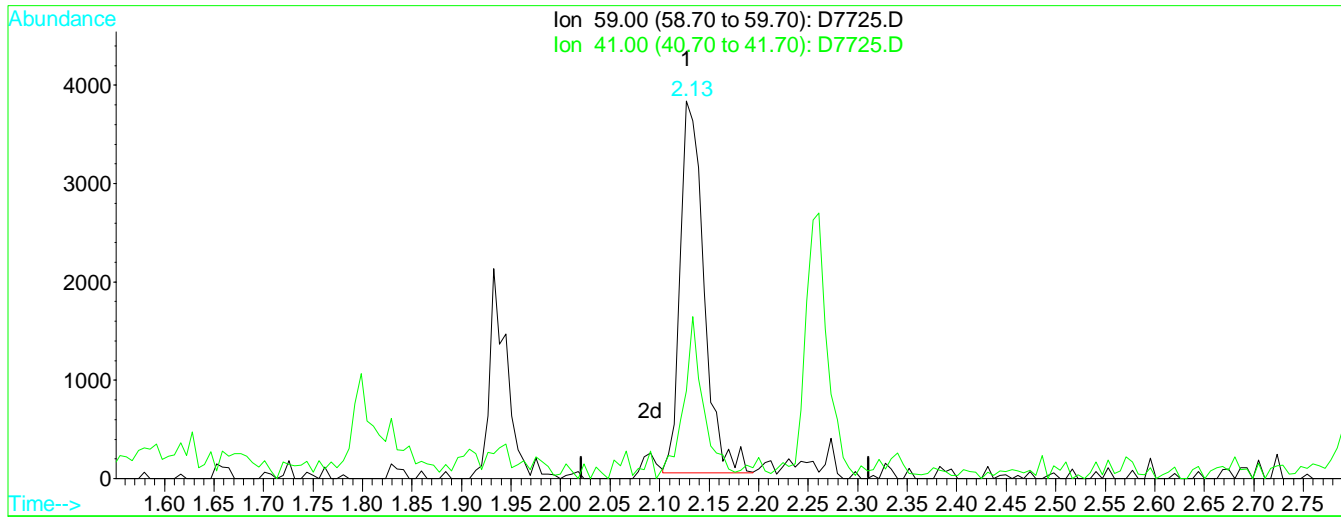
Manual Integration:  
Before

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	59.06#
40.00	57.00	81.88#
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:11 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(18) TBA

2.13min 36.81ug/L m

response 6326

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	23.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

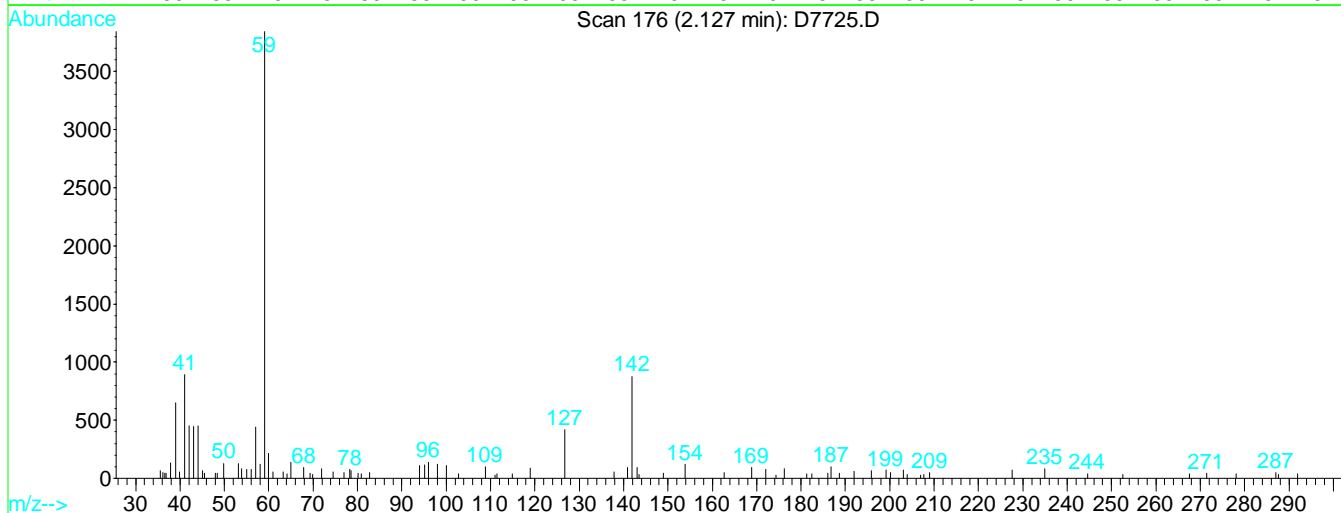
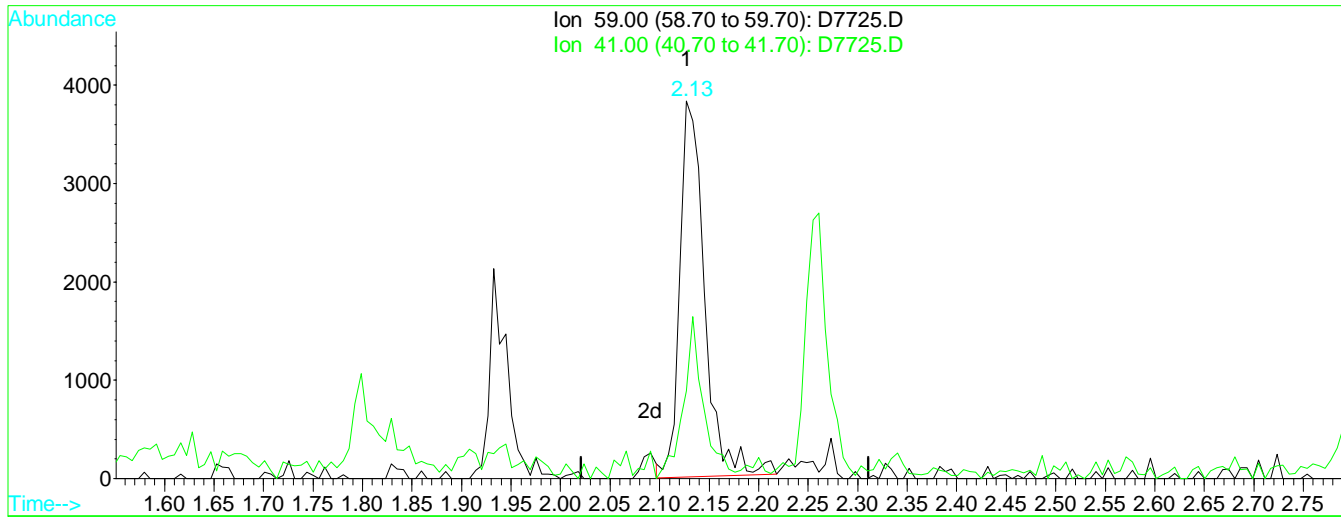
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:10 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration

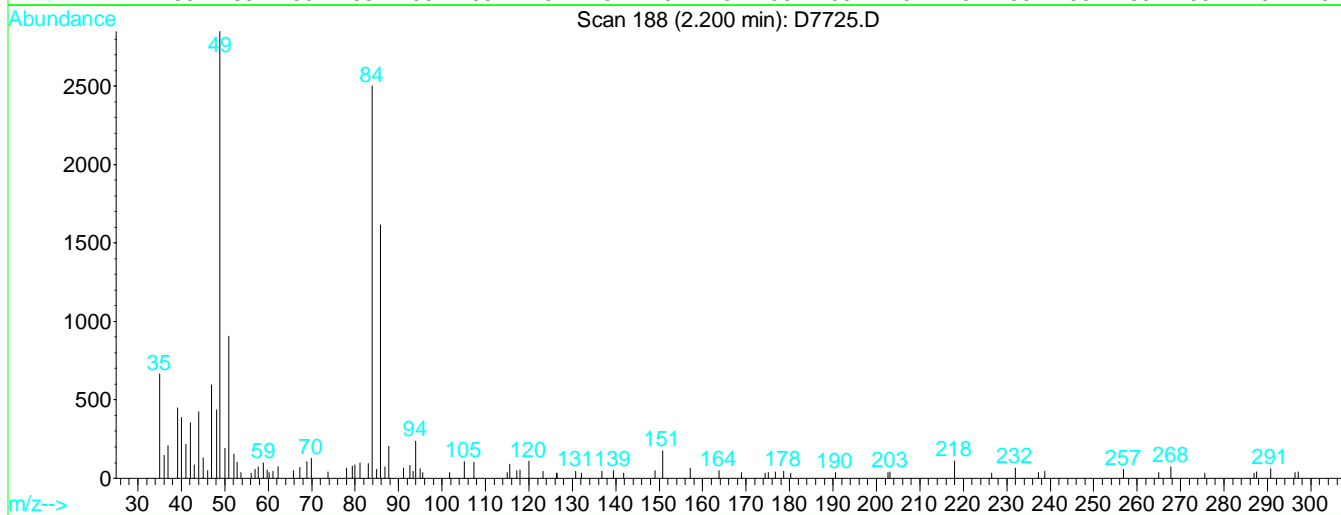
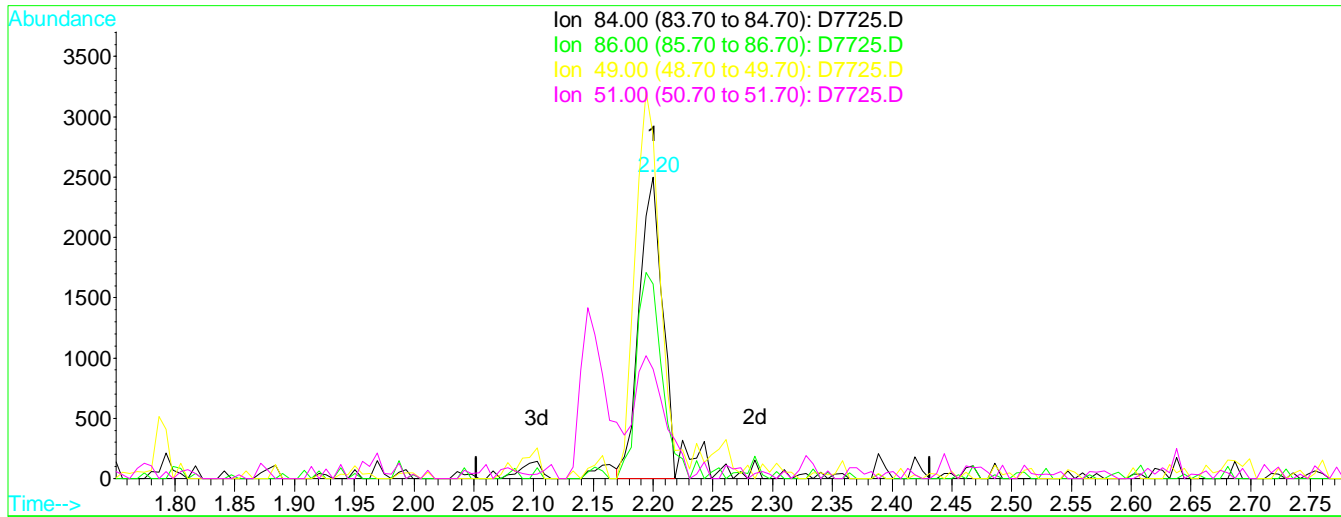


TIC: D7725.D

(18) TBA			Manual Integration:
2.13min	38.74ug/L		Before
response	6657		
Ion	Exp%	Act%	08/25/17
59.00	100	100	
41.00	19.90	23.17	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:11 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(20) Methylene Chloride (P)

Manual Integration:

2.20min 1.74ug/L m

After

response 3385

Poor integration.

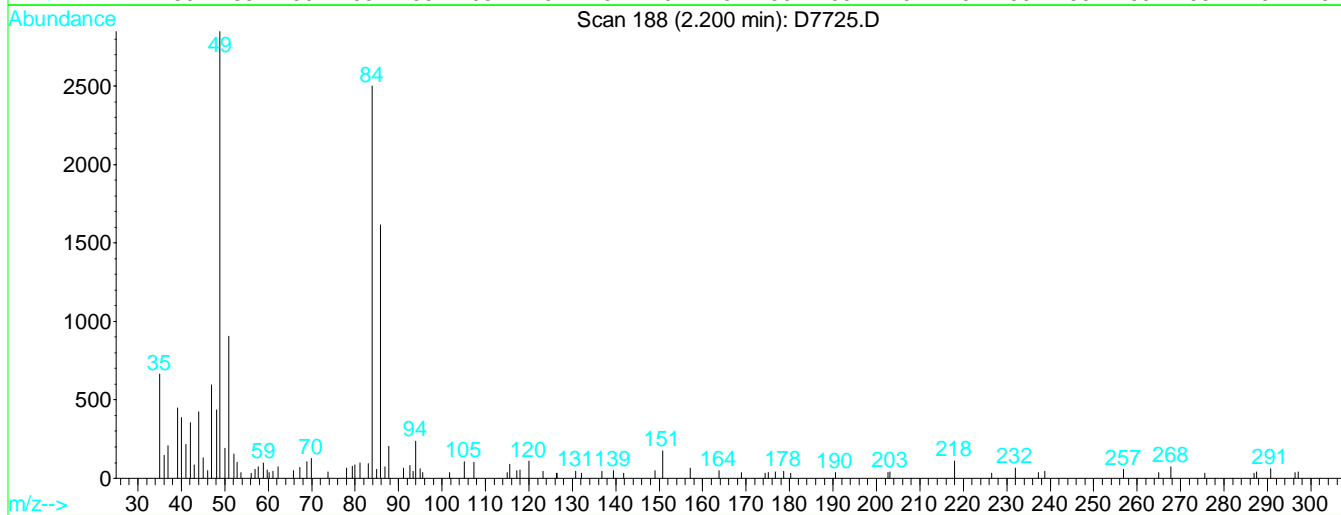
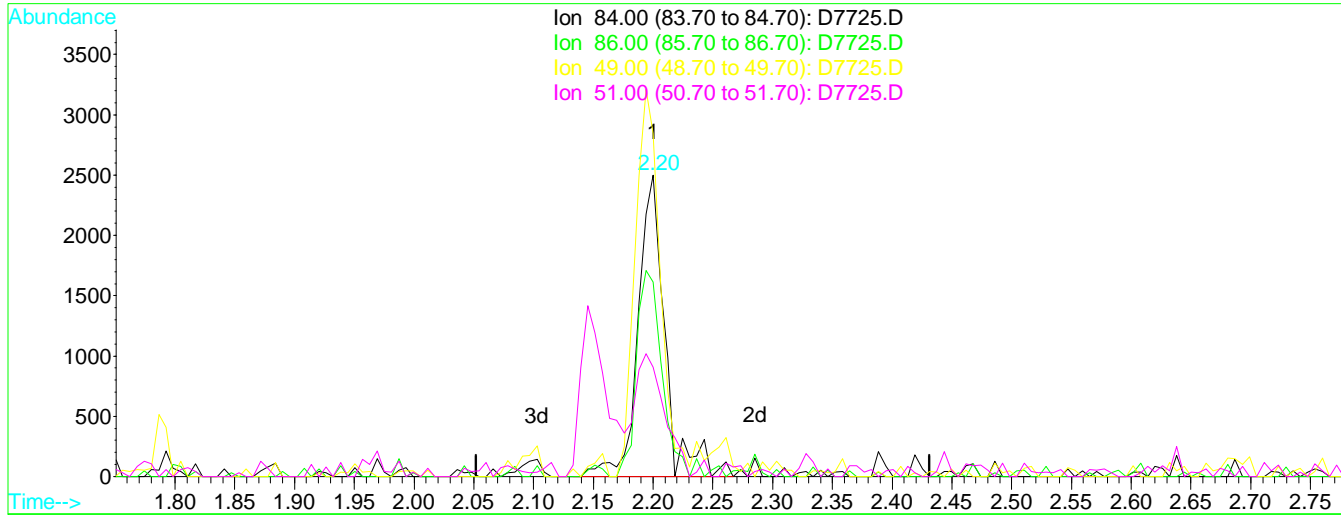
Ion	Exp%	Act%
84.00	100	100
86.00	63.20	64.60
49.00	119.20	113.88
51.00	41.00	36.28

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:11 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(20) Methylene Chloride (P)

Manual Integration:

2.20min 2.04ug/L

Before

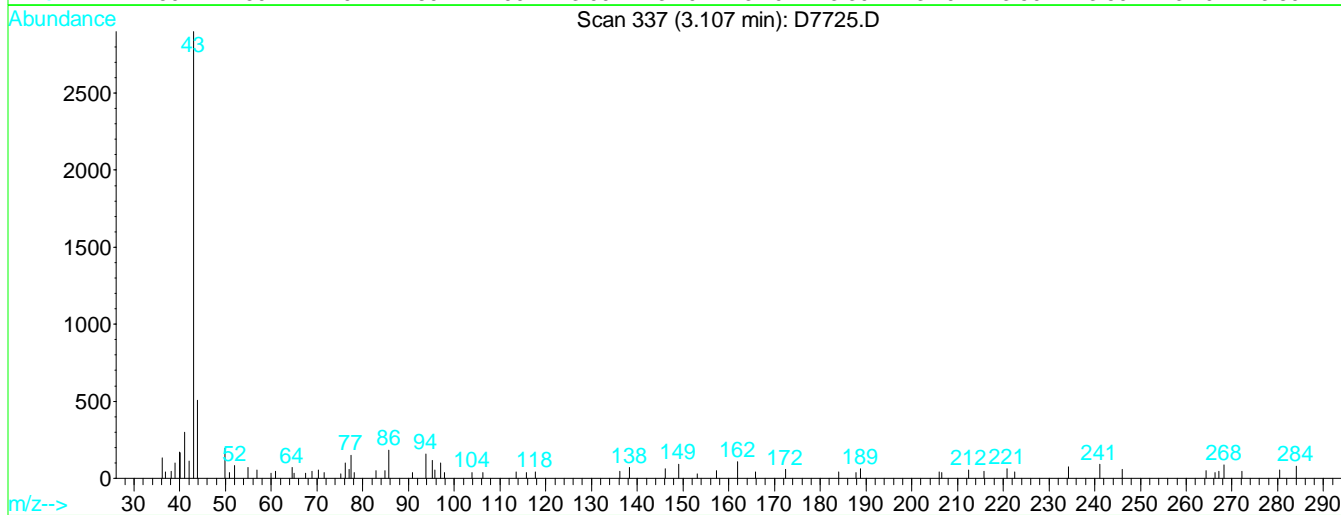
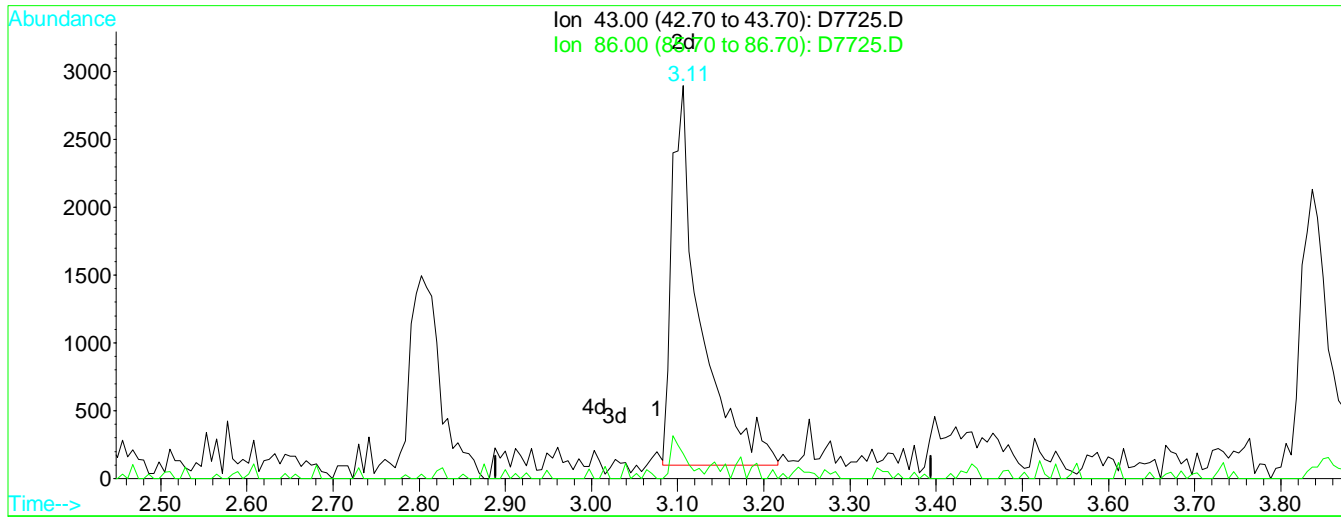
response 3964

Ion	Exp%	Act%
84.00	100	100
86.00	63.20	64.60
49.00	119.20	113.88
51.00	41.00	36.28

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:12 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Single Level Calibration



TIC: D7725.D

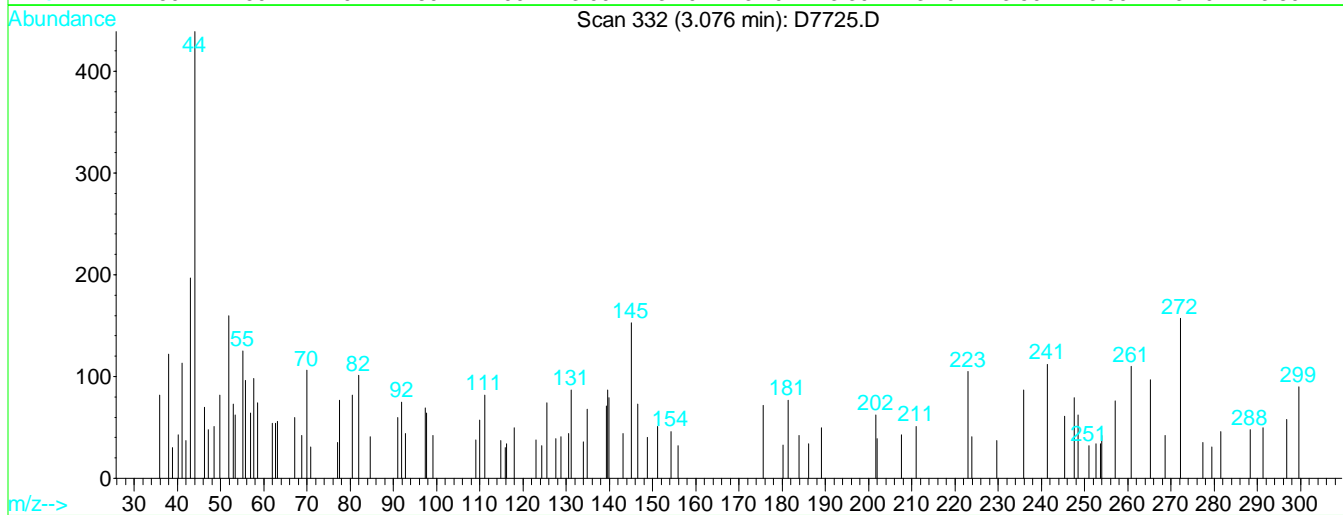
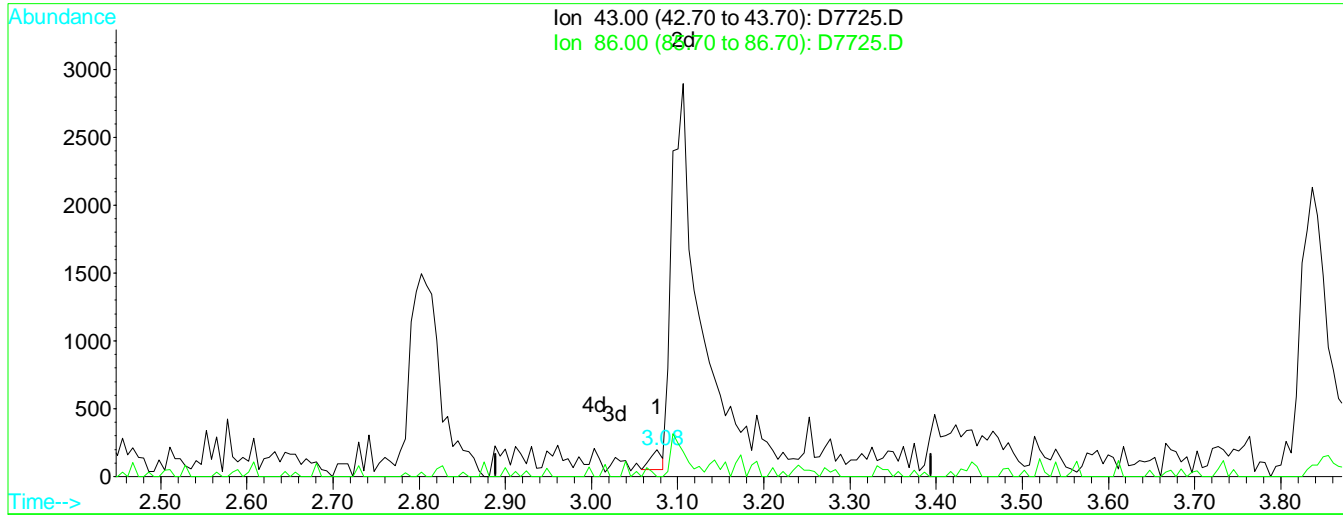
(29) Vinyl Acetate  
 3.11min 1.79ug/L m  
 response 6320

Manual Integration:  
 After  
 Peak not found.  
 08/25/17

Ion	Exp%	Act%
43.00	100	100
86.00	8.70	6.31
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:11 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Single Level Calibration



TIC: D7725.D

(29) Vinyl Acetate

Manual Integration:

3.08min 0.04ug/L

Before

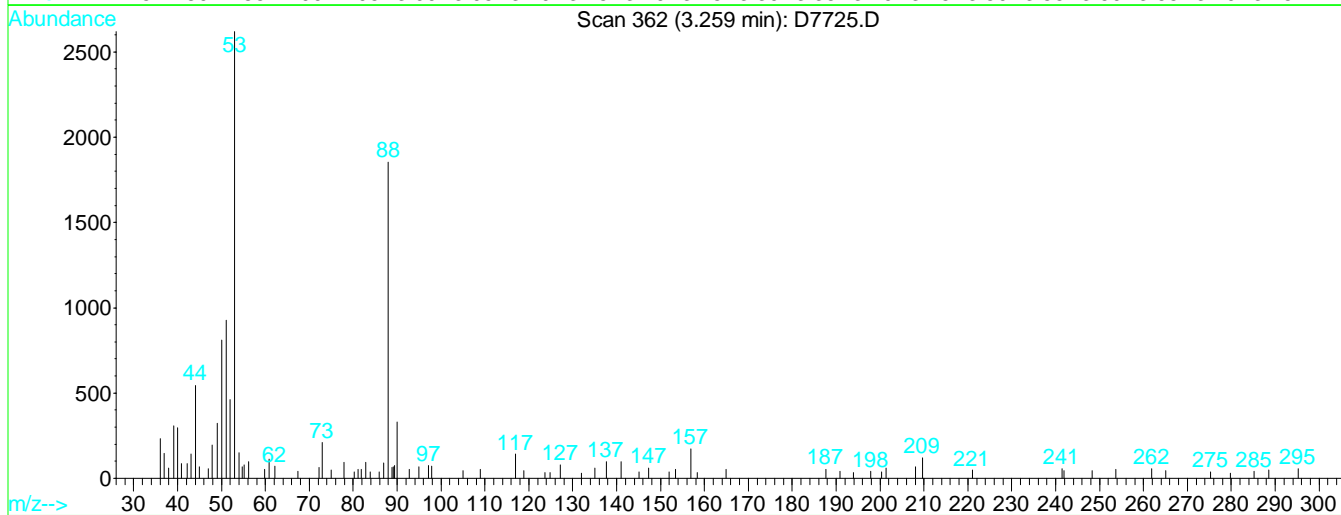
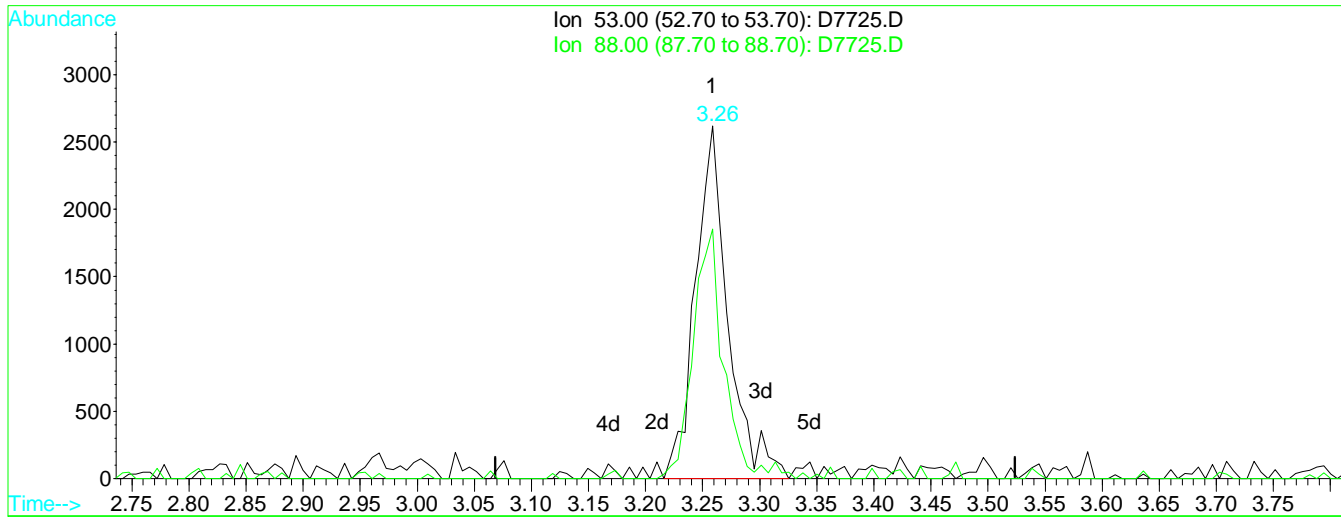
response 138

08/25/17

Ion	Exp%	Act%
43.00	100	100
86.00	8.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:13 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(30) 2-Chloro-1,3-Butadiene

Manual Integration:

3.26min 1.99ug/L m

After

response 5218

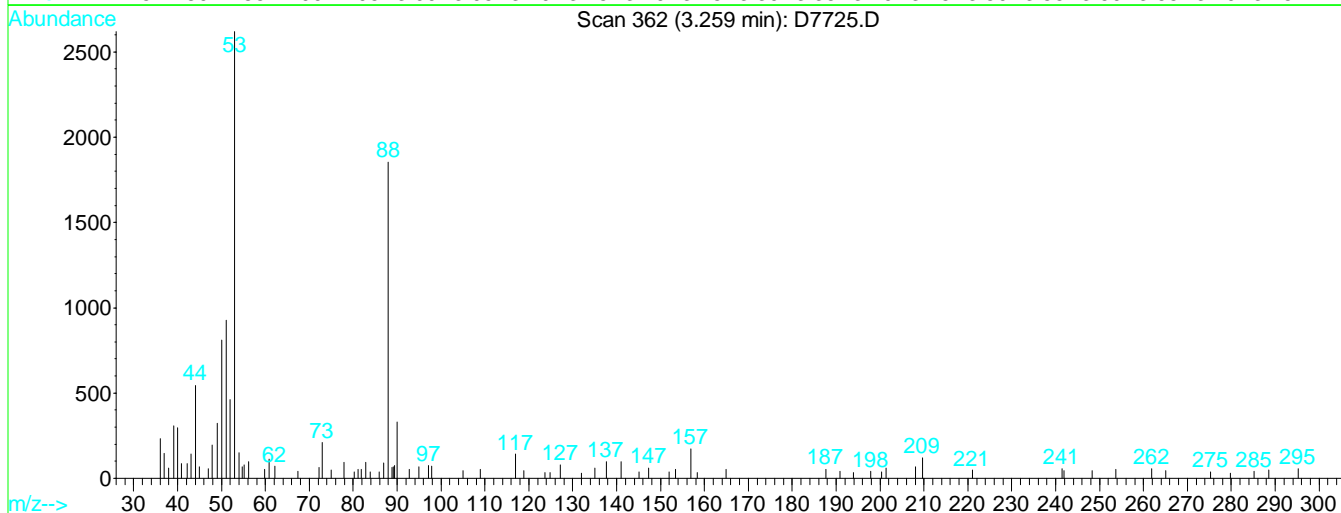
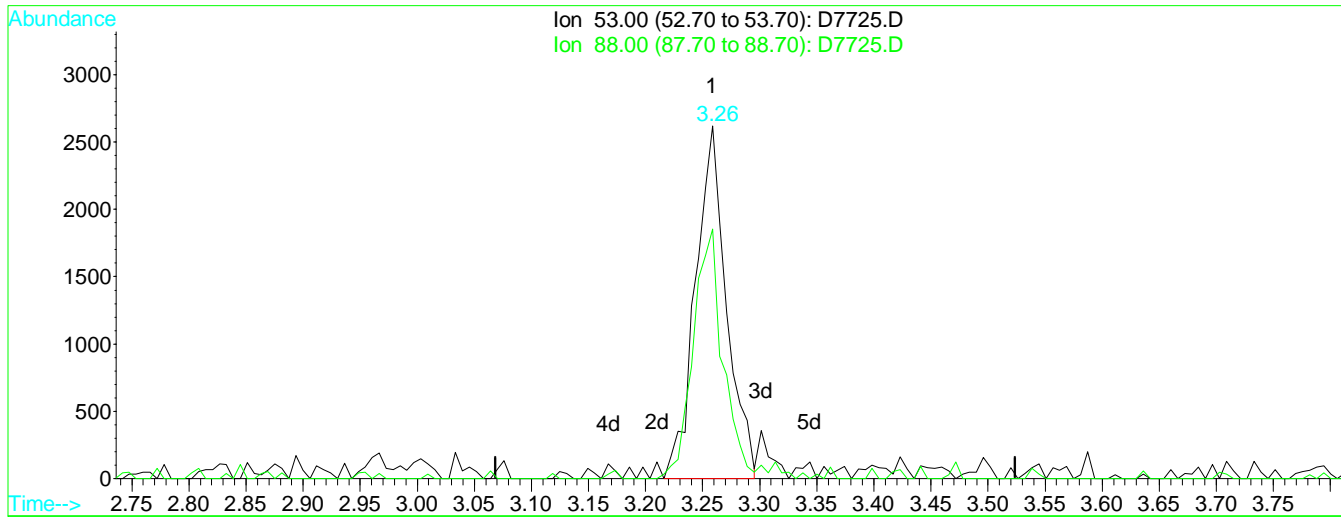
Split Peak.

Ion	Exp%	Act%
53.00	100	100
88.00	57.00	70.79
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:12 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Multiple Level Calibration

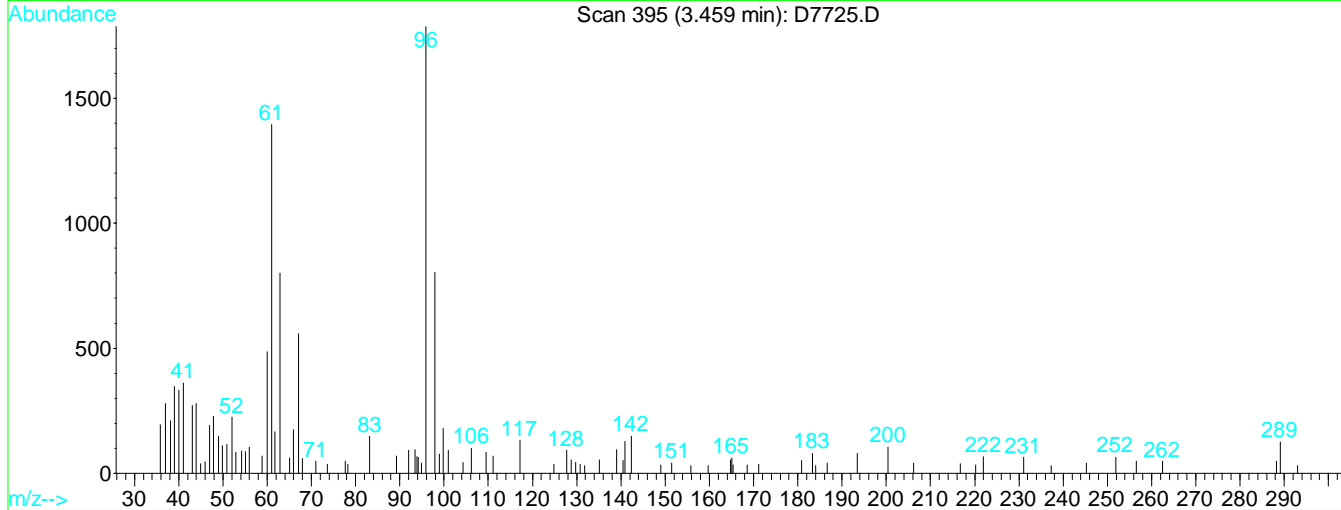
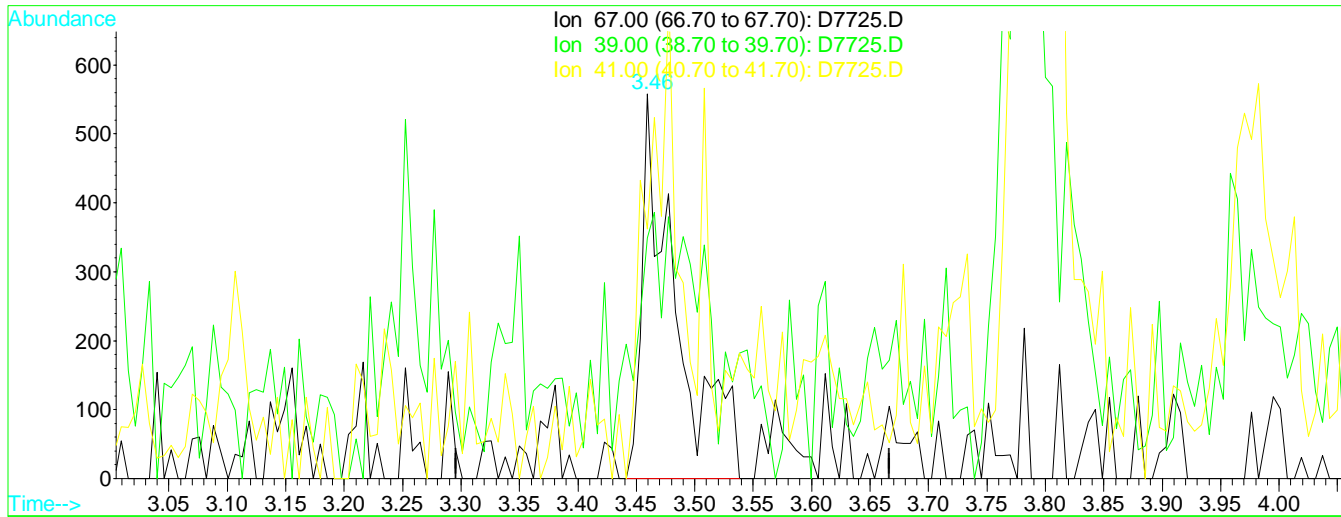


TIC: D7725.D

(30) 2-Chloro-1,3-Butadiene			Manual Integration:
3.26min 1.89ug/L			Before
response 4942			
Ion	Exp%	Act%	08/25/17
53.00	100	100	
88.00	57.00	70.79	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:13 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Single Level Calibration



TIC: D7725.D

(32) Methacrylonitrile

Manual Integration:

3.46min 1.76ug/L m

After

response 1137

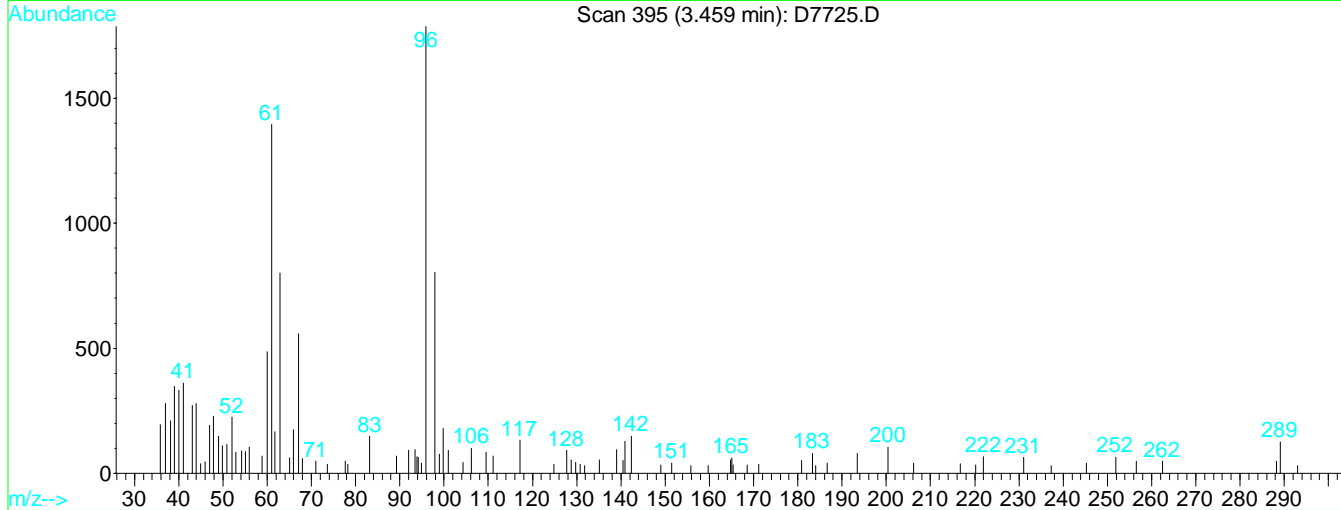
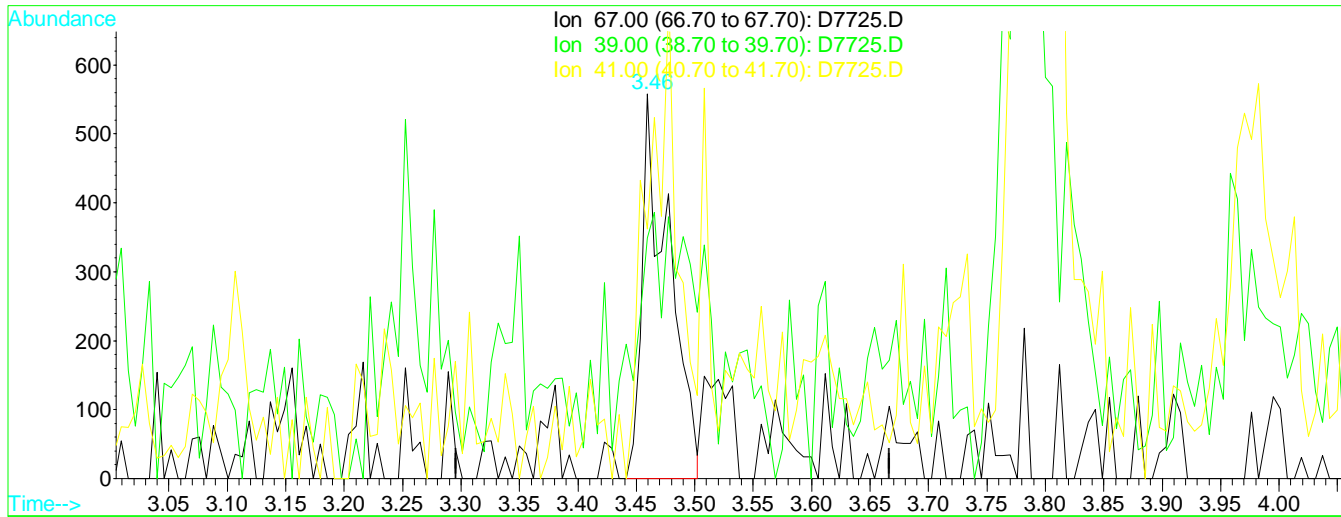
Split Peak.

08/25/17

Ion	Exp%	Act%
67.00	100	100
39.00	96.70	62.54#
41.00	148.40	64.87#
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:13 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Single Level Calibration



TIC: D7725.D

(32) Methacrylonitrile

Manual Integration:

3.46min 1.38ug/L

Before

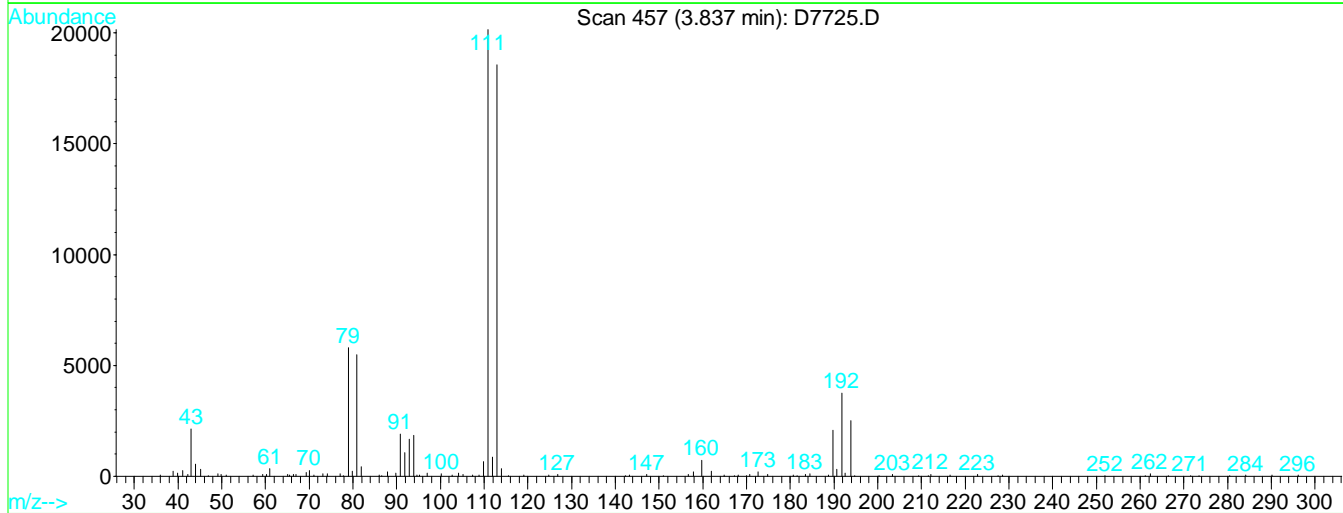
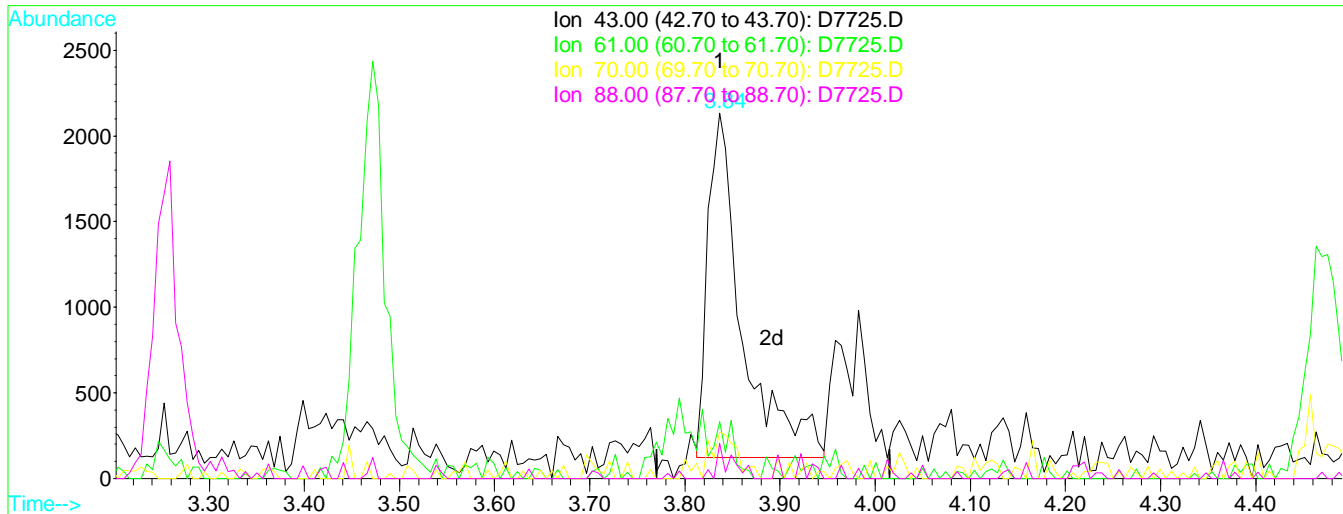
response 891

Ion	Exp%	Act%
67.00	100	100
39.00	96.70	62.54#
41.00	148.40	64.87#
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:14 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



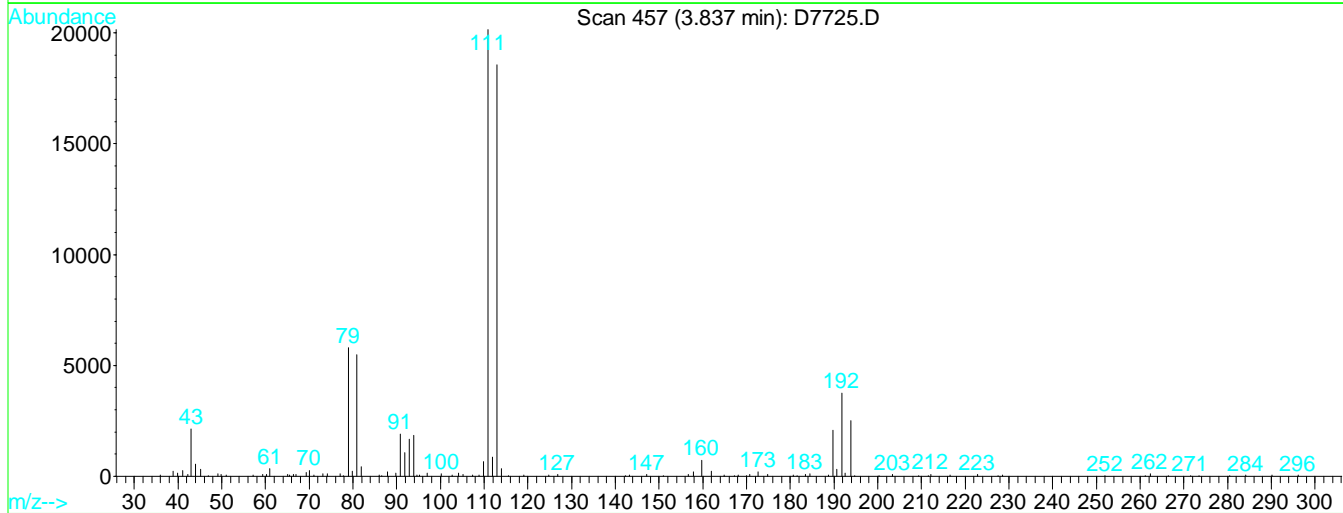
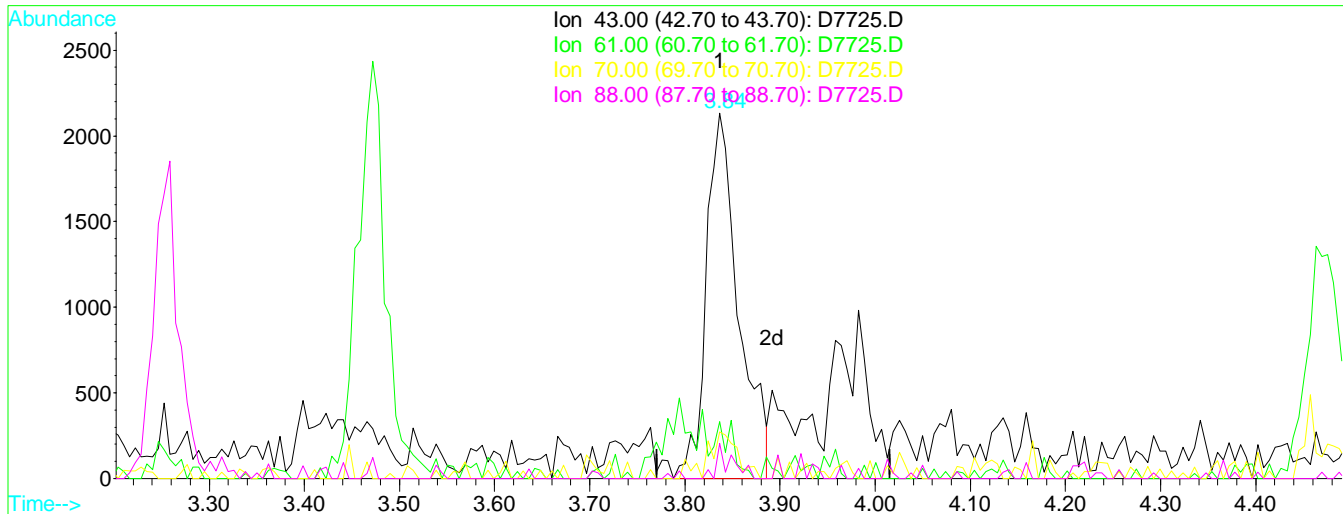
TIC: D7725.D

(37) Ethyl Acetate	Manual Integration:
3.84min 3.57ug/L m	After
response 5055	Split Peak.
	08/25/17
Ion Exp% Act%	
43.00 100 100	
61.00 21.70 15.61	
70.00 10.60 12.85	
88.00 4.70 9.56	



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:13 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(37) Ethyl Acetate

Manual Integration:

3.84min 3.56ug/L

Before

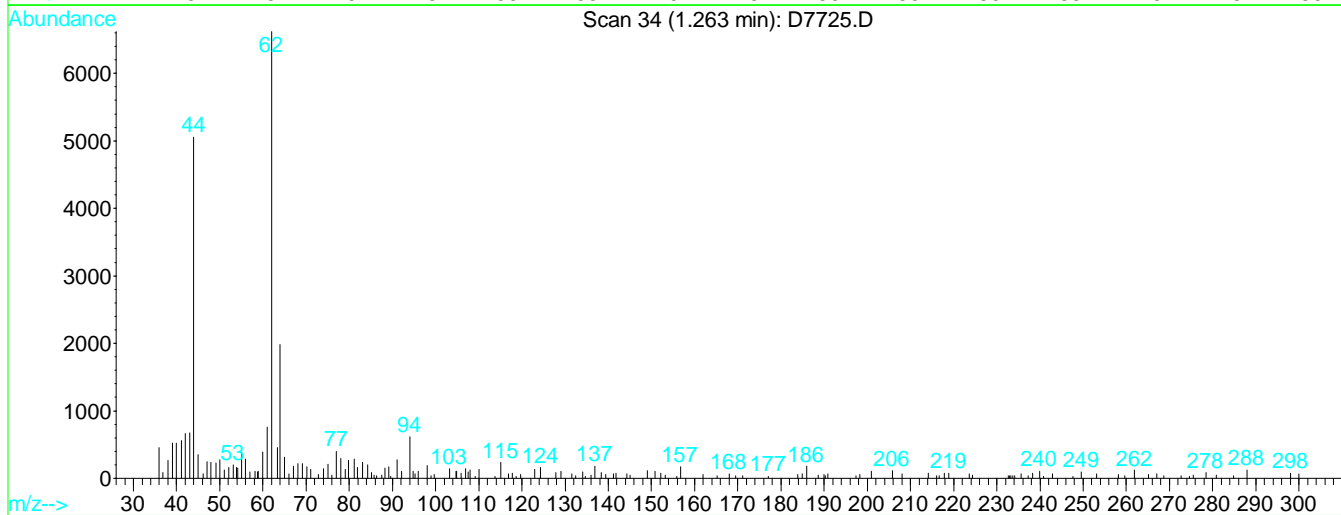
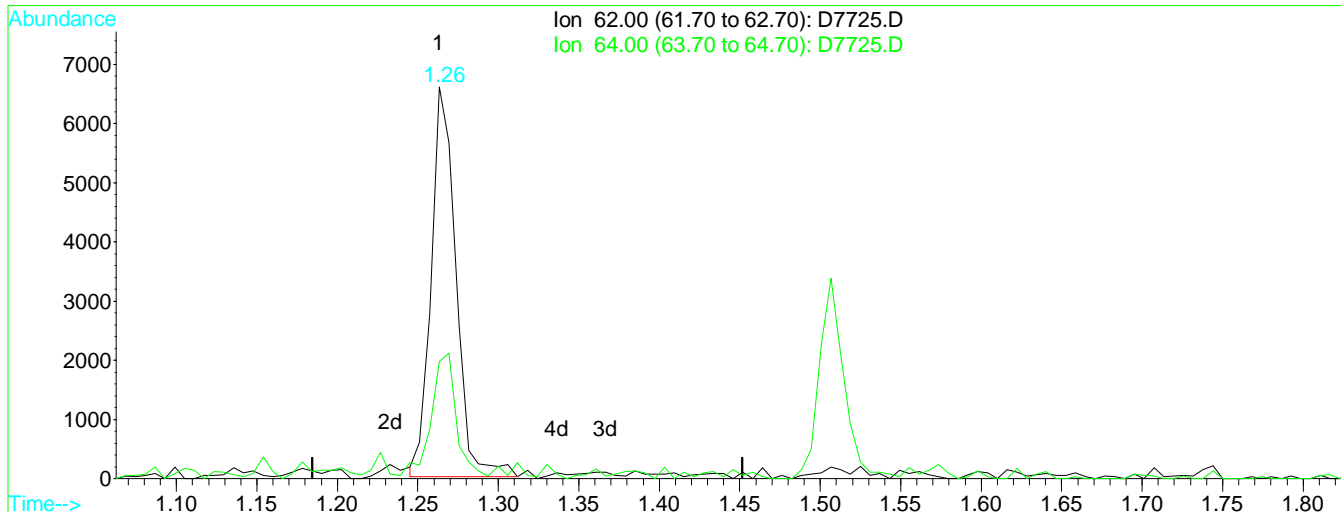
response 5042

08/25/17

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	15.61
70.00	10.60	12.85
88.00	4.70	9.56

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:08 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(4) Vinyl Chloride (P)

Manual Integration:

1.26min 2.16ug/L m

After

response 7056

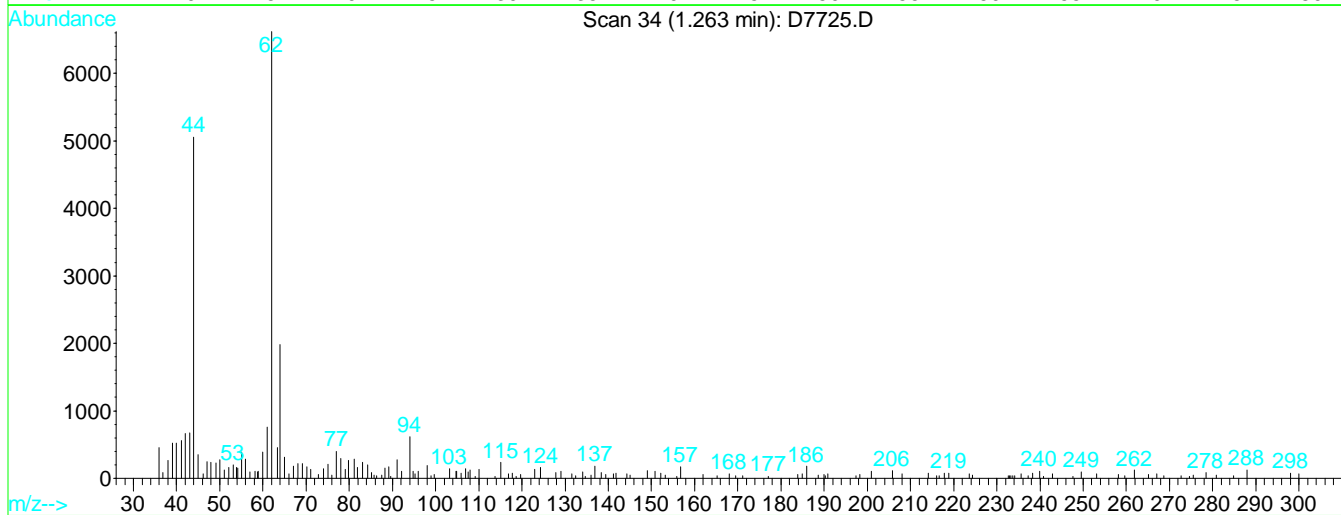
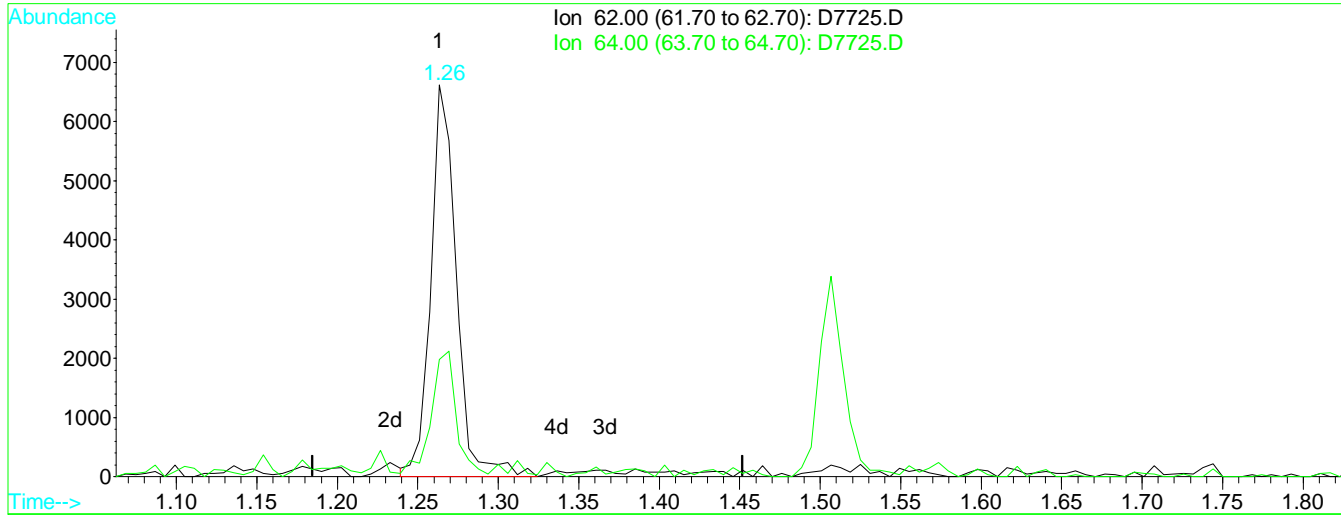
Poor integration.

08/25/17

Ion	Exp%	Act%
62.00	100	100
64.00	35.30	29.90
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:07 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(4) Vinyl Chloride (P)

Manual Integration:

1.26min 2.24ug/L

Before

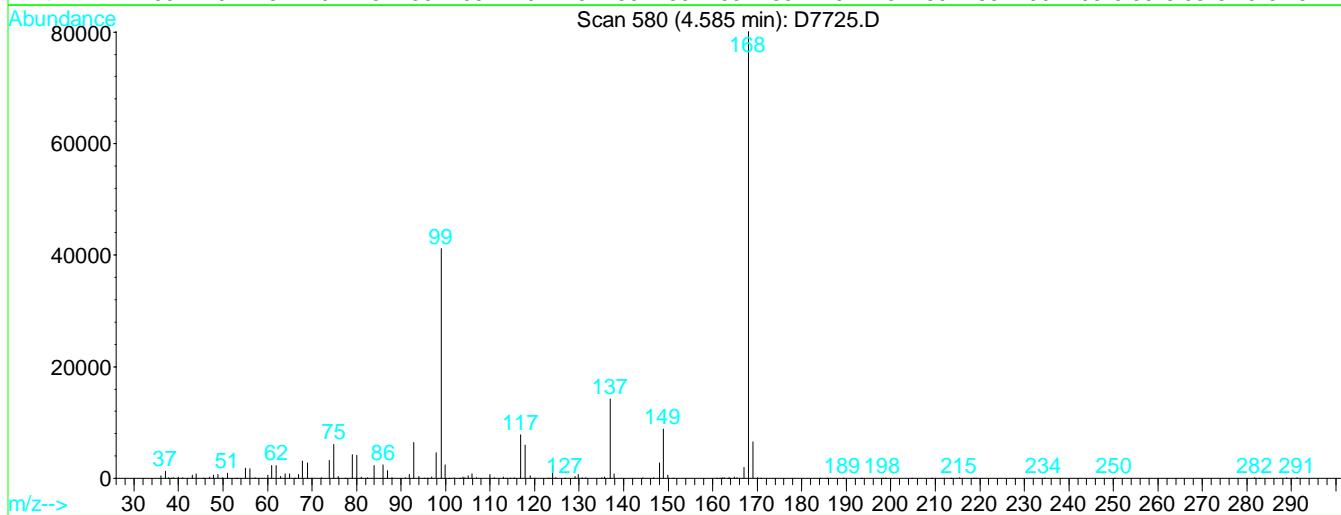
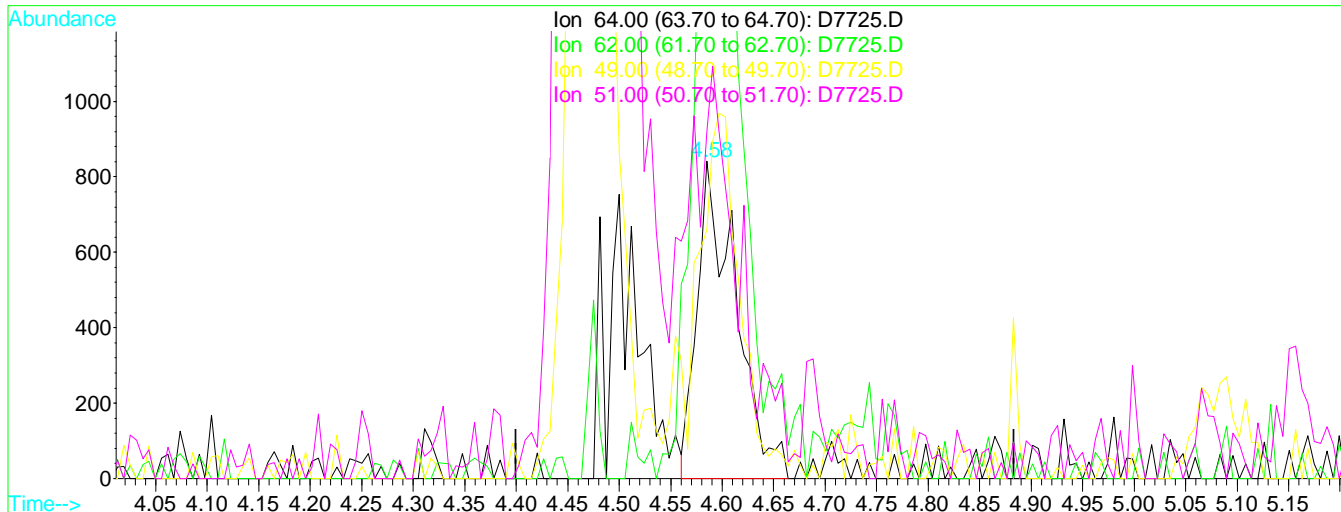
response 7306

Ion	Exp%	Act%
62.00	100	100
64.00	35.30	29.90
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:16 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(44) 1,2-Dichloroethane (P)

Manual Integration:

4.58min 2.32ug/L m

After

response 2194

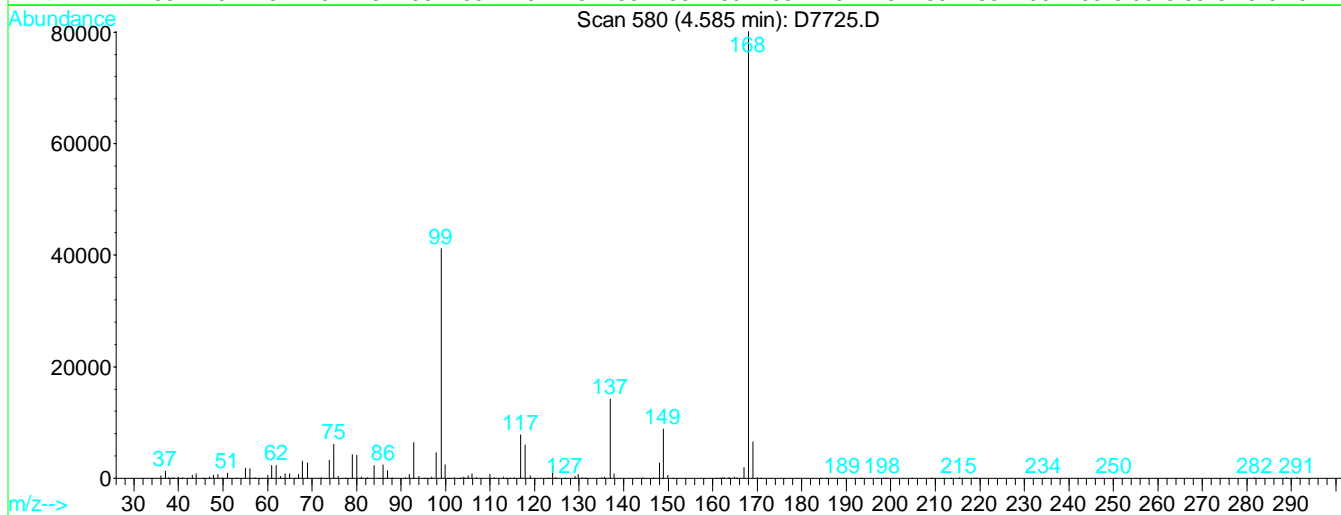
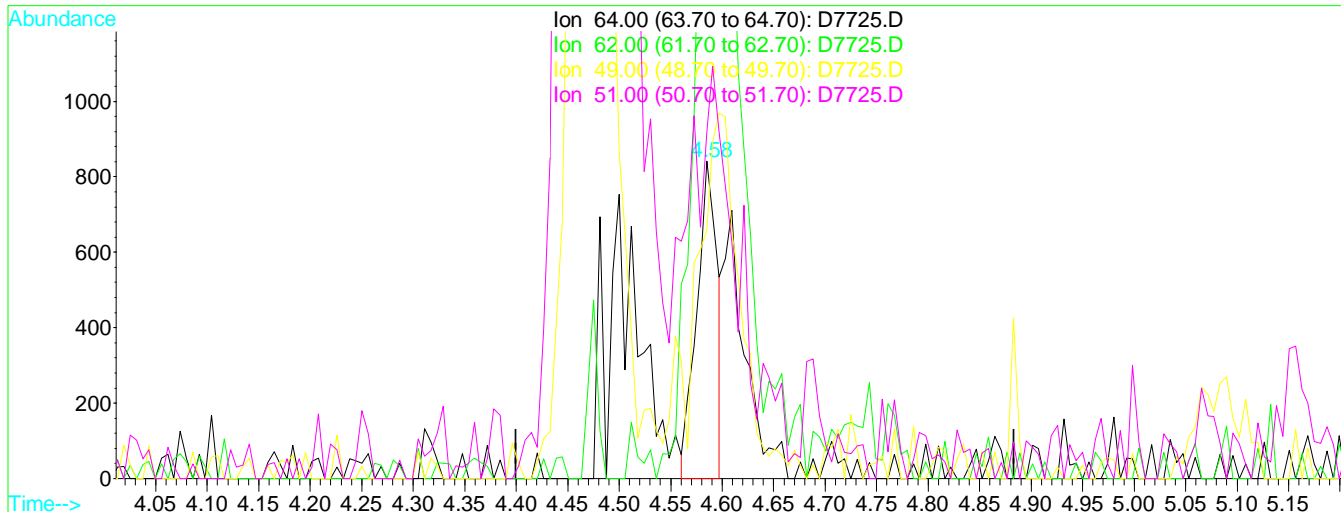
Split Peak.

Ion	Exp%	Act%
64.00	100	100
62.00	291.40	278.00
49.00	77.00	78.48
51.00	29.80	109.39#

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:14 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration

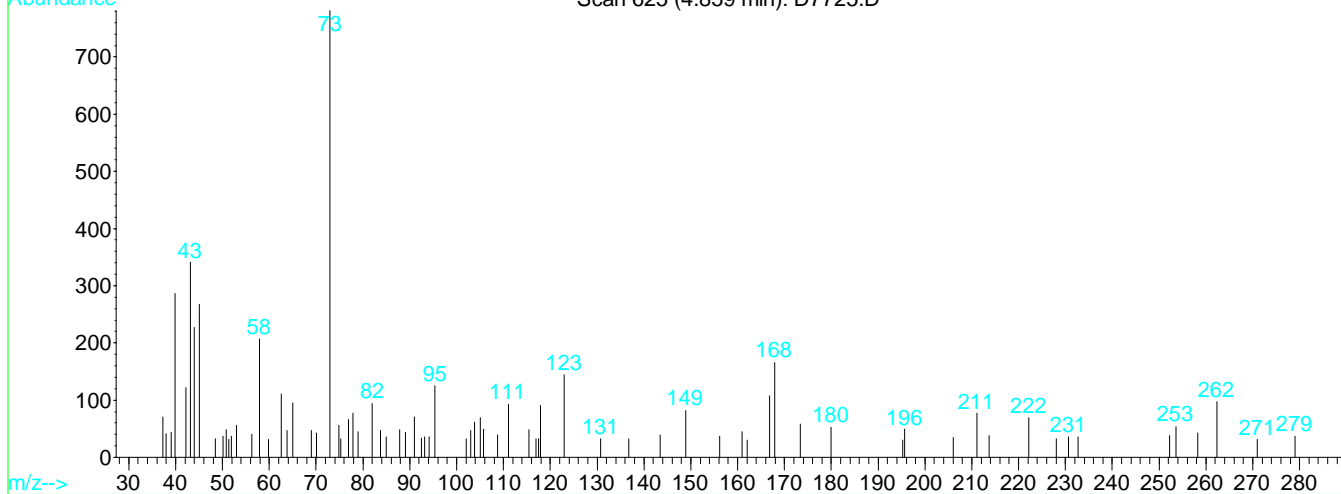
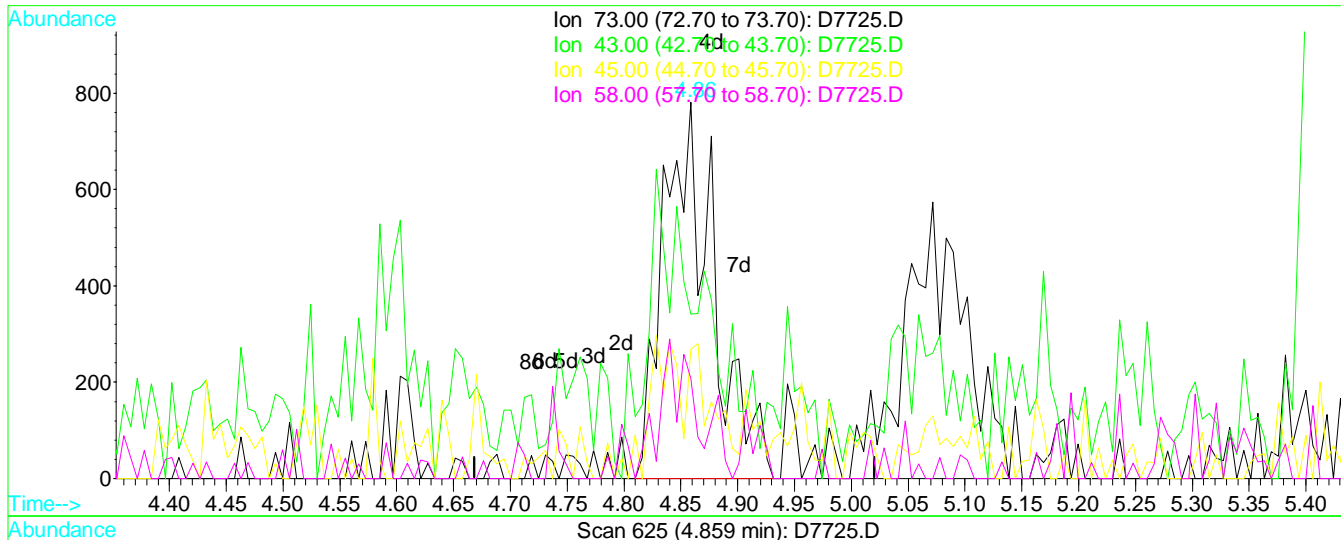


TIC: D7725.D

(44) 1,2-Dichloroethane (P)	Manual Integration:
4.58min 1.23ug/L	Before
response 1168	
Ion Exp% Act%	08/25/17
64.00 100 100	
62.00 291.40 278.00	
49.00 77.00 78.48	
51.00 29.80 109.39#	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:16 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Multiple Level Calibration

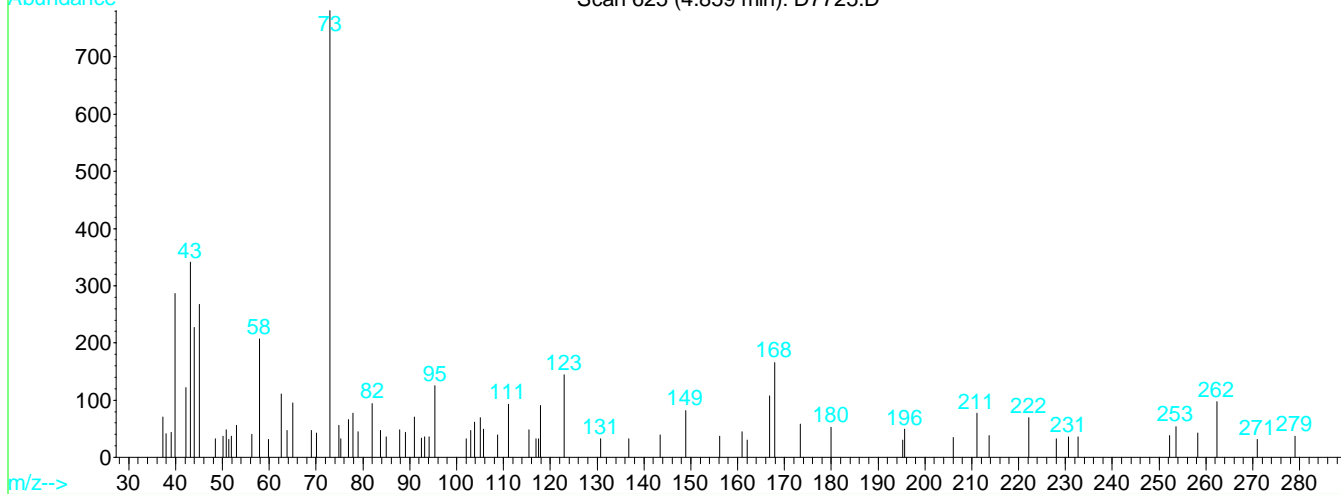
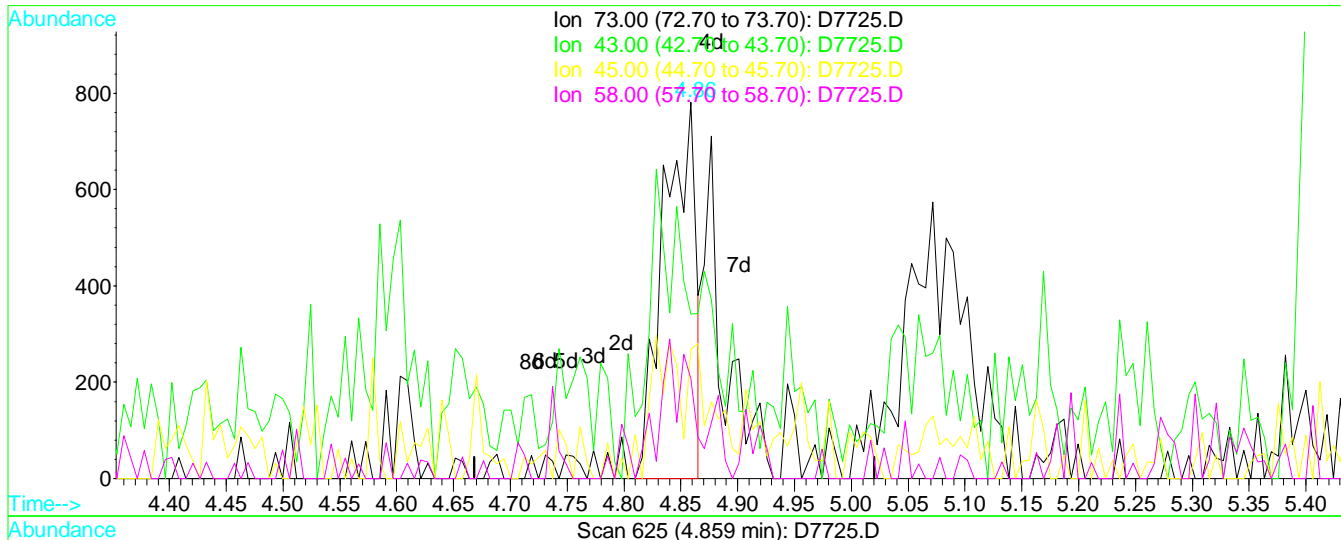


TIC: D7725.D

Retention Time (min)	Response	Exp%	Act%	Integration Status
(45) 2-Methyl-1,3-Dioxolane	2376			Manual Integration:
4.86min	10.37ug/L			After
				Split Peak.
				08/25/17
Ion	Exp%	Act%		
73.00	100	100		
43.00	45.30	43.66		
45.00	44.60	34.31		
58.00	21.20	26.50		

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:16 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(45) 2-Methyl-1,3-Dioxolane

Manual Integration:

4.86min 6.64ug/L

Before

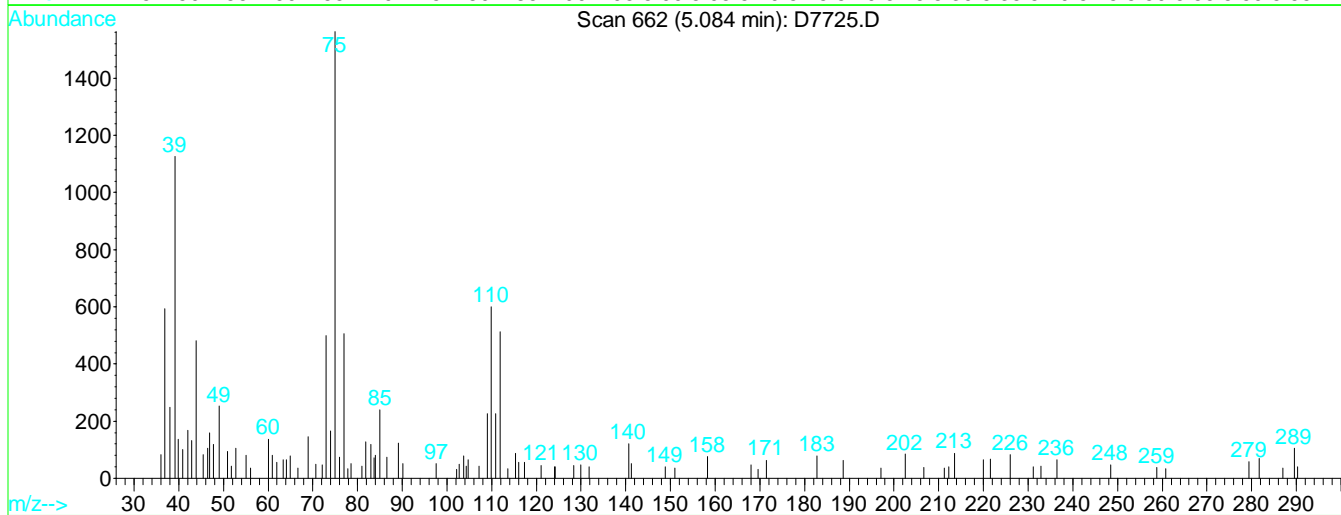
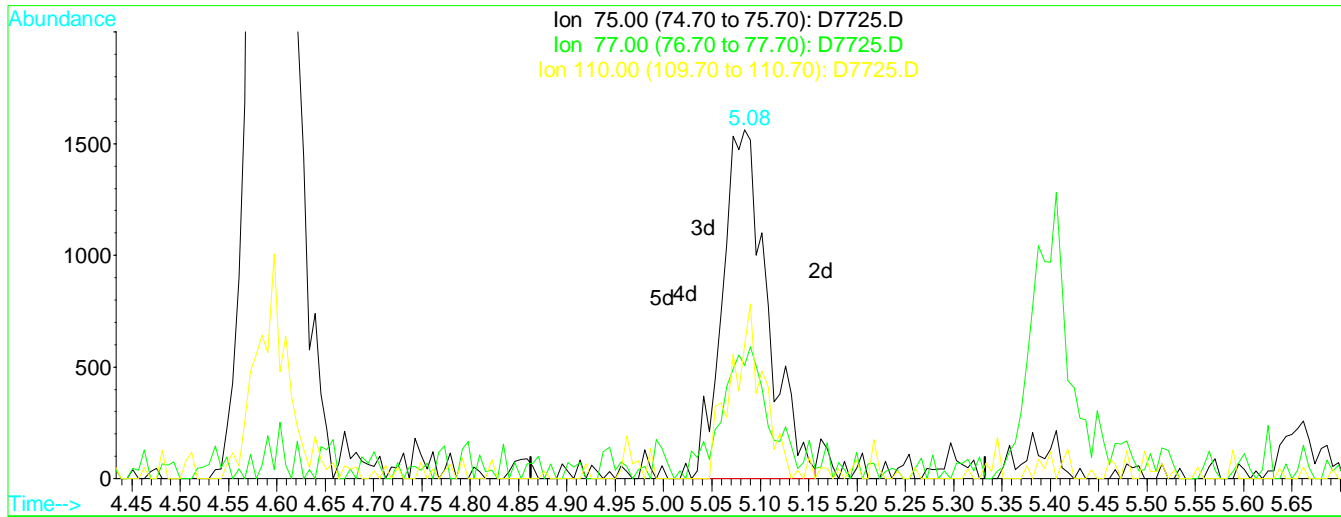
response 1522

08/25/17

Ion	Exp%	Act%
73.00	100	100
43.00	45.30	43.66
45.00	44.60	34.31
58.00	21.20	26.50

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:16 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Multiple Level Calibration



TIC: D7725.D

(46) 1,1-Dichloropropene

Manual Integration:

5.08min 2.01ug/L m

After

response 5037

Split Peak.

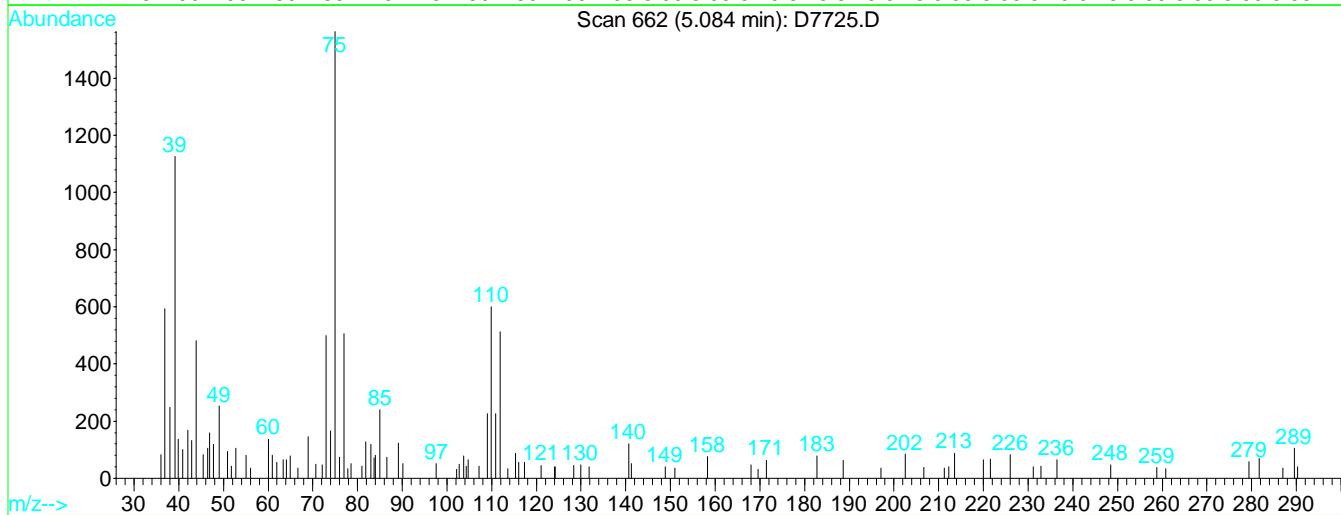
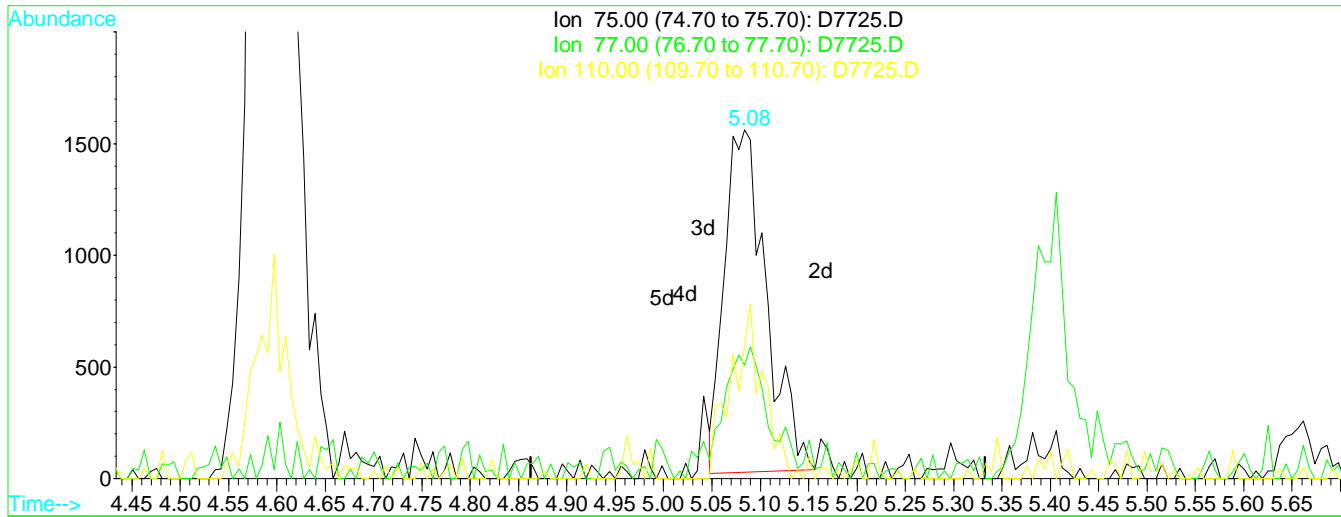
08/25/17

Ion	Exp%	Act%
75.00	100	100
77.00	30.30	32.44
110.00	38.70	38.39
0.00	0.00	0.00



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:16 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration

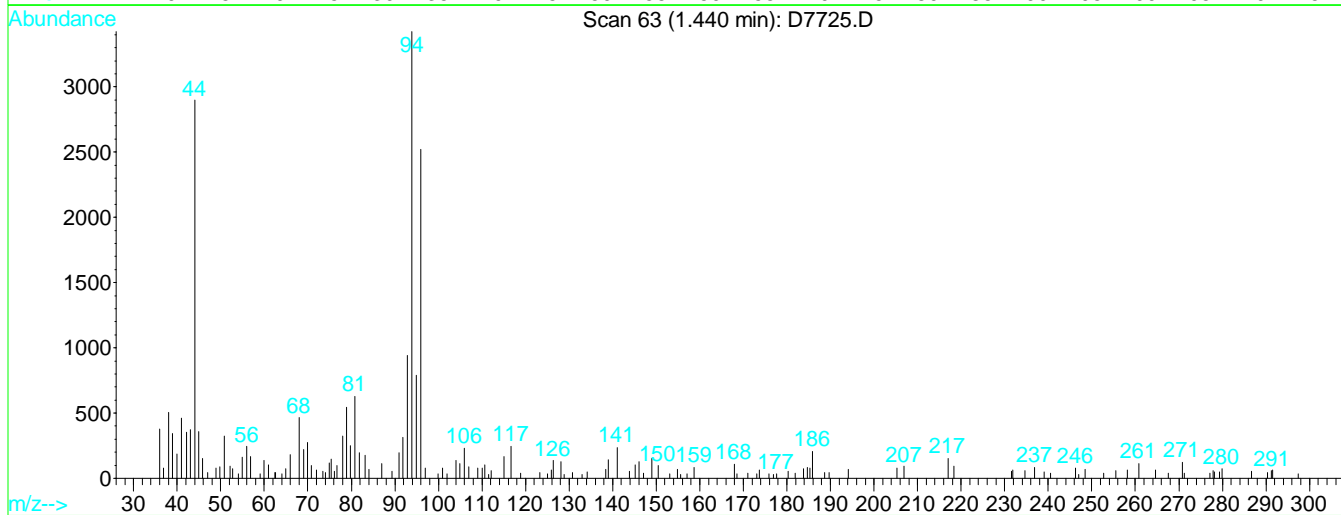
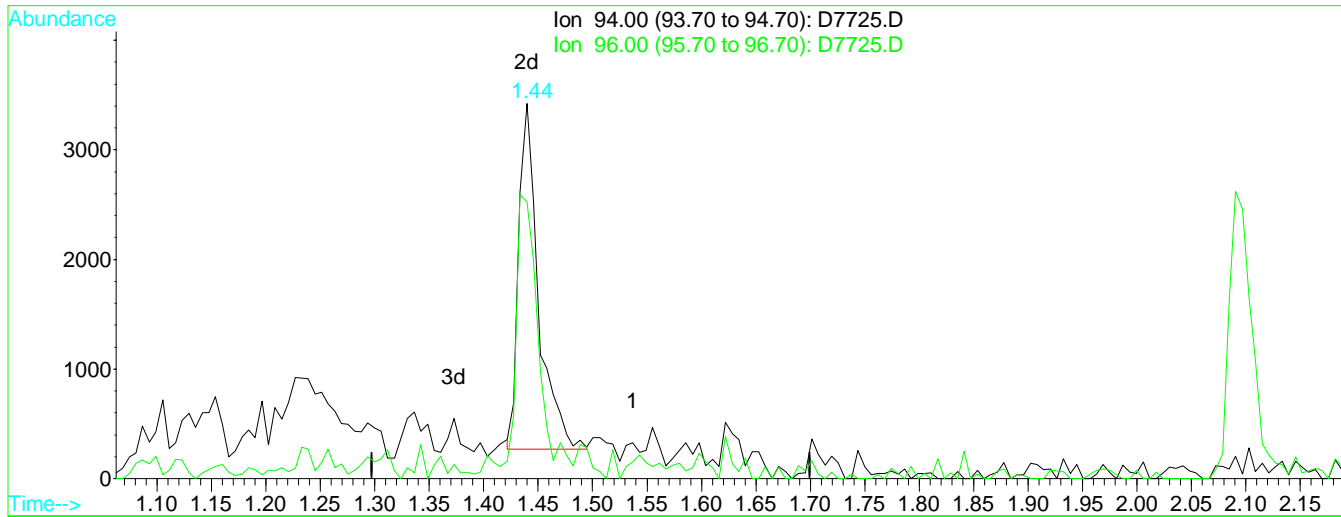


TIC: D7725.D

(46) 1,1-Dichloropropene			Manual Integration:
5.08min	1.84ug/L		Before
response	4606		
Ion	Exp%	Act%	08/25/17
75.00	100	100	
77.00	30.30	32.44	
110.00	38.70	38.39	
0.00	0.00	0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:07 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(5) Bromomethane (P)

Manual Integration:

1.44min 2.03ug/L m

After

response 3967

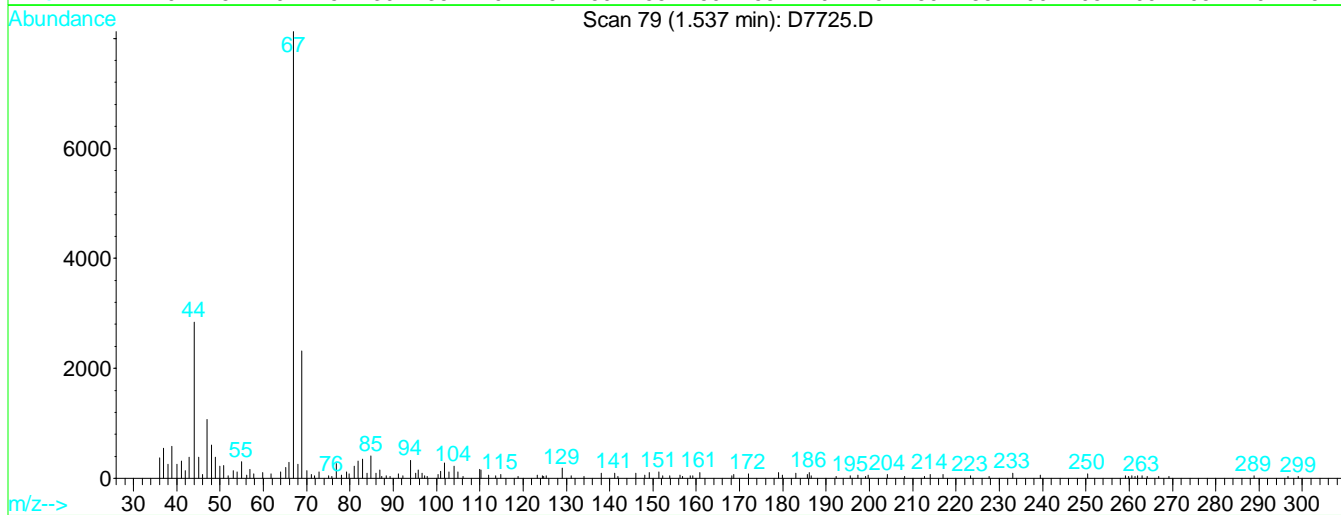
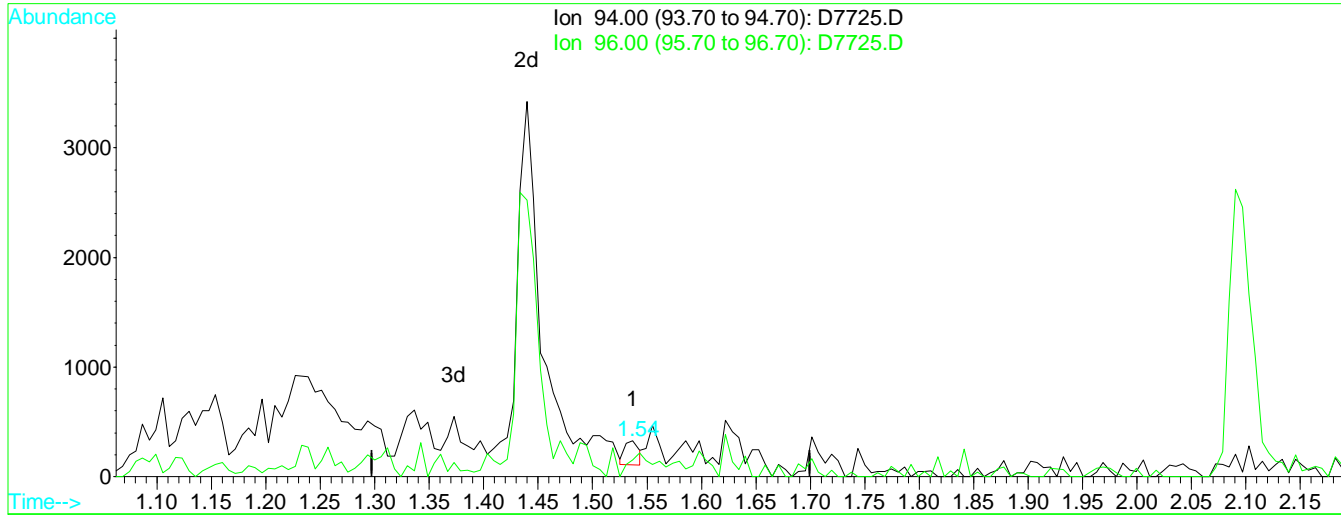
Peak not found.

Ion	Exp%	Act%
94.00	100	100
96.00	93.70	73.68#
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:06 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Multiple Level Calibration



TIC: D7725.D

(5) Bromomethane (P)

Manual Integration:

1.54min 0.10ug/L

Before

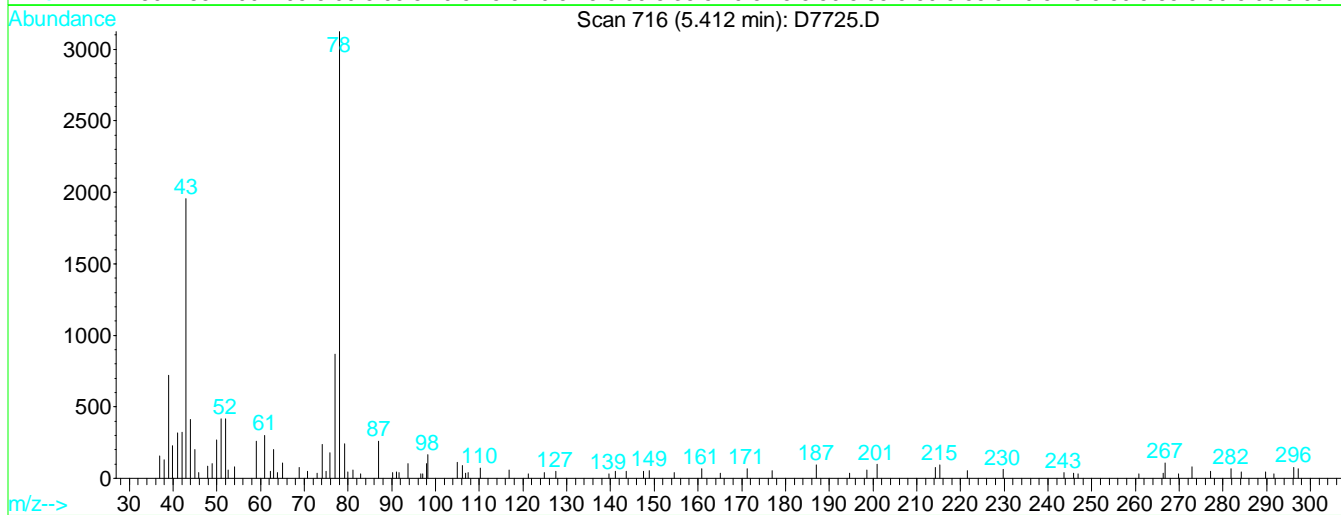
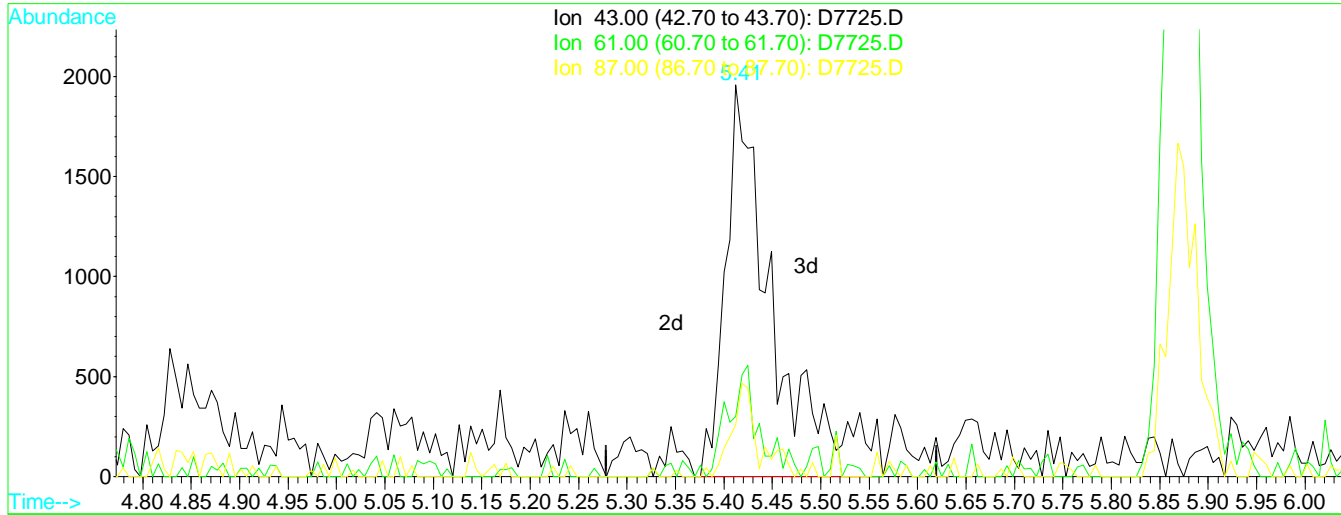
response 196

08/25/17

Ion	Exp%	Act%
94.00	100	100
96.00	93.70	73.70
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:17 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Single Level Calibration



TIC: D7725.D

(50) Isopropyl Acetate

Manual Integration:

5.41min 2.04ug/L m

After

response 6737

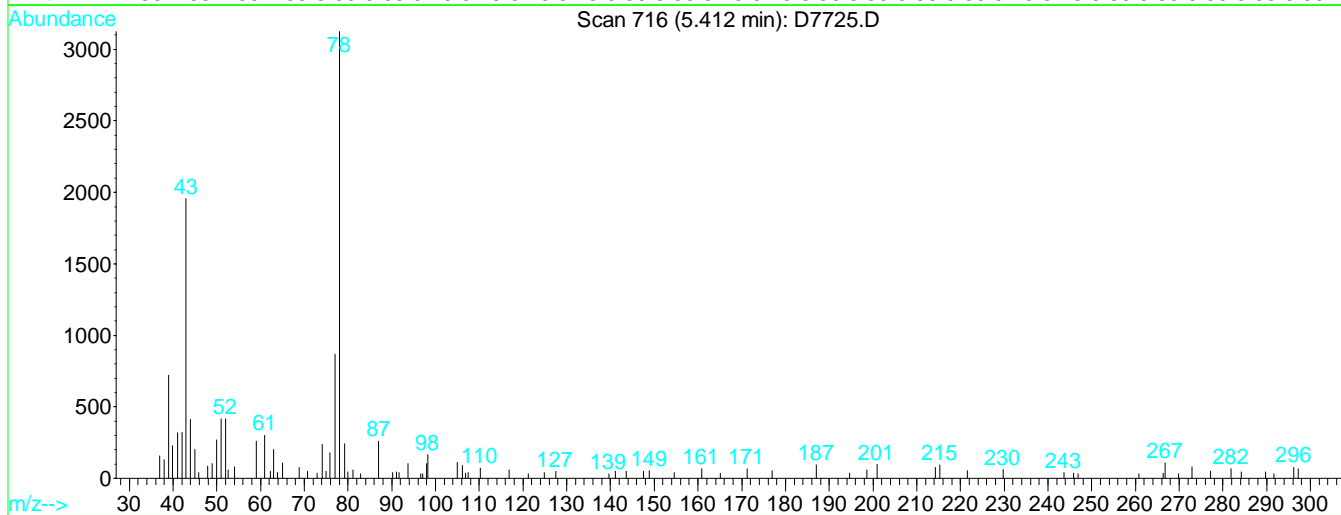
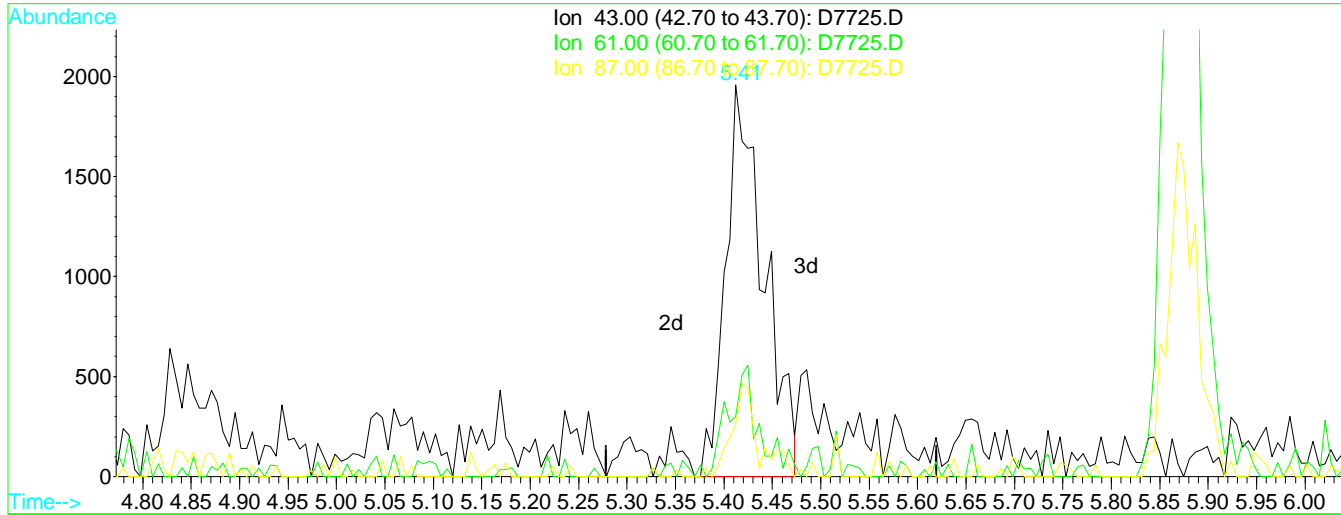
Split Peak.

08/25/17

Ion	Exp%	Act%
43.00	100	100
61.00	19.40	15.38
87.00	12.70	13.29
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:16 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Single Level Calibration



TIC: D7725.D

(50) Isopropyl Acetate

Manual Integration:

5.41min 1.62ug/L

Before

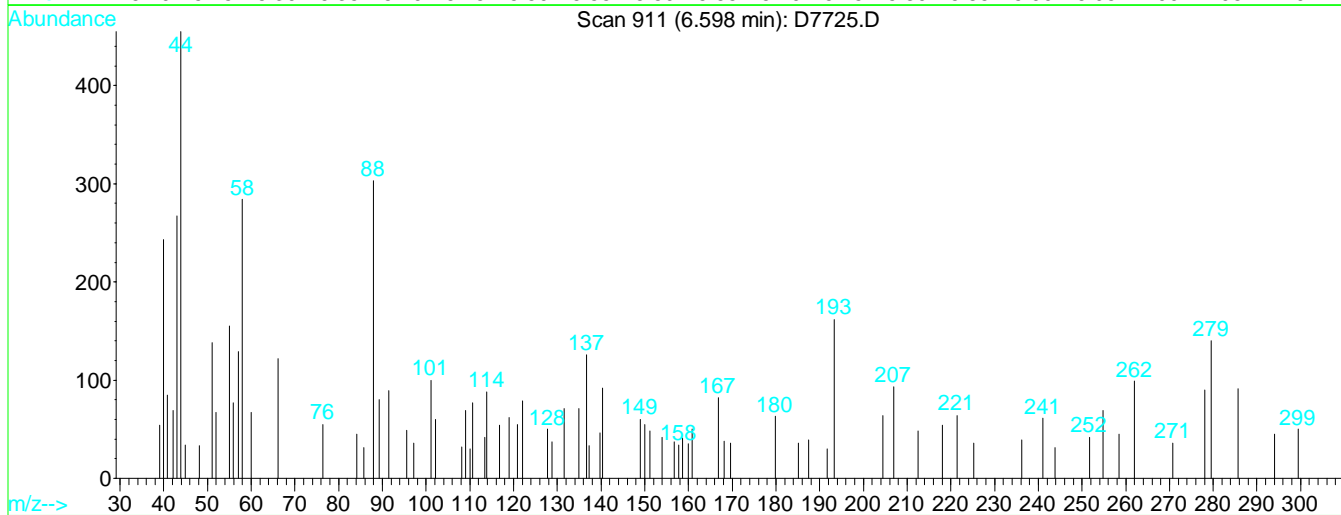
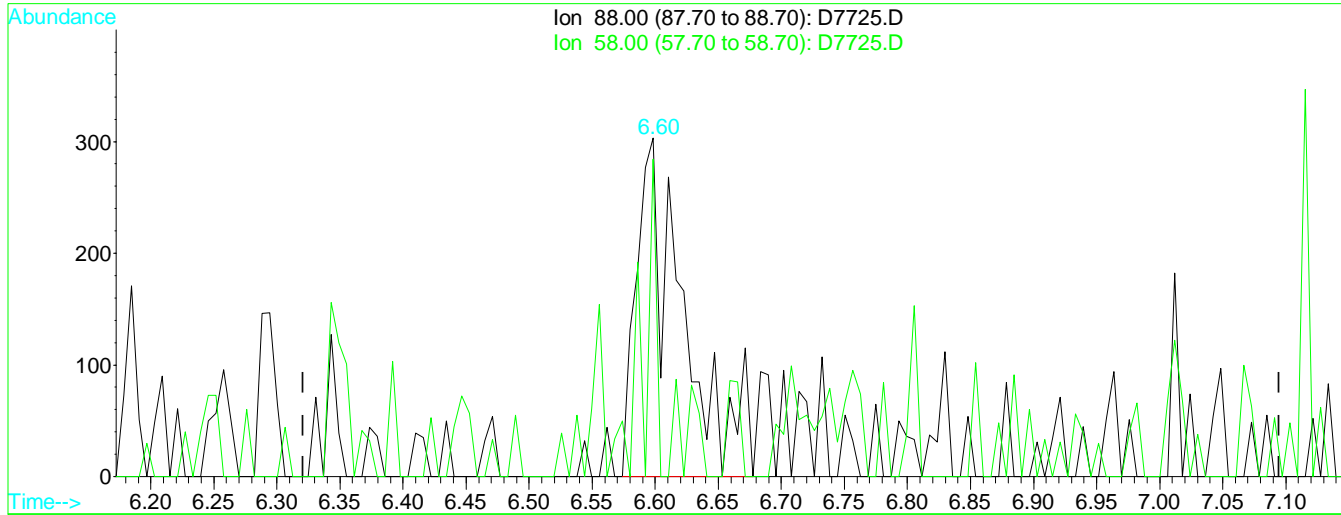
response 5341

Ion	Exp%	Act%
43.00	100	100
61.00	19.40	15.38
87.00	12.70	13.29
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:18 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Single Level Calibration



TIC: D7725.D

(56) 1,4-Dioxane

6.60min 45.00ug/L m

response 779

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	93.73#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

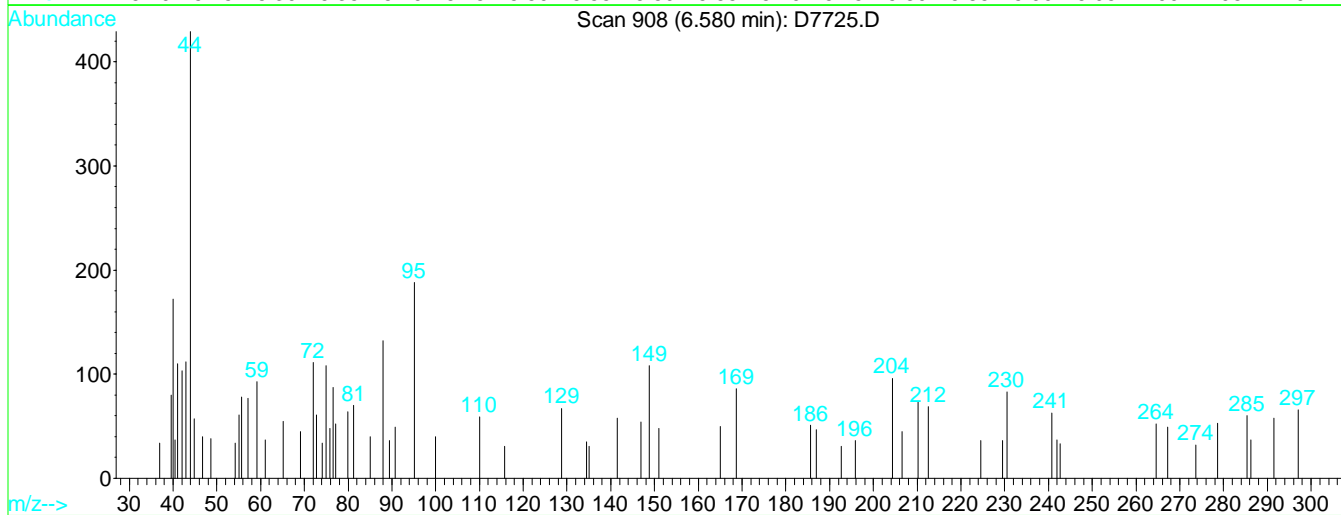
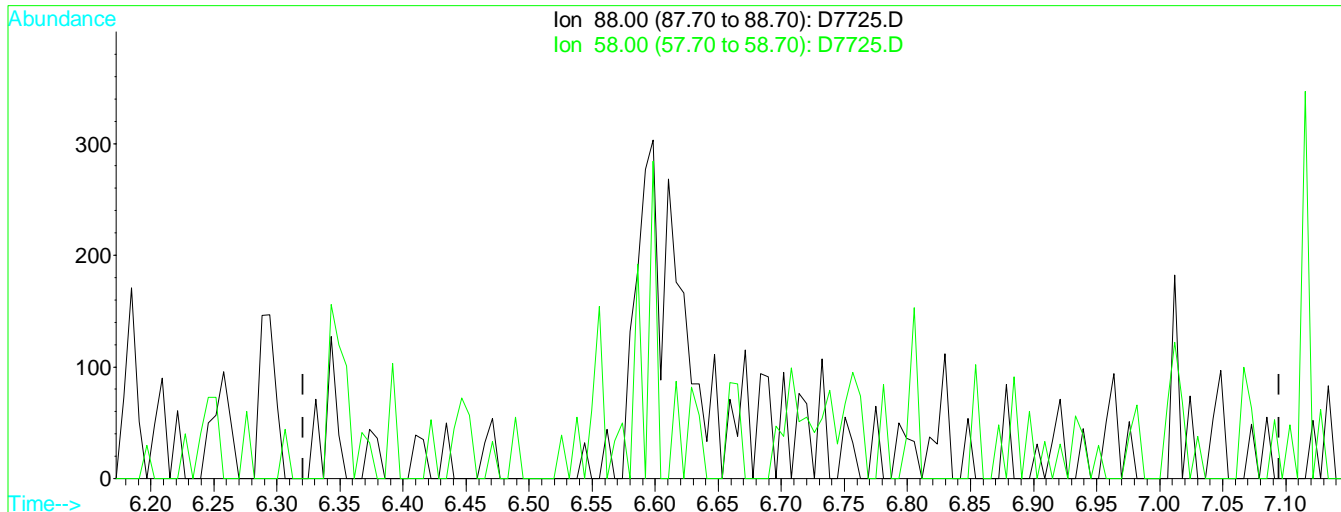
After

Peak not found.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:17 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Single Level Calibration



TIC: D7725.D

(56) 1,4-Dioxane

Manual Integration:

6.58min 0.00ug/L

Before

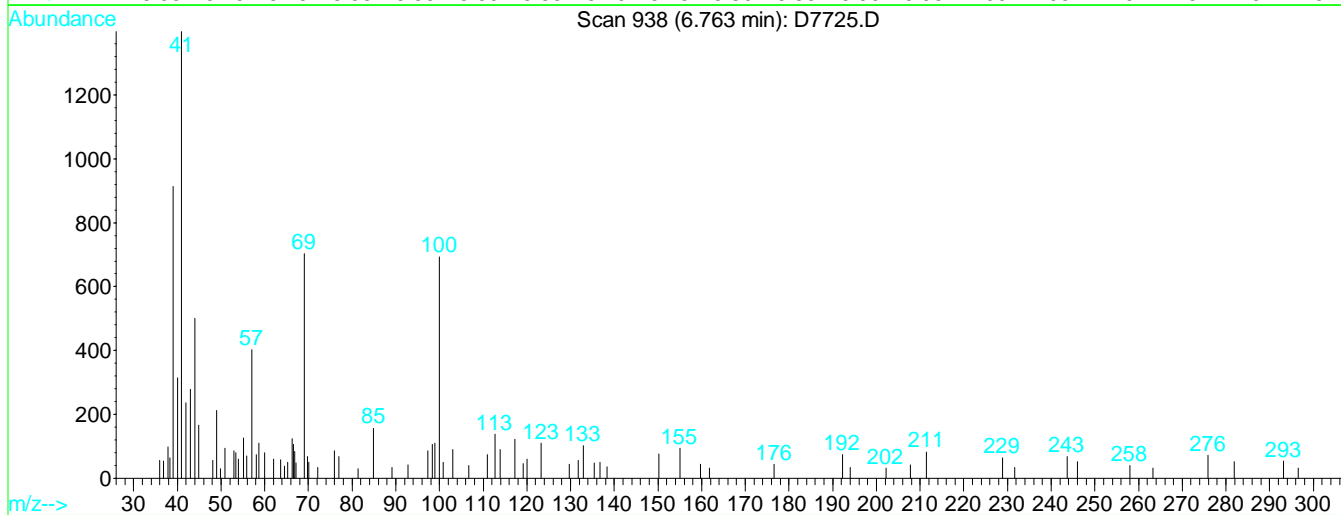
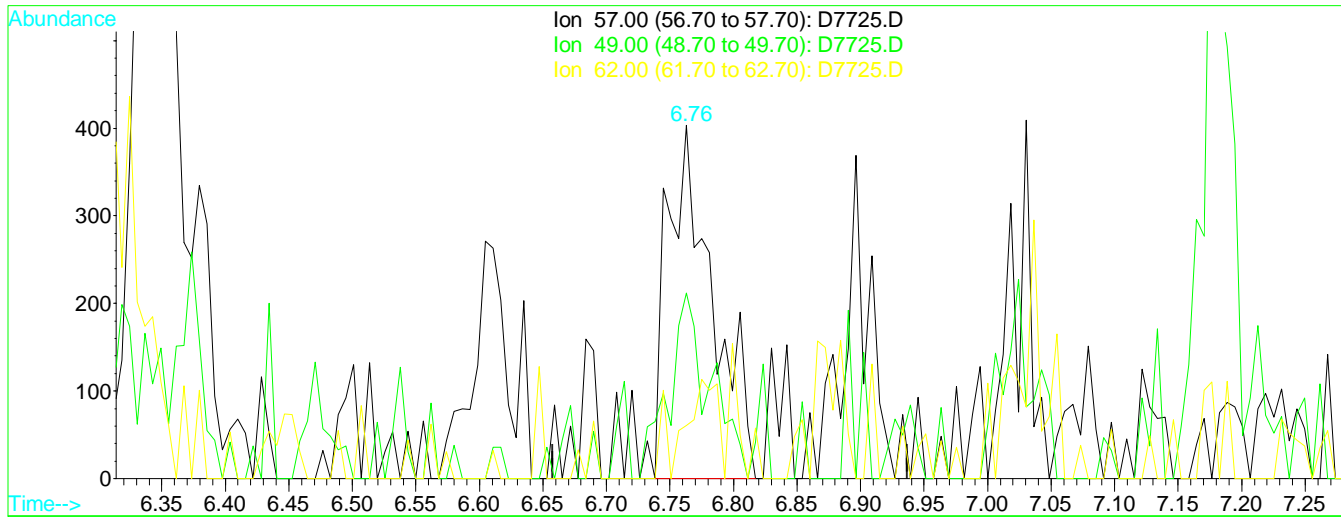
response 0

08/25/17

Ion	Exp%	Act%
88.00	100	0.00
58.00	49.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:18 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(57) Epichlorohydrin

Manual Integration:

6.76min 7.14ug/L m

After

response 996

Split Peak.

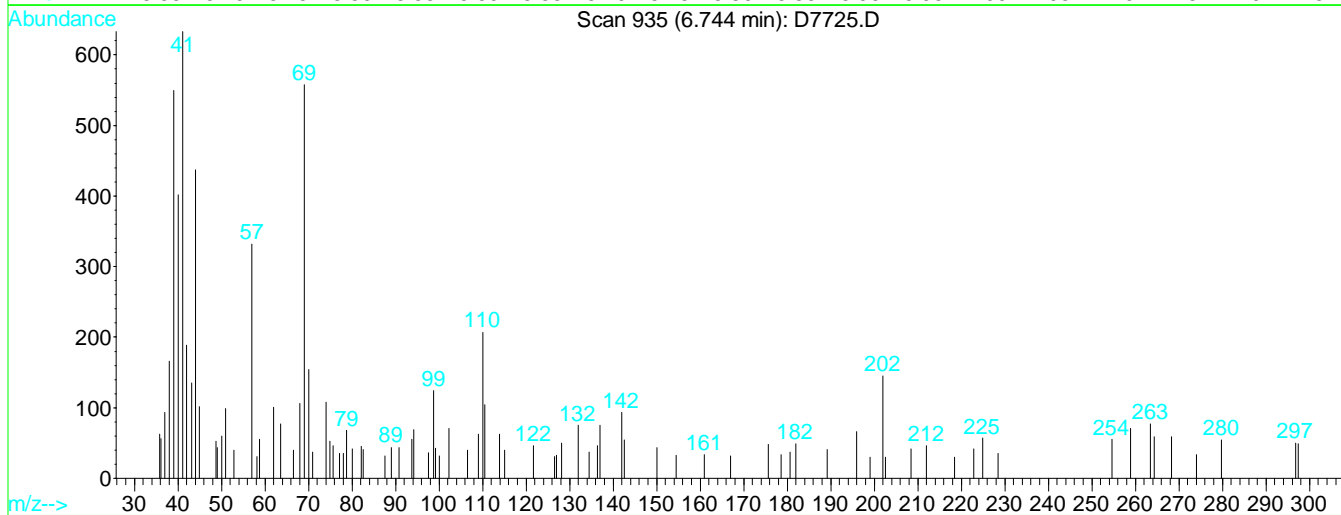
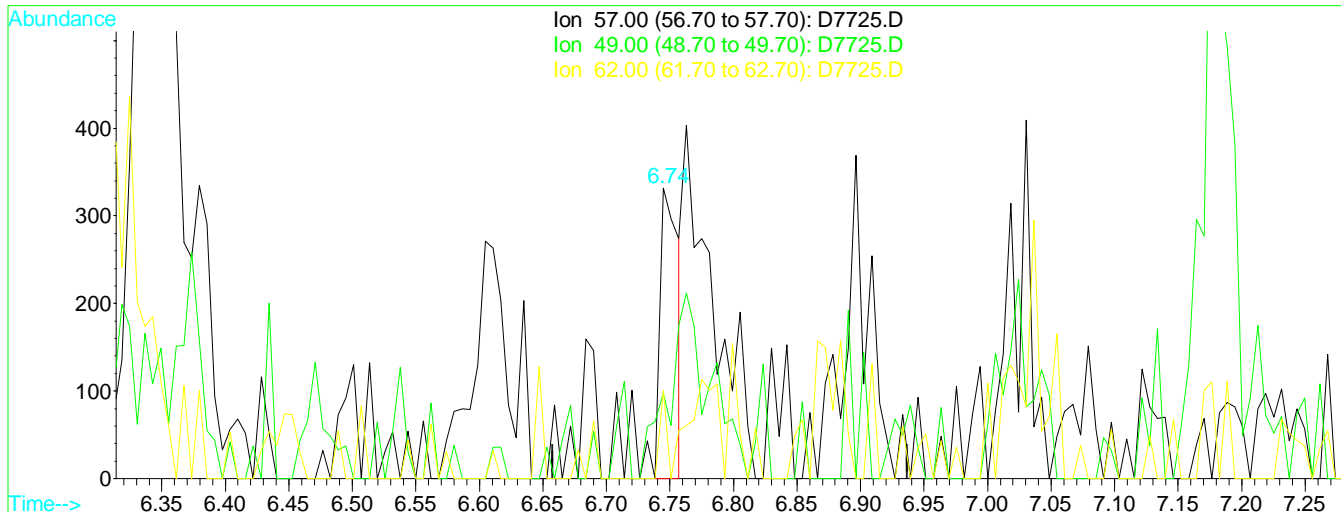
Ion	Exp%	Act%
57.00	100	100
49.00	34.00	52.61
62.00	23.60	15.14
0.00	0.00	0.00

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:18 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(57) Epichlorohydrin

Manual Integration:

6.74min 2.36ug/L

Before

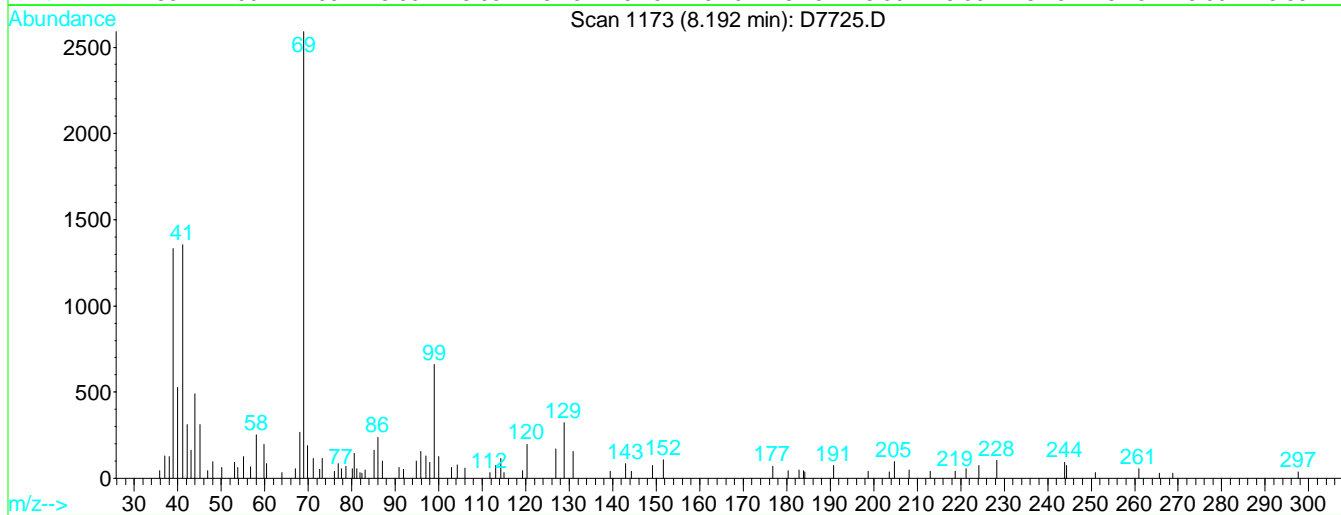
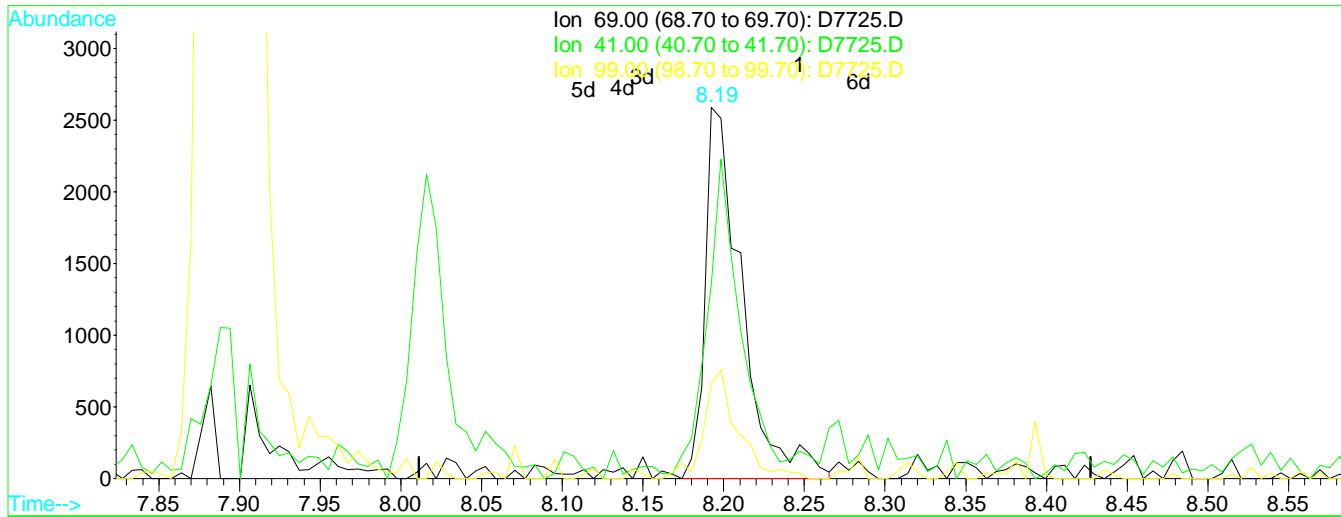
response 330

08/25/17

Ion	Exp%	Act%
57.00	100	100
49.00	34.00	29.22
62.00	23.60	30.42
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:19 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(69) Ethyl Methacrylate

Manual Integration:

8.19min 1.80ug/L m

After

response 4100

Split Peak.

Ion Exp% Act%

08/25/17

69.00 100 100

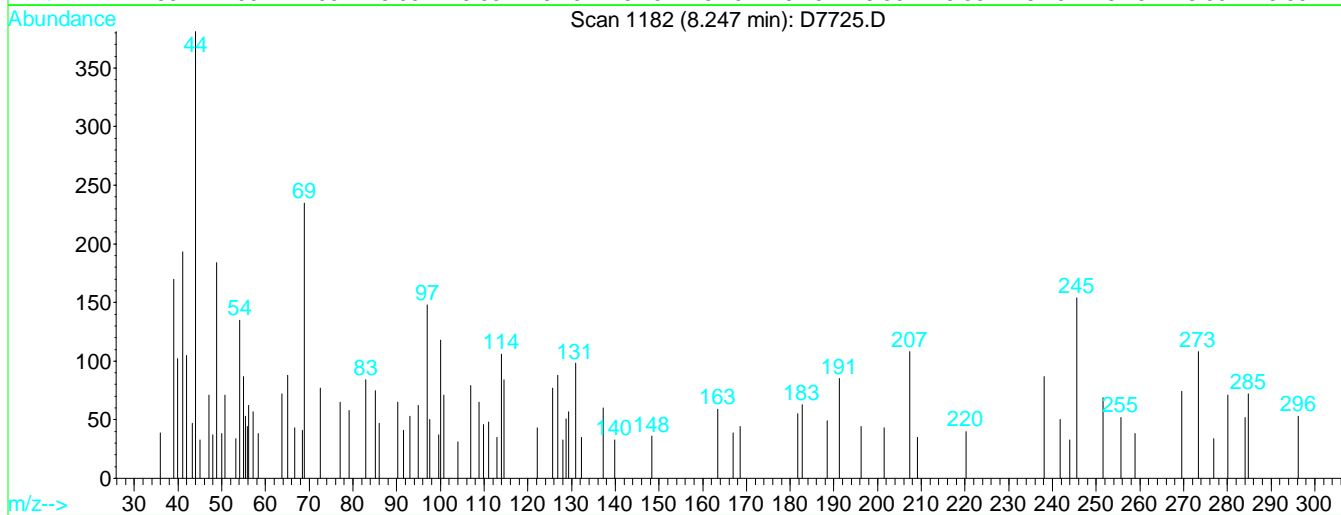
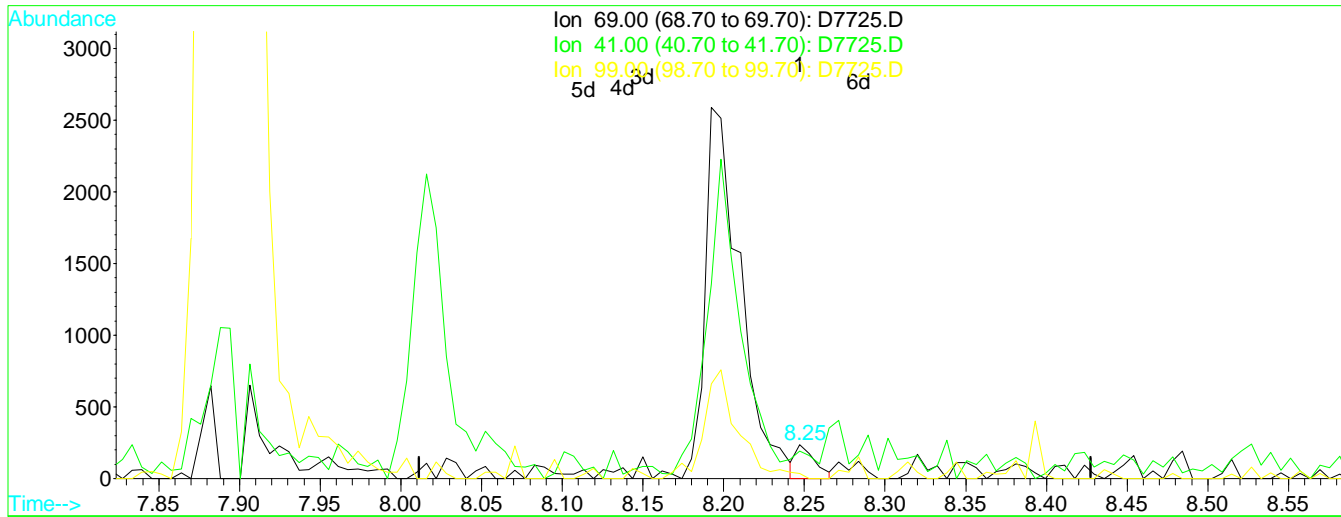
41.00 76.30 52.34#

99.00 24.30 25.47

0.00 0.00 0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:18 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(69) Ethyl Methacrylate

Manual Integration:

8.25min 0.09ug/L

Before

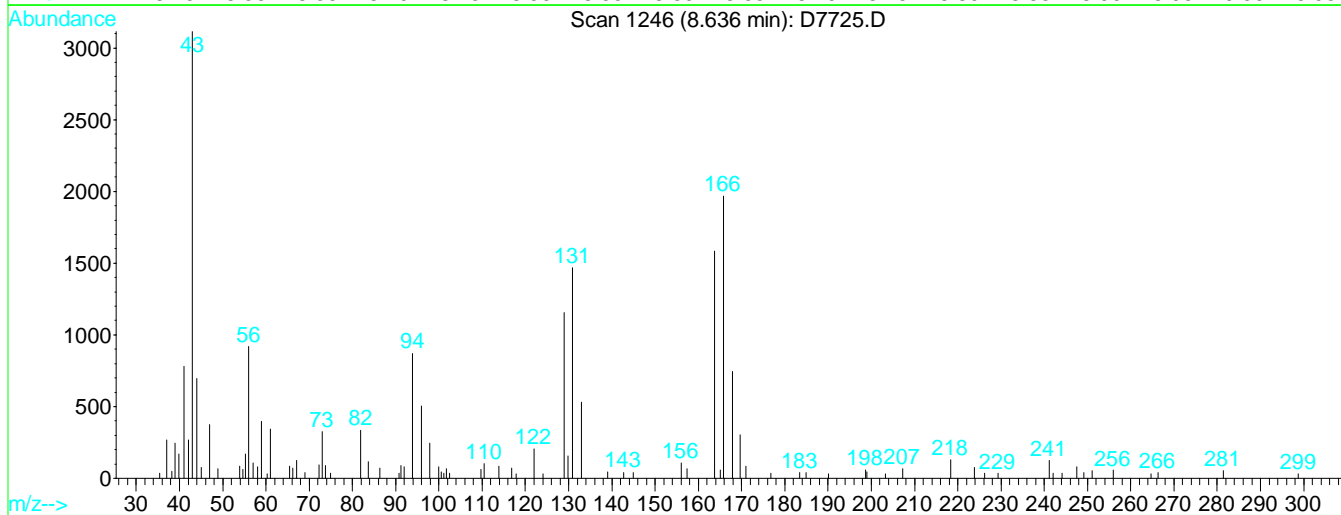
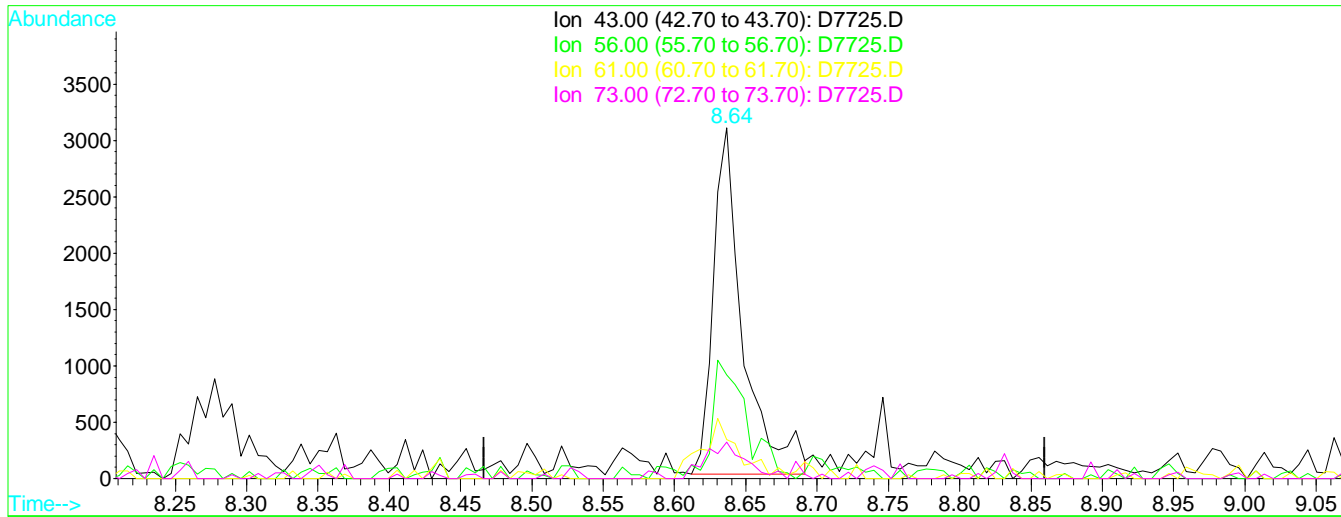
response 195

Ion	Exp%	Act%
69.00	100	100
41.00	76.30	82.13
99.00	24.30	15.74
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:20 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Multiple Level Calibration



TIC: D7725.D

(73) n-Butyl Acetate

Manual Integration:

8.64min 1.72ug/L m

After

response 4451

Split Peak.

Ion Exp% Act%

08/25/17

43.00 100 100

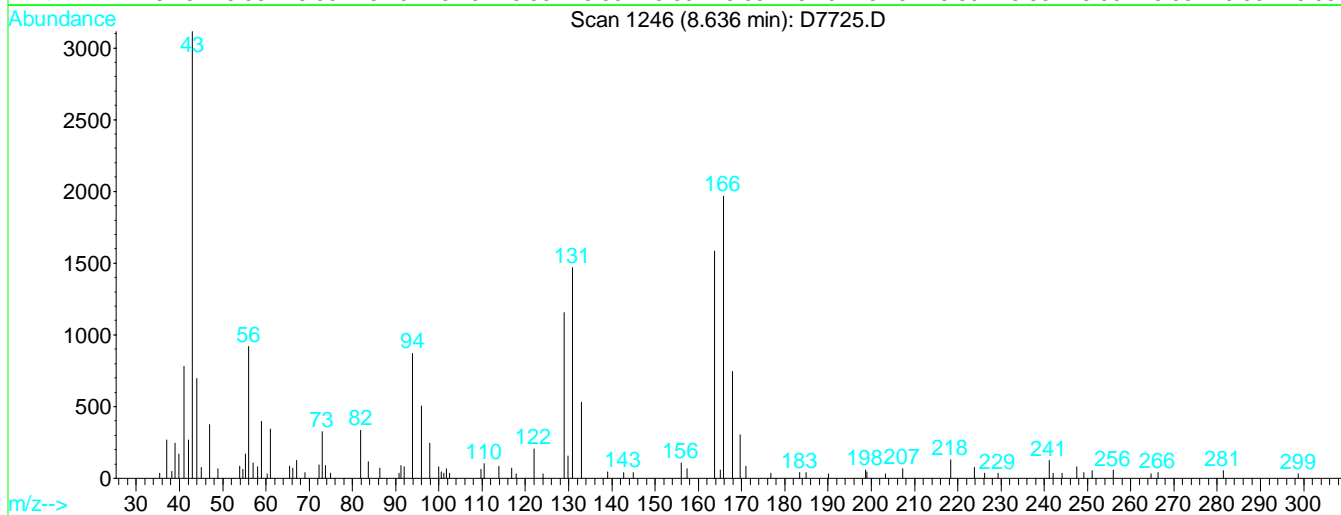
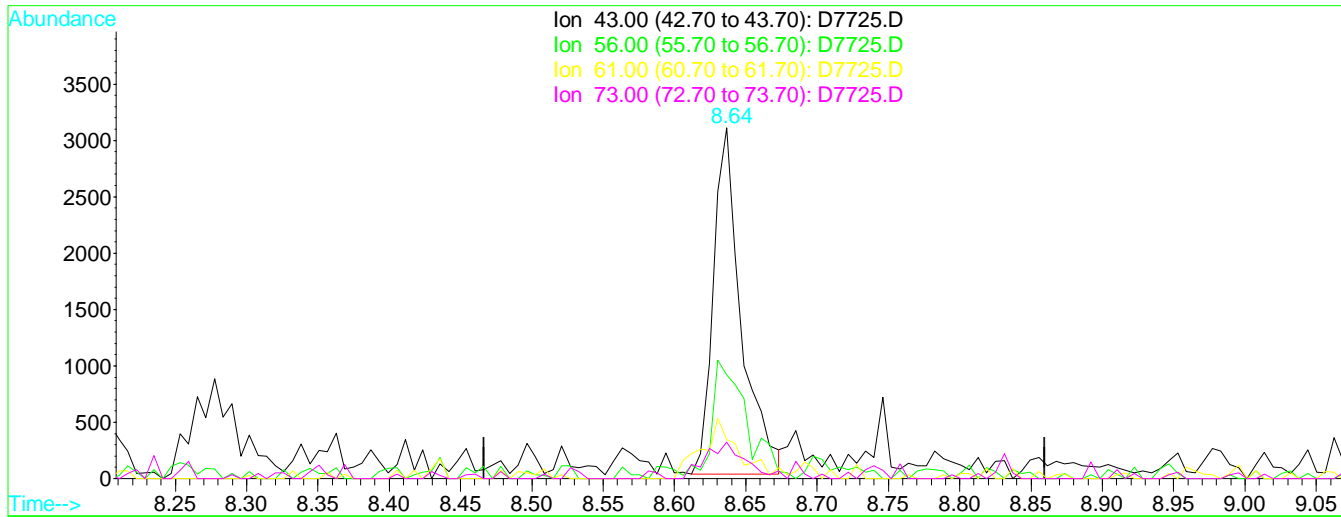
56.00 38.90 28.44

61.00 21.20 0.00#

73.00 15.20 0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:19 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Multiple Level Calibration



TIC: D7725.D

(73) n-Butyl Acetate

Manual Integration:

8.64min 1.61ug/L

Before

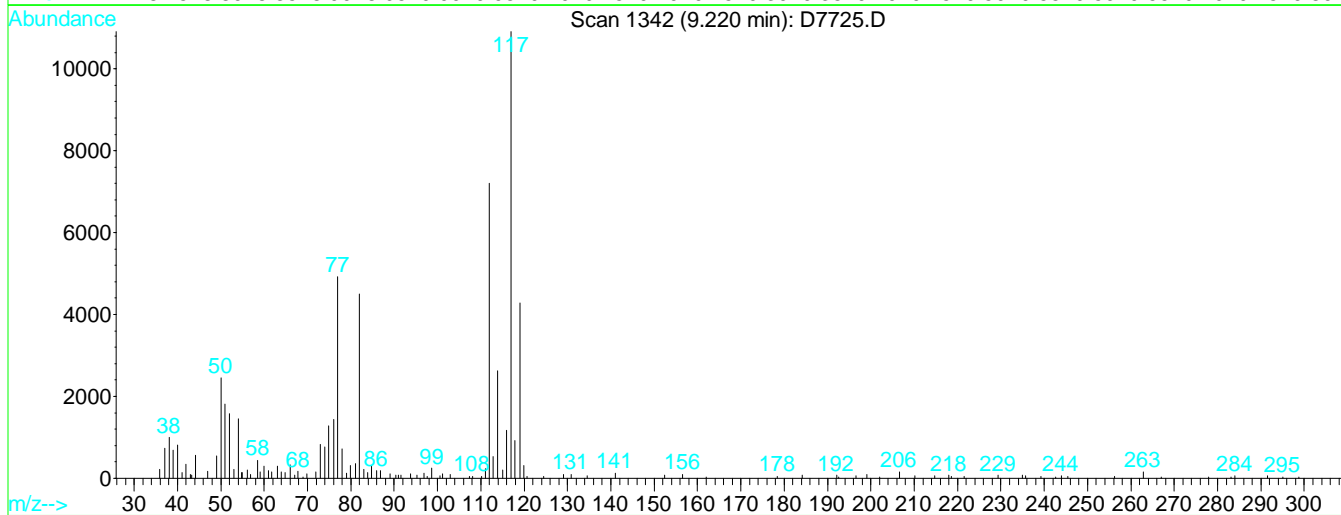
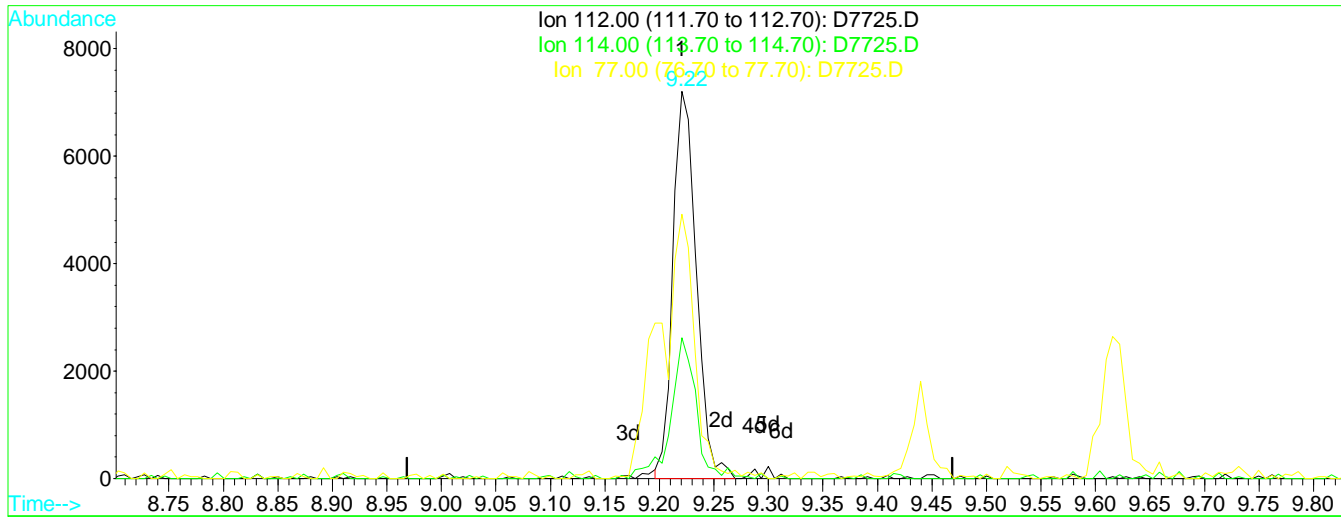
response 4170

08/25/17

Ion	Exp%	Act%
43.00	100	100
56.00	38.90	30.36
61.00	21.20	0.00#
73.00	15.20	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:21 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(76) Chlorobenzene (P)

Manual Integration:

9.22min 2.02ug/L m

After

response 10700

Poor integration.

Ion Exp% Act%

08/25/17

112.00 100 100

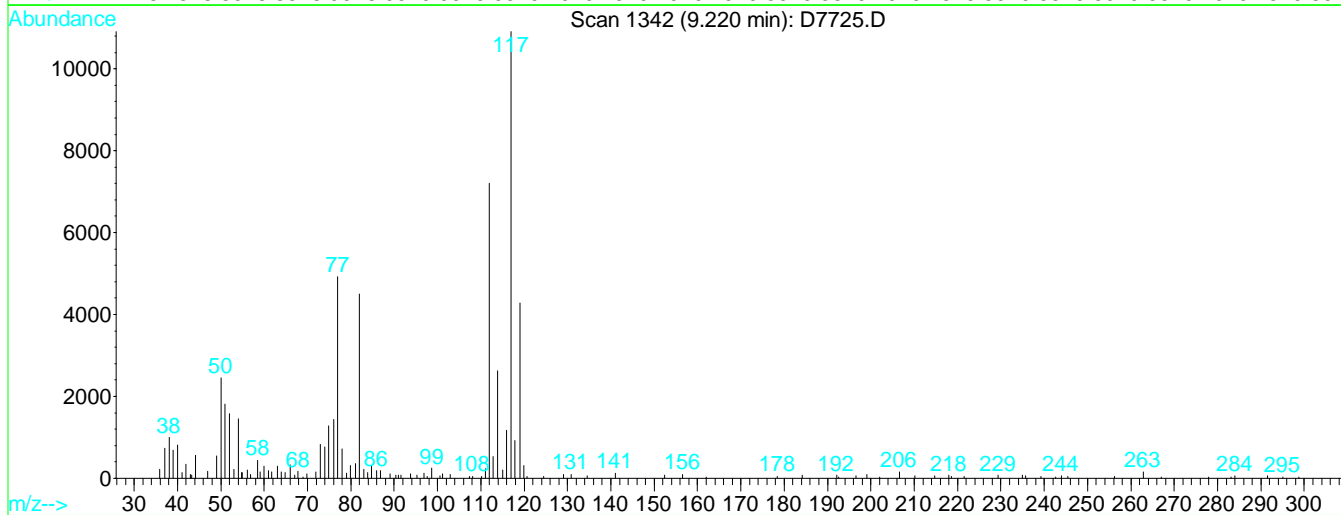
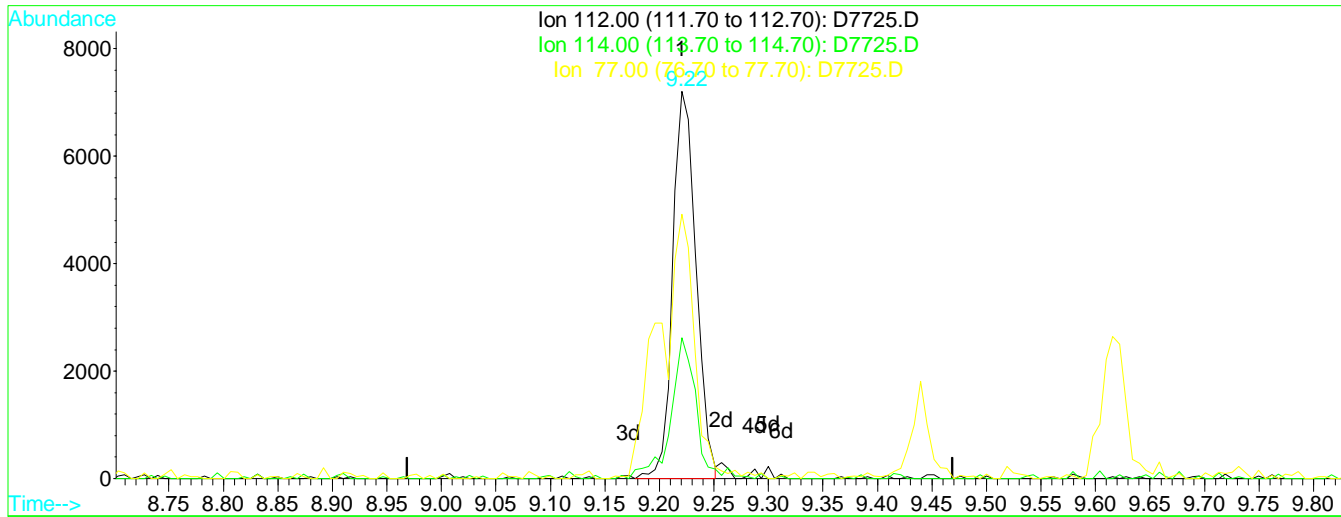
114.00 34.20 33.65

77.00 56.20 56.90

0.00 0.00 0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:20 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Multiple Level Calibration



TIC: D7725.D

(76) Chlorobenzene (P)

Manual Integration:

9.22min 2.01ug/L

Before

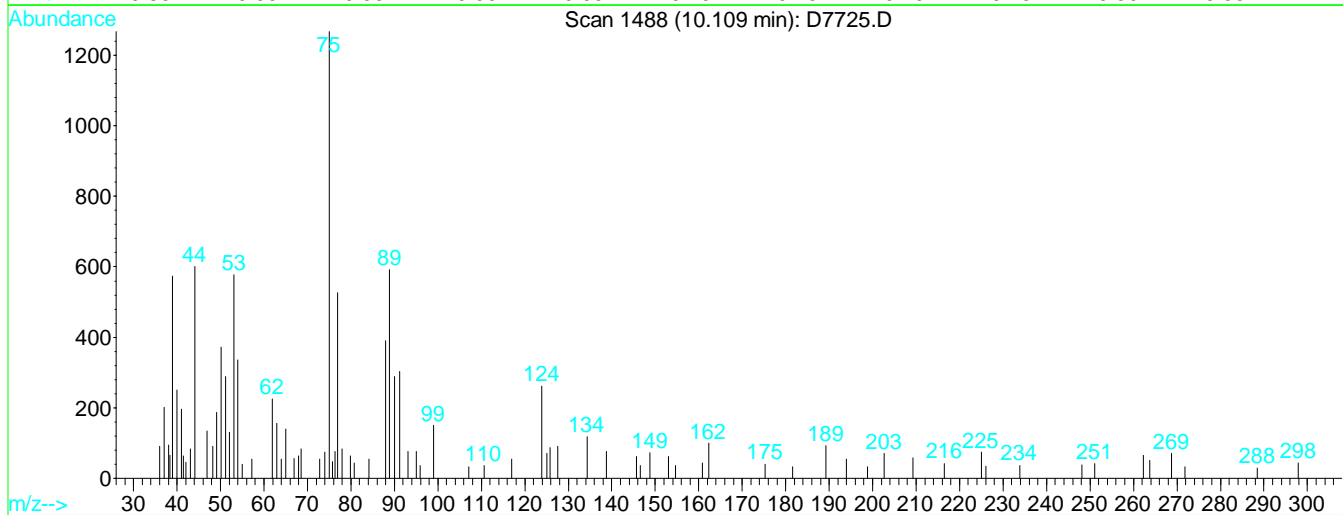
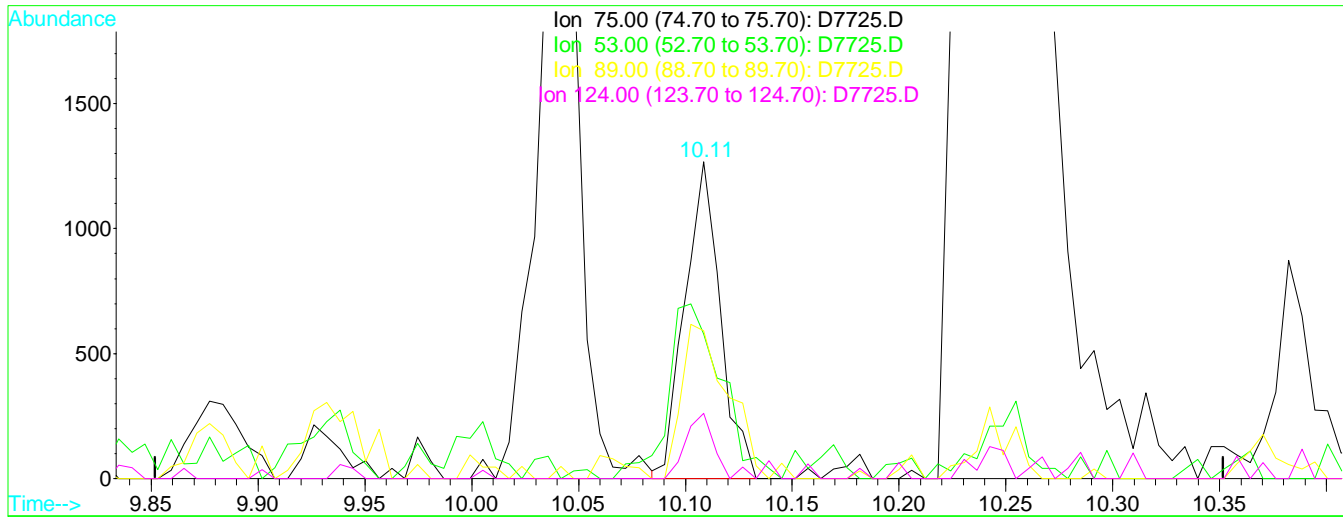
response 10647

08/25/17

Ion	Exp%	Act%
112.00	100	100
114.00	34.20	33.82
77.00	56.20	57.18
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:21 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Multiple Level Calibration



TIC: D7725.D

(84) trans-1,4-Dichloro-2-Butene

Manual Integration:

10.11min 1.86ug/L m

After

response 1456

Peak not found.

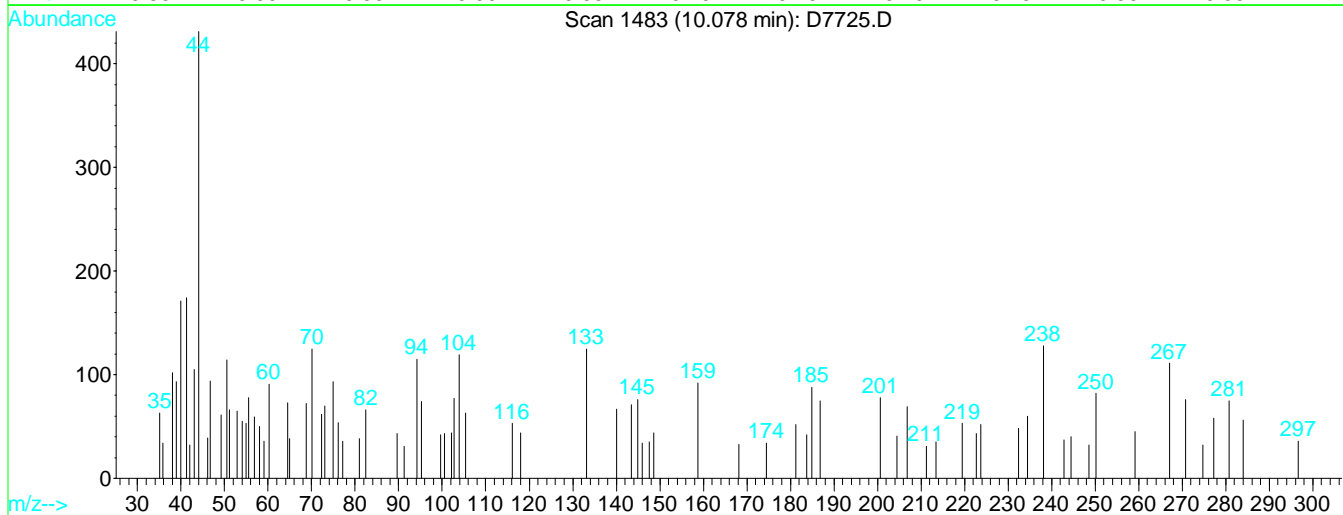
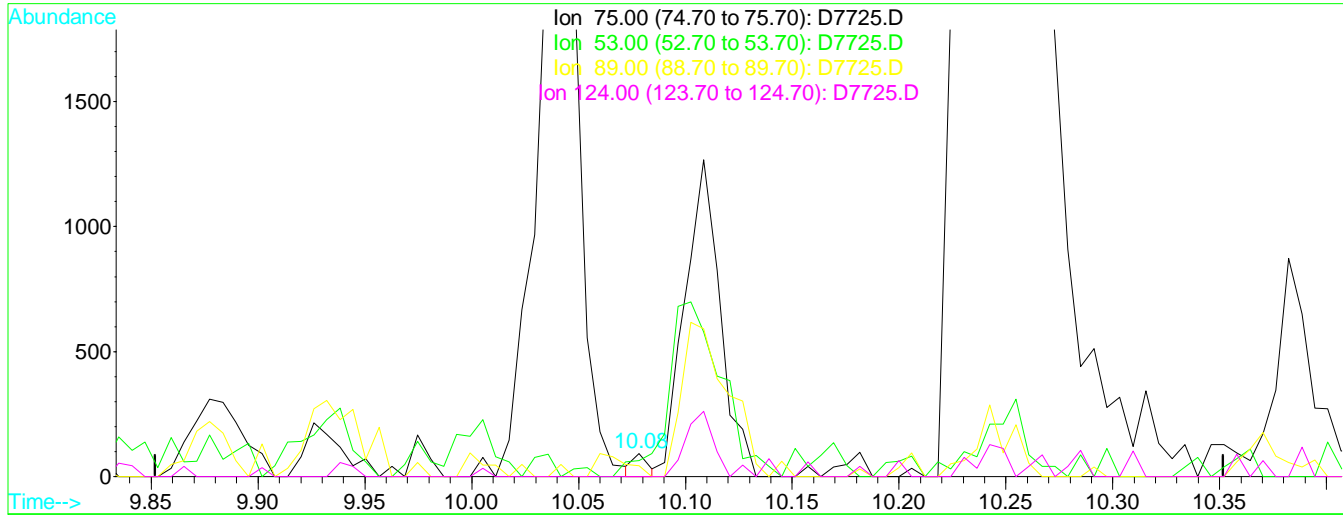
Ion	Exp%	Act%
75.00	100	100
53.00	82.70	45.62#
89.00	54.40	46.72
124.00	18.70	20.68

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
Sample : STD #3 - 2.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:21 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Multiple Level Calibration



TIC: D7725.D

(84) trans-1,4-Dichloro-2-Butene

Manual Integration:

10.08min 0.06ug/L

Before

response 45

Ion	Exp%	Act%
75.00	100	100
53.00	82.70	69.89
89.00	54.40	46.24
124.00	18.70	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:22 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	265836	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	345578	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	167666	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	179011	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	150543	60.74	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	121.48%#
43) surr1,1,2-dichloroethane-d	4.47	65	166883	62.16	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	124.32%
65) SURRE3,Toluene-d8	7.89	98	446717	63.83	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	127.66%#
86) SURRE2,BFB	10.25	95	179452	57.14	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	114.28%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.11	85	8888	2.24	ug/L	94
3) Chloromethane	1.18	50	5784	2.20	ug/L	94
4) Vinyl Chloride	1.26	62	7056m	2.16	ug/L	
5) Bromomethane	1.44	94	3967m	2.03	ug/L	
6) Chloroethane	1.51	64	3639	2.29	ug/L	97
7) Freon 21	1.53	67	10801	2.24	ug/L	97
8) Freon 123	1.71	83	6306	2.10	ug/L	91
9) Freon 123a	1.73	67	4944	2.06	ug/L	88
10) Acrolein	1.79	56	1949	9.27	ug/L	88
11) Trichlorofluoromethane	1.79	101	8407	2.32	ug/L	89
12) Acetonitrile	1.80	41	1234m	8.51	ug/L	
13) 2-Propanol	1.84	45	3717	37.36	ug/L	97
14) Acetone	1.86	43	1065	2.08	ug/L	94
15) Diethyl Ether	1.93	59	2669	2.10	ug/L #	71
16) 1,1-Dicethene	2.09	96	3864	2.11	ug/L #	84
17) Iodomethane	2.11	142	5227	1.76	ug/L	90
18) TBA	2.13	59	6326m	36.81	ug/L	
19) Acrylonitrile	2.15	53	5341	9.69	ug/L	90
20) Methylene Chloride	2.20	84	3385m	1.74	ug/L	
21) Freon 113	2.24	101	4463	2.13	ug/L	87
22) Methyl Acetate	2.26	43	3021	1.84	ug/L	85
23) Allyl Chloride	2.25	76	1395	1.85	ug/L #	73
24) Carbon Disulfide	2.31	76	12314	2.20	ug/L	97
25) trans-1,2-Dichloroethene	2.69	96	3670	1.88	ug/L	90
26) Methyl-t-Butyl Ether	2.81	73	10248	2.04	ug/L	89
27) 1,1-Dicethane	2.90	63	6402	2.15	ug/L	92
28) Propionitrile	2.95	54	2209	11.12	ug/L	73
29) Vinyl Acetate	3.11	43	6320m	1.79	ug/L	
30) 2-Chloro-1,3-Butadiene	3.26	53	5218m	1.99	ug/L	
31) 2-Butanone	3.40	43	1639	2.46	ug/L	77
32) Methacrylonitrile	3.46	67	1137m	1.76	ug/L	
33) cis-1,2-Dichloroethene	3.47	96	4241	2.04	ug/L	95
34) Bromochloromethane	3.64	128	2379	2.01	ug/L	85
35) Chloroform	3.72	83	7601	2.14	ug/L	83
36) 2,2-Dichloropropane	3.79	77	6977	2.16	ug/L	86
37) Ethyl Acetate	3.84	43	5055m	3.57	ug/L	
39) 1,1,1-Trichloroethane	4.73	97	6964	2.02	ug/L	89
44) 1,2-Dichloroethane	4.58	64	2194m	2.32	ug/L	
45) 2-Methyl-1,3-Dioxolane	4.86	73	2376m	10.37	ug/L	

(#) = qualifier out of range (m) = manual integration  
 D7725.D W082417.M Fri Aug 25 10:22:15 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:22 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,1-Dichloropropene	5.08	75	5037m	2.01	ug/L	
47) Cyclohexane	5.16	56	5352	2.08	ug/L	98
48) Carbontetrachloride	5.30	119	5550	1.99	ug/L	87
49) Benzene	5.39	78	14224	2.10	ug/L	90
50) Isopropyl Acetate	5.41	43	6737m	2.04	ug/L	
51) Dibromomethane	6.18	93	2806	1.96	ug/L	94
52) 1,2-Diclp propane	6.24	63	3591	2.08	ug/L	87
53) n-Heptane	6.35	43	4002	2.13	ug/L	87
54) Trichloroethene	6.32	130	4256	1.90	ug/L	90
55) Bromodichloromethane	6.37	83	5374	2.01	ug/L	94
56) 1,4-Dioxane	6.60	88	779m	45.00	ug/L	
57) Epichlorohydrin	6.76	57	996m	7.14	ug/L	
58) Methyl Methacrylate	6.76	69	2135	1.83	ug/L #	78
59) Methylcyclohexane	6.90	55	4045	1.92	ug/L	96
60) 2-Chloroethylvinyl Ether	7.04	63	2080	1.92	ug/L	88
61) cis-1,3-Dichloropropene	7.18	75	6191	2.06	ug/L	95
62) 4-Methyl-2-pentanone	7.38	43	2718	1.75	ug/L #	45
63) trans-1,3-Dichloropropene	7.66	75	5376	1.91	ug/L	98
64) 1,1,2-Trichloroethane	7.77	97	3510	2.06	ug/L	95
66) Toluene	7.96	91	16459	2.14	ug/L	97
68) 1,3-Dichloropropane	8.02	76	5163	1.84	ug/L	86
69) Ethyl Methacrylate	8.19	69	4100m	1.80	ug/L	
70) Dibromochloromethane	8.21	129	4550	1.97	ug/L	95
71) 2-Hexanone	8.28	43	1924	1.72	ug/L	93
72) 1,2-Dibromoethane	8.43	107	4043	2.00	ug/L	94
73) n-Butyl Acetate	8.64	43	4451m	1.72	ug/L	
74) Tetrachloroethene	8.62	164	4114	2.06	ug/L	93
75) 1,1,1,2-Tetrachloroethane	9.17	131	4455	2.13	ug/L	87
76) Chlorobenzene	9.22	112	10700m	2.02	ug/L	
77) Ethylbenzene	9.44	106	5350	1.92	ug/L #	82
78) Bromoform	9.62	173	2709	1.75	ug/L	92
79) (m+p)Xylene	9.62	106	13616	3.89	ug/L #	85
80) o-Xylene	9.93	106	6620	1.97	ug/L #	84
81) Cyclohexanone	9.85	55	2652	41.16	ug/L	85
82) Styrene	9.88	104	10758	2.00	ug/L	97
83) Amyl Acetate	9.99	43	5983	1.70	ug/L	89
84) trans-1,4-Dichloro-2-Buten	10.11	75	1456m	1.86	ug/L	
85) Isopropylbenzene	10.25	105	18420	2.15	ug/L	93
88) 1,1,2,2-Tetrachloroethane	9.93	83	4743	2.22	ug/L	91
89) 1,2,3-Trichloropropane	10.04	75	3641	2.26	ug/L	97
90) Bromobenzene	10.39	156	5841	2.20	ug/L	98
91) n-Propylbenzene	10.61	91	21334	2.25	ug/L	95
92) 2-Chlorotoluene	10.65	91	11628	2.11	ug/L	92
93) 4-Chlorotoluene	10.72	91	12776	2.15	ug/L	95
94) 1,3,5-Trimethylbenzene	10.87	105	14089	2.14	ug/L	97
95) tert-Butylbenzene	11.06	119	12509	2.18	ug/L	94
96) 1,2,4-Trimethylbenzene	11.17	105	15175	2.15	ug/L	90
97) sec-Butylbenzene	11.25	105	17538	2.15	ug/L	94
98) 1,3-Dclbenz	11.25	146	9848	2.18	ug/L	94
99) 1,4-Dclbenz	11.31	146	9860	2.16	ug/L #	72
100) p-Isopropyltoluene	11.41	119	15028	2.23	ug/L	95
101) 1,2-Dclbenz	11.58	146	9745	2.16	ug/L	92
102) n-Butylbenzene	11.73	91	13154	2.12	ug/L	93
103) 1,2-Dibromo-3-chloropropan	11.95	75	680	1.73	ug/L	91

(#) = qualifier out of range (m) = manual integration  
 D7725.D W082417.M Fri Aug 25 10:22:16 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D Vial: 8  
 Acq On : 24 Aug 2017 10:53 am Operator: D.Lipani  
 Sample : STD #3 - 2.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:22 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:05:39 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

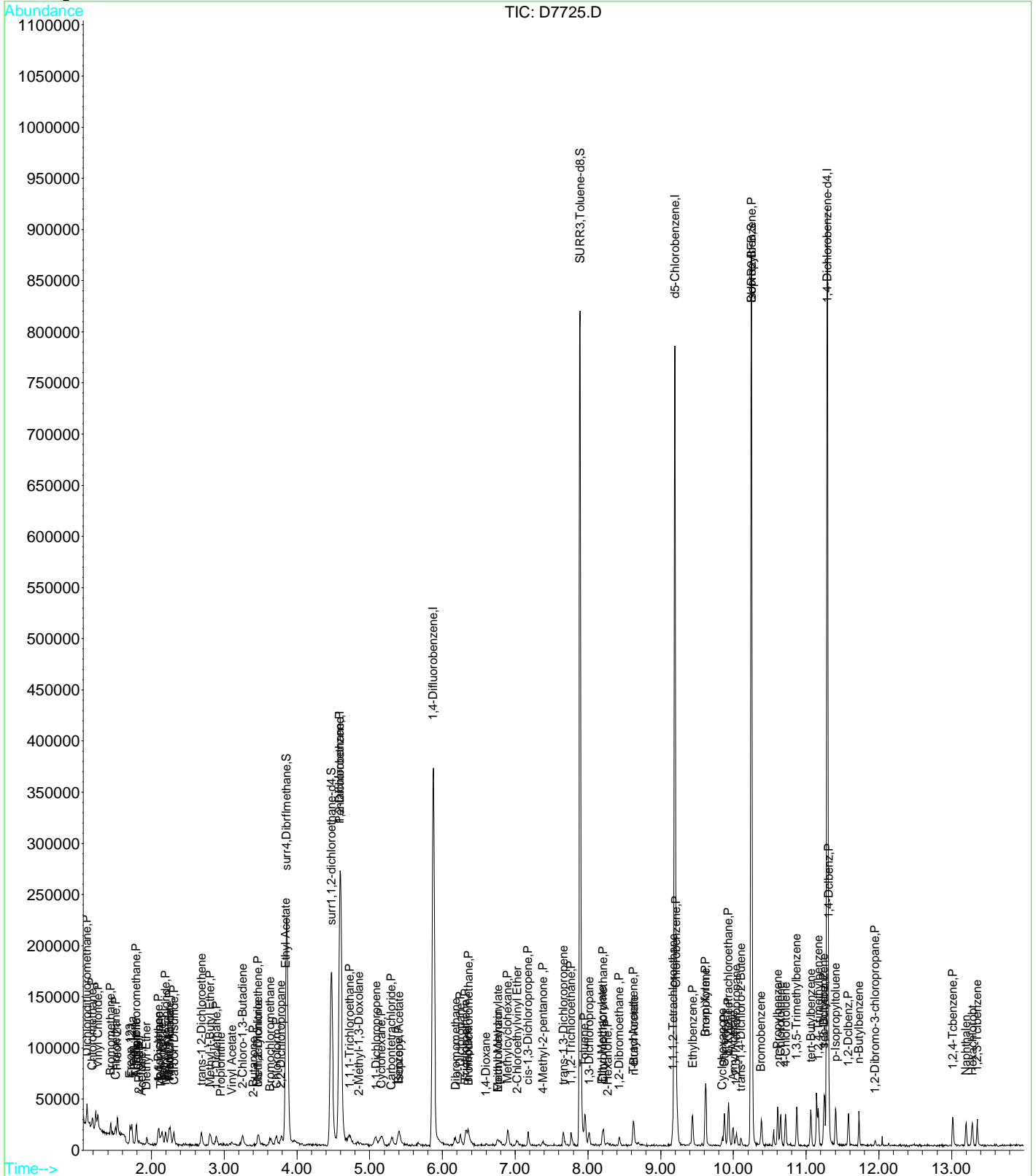
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
105) 1,2,4-Tcbenzene	13.02	180	6479	2.08	ug/L	94
106) Naphthalen	13.20	128	12468	2.12	ug/L	99
107) Hexachlorobt	13.29	225	3432	2.25	ug/L	93
108) 1,2,3-Tclbenzene	13.35	180	5838	2.18	ug/L	97

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7725.D  
Acq On : 24 Aug 2017 10:53 am  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:22 2017

Vial: 8  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

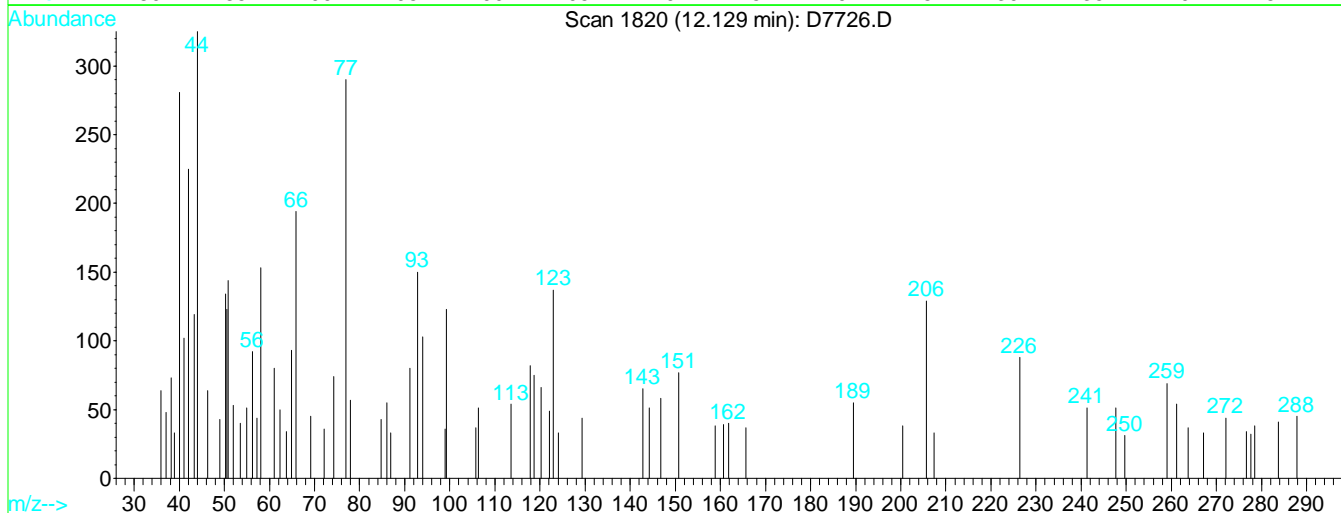
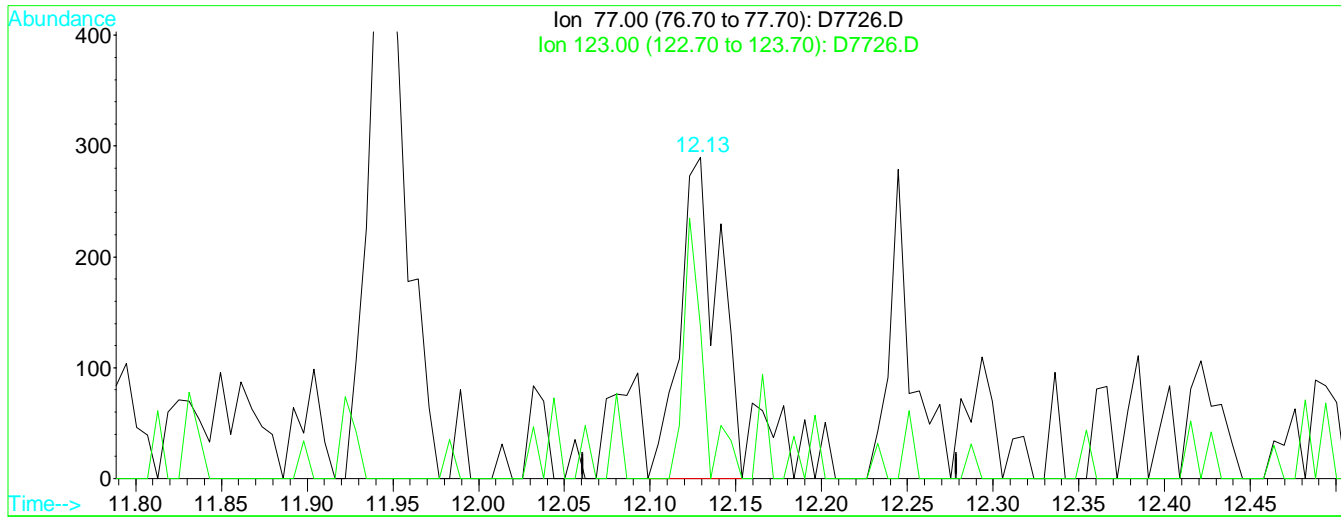
Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:05:39 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:53 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(104) Nitrobenzene

Manual Integration:

12.13min 15.77ug/L m

After

response 460

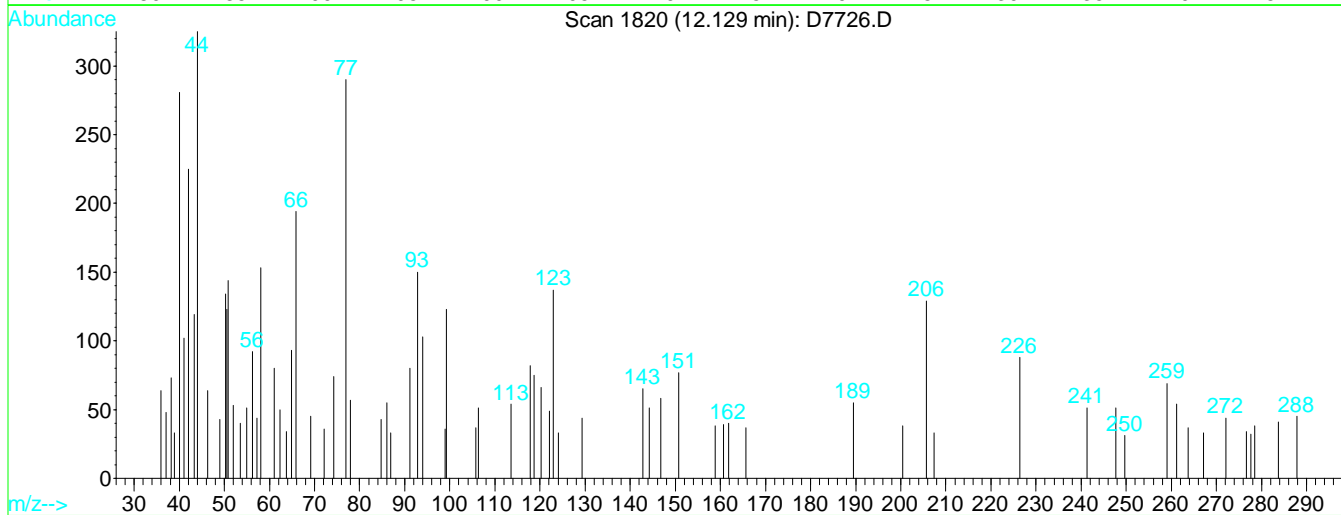
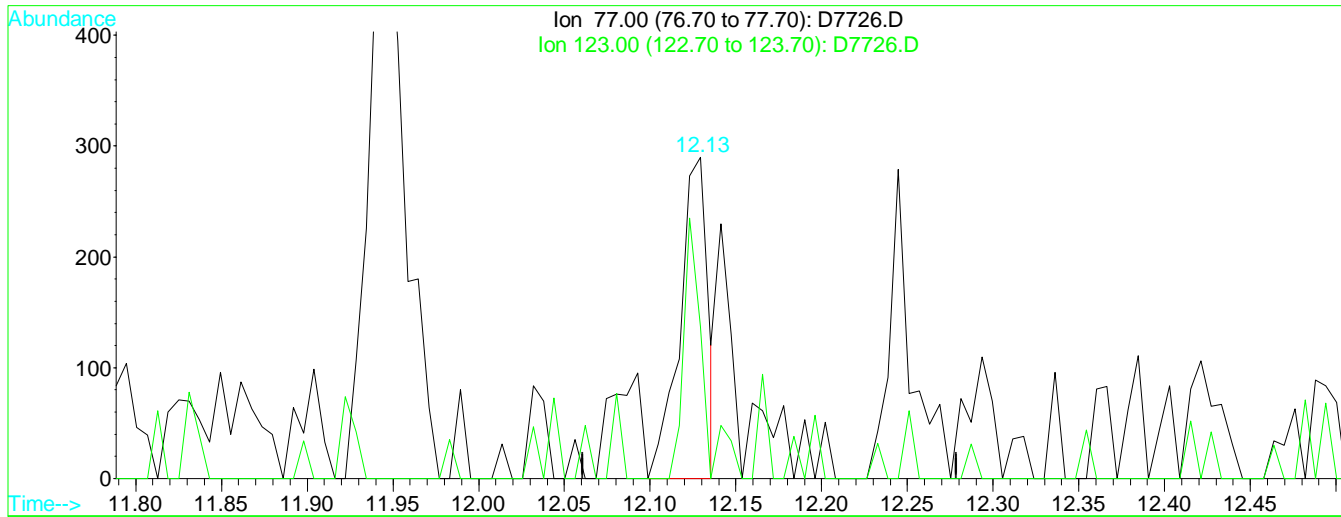
Split Peak.

Ion	Exp%	Act%
77.00	100	100
123.00	44.60	47.24
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
 Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
 Sample : STD #4 - 5.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:52 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:22:29 2017  
 Response via : Single Level Calibration



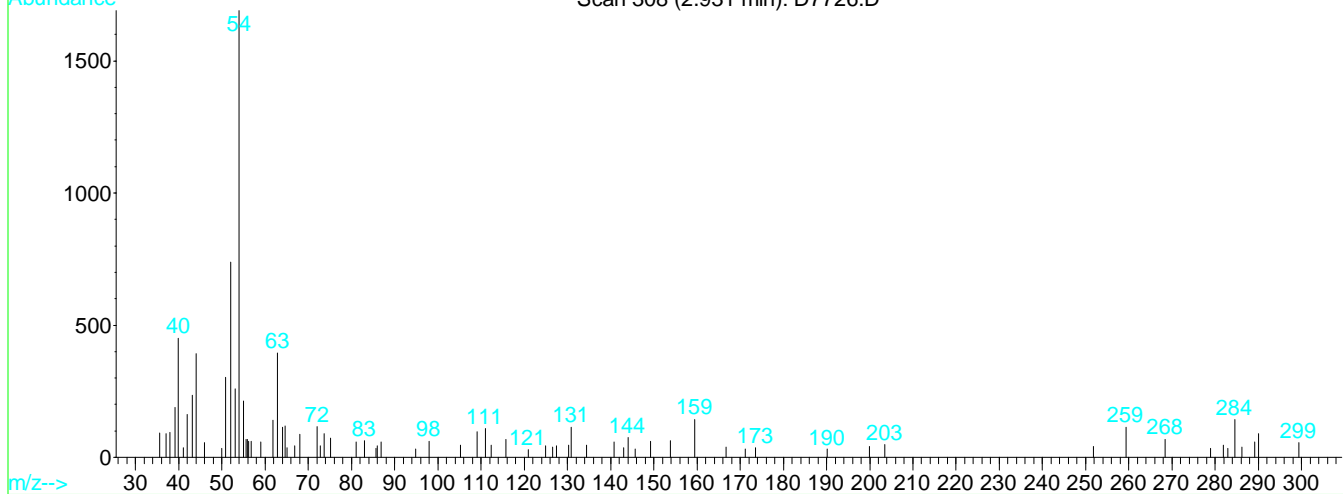
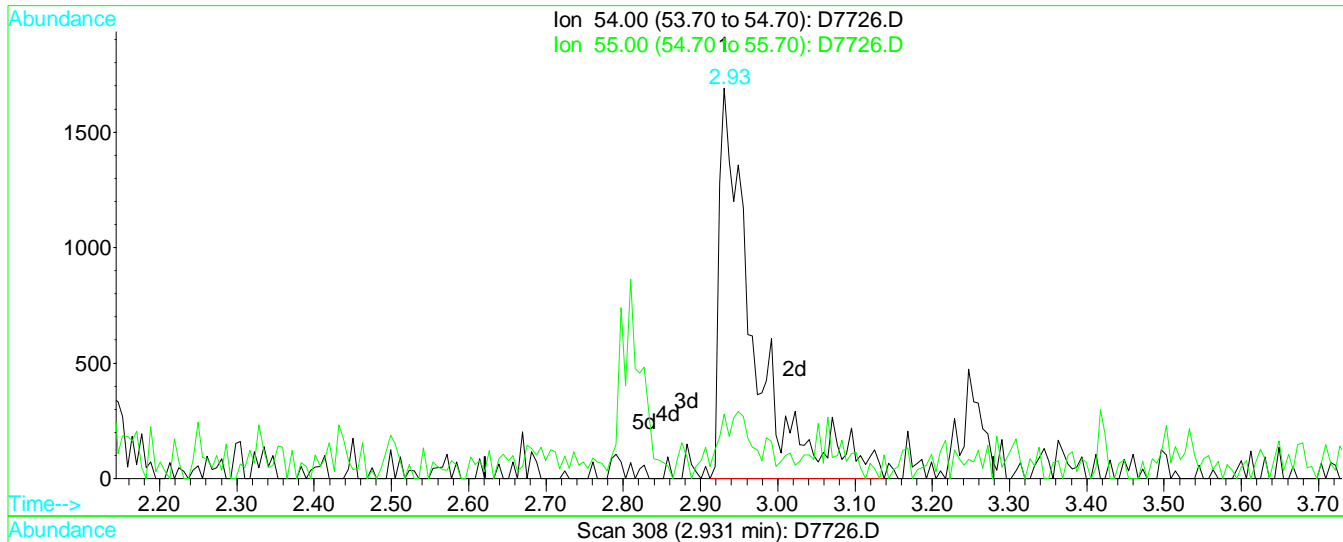
TIC: D7726.D

Retention Time (min)	Concentration (ug/L)	Response	Ion	Exp%	Act%	Manual Integration:
12.13	11.28	329	77.00	100	100	Before
			123.00	44.60	47.24	
			0.00	0.00	0.00	
			0.00	0.00	0.00	

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:47 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Multiple Level Calibration



TIC: D7726.D

(28) Propionitrile

Manual Integration:

2.93min 25.57ug/L m

After

response 5242

Split Peak.

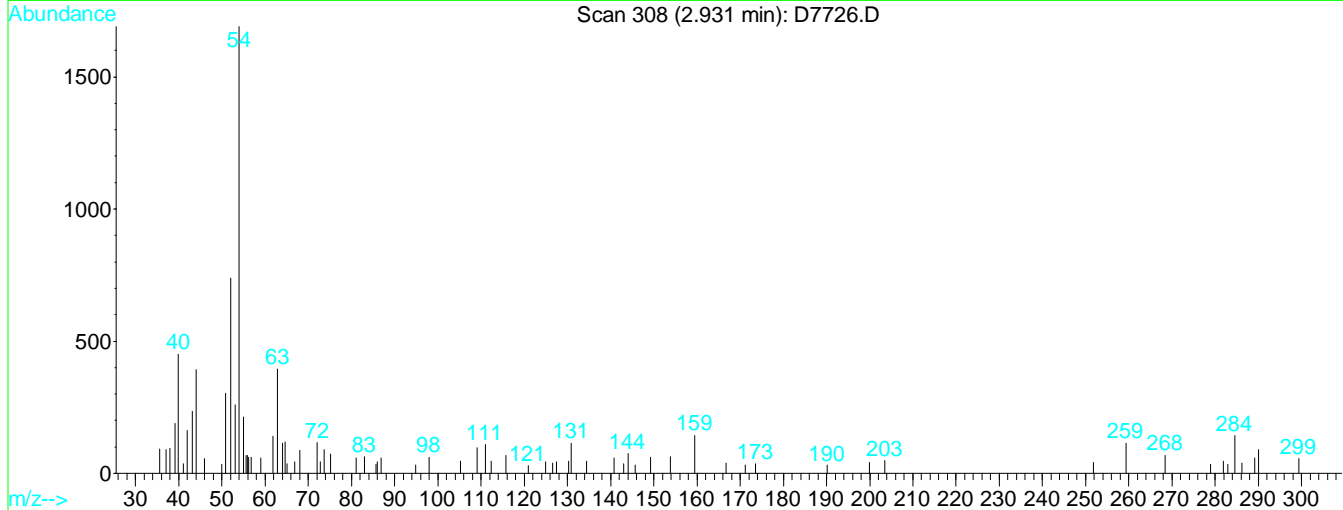
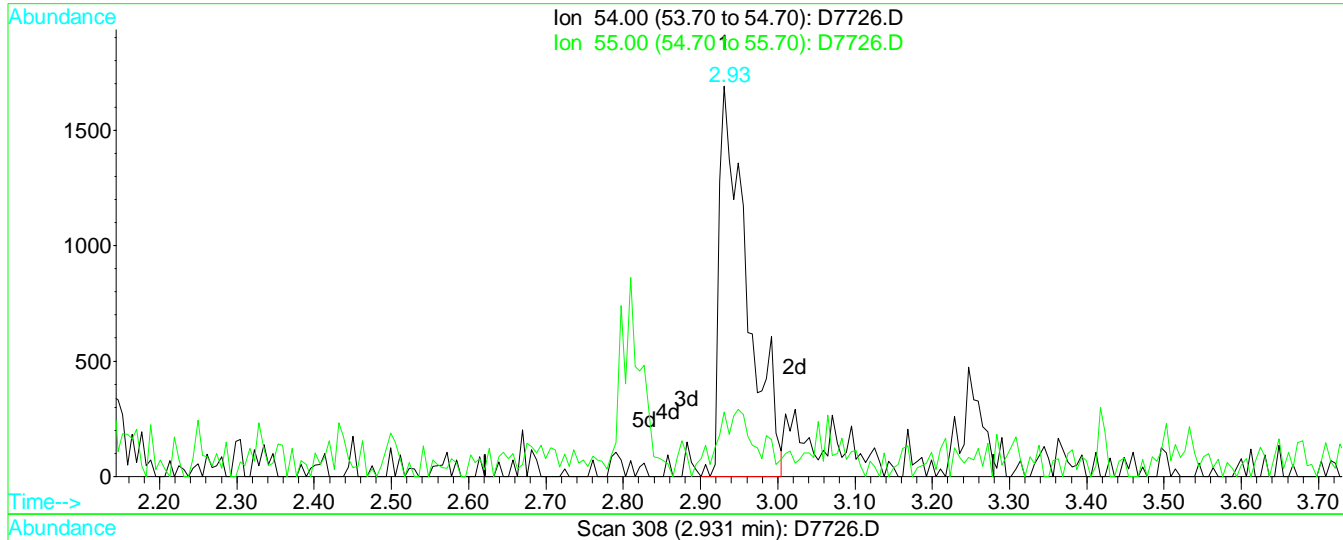
08/25/17

Ion	Exp%	Act%
54.00	100	100
55.00	15.40	12.60
0.00	0.00	0.00
0.00	0.00	0.00



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
 Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
 Sample : STD #4 - 5.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:45 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:22:29 2017  
 Response via : Multiple Level Calibration



TIC: D7726.D

(28) Propionitrile

Manual Integration:

2.93min 20.45ug/L

Before

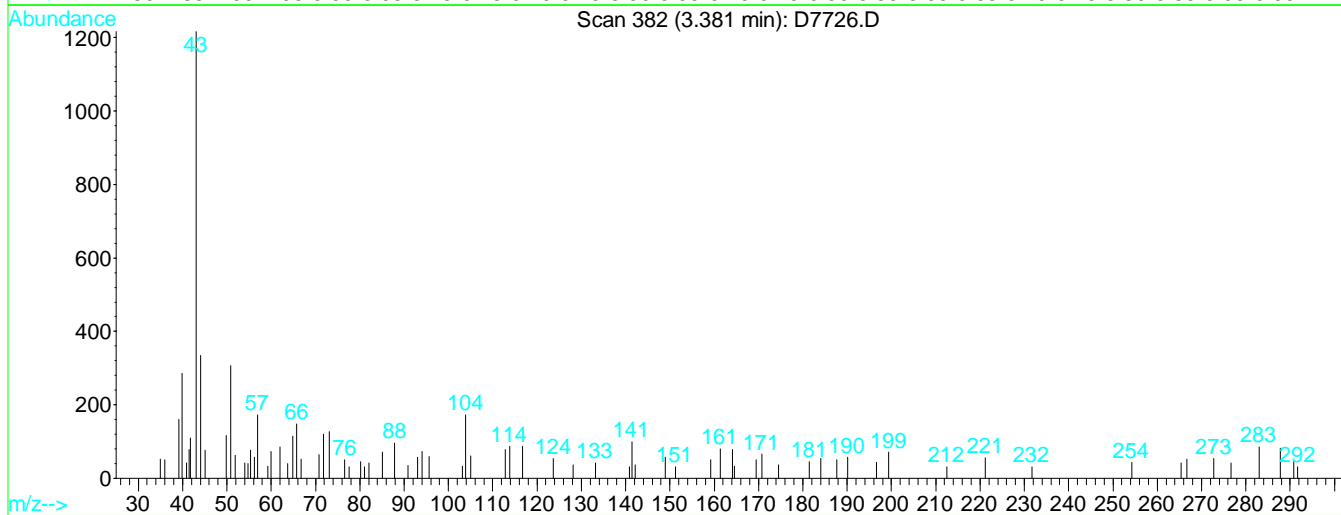
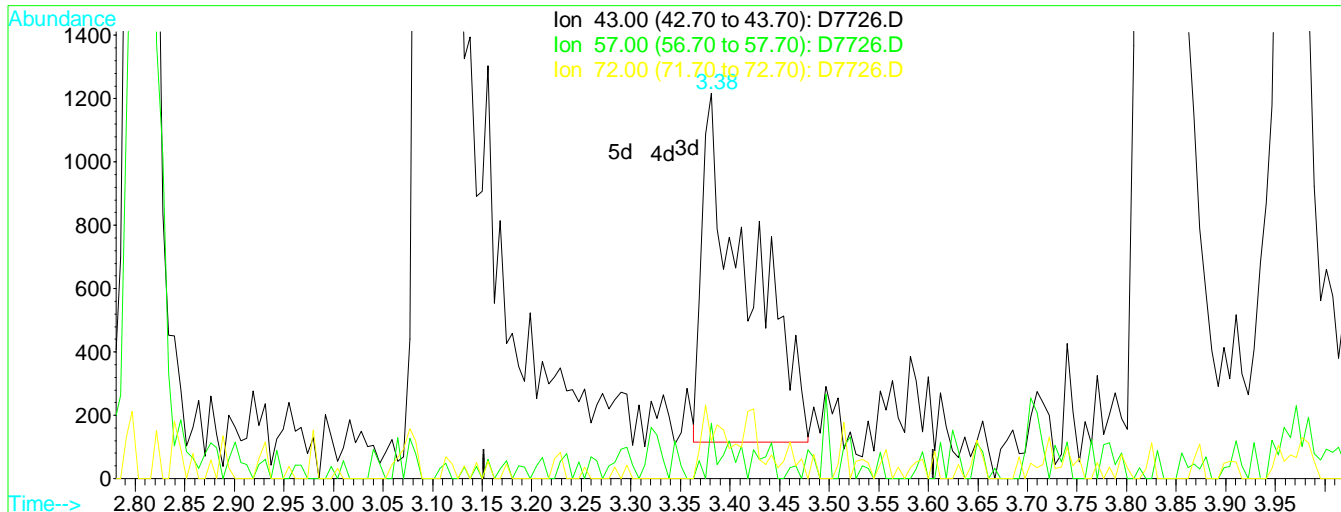
response 4192

08/25/17

Ion	Exp%	Act%
54.00	100	100
55.00	15.40	16.57
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:47 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(31) 2-Butanone (P)

Manual Integration:

3.38min 5.11ug/L m

After

response 3507

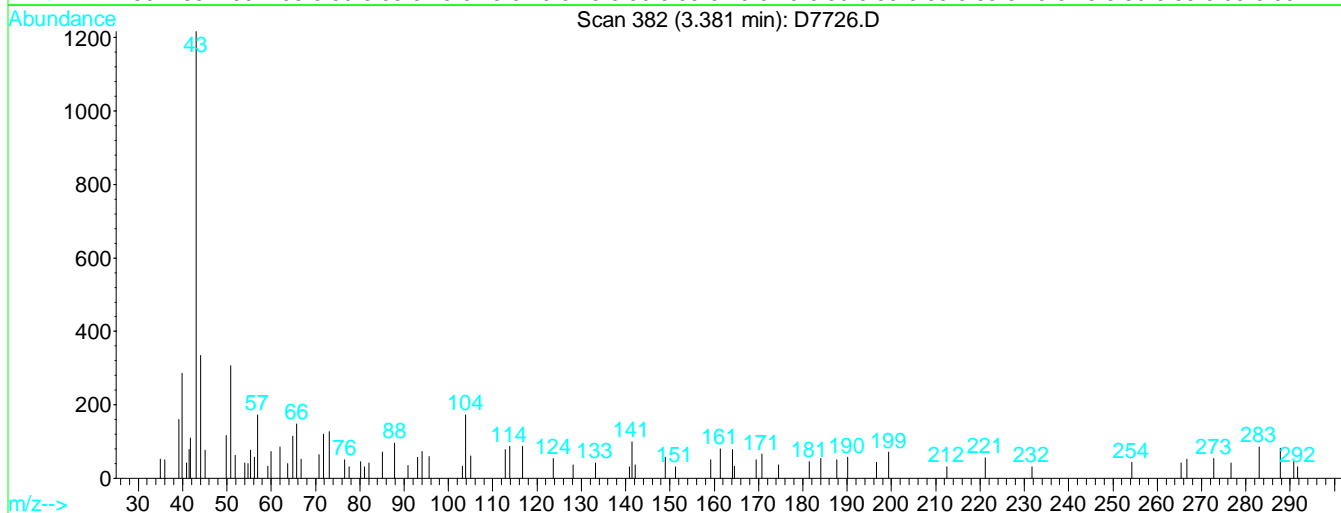
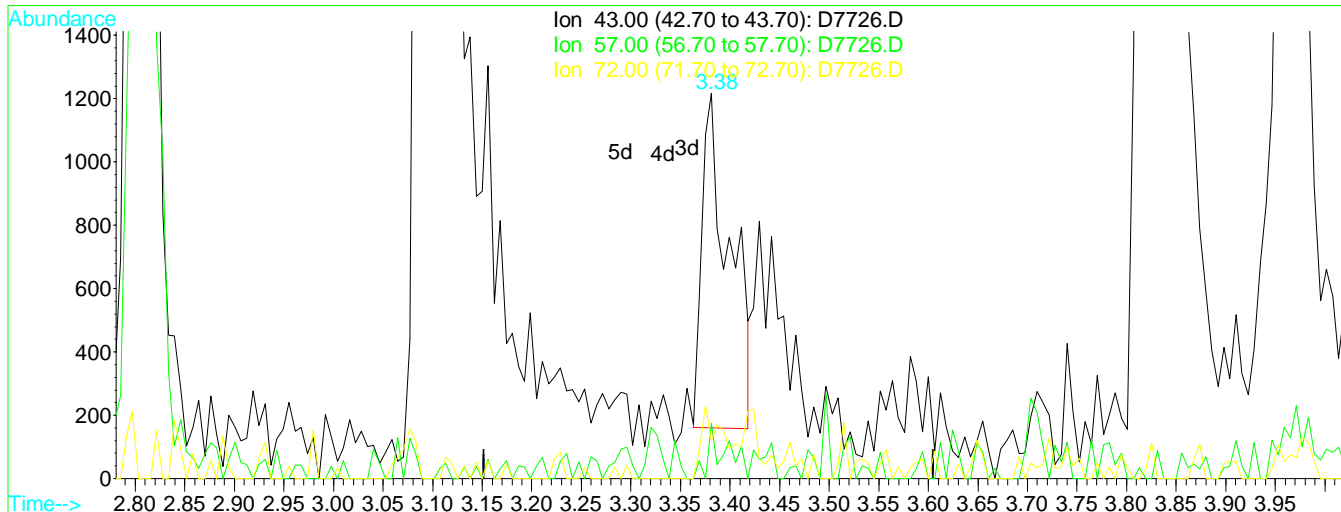
Split Peak.

Ion	Exp%	Act%
43.00	100	100
57.00	9.40	14.23
72.00	25.60	9.87
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:47 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(31) 2-Butanone (P)

Manual Integration:

3.38min 2.98ug/L

Before

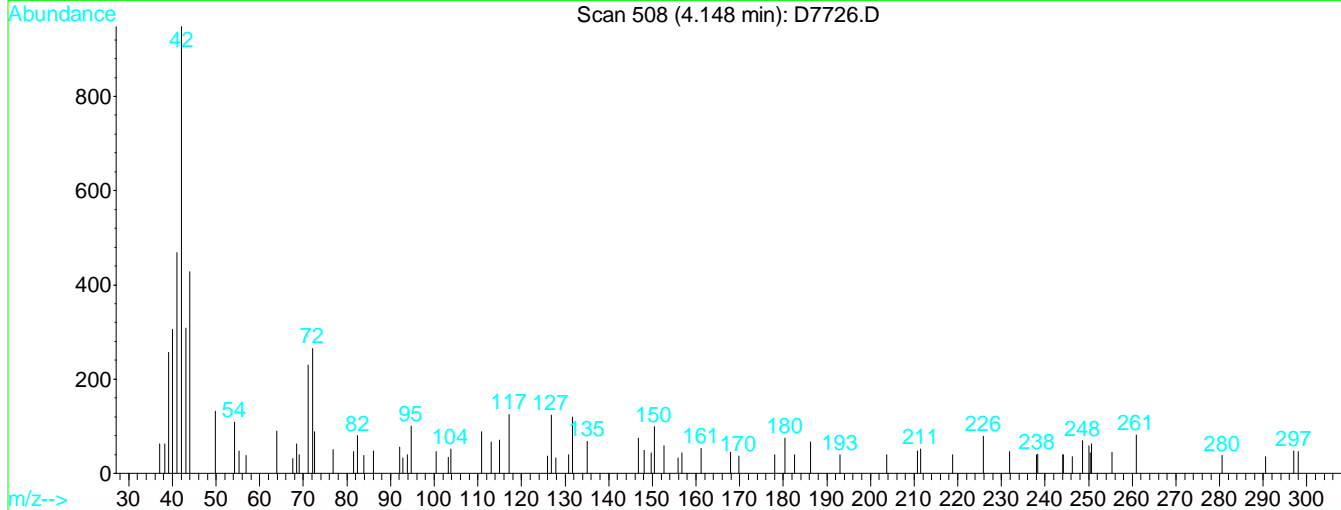
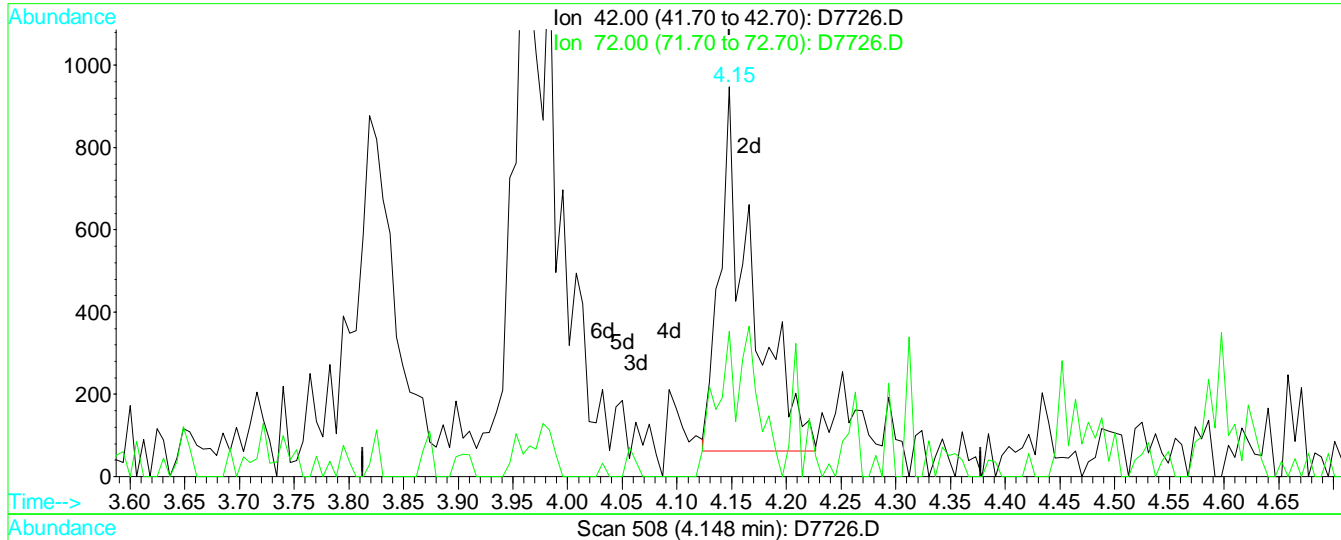
response 2044

Ion	Exp%	Act%
43.00	100	100
57.00	9.40	14.23
72.00	25.60	9.87
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:48 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(38) Tetrahydrofuran

Manual Integration:

4.15min 4.32ug/L m

After

response 1796

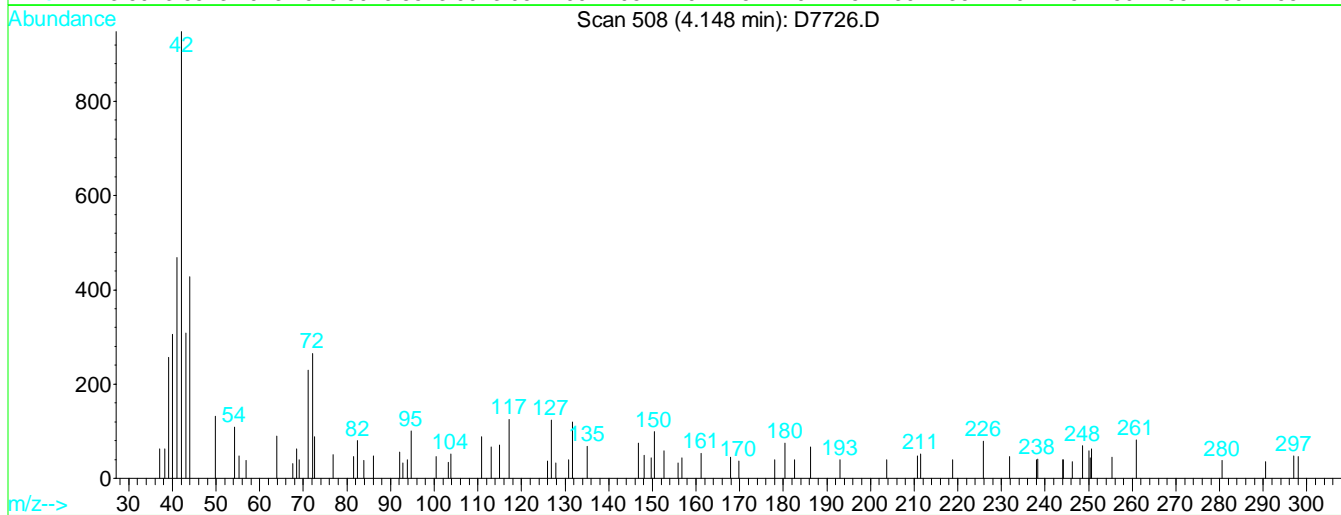
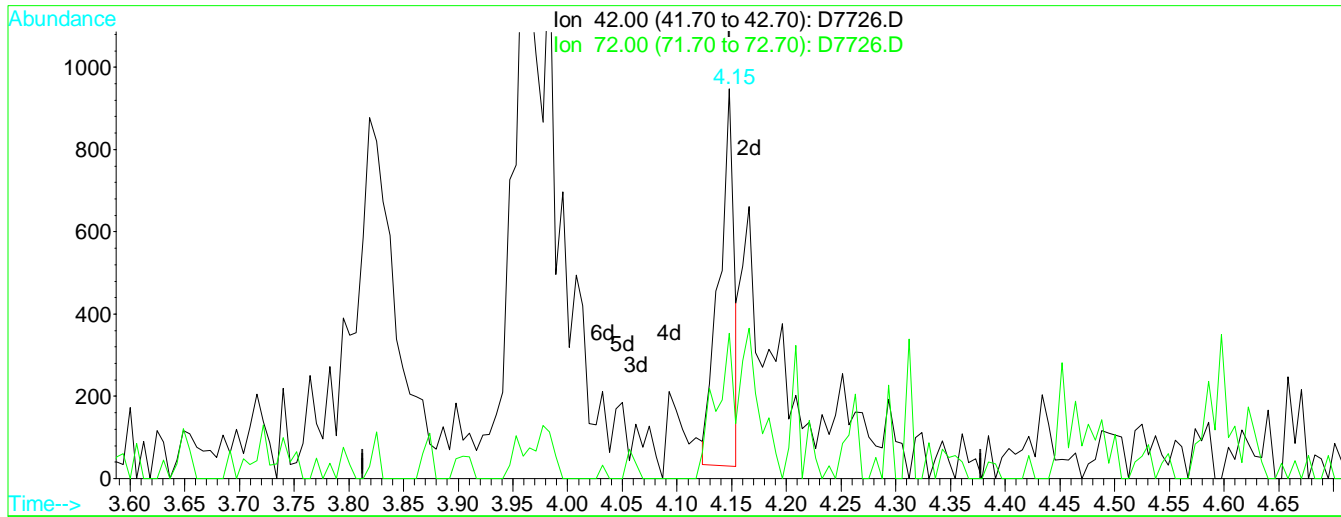
Split Peak.

08/25/17

Ion	Exp%	Act%
42.00	100	100
72.00	40.50	27.95
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:47 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(38) Tetrahydrofuran

Manual Integration:

4.15min 2.11ug/L

Before

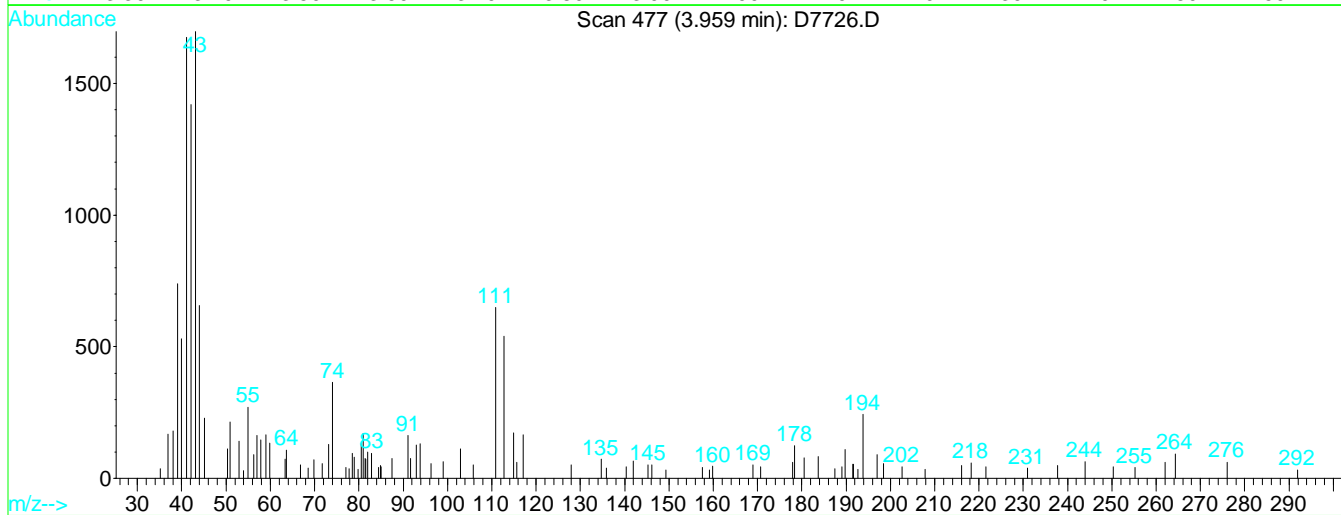
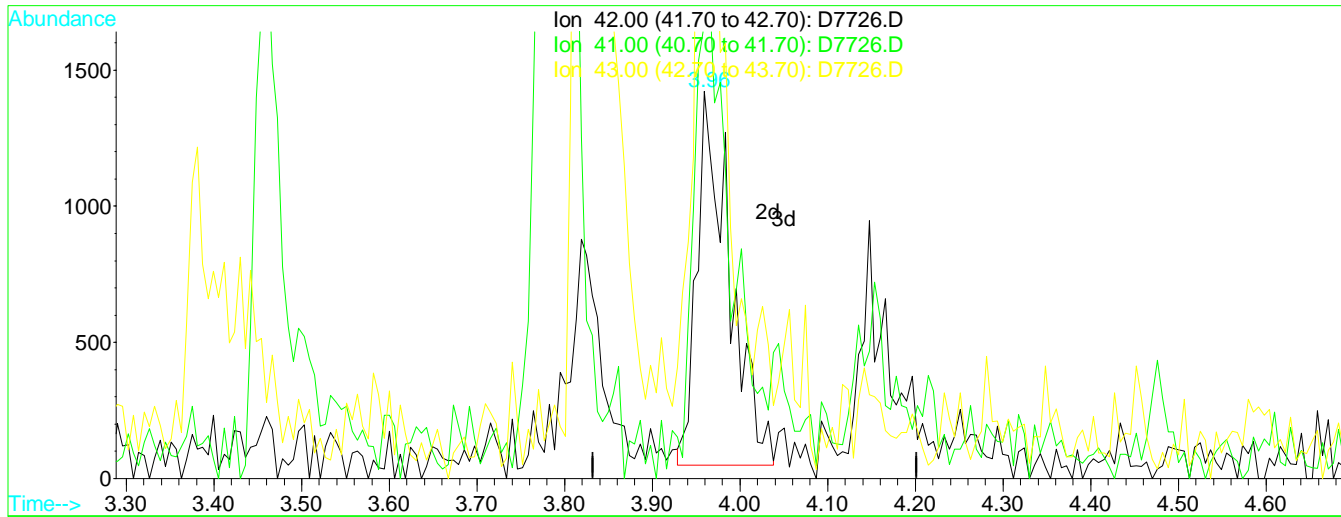
response 879

Ion	Exp%	Act%
42.00	100	100
72.00	40.50	37.34
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:48 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(42) Iso-Butyl Alcohol

3.96min 89.22ug/L m

response 3556

Ion Exp% Act%

42.00 100 100

41.00 128.10 117.80

43.00 164.20 119.42#

0.00 0.00 0.00

Manual Integration:

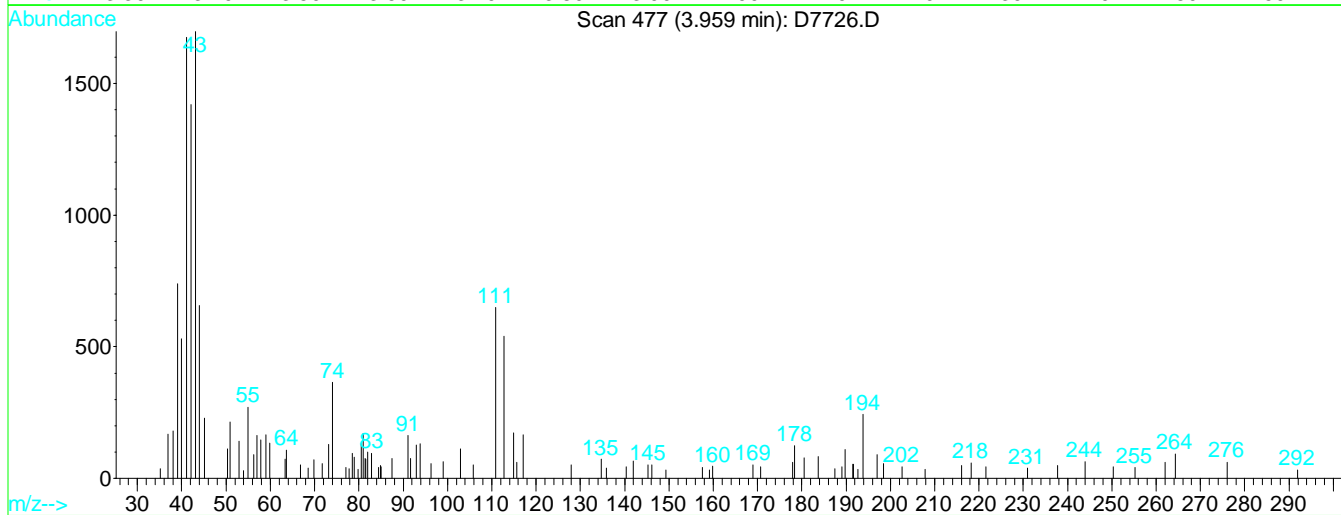
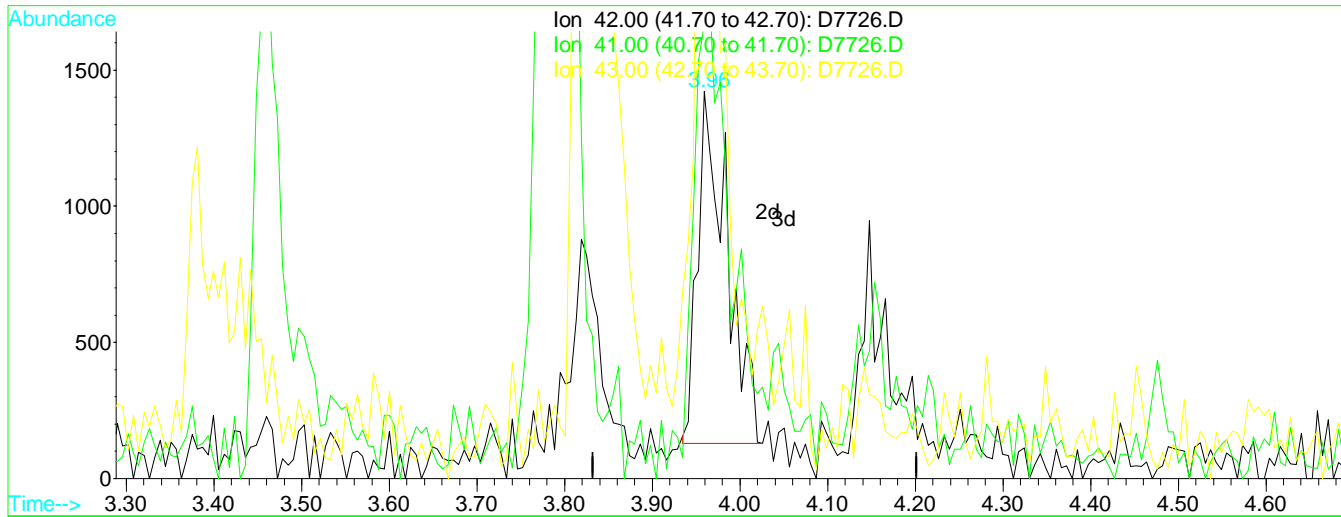
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:48 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(42) Iso-Butyl Alcohol

Manual Integration:

3.96min 75.49ug/L

Before

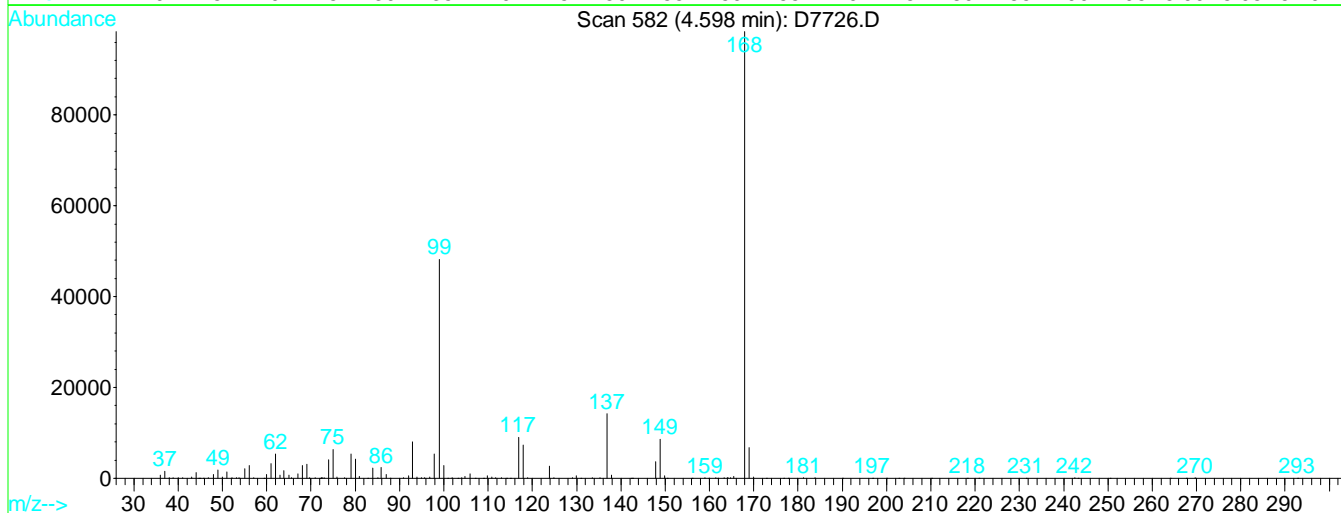
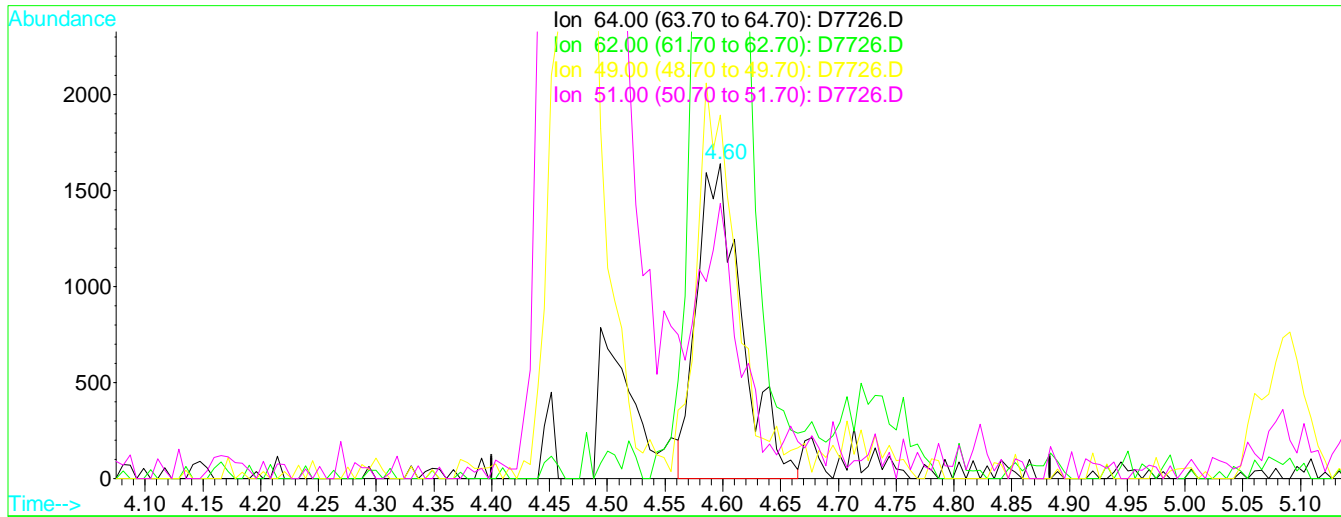
response 3009

Ion	Exp%	Act%
42.00	100	100
41.00	128.10	117.80
43.00	164.20	119.42#
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:49 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Multiple Level Calibration



TIC: D7726.D

(44) 1,2-Dichloroethane (P)

Manual Integration:

4.60min 4.55ug/L m

After

response 4408

Poor integration.

Ion Exp% Act%

08/25/17

64.00 100 100

62.00 291.40 327.58#

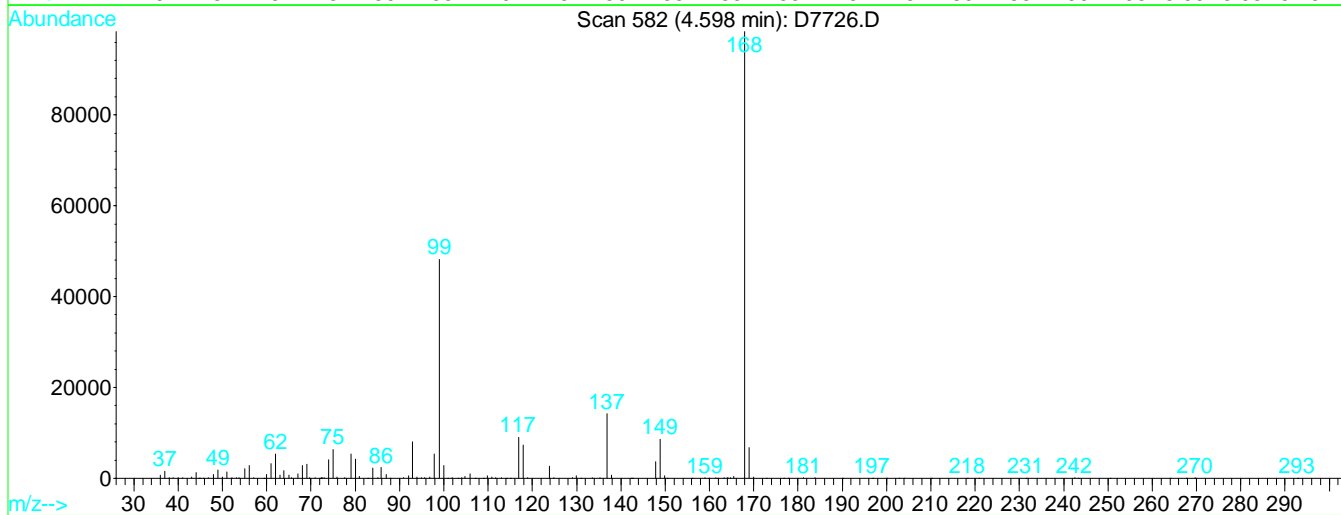
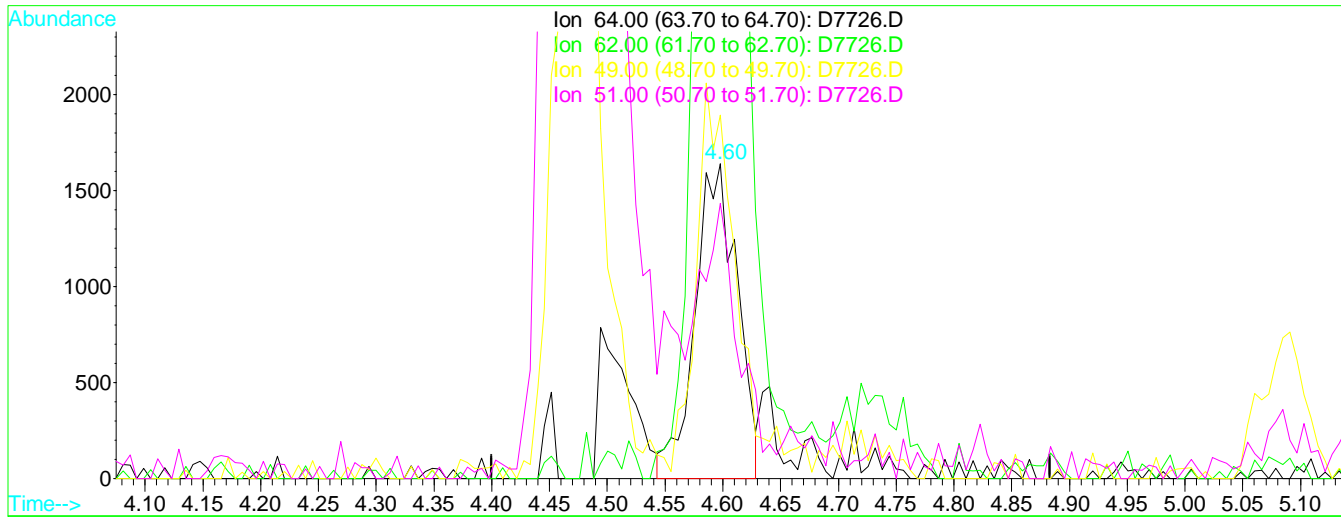
49.00 77.00 115.56#

51.00 29.80 87.49#



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:48 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Multiple Level Calibration



TIC: D7726.D

(44) 1,2-Dichloroethane (P)

Manual Integration:

4.60min 4.27ug/L

Before

response 4136

Ion Exp% Act%

08/25/17

64.00 100 100

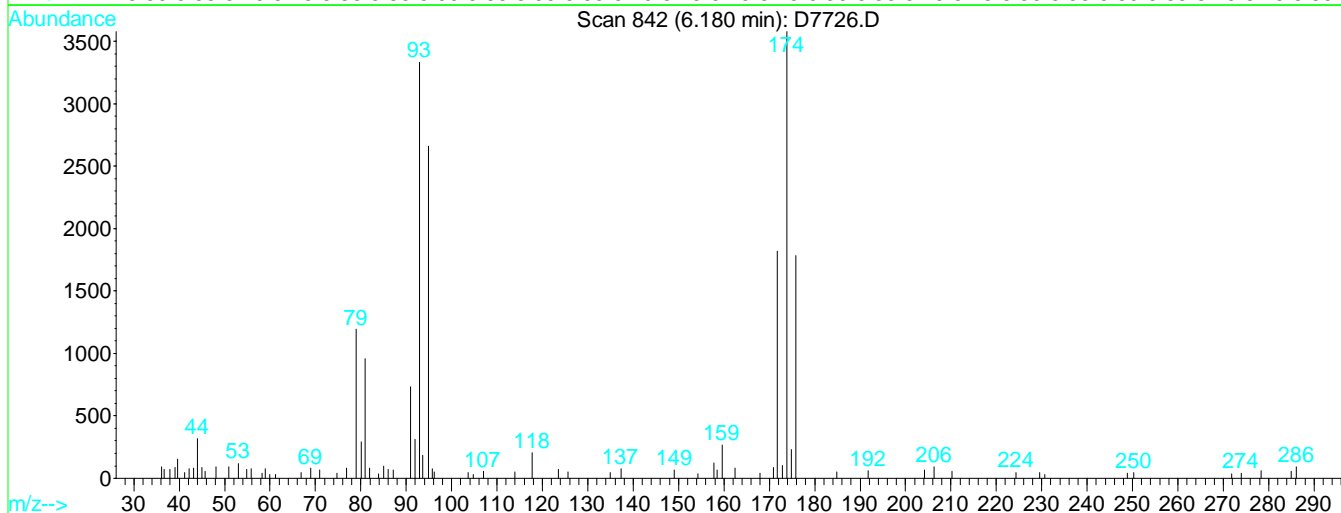
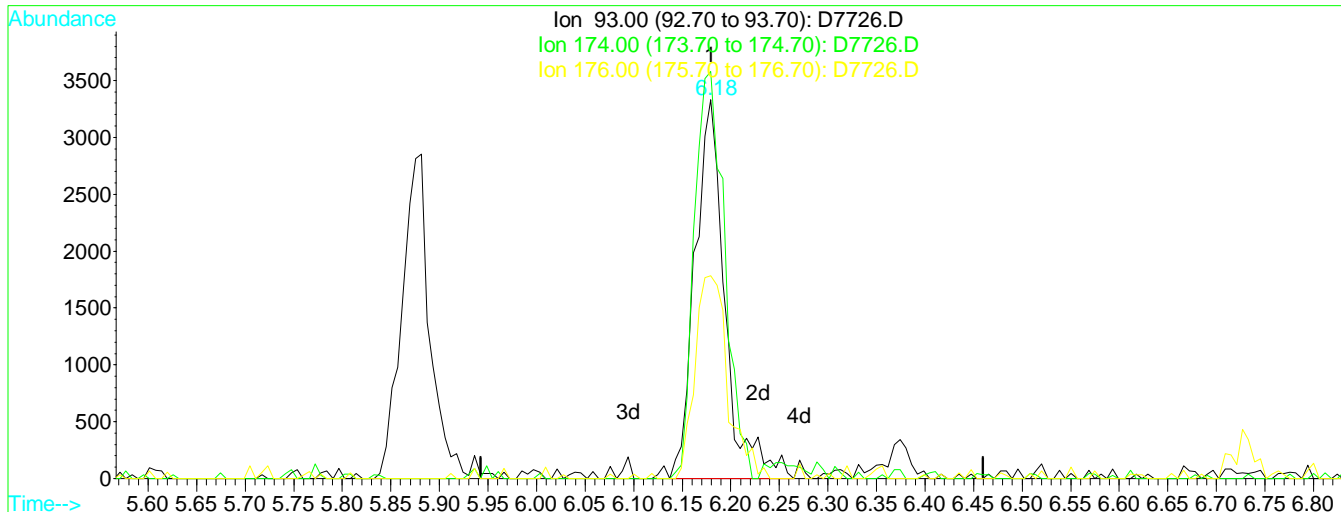
62.00 291.40 327.58#

49.00 77.00 115.56#

51.00 29.80 87.49#

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
 Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
 Sample : STD #4 - 5.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:50 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:22:29 2017  
 Response via : Multiple Level Calibration



TIC: D7726.D

(51) Dibromomethane

Manual Integration:

6.18min 4.87ug/L m

After

response 7140

Split Peak.

Ion Exp% Act%

08/25/17

93.00 100 100

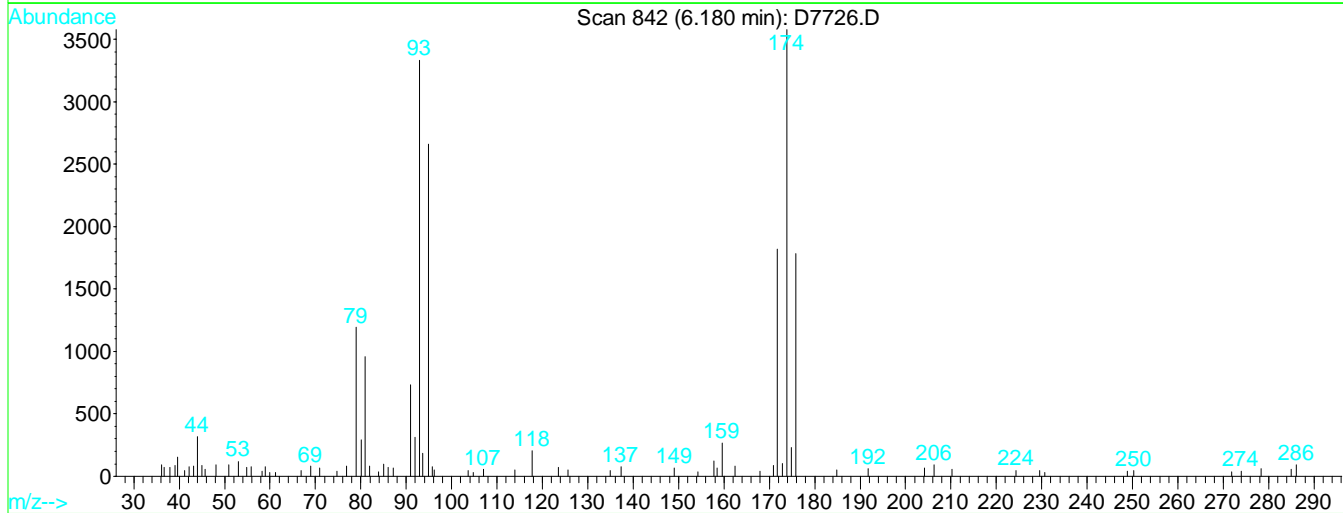
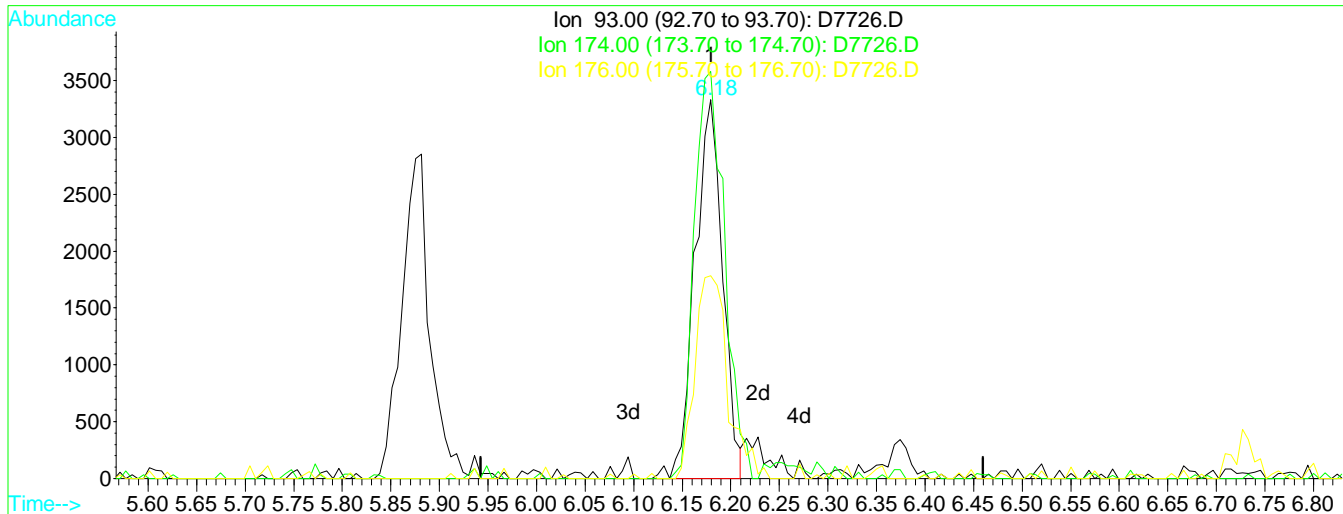
174.00 117.80 108.95

176.00 58.60 58.96

0.00 0.00 0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:49 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Multiple Level Calibration



TIC: D7726.D

(51) Dibromomethane

Manual Integration:

6.18min 4.50ug/L

Before

response 6597

Ion Exp% Act%

08/25/17

93.00 100 100

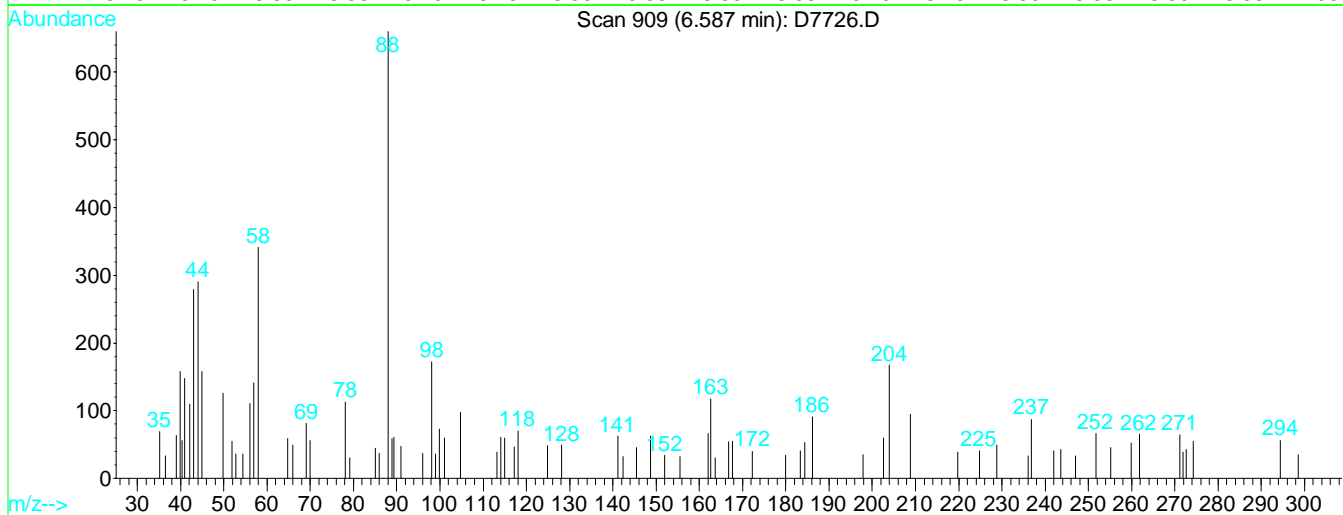
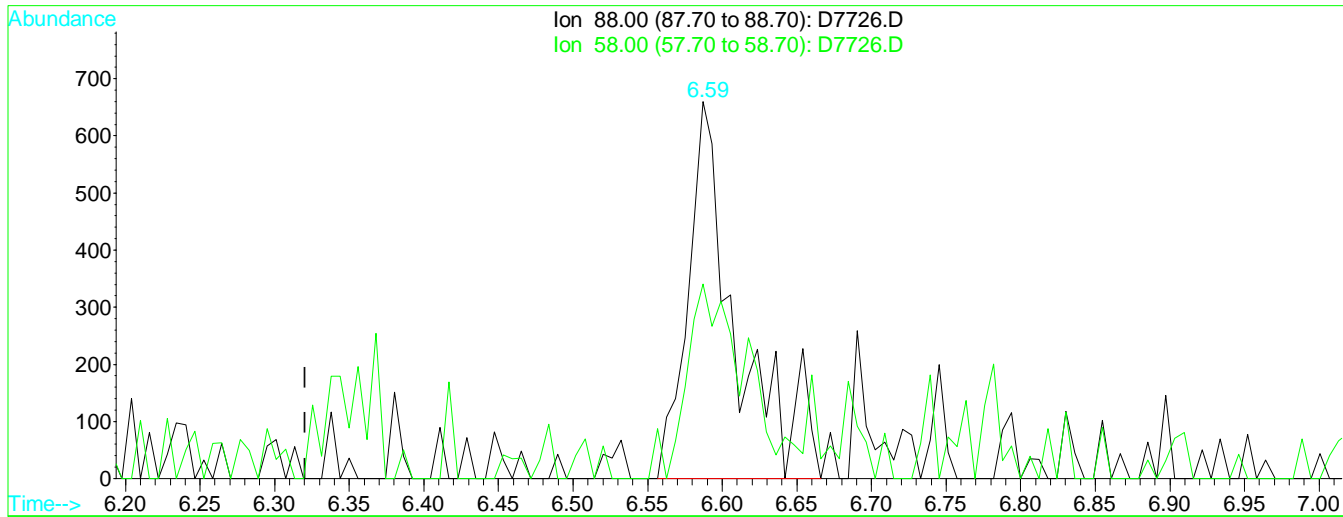
174.00 117.80 117.92

176.00 58.60 63.82

0.00 0.00 0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:51 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(56) 1,4-Dioxane

6.59min 84.28ug/L m

response 1494

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	51.67
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

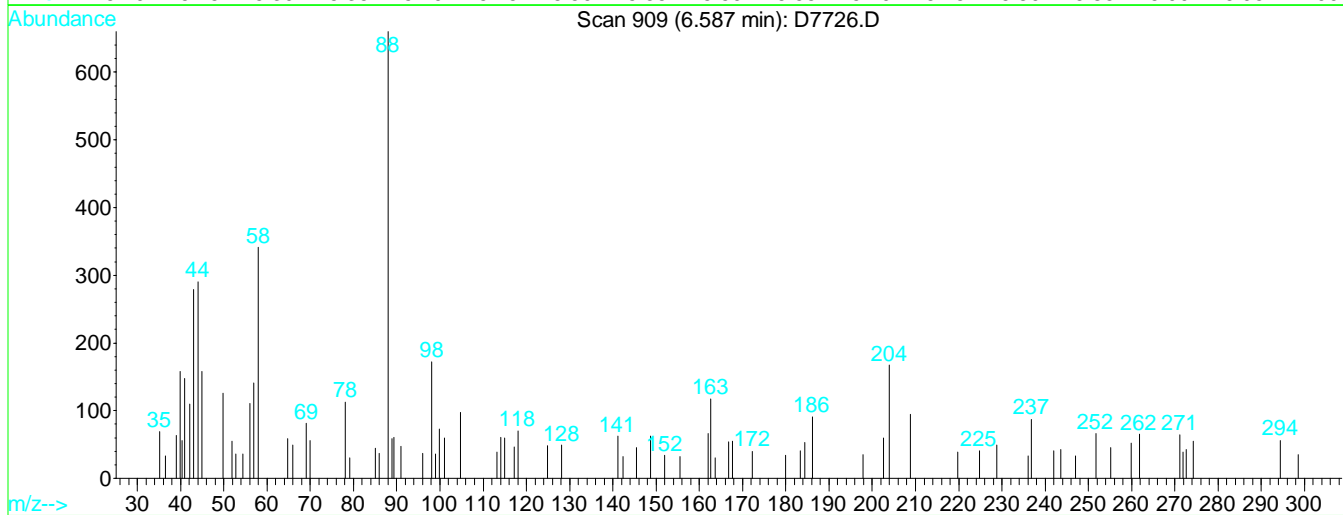
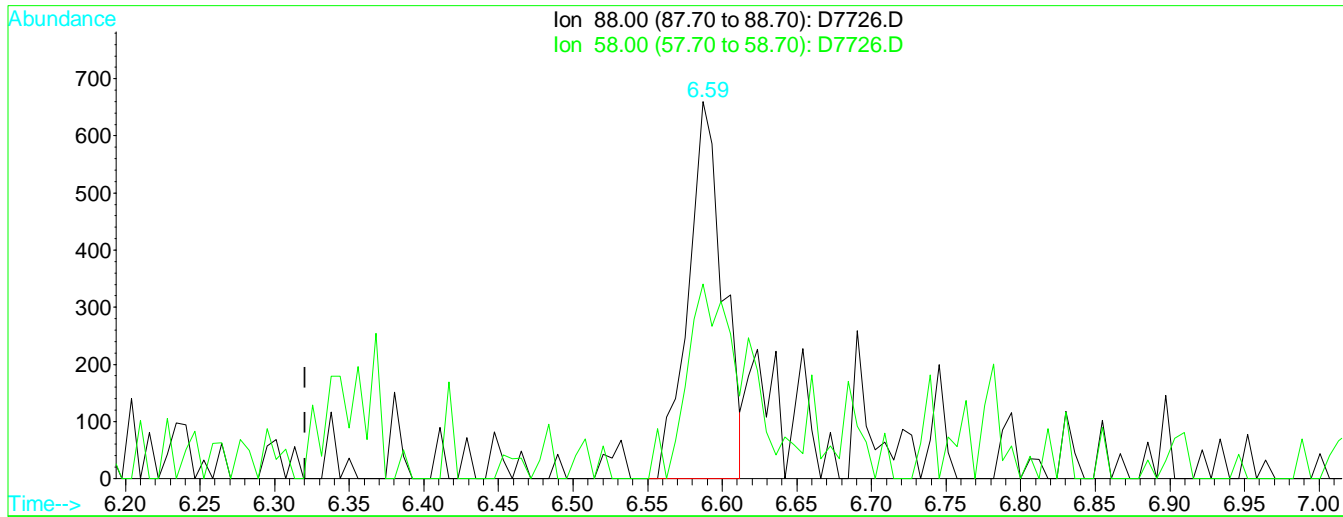
After

Split Peak.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:50 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



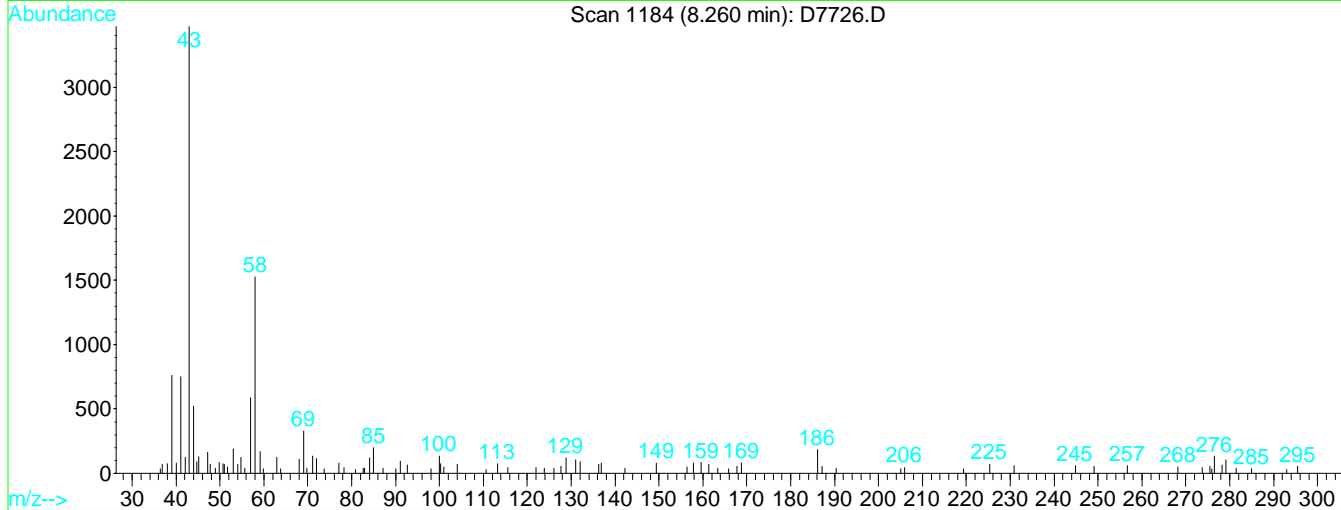
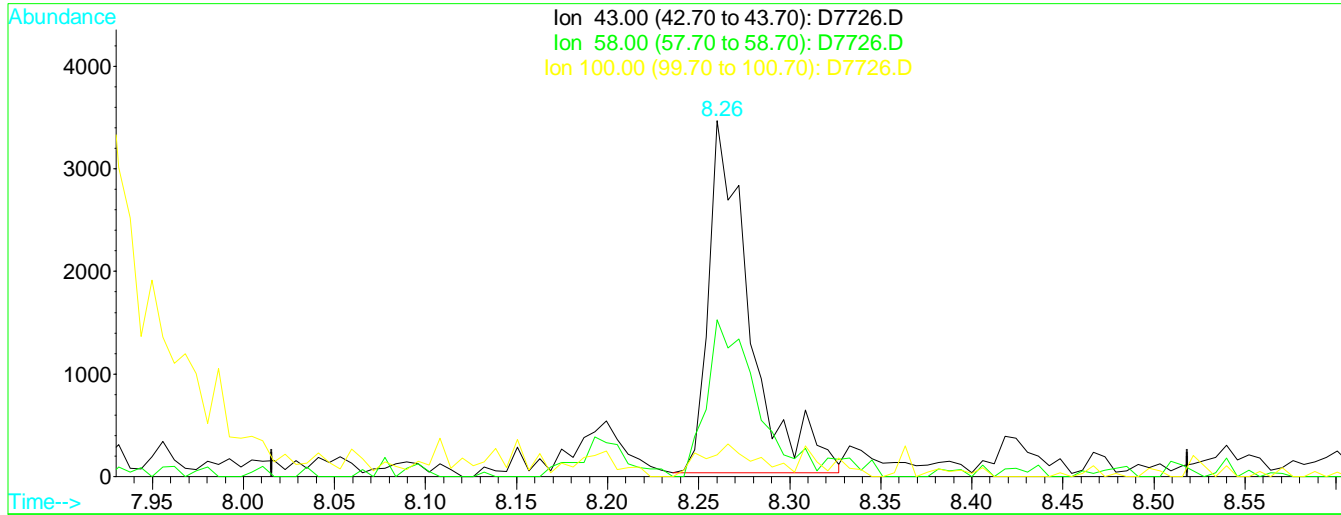
TIC: D7726.D

(56) 1,4-Dioxane	Manual Integration:	
6.59min 60.42ug/L	Before	
response 1071		
Ion	Exp%	Act%
88.00	100	100
58.00	49.20	51.67
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:52 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(71) 2-Hexanone (P)

Manual Integration:

8.26min 5.08ug/L m

After

response 5408

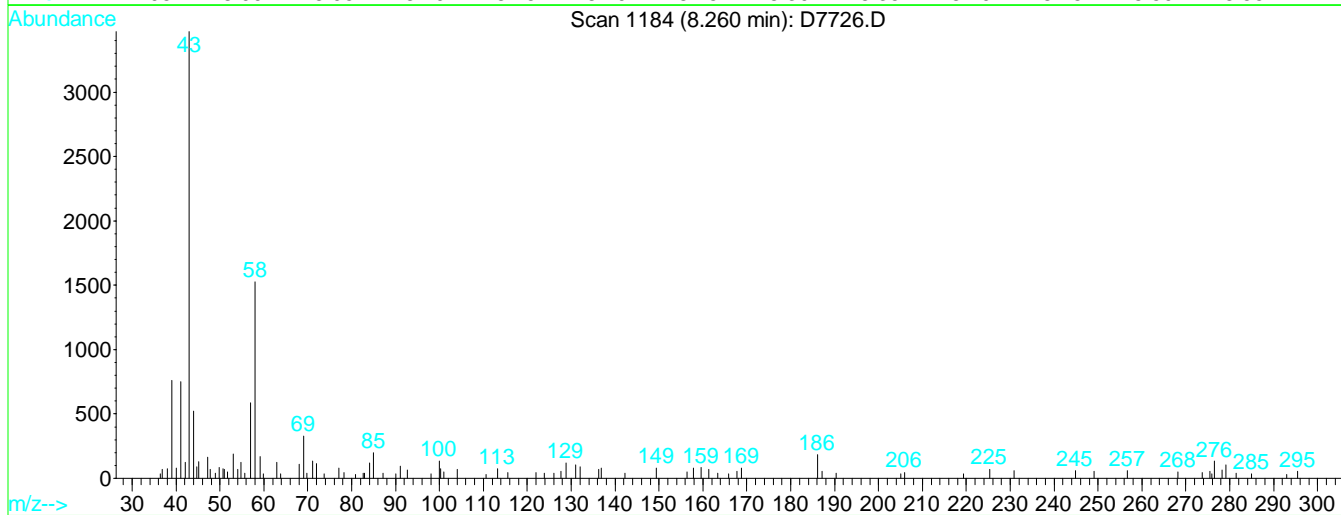
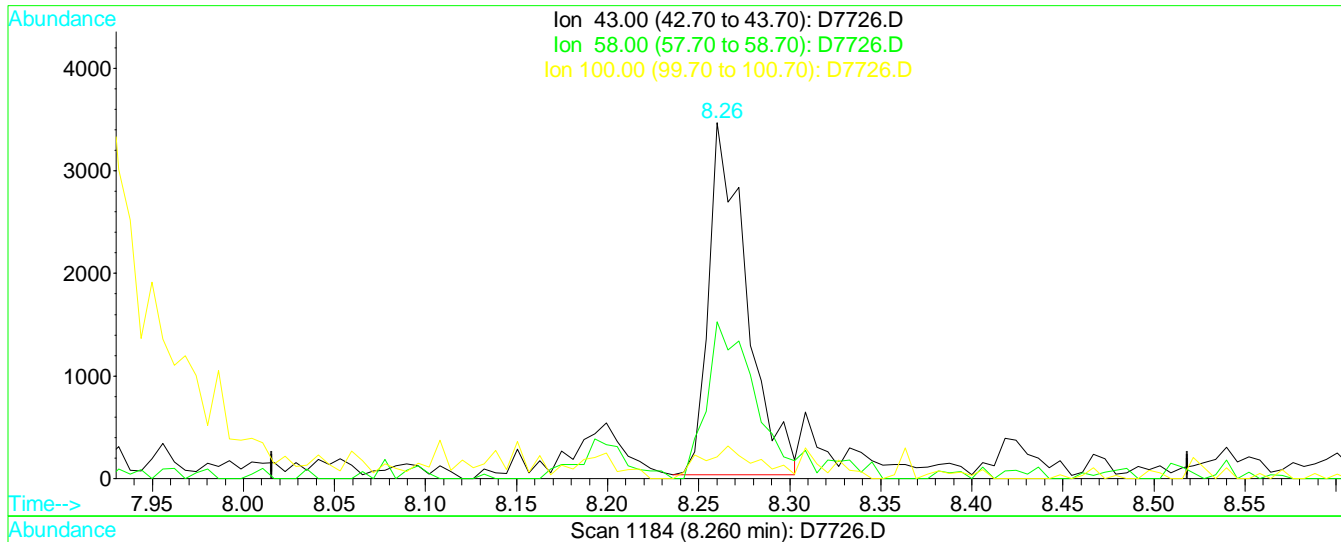
Split Peak.

Ion	Exp%	Act%
43.00	100	100
58.00	51.20	53.22
100.00	12.00	7.75
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
Sample : STD #4 - 5.0 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:51 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Single Level Calibration



TIC: D7726.D

(71) 2-Hexanone (P)

Manual Integration:

8.26min 4.67ug/L

Before

response 4972

Ion	Exp%	Act%
43.00	100	100
58.00	51.20	57.88
100.00	12.00	8.43
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
 Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
 Sample : STD #4 - 5.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:53 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:22:29 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	274309	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	353882	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	159551	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	187694	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	179797	70.84	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	141.68%#
43) surr1,1,2-dichloroethane-d	4.47	65	196772	71.58	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	143.16%#
65) SURRE3,Toluene-d8	7.89	98	515279	71.91	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	143.82%#
86) SURRE2,BFB	10.24	95	207134	69.31	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	138.62%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.11	85	21540	5.26	ug/L	94
3) Chloromethane	1.19	50	13051	4.80	ug/L	91
4) Vinyl Chloride	1.27	62	15599	4.66	ug/L	93
5) Bromomethane	1.44	94	9657	4.78	ug/L	92
6) Chloroethane	1.51	64	8708	5.31	ug/L	96
7) Freon 21	1.54	67	24913	5.00	ug/L	98
8) Freon 123	1.71	83	16183	5.23	ug/L	89
9) Freon 123a	1.73	67	12392	5.01	ug/L	99
10) Acrolein	1.79	56	5374	24.77	ug/L	93
11) Trichlorofluoromethane	1.79	101	18908	5.05	ug/L	86
12) Acetonitrile	1.80	41	3435	22.99	ug/L	100
13) 2-Propanol	1.84	45	10915	106.31	ug/L	95
14) Acetone	1.87	43	2613	4.95	ug/L	89
15) Diethyl Ether	1.94	59	6477	4.90	ug/L	96
16) 1,1-Dicethene	2.10	96	8897	4.71	ug/L	95
17) Iodomethane	2.11	142	12181	3.97	ug/L	98
18) TBA	2.13	59	18115	102.71	ug/L	98
19) Acrylonitrile	2.15	53	14826	26.06	ug/L	95
20) Methylene Chloride	2.20	84	10058	5.01	ug/L	94
21) Freon 113	2.24	101	9527	4.41	ug/L	84
22) Methyl Acetate	2.26	43	7951	4.69	ug/L	88
23) Allyl Chloride	2.26	76	3986	5.12	ug/L #	59
24) Carbon Disulfide	2.31	76	28086	4.86	ug/L	95
25) trans-1,2-Dichloroethene	2.69	96	10229	5.08	ug/L #	86
26) Methyl-t-Butyl Ether	2.81	73	26851	5.19	ug/L	98
27) 1,1-Dicethane	2.89	63	14786	4.84	ug/L	90
28) Propionitrile	2.93	54	5242m	25.57	ug/L	
29) Vinyl Acetate	3.10	43	20073	5.53	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.26	53	12296	4.55	ug/L	91
31) 2-Butanone	3.38	43	3507m	5.11	ug/L	
32) Methacrylonitrile	3.46	67	3378	5.06	ug/L #	87
33) cis-1,2-Dichloroethene	3.47	96	10309	4.79	ug/L	96
34) Bromochloromethane	3.64	128	5639	4.62	ug/L #	86
35) Chloroform	3.72	83	18131	4.95	ug/L	95
36) 2,2-Dichloropropane	3.79	77	17183	5.15	ug/L	89
37) Ethyl Acetate	3.83	43	15065	10.26	ug/L	90
38) Tetrahydrofuran	4.15	42	1796m	4.32	ug/L	
39) 1,1,1-Trichloroethane	4.73	97	17831	5.01	ug/L	95
42) Iso-Butyl Alcohol	3.96	42	3556m	89.22	ug/L	

(#) = qualifier out of range (m) = manual integration  
 D7726.D W082417.M Fri Aug 25 10:54:17 2017



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
 Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
 Sample : STD #4 - 5.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:53 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:22:29 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-Dichloroethane	4.60	64	4408m	4.55	ug/L	
45) 2-Methyl-1,3-Dioxolane	4.84	73	6103	26.01	ug/L	83
46) 1,1-Dichloropropene	5.08	75	11866	4.63	ug/L	91
47) Cyclohexane	5.17	56	13587	5.16	ug/L	88
48) Carbontetrachloride	5.31	119	14318	5.03	ug/L	94
49) Benzene	5.39	78	33644	4.85	ug/L	93
50) Isopropyl Acetate	5.41	43	17581	5.14	ug/L	97
51) Dibromomethane	6.18	93	7140m	4.87	ug/L	
52) 1,2-Dicloropane	6.25	63	8109	4.58	ug/L	99
53) n-Heptane	6.35	43	9282	4.83	ug/L	93
54) Trichloroethene	6.33	130	11288	4.92	ug/L	98
55) Bromodichloromethane	6.37	83	12743	4.65	ug/L	95
56) 1,4-Dioxane	6.59	88	1494m	84.28	ug/L	
57) Epichlorohydrin	6.75	57	3325	23.27	ug/L	68
58) Methyl Methacrylate	6.75	69	5665	4.74	ug/L	92
59) Methylcyclohexane	6.90	55	10684	4.95	ug/L	90
60) 2-Chloroethylvinyl Ether	7.02	63	5929	5.34	ug/L	83
61) cis-1,3-Dichloropropene	7.18	75	14649	4.77	ug/L	98
62) 4-Methyl-2-pentanone	7.37	43	7935	4.99	ug/L	92
63) trans-1,3-Dichloropropene	7.66	75	14649	5.08	ug/L	94
64) 1,1,2-Trichloroethane	7.77	97	8307	4.76	ug/L	96
66) Toluene	7.96	91	40133	5.10	ug/L	96
68) 1,3-Dichloropropane	8.02	76	14627	5.48	ug/L	88
69) Ethyl Methacrylate	8.19	69	10570	4.90	ug/L	97
70) Dibromochloromethane	8.21	129	10097	4.60	ug/L	100
71) 2-Hexanone	8.26	43	5408m	5.08	ug/L	
72) 1,2-Dibromoethane	8.43	107	9799	5.09	ug/L	97
73) n-Butyl Acetate	8.63	43	13197	5.36	ug/L	94
74) Tetrachloroethene	8.63	164	9590	5.03	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.17	131	9266	4.65	ug/L	92
76) Chlorobenzene	9.22	112	25343	5.03	ug/L	99
77) Ethylbenzene	9.44	106	13787	5.19	ug/L	93
78) Bromoform	9.62	173	6698	4.54	ug/L	99
79) (m+p)Xylene	9.62	106	31319	9.41	ug/L #	82
80) o-Xylene	9.93	106	15268	4.77	ug/L #	86
81) Cyclohexanone	9.84	55	5889	96.06	ug/L	87
82) Styrene	9.88	104	27503	5.38	ug/L	91
83) Amyl Acetate	9.99	43	18547	5.52	ug/L	89
84) trans-1,4-Dichloro-2-Buten	10.10	75	3832	5.15	ug/L	96
85) Isopropylbenzene	10.25	105	42191	5.16	ug/L	97
88) 1,1,2,2-Tetrachloroethane	9.92	83	11211	5.00	ug/L	93
89) 1,2,3-Trichloropropane	10.04	75	8579	5.07	ug/L	100
90) Bromobenzene	10.38	156	13028	4.68	ug/L	96
91) n-Propylbenzene	10.61	91	48410	4.87	ug/L	95
92) 2-Chlorotoluene	10.64	91	29131	5.03	ug/L	91
93) 4-Chlorotoluene	10.71	91	31162	5.01	ug/L	94
94) 1,3,5-Trimethylbenzene	10.87	105	35122	5.09	ug/L	94
95) tert-Butylbenzene	11.06	119	29045	4.84	ug/L	95
96) 1,2,4-Trimethylbenzene	11.17	105	35566	4.80	ug/L	94
97) sec-Butylbenzene	11.24	105	42813	5.00	ug/L	97
98) 1,3-Dclbenz	11.25	146	24313	5.14	ug/L	93
99) 1,4-Dclbenz	11.31	146	24160	5.04	ug/L	98
100) p-Isopropyltoluene	11.41	119	36766	5.21	ug/L	94
101) 1,2-Dclbenz	11.58	146	22411	4.73	ug/L	100

(#) = qualifier out of range (m) = manual integration  
 D7726.D W082417.M Fri Aug 25 10:54:18 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D Vial: 9  
 Acq On : 24 Aug 2017 11:33 am Operator: D.Lipani  
 Sample : STD #4 - 5.0 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 10:53 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:22:29 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

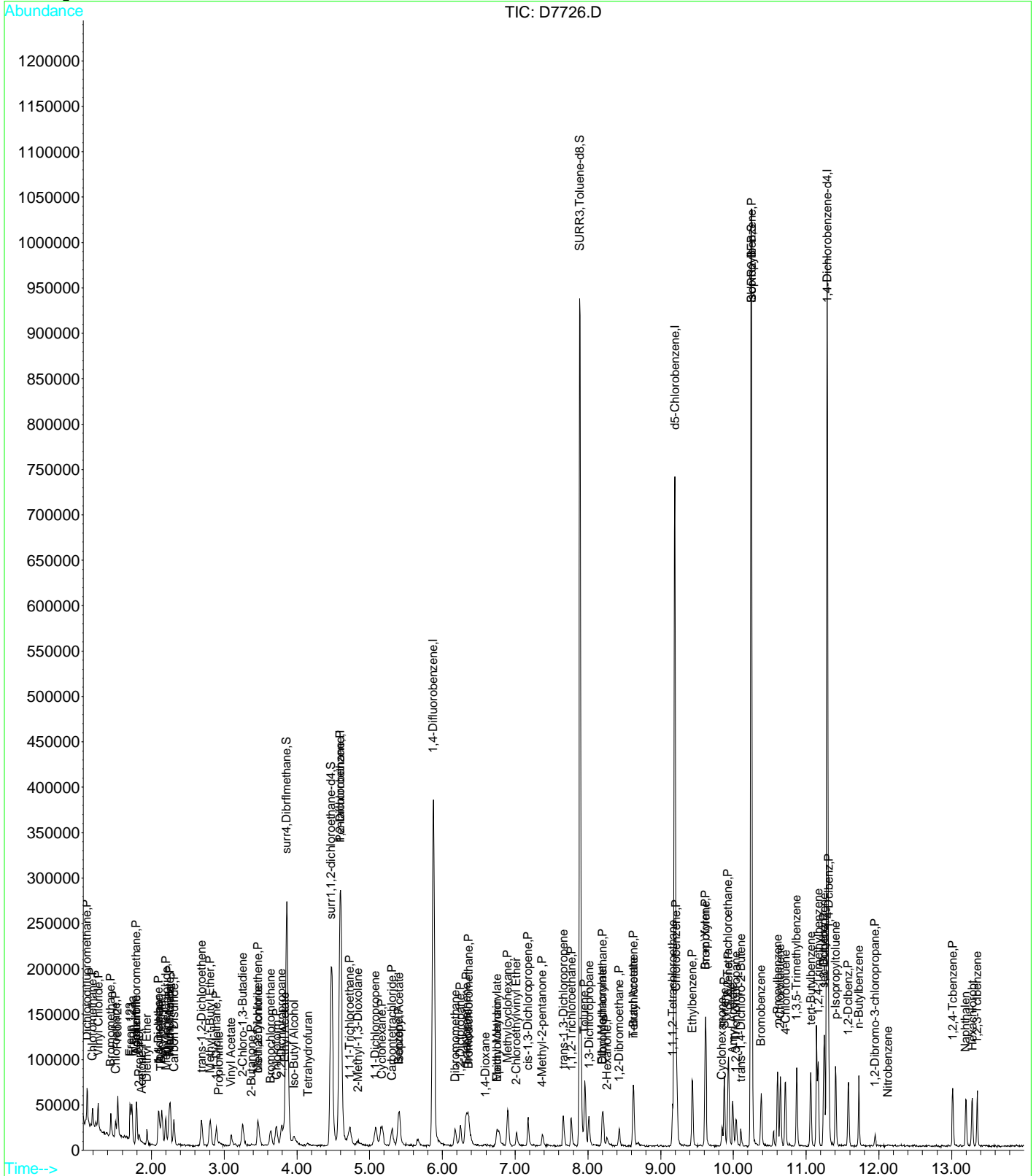
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.73	91	31213	4.80	ug/L	98
103) 1,2-Dibromo-3-chloropropan	11.95	75	2159	5.23	ug/L #	89
104) Nitrobenzene	12.13	77	460m	15.77	ug/L	
105) 1,2,4-Tcbenzene	13.02	180	16292	5.00	ug/L	91
106) Naphthalen	13.20	128	32332	5.24	ug/L	97
107) Hexachlorobt	13.28	225	7596	4.76	ug/L	92
108) 1,2,3-Tclbenzene	13.35	180	13815	4.92	ug/L	94

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7726.D  
Acq On : 24 Aug 2017 11:33 am  
Sample : STD #4 - 5.0 PPB  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 10:53 2017

Vial: 9  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

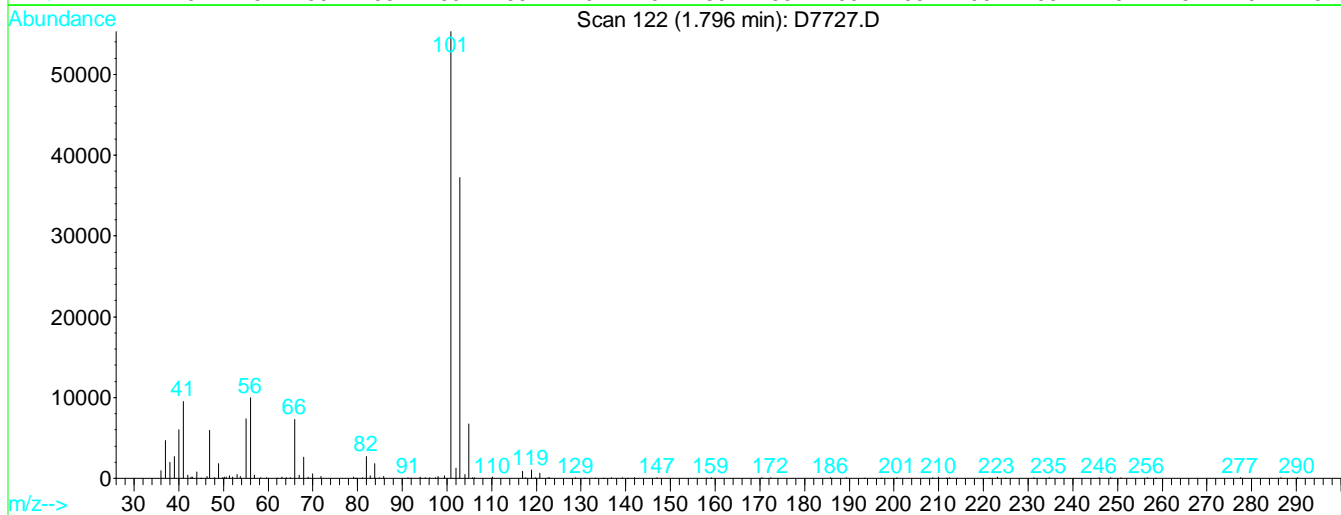
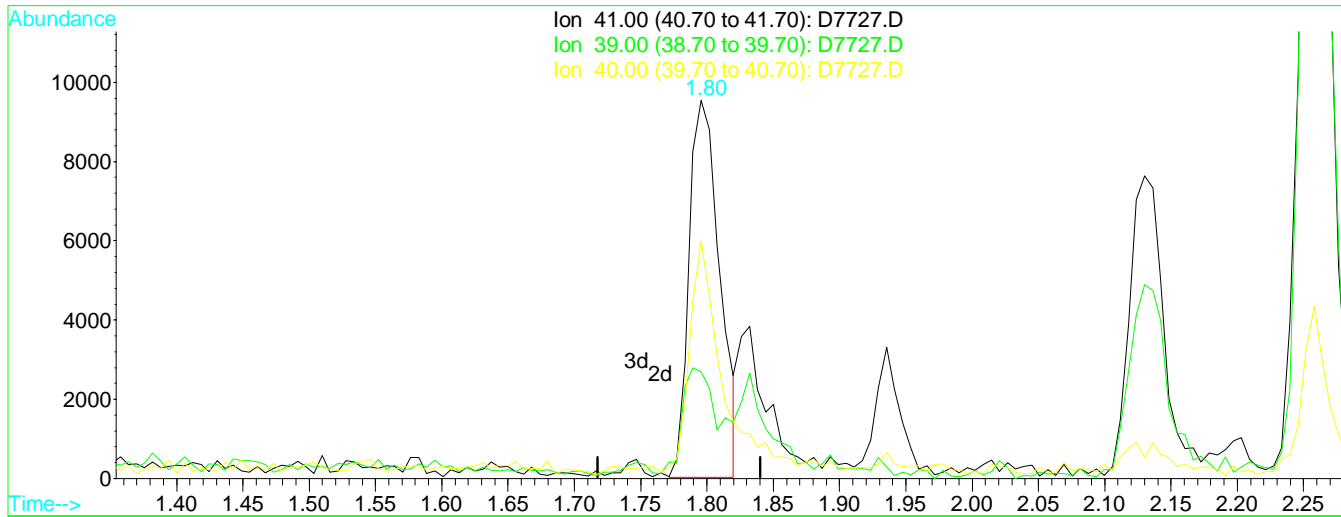
Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:22:29 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
 Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
 Sample : STD #5 - 20 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 24 17:35 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:33:51 2017  
 Response via : Multiple Level Calibration



TIC: D7727.D

(12) Acetonitrile

1.80min 106.38ug/L m

response 15333

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	28.20
40.00	57.00	62.73
0.00	0.00	0.00

Manual Integration:

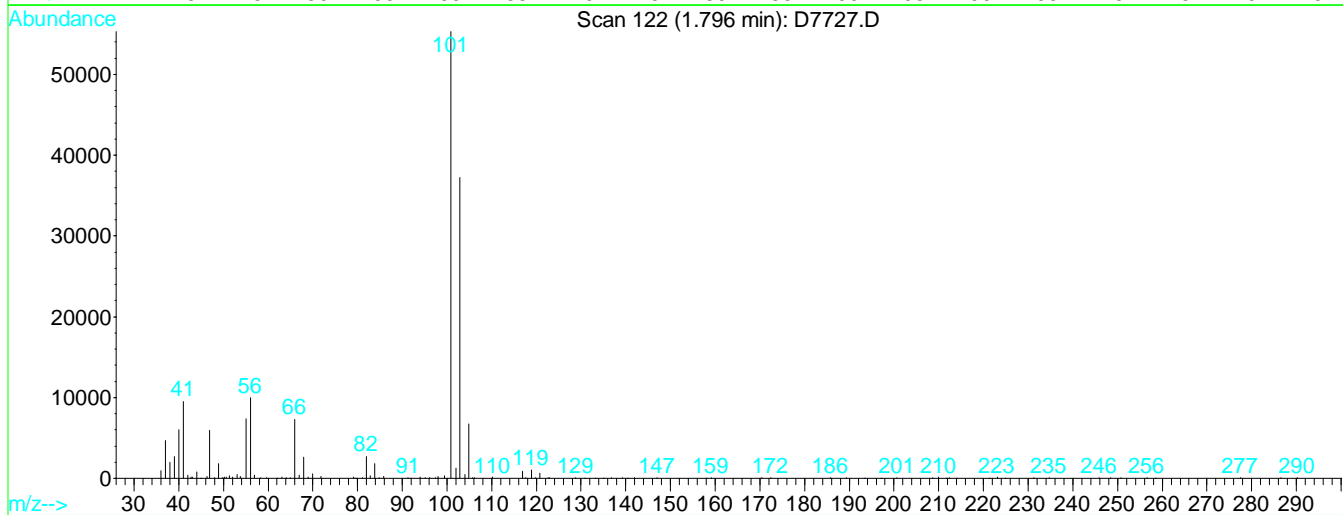
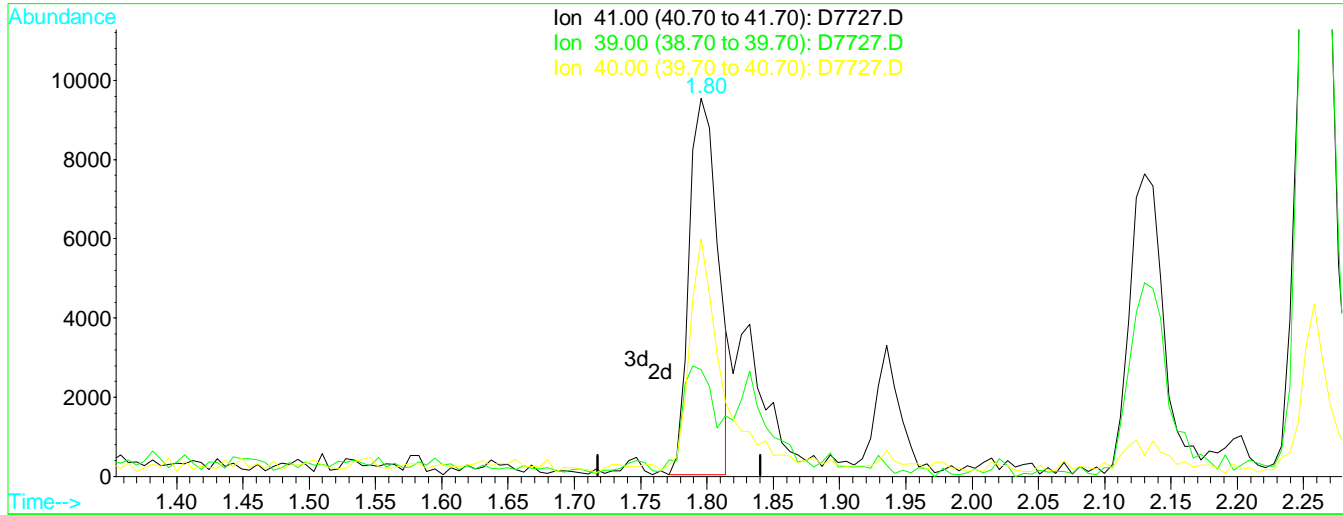
After

Poor integration.

08/24/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
Sample : STD #5 - 20 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 24 17:34 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:33:51 2017  
Response via : Multiple Level Calibration



TIC: D7727.D

(12) Acetonitrile  
1.80min 99.39ug/L  
response 14326

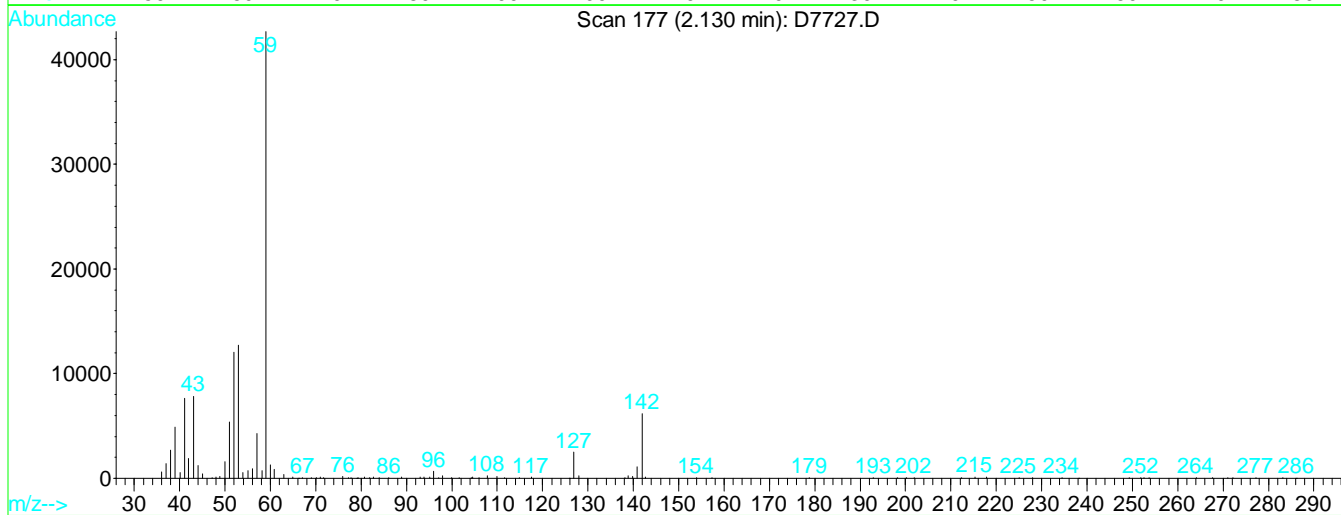
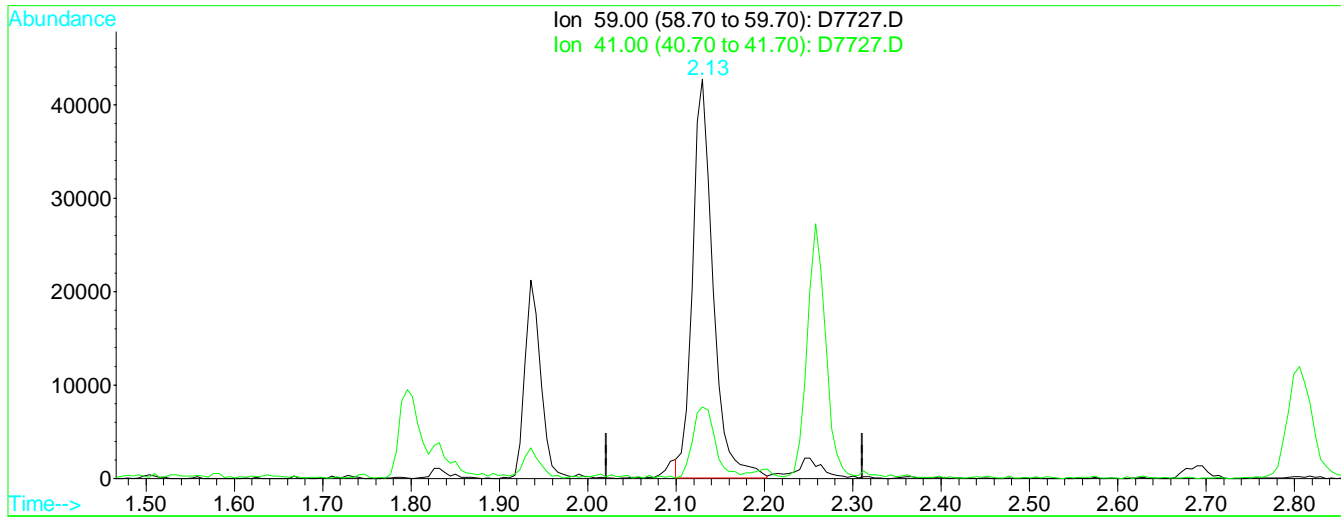
Manual Integration:  
Before

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	28.20
40.00	57.00	62.73
0.00	0.00	0.00

08/24/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
 Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
 Sample : STD #5 - 20 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 24 17:35 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:33:51 2017  
 Response via : Multiple Level Calibration



TIC: D7727.D

(18) TBA

2.13min 401.26ug/L m

response 68480

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	17.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

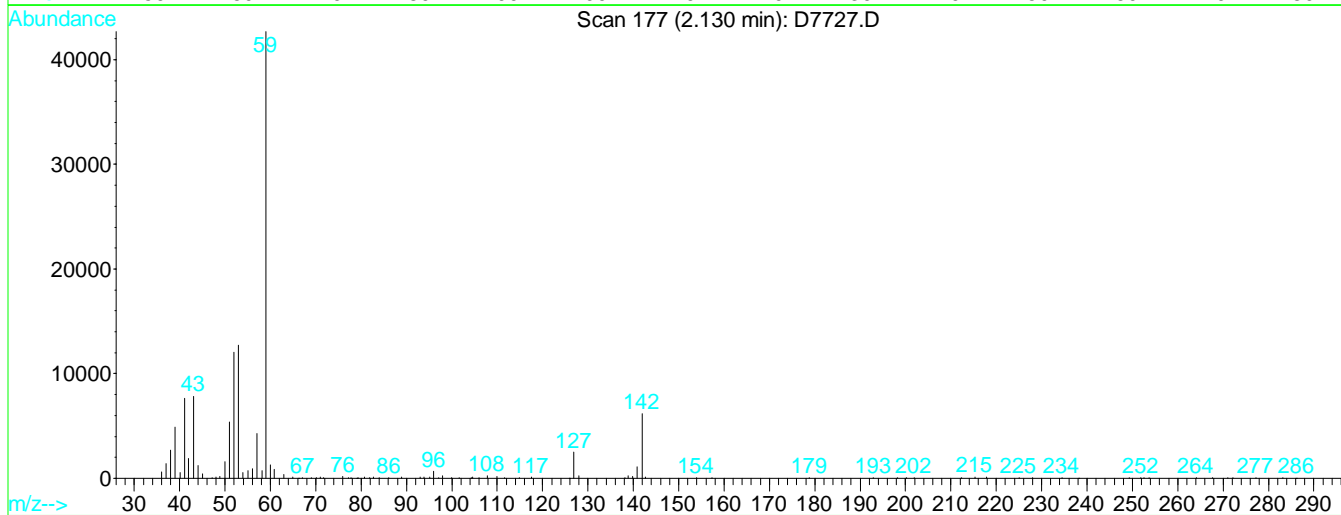
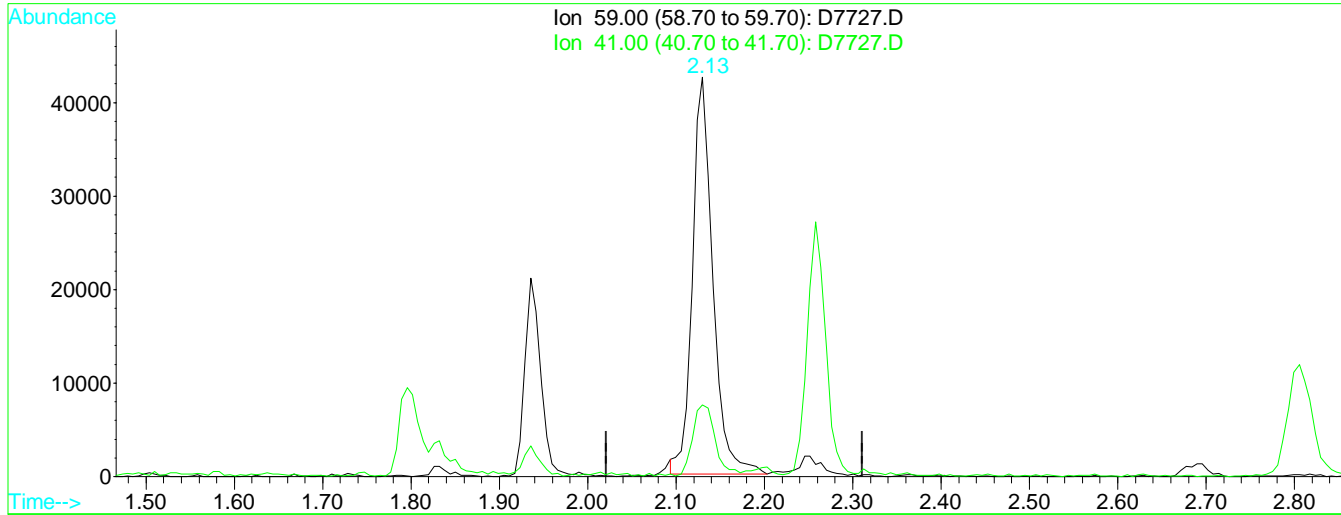
After

Poor integration.

08/24/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
Sample : STD #5 - 20 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 24 17:35 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:33:51 2017  
Response via : Multiple Level Calibration



TIC: D7727.D

(18) TBA

Manual Integration:

2.13min 397.29ug/L

Before

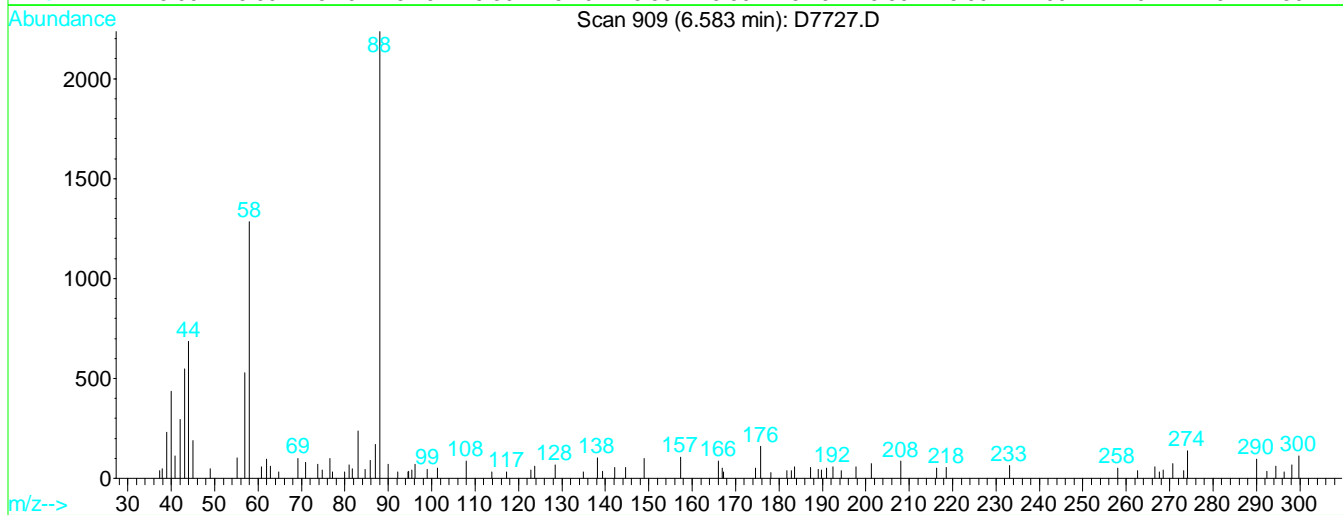
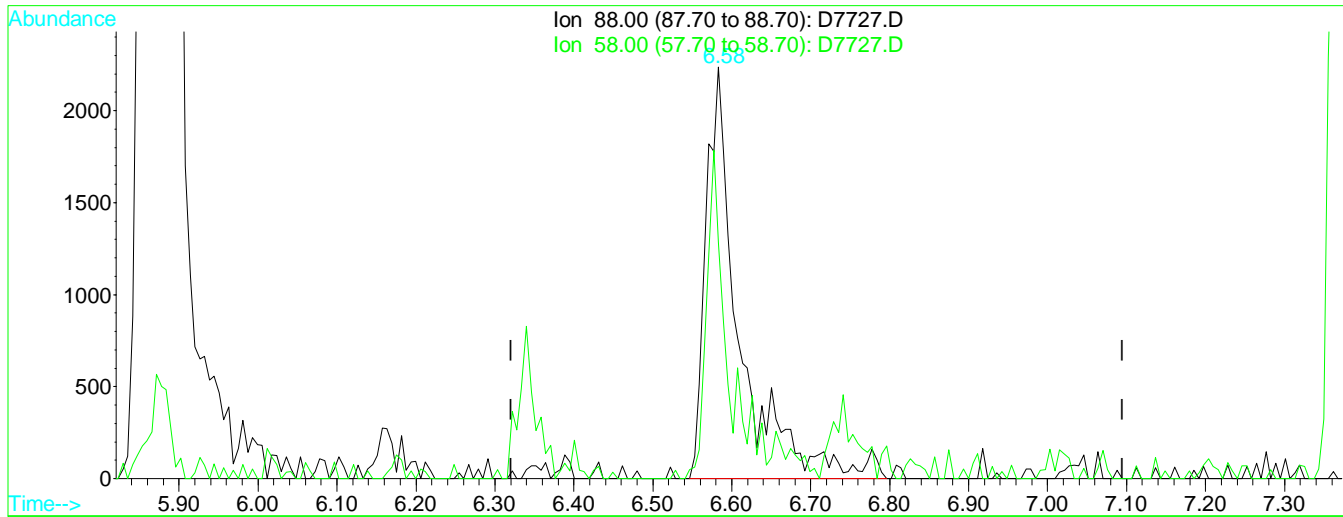
response 67803

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	17.91
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
Sample : STD #5 - 20 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 24 17:38 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:33:51 2017  
Response via : Single Level Calibration



TIC: D7727.D

(56) 1,4-Dioxane

6.58min 374.26ug/L m

response 6647

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	57.42
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

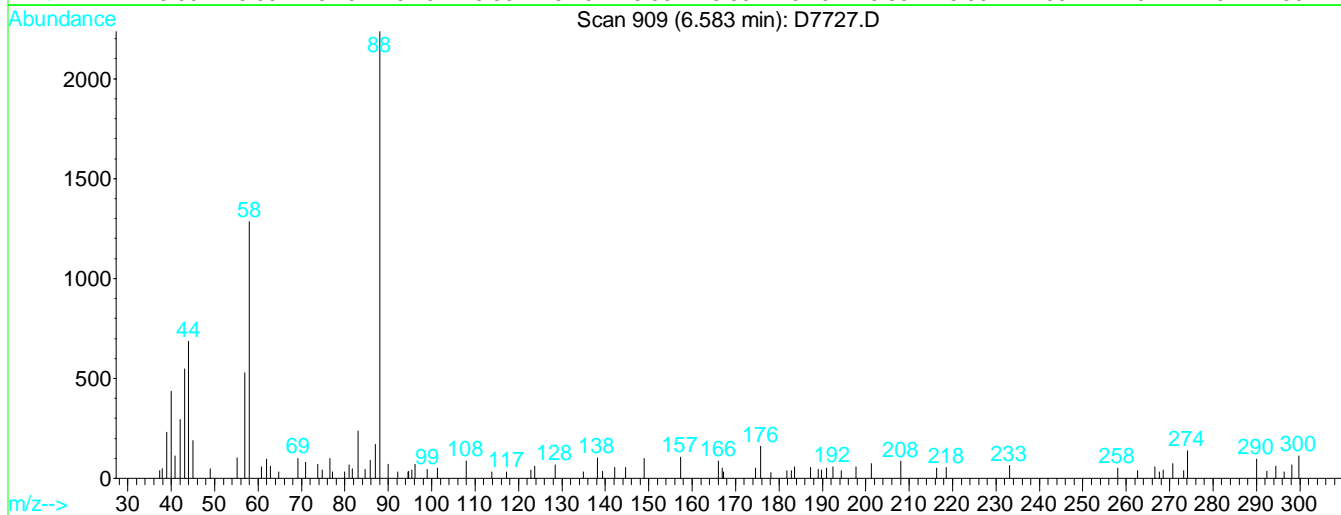
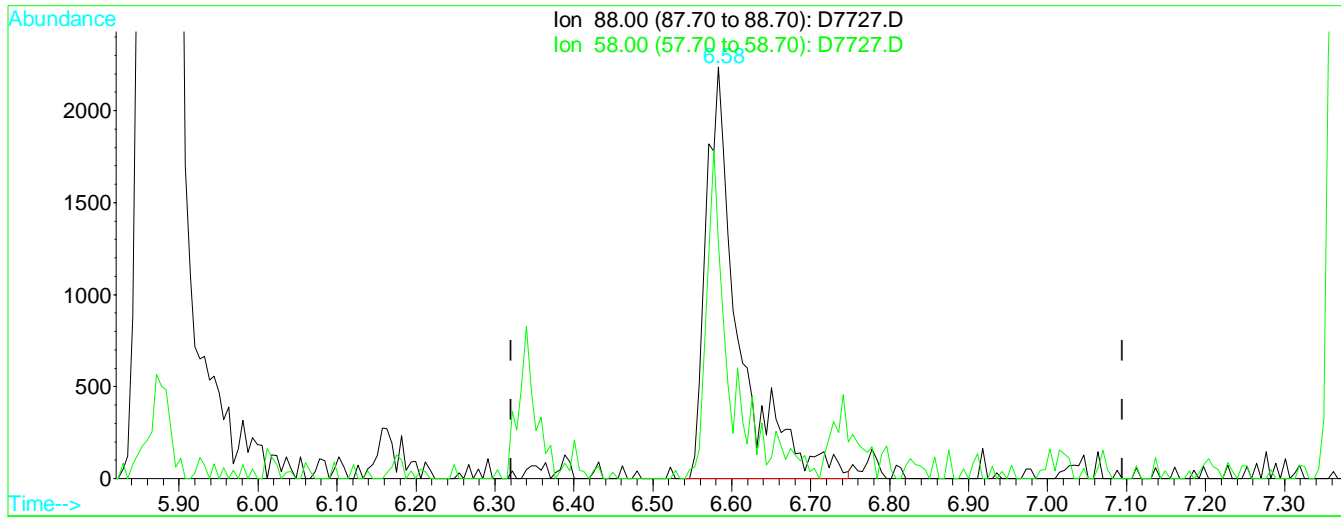
Split Peak.

08/24/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
Sample : STD #5 - 20 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 24 17:35 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:33:51 2017  
Response via : Single Level Calibration



TIC: D7727.D

(56) 1,4-Dioxane

Manual Integration:

6.58min 363.17ug/L

Before

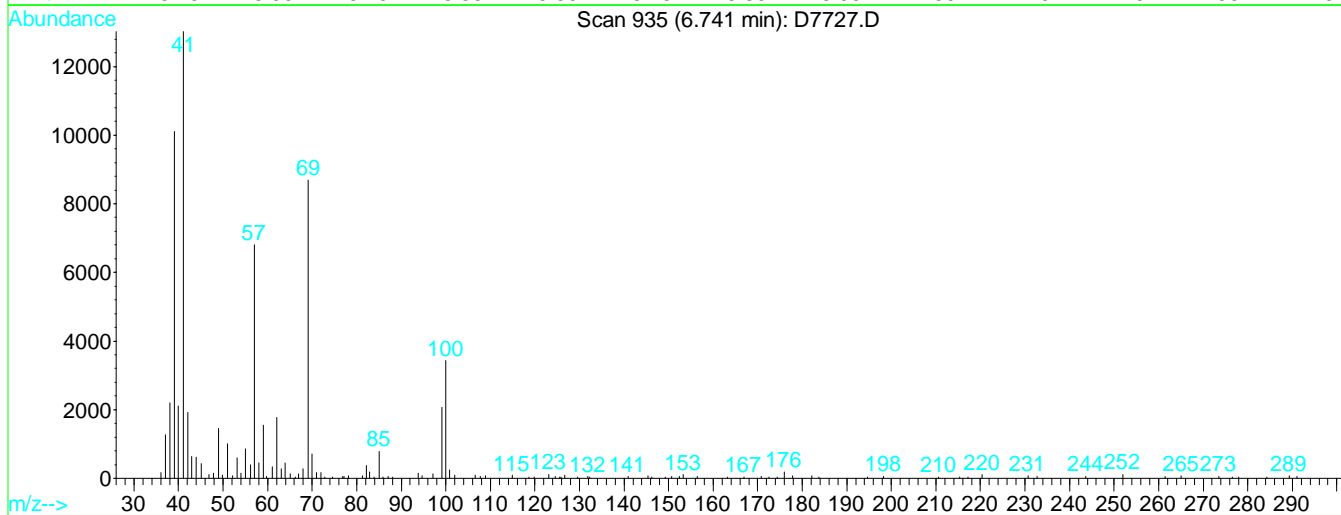
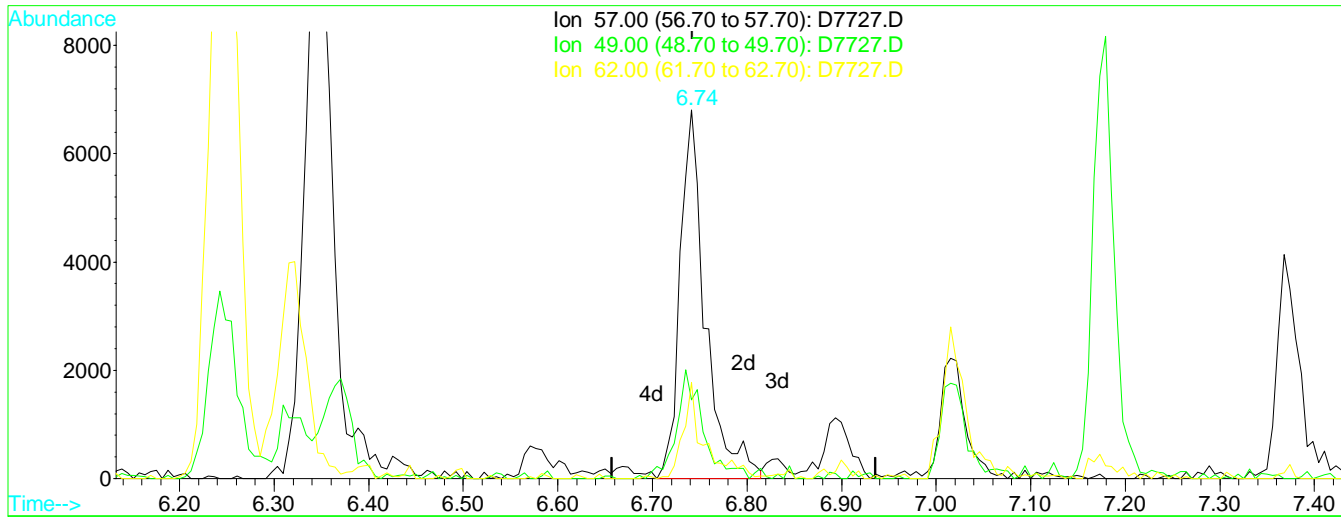
response 6450

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	57.42
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
Sample : STD #5 - 20 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 24 17:38 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:33:51 2017  
Response via : Multiple Level Calibration



TIC: D7727.D

(57) Epichlorohydrin

6.74min 89.42ug/L m

response 12678

Ion	Exp%	Act%
57.00	100	100
49.00	34.00	21.44
62.00	23.60	26.08
0.00	0.00	0.00

Manual Integration:

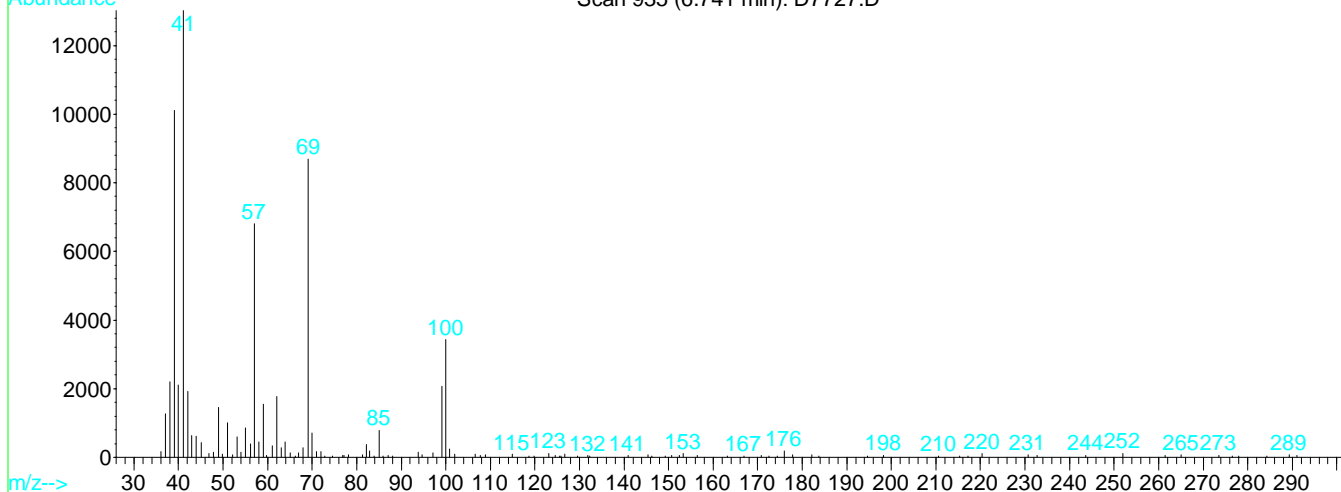
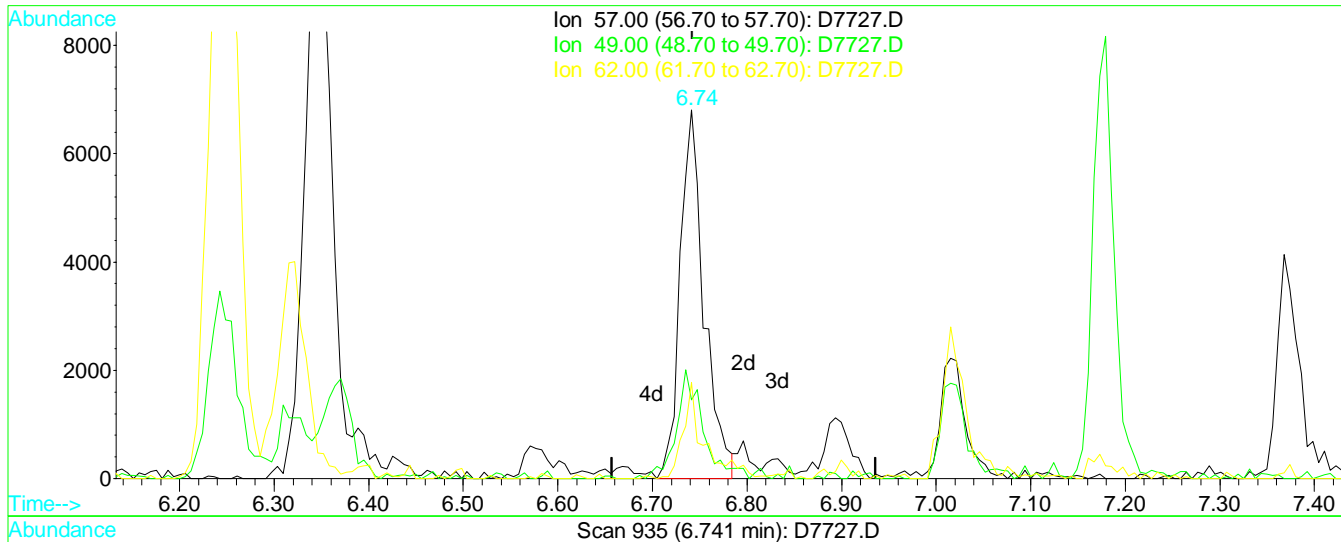
After

Split Peak.

08/24/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
 Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
 Sample : STD #5 - 20 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 24 17:38 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:33:51 2017  
 Response via : Multiple Level Calibration



TIC: D7727.D

Retention Time (min)	Response	Exp%	Act%	Integration Status
6.74	11993	100	100	Manual Integration: Before
49.00		34.00	21.44	
62.00		23.60	26.08	
0.00		0.00	0.00	

08/24/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
 Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
 Sample : STD #5 - 20 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 24 17:38 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:33:51 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	264338	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	355982	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	170031	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	193876	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	242656	95.04	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	190.08%#
43) surr1,1,2-dichloroethane-d	4.47	65	261481	94.55	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	189.10%#
65) SURRE3,Toluene-d8	7.89	98	692862	96.11	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	192.22%#
86) SURRE2,BFB	10.25	95	292883	91.97	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	183.94%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.11	85	86028	21.82	ug/L	98
3) Chloromethane	1.19	50	53632	20.15	ug/L	94
4) Vinyl Chloride	1.27	62	63905	19.82	ug/L	97
5) Bromomethane	1.44	94	36350	18.65	ug/L	99
6) Chloroethane	1.51	64	31326	19.66	ug/L	97
7) Freon 21	1.53	67	95688	19.92	ug/L	97
8) Freon 123	1.71	83	61833	20.54	ug/L	96
9) Freon 123a	1.73	67	48830	20.56	ug/L	91
10) Acrolein	1.79	56	18503	90.27	ug/L	89
11) Trichlorofluoromethane	1.79	101	77880	21.11	ug/L	97
12) Acetonitrile	1.80	41	15333m	106.38	ug/L	
13) 2-Propanol	1.83	45	36410	368.02	ug/L	92
14) Acetone	1.86	43	8644	17.00	ug/L	82
15) Diethyl Ether	1.94	59	25745	20.31	ug/L	91
16) 1,1-Dicethene	2.10	96	36991	20.31	ug/L	95
17) Iodomethane	2.11	142	56543	19.10	ug/L	93
18) TBA	2.13	59	68480m	401.26	ug/L	
19) Acrylonitrile	2.14	53	55392	100.93	ug/L	99
20) Methylene Chloride	2.20	84	39787	20.56	ug/L	96
21) Freon 113	2.25	101	43405	20.21	ug/L	96
22) Methyl Acetate	2.25	43	32761	20.07	ug/L	98
23) Allyl Chloride	2.26	76	16721	22.30	ug/L	100
24) Carbon Disulfide	2.31	76	114390	20.00	ug/L	98
25) trans-1,2-Dichloroethene	2.69	96	40792	21.02	ug/L	99
26) Methyl-t-Butyl Ether	2.81	73	105292	21.11	ug/L	98
27) 1,1-Dicethane	2.90	63	63613	20.82	ug/L	95
28) Propionitrile	2.92	54	19697	99.71	ug/L	90
29) Vinyl Acetate	3.09	43	69334	19.73	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.26	53	53921	20.71	ug/L	93
31) 2-Butanone	3.37	43	11290	17.03	ug/L	94
32) Methacrylonitrile	3.45	67	12574	19.53	ug/L #	87
33) cis-1,2-Dichloroethene	3.47	96	42900	20.70	ug/L	86
34) Bromochloromethane	3.64	128	23521	20.01	ug/L	94
35) Chloroform	3.72	83	72986	20.68	ug/L	99
36) 2,2-Dichloropropane	3.79	77	67088	20.24	ug/L	97
37) Ethyl Acetate	3.82	43	57312	40.63	ug/L	96
38) Tetrahydrofuran	4.14	42	7893	19.70	ug/L	84
39) 1,1,1-Trichloroethane	4.73	97	72071	21.03	ug/L	99
42) Iso-Butyl Alcohol	3.96	42	14420	359.66	ug/L #	88

(#) = qualifier out of range (m) = manual integration  
 D7727.D W082417.M Thu Aug 24 17:39:52 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
 Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
 Sample : STD #5 - 20 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 24 17:38 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:33:51 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-Dichloroethane	4.59	64	18607	19.08	ug/L	95
45) 2-Methyl-1,3-Dioxolane	4.82	73	21749	92.14	ug/L	91
46) 1,1-Dichloropropene	5.08	75	53535	20.77	ug/L	92
47) Cyclohexane	5.16	56	53060	20.05	ug/L	92
48) Carbontetrachloride	5.31	119	58880	20.54	ug/L	97
49) Benzene	5.40	78	144797	20.75	ug/L	100
50) Isopropyl Acetate	5.41	43	65360	19.21	ug/L	98
51) Dibromomethane	6.17	93	29478	19.98	ug/L	93
52) 1,2-Dicloropropane	6.24	63	34955	19.40	ug/L	98
53) n-Heptane	6.35	43	37221	19.15	ug/L	98
54) Trichloroethene	6.32	130	46450	20.12	ug/L	98
55) Bromodichloromethane	6.36	83	55704	20.19	ug/L	98
56) 1,4-Dioxane	6.58	88	6647m	374.26	ug/L	
57) Epichlorohydrin	6.74	57	12678m	89.42	ug/L	
58) Methyl Methacrylate	6.75	69	23386	19.44	ug/L	94
59) Methylcyclohexane	6.90	55	41037	18.84	ug/L	96
60) 2-Chloroethylvinyl Ether	7.02	63	20050	17.94	ug/L	96
61) cis-1,3-Dichloropropene	7.18	75	63943	19.94	ug/L	95
62) 4-Methyl-2-pentanone	7.37	43	29610	18.53	ug/L	99
63) trans-1,3-Dichloropropene	7.66	75	60512	20.86	ug/L	99
64) 1,1,2-Trichloroethane	7.78	97	36152	20.59	ug/L	97
66) Toluene	7.96	91	162923	20.57	ug/L	99
68) 1,3-Dichloropropane	8.01	76	56821	19.96	ug/L	95
69) Ethyl Methacrylate	8.20	69	45083	19.55	ug/L	90
70) Dibromochloromethane	8.21	129	45490	19.41	ug/L	98
71) 2-Hexanone	8.26	43	20086	17.71	ug/L	97
72) 1,2-Dibromoethane	8.43	107	40349	19.65	ug/L	98
73) n-Butyl Acetate	8.63	43	49984	19.04	ug/L	97
74) Tetrachloroethene	8.63	164	40306	19.86	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.16	131	41496	19.56	ug/L	93
76) Chlorobenzene	9.22	112	110125	19.90	ug/L	97
77) Ethylbenzene	9.44	106	56261	19.86	ug/L	93
78) Bromoform	9.61	173	28929	18.38	ug/L	98
79) (m+p)Xylene	9.61	106	139935	39.46	ug/L	95
80) o-Xylene	9.94	106	70731	20.73	ug/L	95
81) Cyclohexanone	9.84	55	25272	386.81	ug/L	94
82) Styrene	9.87	104	111402	20.43	ug/L	100
83) Amyl Acetate	9.99	43	72017	19.68	ug/L	96
84) trans-1,4-Dichloro-2-Buten	10.11	75	12779	16.13	ug/L	88
85) Isopropylbenzene	10.25	105	183059	21.03	ug/L	97
88) 1,1,2,2-Tetrachloroethane	9.92	83	45057	19.45	ug/L	98
89) 1,2,3-Trichloropropane	10.04	75	33022	18.89	ug/L	97
90) Bromobenzene	10.39	156	58200	20.25	ug/L	98
91) n-Propylbenzene	10.60	91	199195	19.38	ug/L	99
92) 2-Chlorotoluene	10.65	91	118038	19.75	ug/L	95
93) 4-Chlorotoluene	10.71	91	124372	19.35	ug/L	98
94) 1,3,5-Trimethylbenzene	10.87	105	143826	20.17	ug/L	98
95) tert-Butylbenzene	11.07	119	124684	20.10	ug/L	96
96) 1,2,4-Trimethylbenzene	11.16	105	148023	19.35	ug/L	98
97) sec-Butylbenzene	11.24	105	180213	20.39	ug/L	96
98) 1,3-Dclbenz	11.26	146	99526	20.36	ug/L	100
99) 1,4-Dclbenz	11.31	146	102088	20.86	ug/L	99
100) p-Isopropyltoluene	11.41	119	148692	20.41	ug/L	98
101) 1,2-Dclbenz	11.58	146	97446	19.93	ug/L	98

(#) = qualifier out of range (m) = manual integration  
 D7727.D W082417.M Thu Aug 24 17:39:53 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D Vial: 10  
 Acq On : 24 Aug 2017 12:00 pm Operator: D.Lipani  
 Sample : STD #5 - 20 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 24 17:38 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:33:51 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

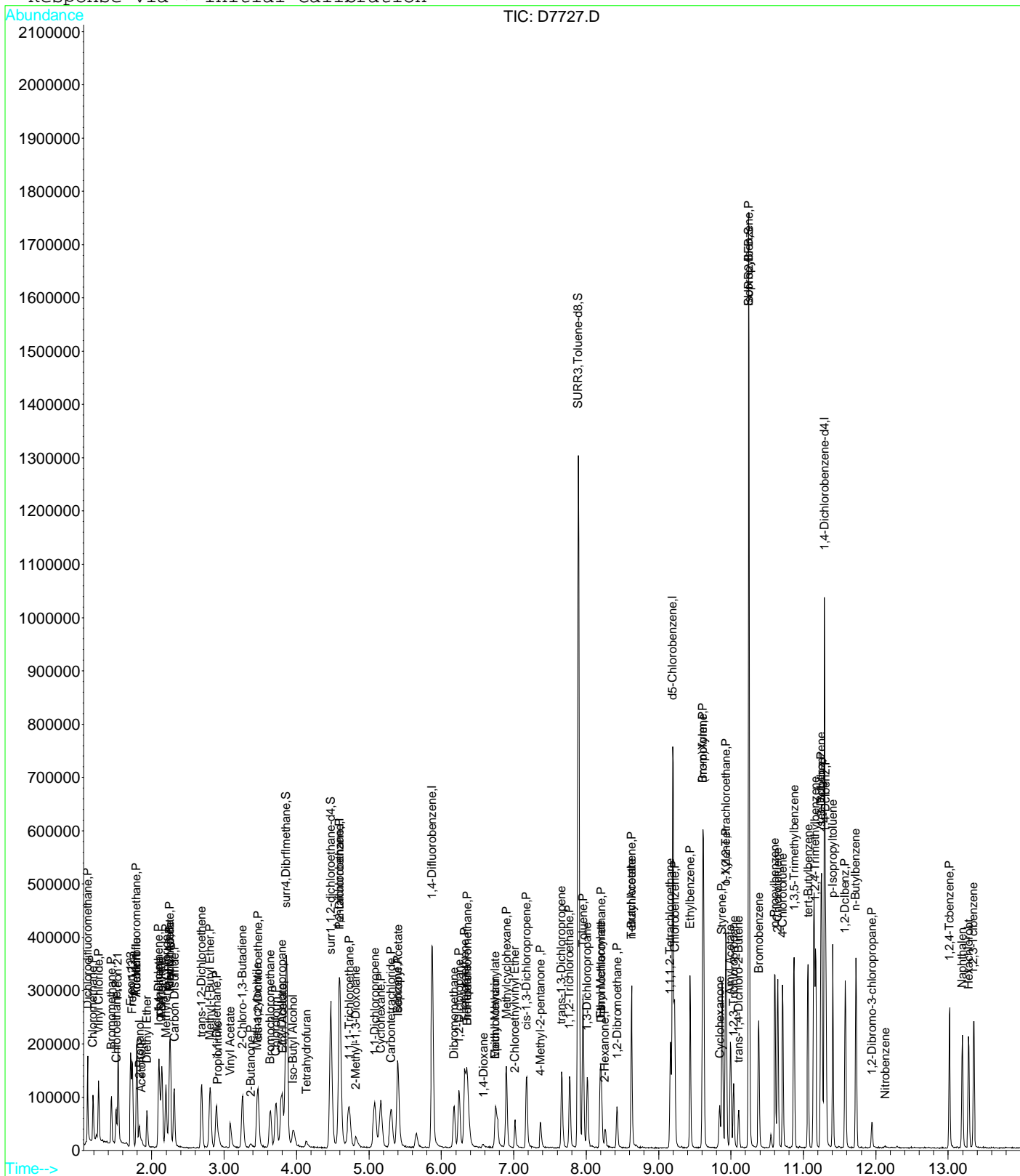
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.72	91	141971	21.14	ug/L	96
103) 1,2-Dibromo-3-chloropropan	11.94	75	8042	18.86	ug/L	96
104) Nitrobenzene	12.13	77	920	30.45	ug/L	96
105) 1,2,4-Tcbenzene	13.02	180	64929	19.28	ug/L	100
106) Naphthalen	13.20	128	124704	19.58	ug/L	98
107) Hexachlorobt	13.29	225	31470	19.07	ug/L	97
108) 1,2,3-Tclbenzene	13.35	180	58280	20.11	ug/L	98

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7727.D  
Acq On : 24 Aug 2017 12:00 pm  
Sample : STD #5 - 20 PPB  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 24 17:38 2017

Vial: 10  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

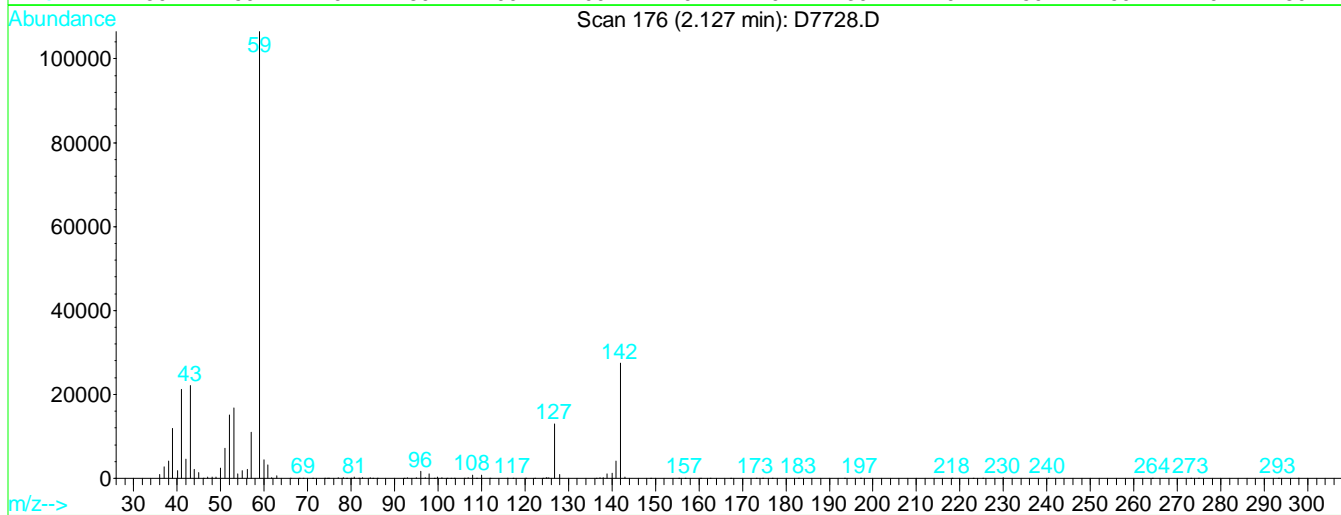
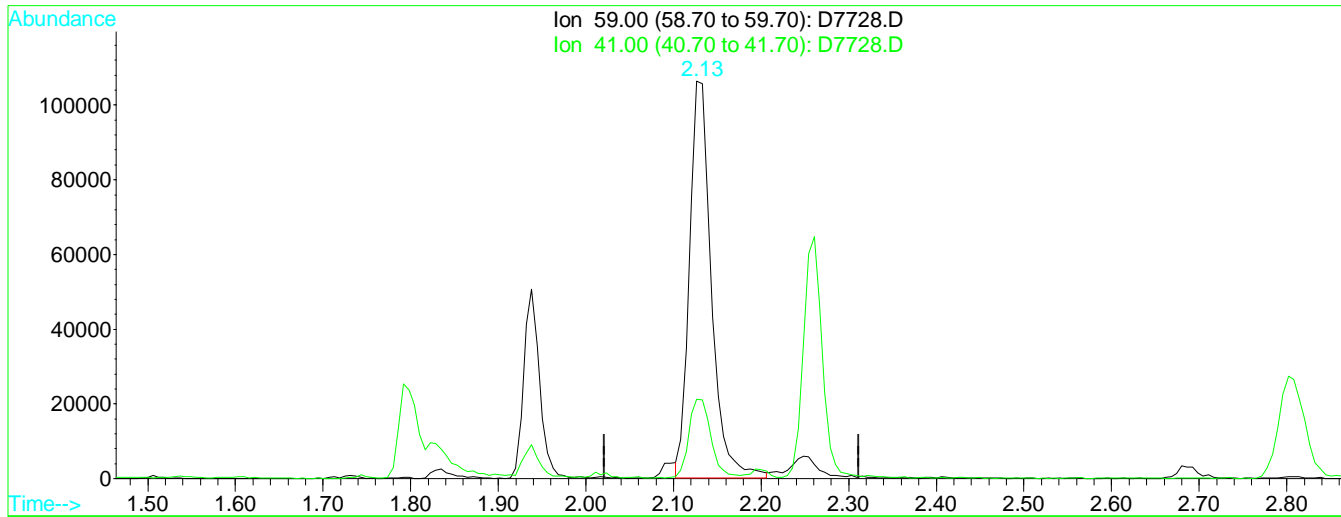
Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:33:51 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7728.D Vial: 11  
Acq On : 24 Aug 2017 12:27 pm Operator: D.Lipani  
Sample : STD #6 - 50 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 24 17:10 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:09:17 2017  
Response via : Multiple Level Calibration



TIC: D7728.D

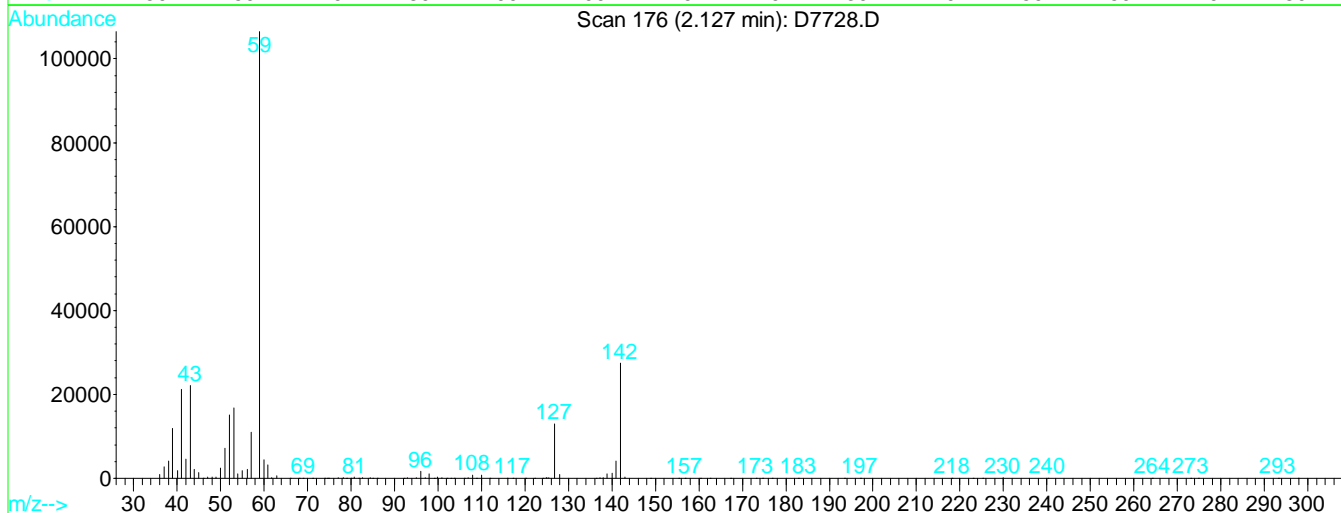
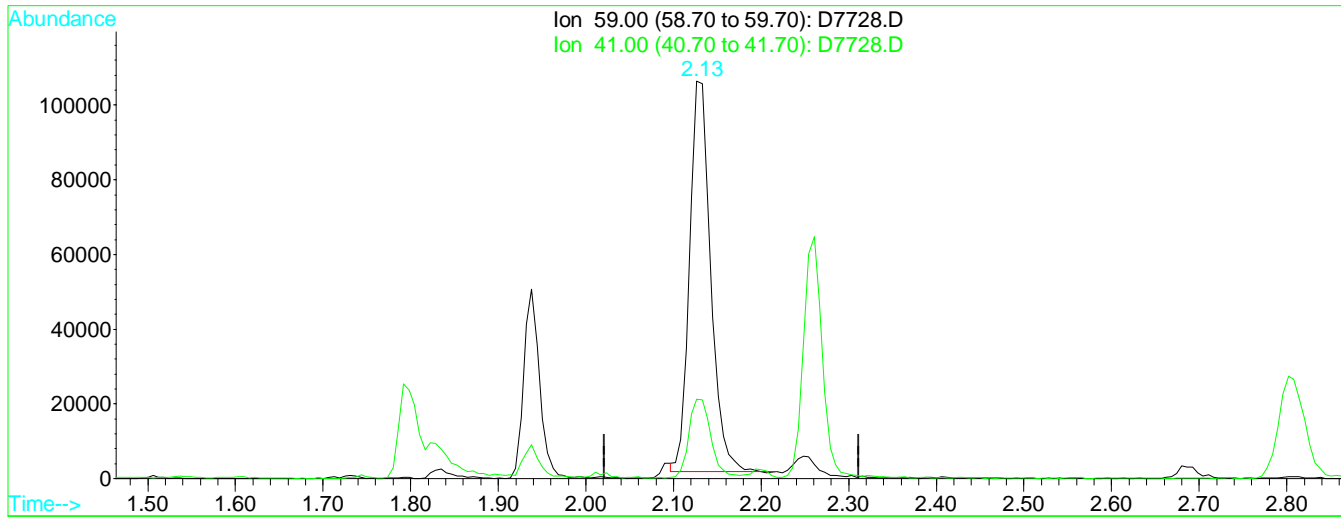
(18) TBA	Manual Integration:	
2.13min 1008.34ug/L m	After	
response 184921	Poor integration.	
Ion	Exp%	Act%
59.00	100	100
41.00	19.90	19.91
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7728.D Vial: 11  
Acq On : 24 Aug 2017 12:27 pm Operator: D.Lipani  
Sample : STD #6 - 50 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 24 17:09 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:09:17 2017  
Response via : Multiple Level Calibration



TIC: D7728.D

(18) TBA	Manual Integration:	
2.13min 955.92ug/L	Before	
response 175309		
Ion	Exp%	Act%
59.00	100	100
41.00	19.90	19.91
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7728.D Vial: 11  
 Acq On : 24 Aug 2017 12:27 pm Operator: D.Lipani  
 Sample : STD #6 - 50 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 24 17:10 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:09:17 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	283985	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	367671	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	169740	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	202862	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	136816	51.88	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	103.76%
43) surr1,1,2-dichloroethane-d	4.47	65	147237	51.55	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	103.10%
65) SURRE3,Toluene-d8	7.89	98	407623	54.75	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	109.50%
86) SURRE2,BFB	10.25	95	172254	54.18	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	108.36%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.12	85	200301	47.28	ug/L	100
3) Chloromethane	1.19	50	133002	46.51	ug/L	100
4) Vinyl Chloride	1.27	62	163786	47.29	ug/L	100
5) Bromomethane	1.44	94	93594	44.71	ug/L	100
6) Chloroethane	1.51	64	79561	46.45	ug/L	100
7) Freon 21	1.54	67	229323	44.43	ug/L	100
8) Freon 123	1.71	83	142714	44.14	ug/L	100
9) Freon 123a	1.73	67	115072	45.12	ug/L	100
10) Acrolein	1.79	56	56519	256.65	ug/L	100
11) Trichlorofluoromethane	1.79	101	188997	47.69	ug/L	100
12) Acetonitrile	1.79	41	37891	244.77	ug/L	100
13) 2-Propanol	1.83	45	106127	998.48	ug/L	100
14) Acetone	1.86	43	28503	52.17	ug/L	100
15) Diethyl Ether	1.94	59	63840	46.91	ug/L	100
16) 1,1-Dicethene	2.10	96	93841	47.97	ug/L	100
17) Iodomethane	2.11	142	160839	50.58	ug/L	100
18) TBA	2.13	59	184921m	1008.34	ug/L	
19) Acrylonitrile	2.14	53	144146	244.46	ug/L	100
20) Methylene Chloride	2.20	84	97957	47.12	ug/L	100
21) Freon 113	2.24	101	106167	46.01	ug/L	100
22) Methyl Acetate	2.25	43	88887	50.69	ug/L	100
23) Allyl Chloride	2.26	76	39816	49.42	ug/L	100
24) Carbon Disulfide	2.31	76	287796	46.84	ug/L	100
25) trans-1,2-Dichloroethene	2.69	96	99409	47.69	ug/L	100
26) Methyl-t-Butyl Ether	2.81	73	264774	49.42	ug/L	100
27) 1,1-Dicethane	2.89	63	157176	47.87	ug/L	100
28) Propionitrile	2.92	54	55311	260.62	ug/L	100
29) Vinyl Acetate	3.09	43	190830	50.56	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.25	53	143613	51.35	ug/L	100
31) 2-Butanone	3.36	43	35512	49.86	ug/L	100
32) Methacrylonitrile	3.45	67	33799	48.86	ug/L	100
33) cis-1,2-Dichloroethene	3.46	96	108919	48.93	ug/L	100
34) Bromochloromethane	3.64	128	61111	48.39	ug/L	100
35) Chloroform	3.71	83	180531	47.61	ug/L	100
36) 2,2-Dichloropropane	3.79	77	164214	46.12	ug/L	100
37) Ethyl Acetate	3.81	43	165118	108.95	ug/L	100
38) Tetrahydrofuran	4.13	42	22046	51.22	ug/L	100
39) 1,1,1-Trichloroethane	4.73	97	171612	46.61	ug/L	100
42) Iso-Butyl Alcohol	3.95	42	40823	985.82	ug/L	100

(#) = qualifier out of range (m) = manual integration  
 D7728.D W082417.M Thu Aug 24 17:13:08 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7728.D Vial: 11  
 Acq On : 24 Aug 2017 12:27 pm Operator: D.Lipani  
 Sample : STD #6 - 50 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 24 17:10 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:09:17 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-Dichloroethane	4.60	64	46189	45.85	ug/L	100
45) 2-Methyl-1,3-Dioxolane	4.82	73	60752	249.20	ug/L	100
46) 1,1-Dichloropropene	5.08	75	130919	49.17	ug/L	100
47) Cyclohexane	5.16	56	124380	45.50	ug/L	100
48) Carbontetrachloride	5.31	119	145798	49.26	ug/L	100
49) Benzene	5.40	78	341770	47.42	ug/L	100
50) Isopropyl Acetate	5.41	43	180534	51.38	ug/L	100
51) Dibromomethane	6.17	93	71414	46.87	ug/L	100
52) 1,2-Dicloropropane	6.25	63	88354	47.48	ug/L	100
53) n-Heptane	6.34	43	96236	47.93	ug/L	100
54) Trichloroethene	6.32	130	114663	48.09	ug/L	100
55) Bromodichloromethane	6.37	83	136730	47.97	ug/L	100
56) 1,4-Dioxane	6.58	88	19141	1043.47	ug/L	100
57) Epichlorohydrin	6.73	57	37758	257.84	ug/L	100
58) Methyl Methacrylate	6.75	69	60750	48.89	ug/L	100
59) Methylcyclohexane	6.90	55	100776	44.81	ug/L	100
60) 2-Chloroethylvinyl Ether	7.02	63	56931	49.33	ug/L	100
61) cis-1,3-Dichloropropene	7.18	75	157016	47.40	ug/L	100
62) 4-Methyl-2-pentanone	7.37	43	84927	51.45	ug/L	100
63) trans-1,3-Dichloropropene	7.66	75	147355	49.18	ug/L	100
64) 1,1,2-Trichloroethane	7.77	97	89993	49.62	ug/L	100
66) Toluene	7.96	91	383920	46.93	ug/L	100
68) 1,3-Dichloropropane	8.02	76	136096	47.89	ug/L	100
69) Ethyl Methacrylate	8.19	69	118120	51.32	ug/L	100
70) Dibromochloromethane	8.21	129	117749	50.33	ug/L	100
71) 2-Hexanone	8.26	43	62075	54.82	ug/L	100
72) 1,2-Dibromoethane	8.43	107	100616	49.09	ug/L	100
73) n-Butyl Acetate	8.63	43	139381	53.20	ug/L	100
74) Tetrachloroethene	8.62	164	99827	49.26	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.17	131	106794	50.42	ug/L	100
76) Chlorobenzene	9.22	112	263579	47.71	ug/L	100
77) Ethylbenzene	9.44	106	141759	50.12	ug/L	100
78) Bromoform	9.62	173	81965	52.17	ug/L	100
79) (m+p)Xylene	9.62	106	343492	97.03	ug/L	100
80) o-Xylene	9.93	106	174657	51.27	ug/L	100
81) Cyclohexanone	9.85	55	65973	1011.54	ug/L	100
82) Styrene	9.88	104	275113	50.54	ug/L	100
83) Amyl Acetate	9.99	43	190996	52.29	ug/L	100
84) trans-1,4-Dichloro-2-Buten	10.10	75	38886	49.17	ug/L	100
85) Isopropylbenzene	10.25	105	418072	48.11	ug/L	100
88) 1,1,2,2-Tetrachloroethane	9.93	83	122553	50.57	ug/L	100
89) 1,2,3-Trichloropropane	10.04	75	87230	47.69	ug/L	100
90) Bromobenzene	10.38	156	143196	47.61	ug/L	100
91) n-Propylbenzene	10.61	91	482012	44.83	ug/L	100
92) 2-Chlorotoluene	10.65	91	266757	42.65	ug/L	100
93) 4-Chlorotoluene	10.72	91	314112	46.70	ug/L	100
94) 1,3,5-Trimethylbenzene	10.87	105	347627	46.58	ug/L	100
95) tert-Butylbenzene	11.06	119	304092	46.86	ug/L	100
96) 1,2,4-Trimethylbenzene	11.17	105	362321	45.27	ug/L	100
97) sec-Butylbenzene	11.25	105	433204	46.84	ug/L	100
98) 1,3-Dclbenz	11.26	146	248269	48.55	ug/L	100
99) 1,4-Dclbenz	11.31	146	250786	48.97	ug/L	100
100) p-Isopropyltoluene	11.41	119	367094	48.15	ug/L	100
101) 1,2-Dclbenz	11.58	146	237305	46.38	ug/L	100

(#) = qualifier out of range (m) = manual integration  
 D7728.D W082417.M Thu Aug 24 17:13:10 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7728.D Vial: 11  
 Acq On : 24 Aug 2017 12:27 pm Operator: D.Lipani  
 Sample : STD #6 - 50 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 24 17:10 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Thu Aug 24 17:09:17 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

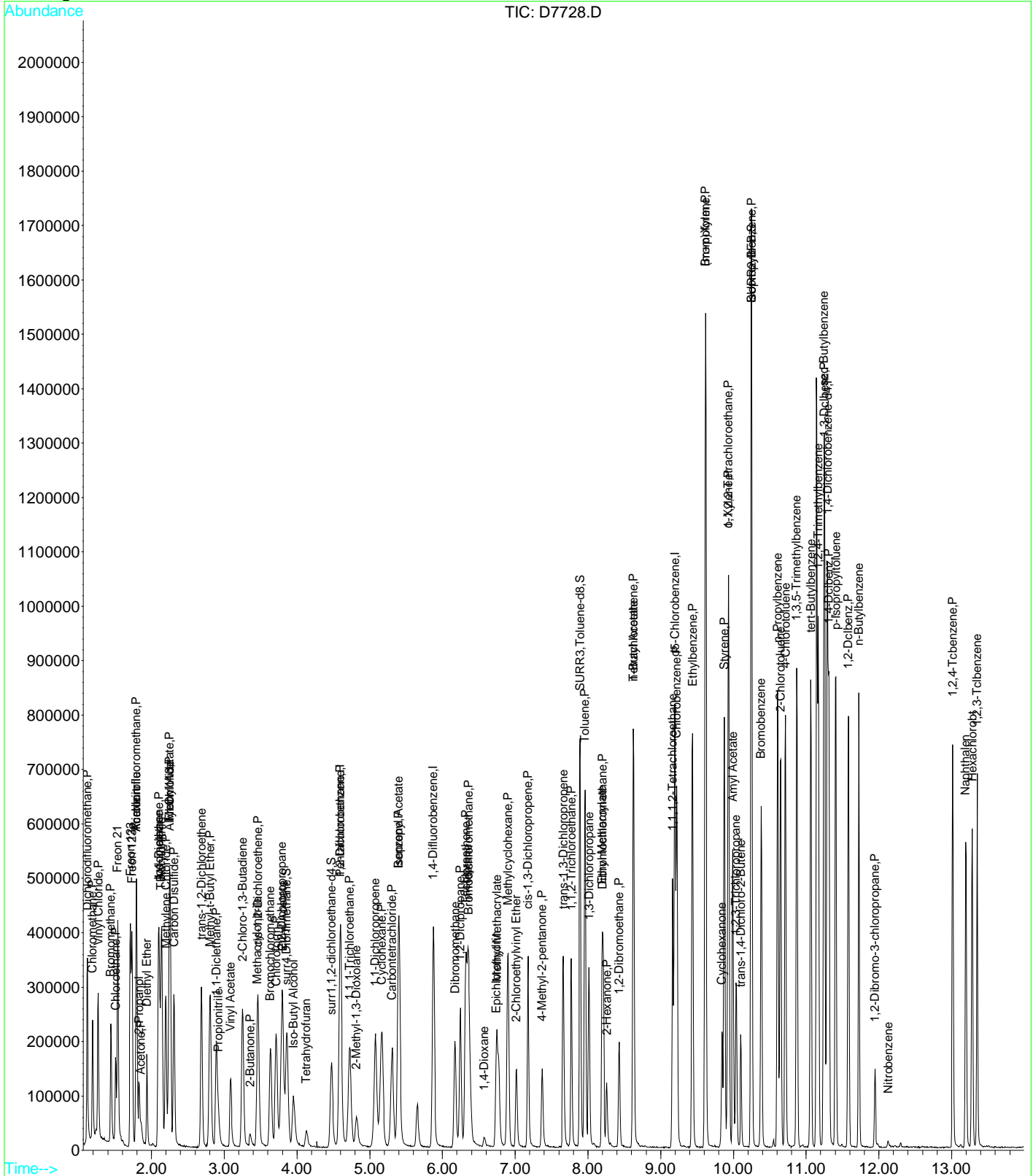
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.73	91	336578	47.90	ug/L	100
103) 1,2-Dibromo-3-chloropropan	11.95	75	23017	51.58	ug/L	100
104) Nitrobenzene	12.13	77	2493	78.86	ug/L	100
105) 1,2,4-Tcbenzene	13.02	180	167124	47.42	ug/L	100
106) Naphthalen	13.20	128	329254	49.42	ug/L	100
107) Hexachlorobt	13.28	225	83495	48.36	ug/L	100
108) 1,2,3-Tclbenzene	13.35	180	152991	50.45	ug/L	100

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7728.D  
Acq On : 24 Aug 2017 12:27 pm  
Sample : STD #6 - 50 PPB  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 24 17:10 2017

Vial: 11  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

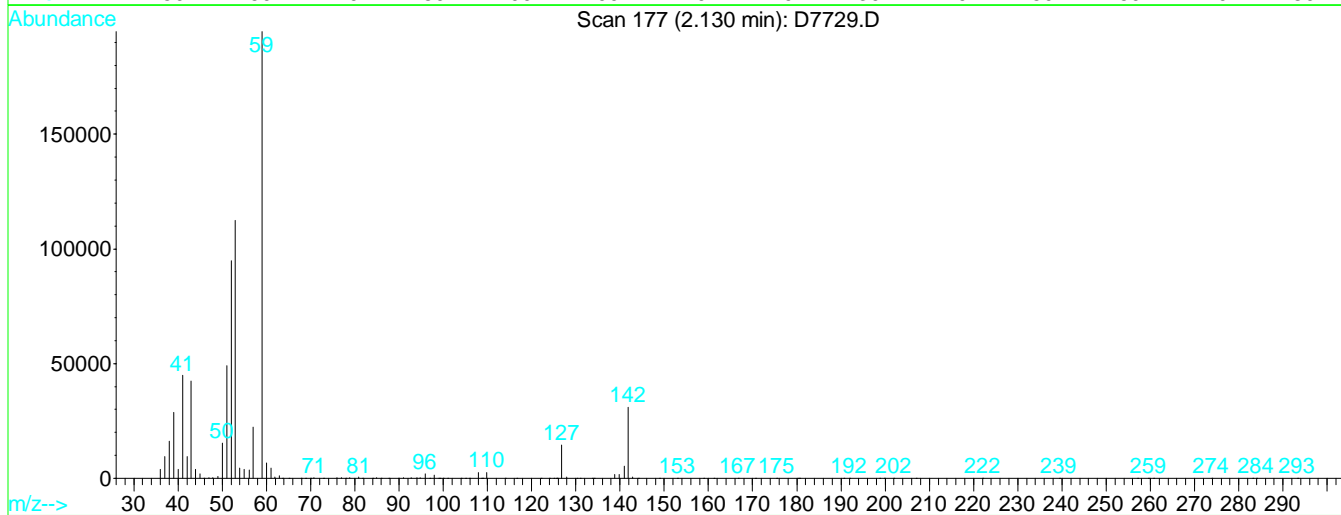
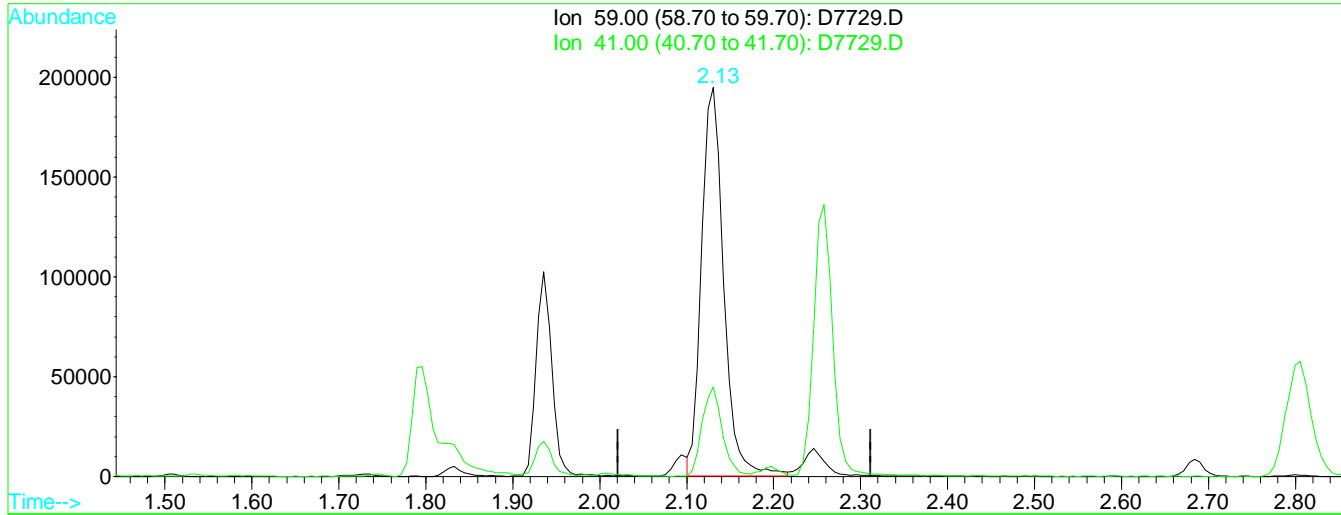
Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Thu Aug 24 17:13:00 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D Vial: 12  
Acq On : 24 Aug 2017 1:07 pm Operator: D.Lipani  
Sample : STD #7 - 100 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:02 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:54:27 2017  
Response via : Multiple Level Calibration



TIC: D7729.D

(18) TBA

2.13min 1827.18ug/L m

response 345570

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	23.04
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

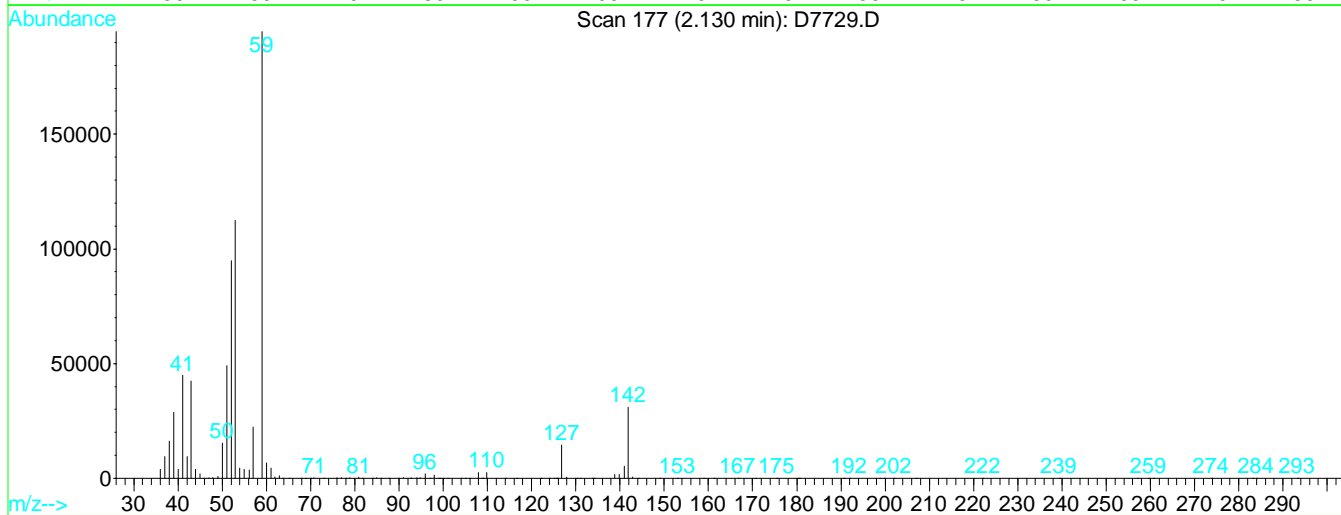
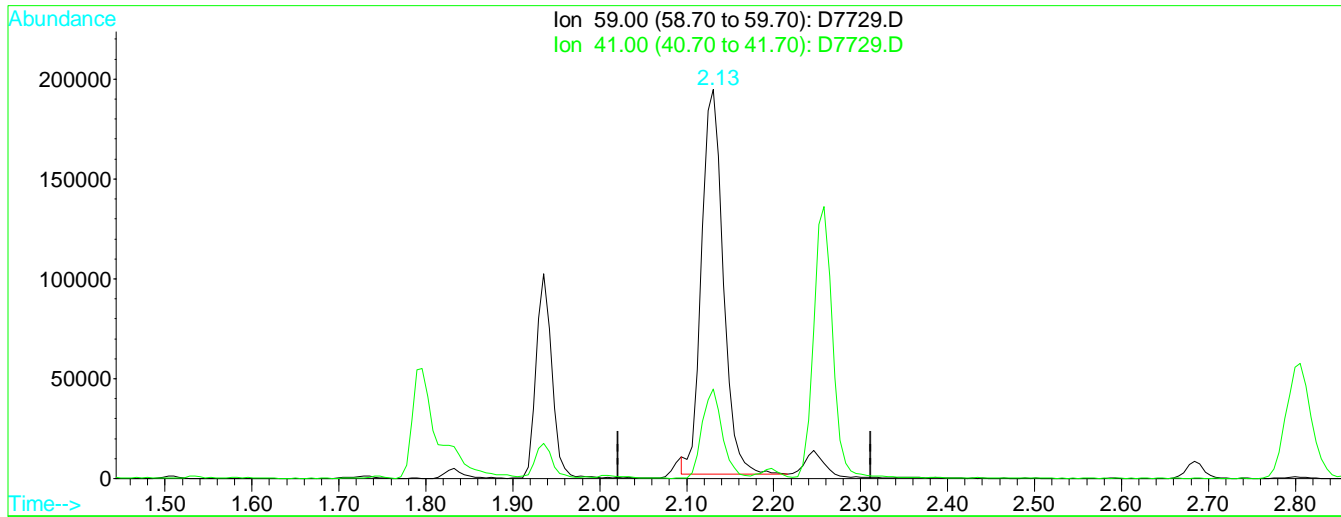
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D Vial: 12  
 Acq On : 24 Aug 2017 1:07 pm Operator: D.Lipani  
 Sample : STD #7 - 100 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:01 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:54:27 2017  
 Response via : Multiple Level Calibration

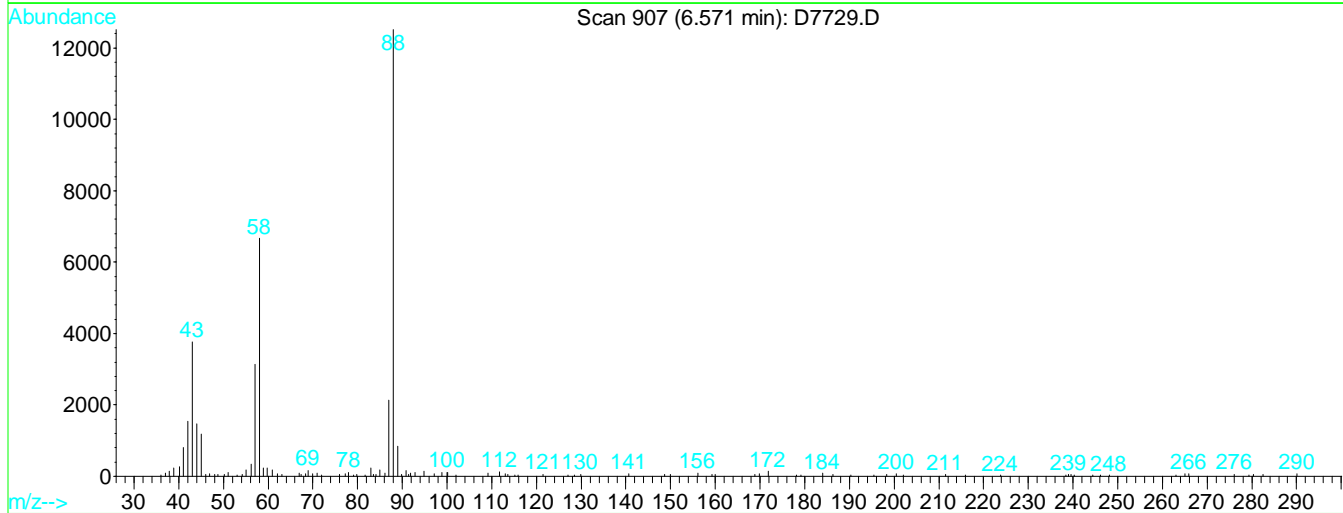
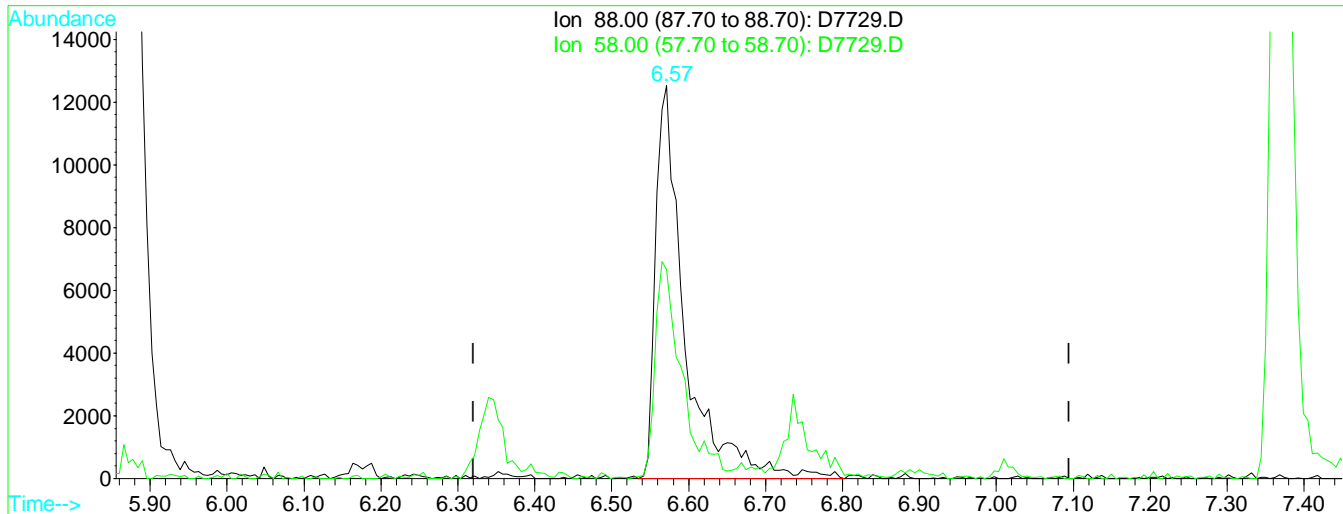


TIC: D7729.D

(18) TBA			Manual Integration:
2.13min	1763.90ug/L		Before
response	333602		
Ion	Exp%	Act%	08/25/17
59.00	100	100	
41.00	19.90	23.04	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D Vial: 12  
Acq On : 24 Aug 2017 1:07 pm Operator: D.Lipani  
Sample : STD #7 - 100 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:04 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:54:27 2017  
Response via : Single Level Calibration



TIC: D7729.D

(56) 1,4-Dioxane

Manual Integration:

6.57min 1773.87ug/L m

After

response 33375

Split Peak.

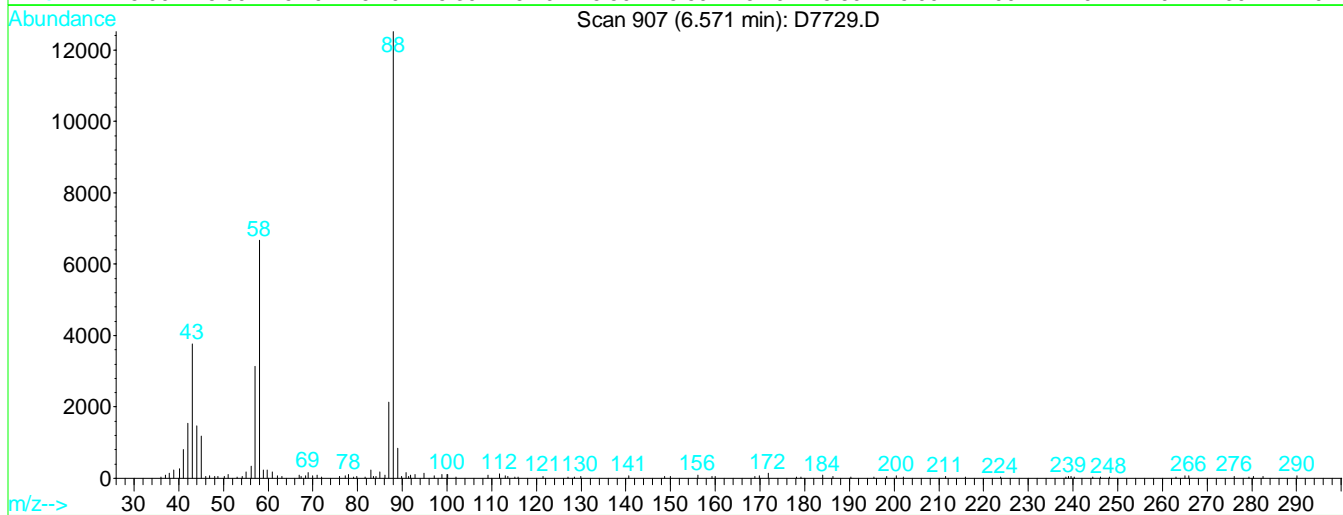
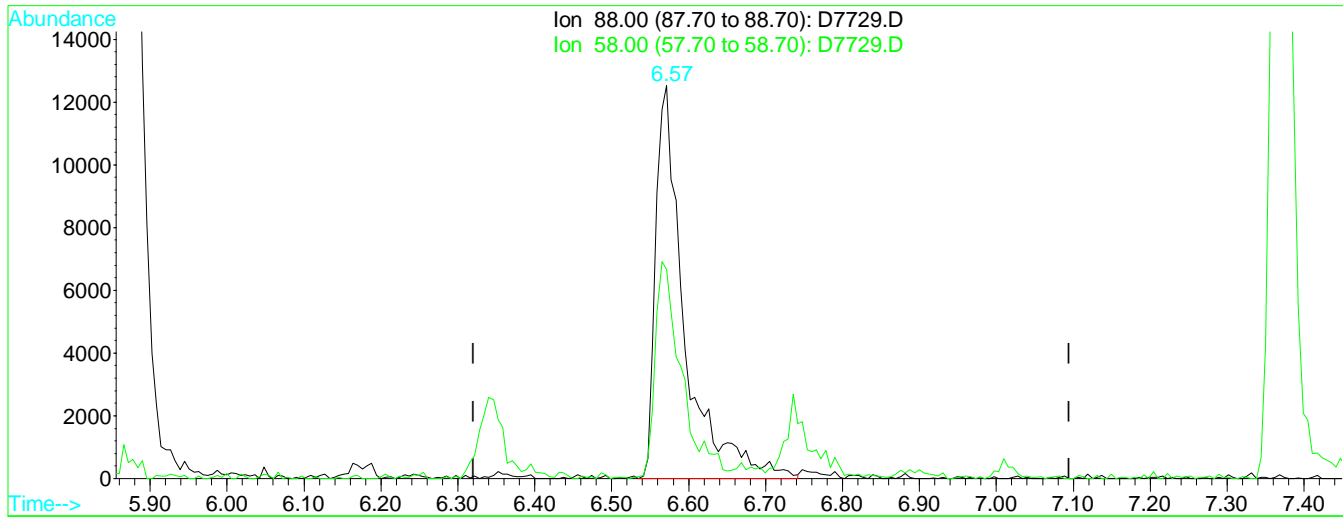
Ion	Exp%	Act%
88.00	100	100
58.00	49.20	53.24
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D Vial: 12  
Acq On : 24 Aug 2017 1:07 pm Operator: D.Lipani  
Sample : STD #7 - 100 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:02 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:54:27 2017  
Response via : Single Level Calibration



TIC: D7729.D

(56) 1,4-Dioxane

Manual Integration:

6.57min 1743.36ug/L

Before

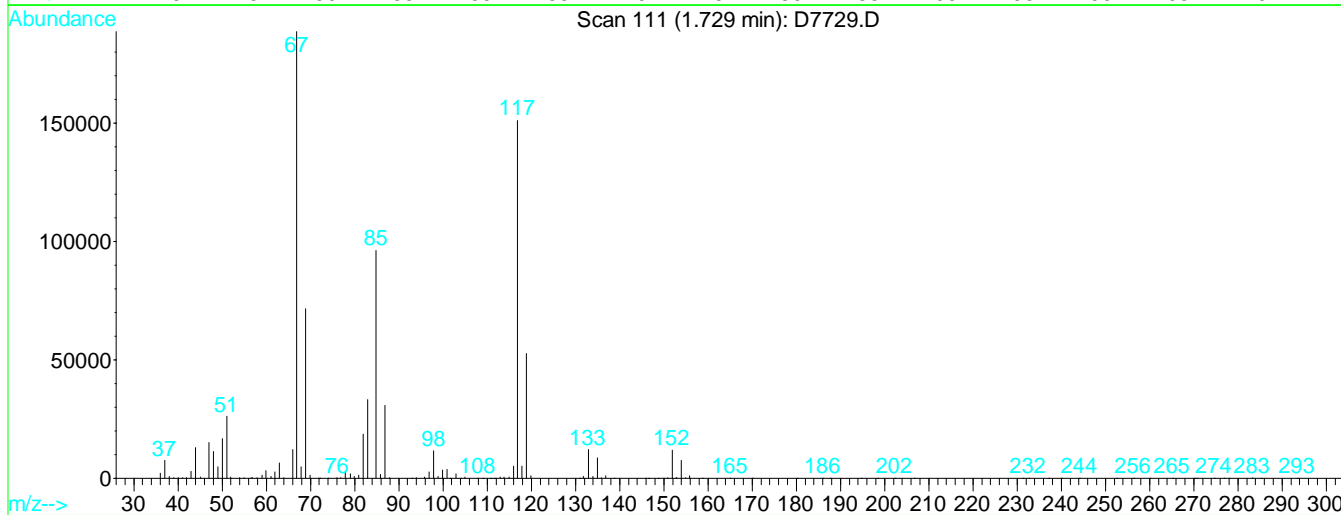
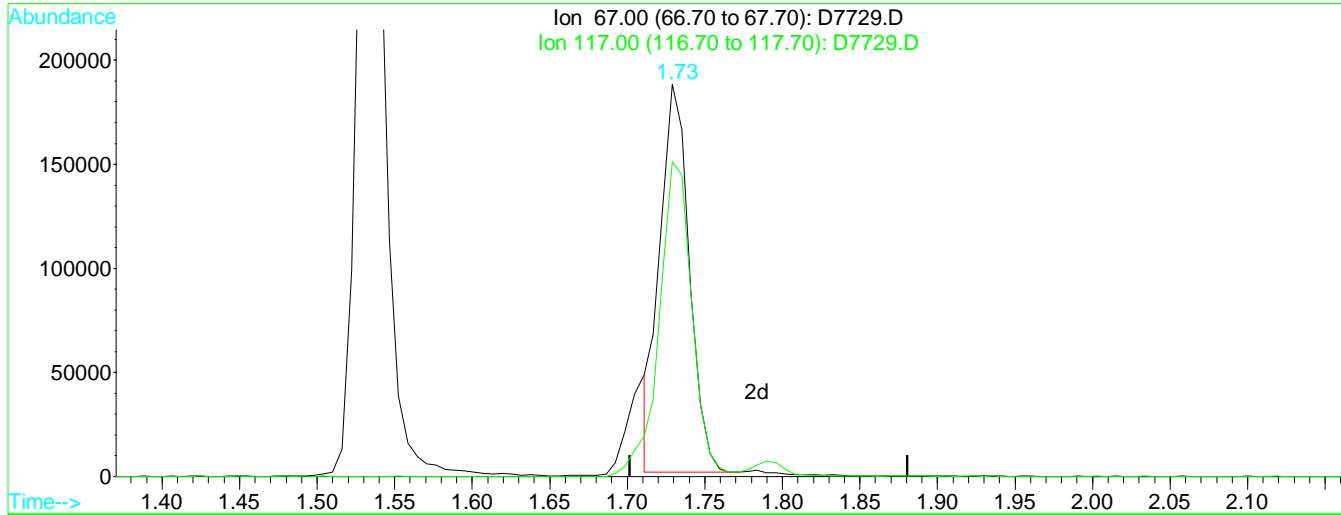
response 32801

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	53.24
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D Vial: 12  
Acq On : 24 Aug 2017 1:07 pm Operator: D.Lipani  
Sample : STD #7 - 100 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:01 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:54:27 2017  
Response via : Multiple Level Calibration



TIC: D7729.D

(9) Freon 123a  
1.73min 92.32ug/L  
response 245492

Manual Integration:  
Before

Ion	Exp%	Act%
67.00	100	100
117.00	81.00	80.14
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D Vial: 12  
 Acq On : 24 Aug 2017 1:07 pm Operator: D.Lipani  
 Sample : STD #7 - 100 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:04 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:54:27 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.59	168	295167	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	375628	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	175374	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.29	152	218231	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	334238	124.06	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	248.12%#
43) surr1,1,2-dichloroethane-d	4.47	65	357548	122.53	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	245.06%#
65) SURRE3,Toluene-d8	7.89	98	888073	116.76	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	233.52%#
86) SURRE2,BFB	10.25	95	413363	125.85	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	251.70%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.11	85	378071	85.87	ug/L	97
3) Chloromethane	1.19	50	260732	89.19	ug/L	97
4) Vinyl Chloride	1.26	62	363786	100.93	ug/L	95
5) Bromomethane	1.44	94	217021	99.91	ug/L	100
6) Chloroethane	1.50	64	171892	97.36	ug/L	99
7) Freon 21	1.53	67	470713	87.84	ug/L	99
8) Freon 123	1.71	83	317225	95.33	ug/L	97
9) Freon 123a	1.73	67	245492	92.32	ug/L	99
10) Acrolein	1.78	56	126425	541.45	ug/L	98
11) Trichlorofluoromethane	1.79	101	388867	96.56	ug/L	98
12) Acetonitrile	1.80	41	82796	515.58	ug/L	97
13) 2-Propanol	1.83	45	188555	1706.78	ug/L	97
14) Acetone	1.86	43	51821	93.78	ug/L	99
15) Diethyl Ether	1.94	59	129648	91.15	ug/L	96
16) 1,1-Dicethene	2.09	96	197404	97.06	ug/L	96
17) Iodomethane	2.11	142	398418	120.55	ug/L	99
18) TBA	2.13	59	345570m	1827.18	ug/L	
19) Acrylonitrile	2.14	53	285141	465.83	ug/L	93
20) Methylene Chloride	2.20	84	209284	96.87	ug/L	97
21) Freon 113	2.24	101	232296	99.98	ug/L	96
22) Methyl Acetate	2.25	43	182209	100.03	ug/L	97
23) Allyl Chloride	2.26	76	87419	104.40	ug/L	92
24) Carbon Disulfide	2.31	76	582484	93.64	ug/L	98
25) trans-1,2-Dichloroethene	2.68	96	211183	97.46	ug/L	96
26) Methyl-t-Butyl Ether	2.81	73	521446	93.64	ug/L	96
27) 1,1-Dicethane	2.89	63	325780	99.10	ug/L	96
28) Propionitrile	2.92	54	109868	498.07	ug/L	98
29) Vinyl Acetate	3.09	43	397988	101.89	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.25	53	301785	103.82	ug/L	95
31) 2-Butanone	3.35	43	74816	100.91	ug/L	95
32) Methacrylonitrile	3.44	67	71089	98.88	ug/L	90
33) cis-1,2-Dichloroethene	3.47	96	227984	98.53	ug/L	91
34) Bromochloromethane	3.63	128	126325	96.24	ug/L	97
35) Chloroform	3.71	83	372555	94.53	ug/L	94
36) 2,2-Dichloropropane	3.79	77	348428	96.96	ug/L	97
37) Ethyl Acetate	3.81	43	316839	200.47	ug/L	98
38) Tetrahydrofuran	4.13	42	42881	96.38	ug/L	91
39) 1,1,1-Trichloroethane	4.72	97	358404	93.66	ug/L	97
42) Iso-Butyl Alcohol	3.96	42	79241	1886.29	ug/L	96

(#) = qualifier out of range (m) = manual integration  
 D7729.D W082417.M Fri Aug 25 11:05:38 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D Vial: 12  
 Acq On : 24 Aug 2017 1:07 pm Operator: D.Lipani  
 Sample : STD #7 - 100 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:04 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:54:27 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-Dichloroethane	4.59	64	96543	93.81	ug/L	98
45) 2-Methyl-1,3-Dioxolane	4.81	73	116661	468.40	ug/L	99
46) 1,1-Dichloropropene	5.07	75	274555	100.89	ug/L	96
47) Cyclohexane	5.17	56	275564	98.61	ug/L	92
48) Carbontetrachloride	5.31	119	312351	103.29	ug/L	96
49) Benzene	5.40	78	691956	93.98	ug/L	96
50) Isopropyl Acetate	5.40	43	353199	97.21	ug/L	97
51) Dibromomethane	6.17	93	152290	97.84	ug/L	98
52) 1,2-Dicloropropane	6.25	63	184558	98.14	ug/L	97
53) n-Heptane	6.35	43	207516	100.80	ug/L	95
54) Trichloroethene	6.32	130	241772	99.25	ug/L	99
55) Bromodichloromethane	6.36	83	291710	100.18	ug/L	100
56) 1,4-Dioxane	6.57	88	33375m	1773.87	ug/L	
57) Epichlorohydrin	6.74	57	78798	524.15	ug/L	96
58) Methyl Methacrylate	6.75	69	119059	93.79	ug/L	93
59) Methylcyclohexane	6.90	55	225479	98.40	ug/L	98
60) 2-Chloroethylvinyl Ether	7.02	63	121019	102.64	ug/L	93
61) cis-1,3-Dichloropropene	7.17	75	332010	101.87	ug/L	99
62) 4-Methyl-2-pentanone	7.37	43	162575	96.41	ug/L	100
63) trans-1,3-Dichloropropene	7.66	75	307384	100.41	ug/L	99
64) 1,1,2-Trichloroethane	7.77	97	184748	99.71	ug/L	97
66) Toluene	7.96	91	738813	88.40	ug/L	95
68) 1,3-Dichloropropane	8.02	76	290104	98.80	ug/L	98
69) Ethyl Methacrylate	8.20	69	229877	97.00	ug/L	96
70) Dibromochloromethane	8.21	129	250088	103.70	ug/L	98
71) 2-Hexanone	8.26	43	120020	101.41	ug/L	99
72) 1,2-Dibromoethane	8.43	107	212363	100.29	ug/L	97
73) n-Butyl Acetate	8.63	43	271483	100.27	ug/L	99
74) Tetrachloroethene	8.63	164	211635	101.08	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.17	131	232513	106.25	ug/L	98
76) Chlorobenzene	9.22	112	522212	94.23	ug/L	96
77) Ethylbenzene	9.44	106	287300	98.32	ug/L	93
78) Bromoform	9.61	173	183580	113.08	ug/L	98
79) (m+p)Xylene	9.62	106	696570	190.44	ug/L	90
80) o-Xylene	9.94	106	359805	102.23	ug/L	95
81) Cyclohexanone	9.84	55	115184	1709.27	ug/L	96
82) Styrene	9.88	104	555361	98.74	ug/L	97
83) Amyl Acetate	9.99	43	365013	98.88	ug/L	97
84) trans-1,4-Dichloro-2-Buten	10.11	75	81450	99.52	ug/L	95
85) Isopropylbenzene	10.25	105	806321	89.80	ug/L	95
88) 1,1,2,2-Tetrachloroethane	9.93	83	248627	95.37	ug/L	98
89) 1,2,3-Trichloropropane	10.04	75	176991	89.95	ug/L	99
90) Bromobenzene	10.39	156	297994	92.10	ug/L	98
91) n-Propylbenzene	10.61	91	881549	76.21	ug/L	93
92) 2-Chlorotoluene	10.65	91	567624	84.36	ug/L	98
93) 4-Chlorotoluene	10.71	91	613448	84.78	ug/L	96
94) 1,3,5-Trimethylbenzene	10.87	105	665397	82.89	ug/L	96
95) tert-Butylbenzene	11.07	119	588581	84.31	ug/L	96
96) 1,2,4-Trimethylbenzene	11.17	105	716081	83.20	ug/L	94
97) sec-Butylbenzene	11.24	105	847442	85.15	ug/L	95
98) 1,3-Dclbenz	11.26	146	506320	92.03	ug/L	96
99) 1,4-Dclbenz	11.32	146	503447	90.31	ug/L	97
100) p-Isopropyltoluene	11.41	119	721272	87.93	ug/L	94
101) 1,2-Dclbenz	11.58	146	478557	86.95	ug/L	97

(#) = qualifier out of range (m) = manual integration  
 D7729.D W082417.M Fri Aug 25 11:05:39 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D Vial: 12  
 Acq On : 24 Aug 2017 1:07 pm Operator: D.Lipani  
 Sample : STD #7 - 100 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:04 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 10:54:27 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

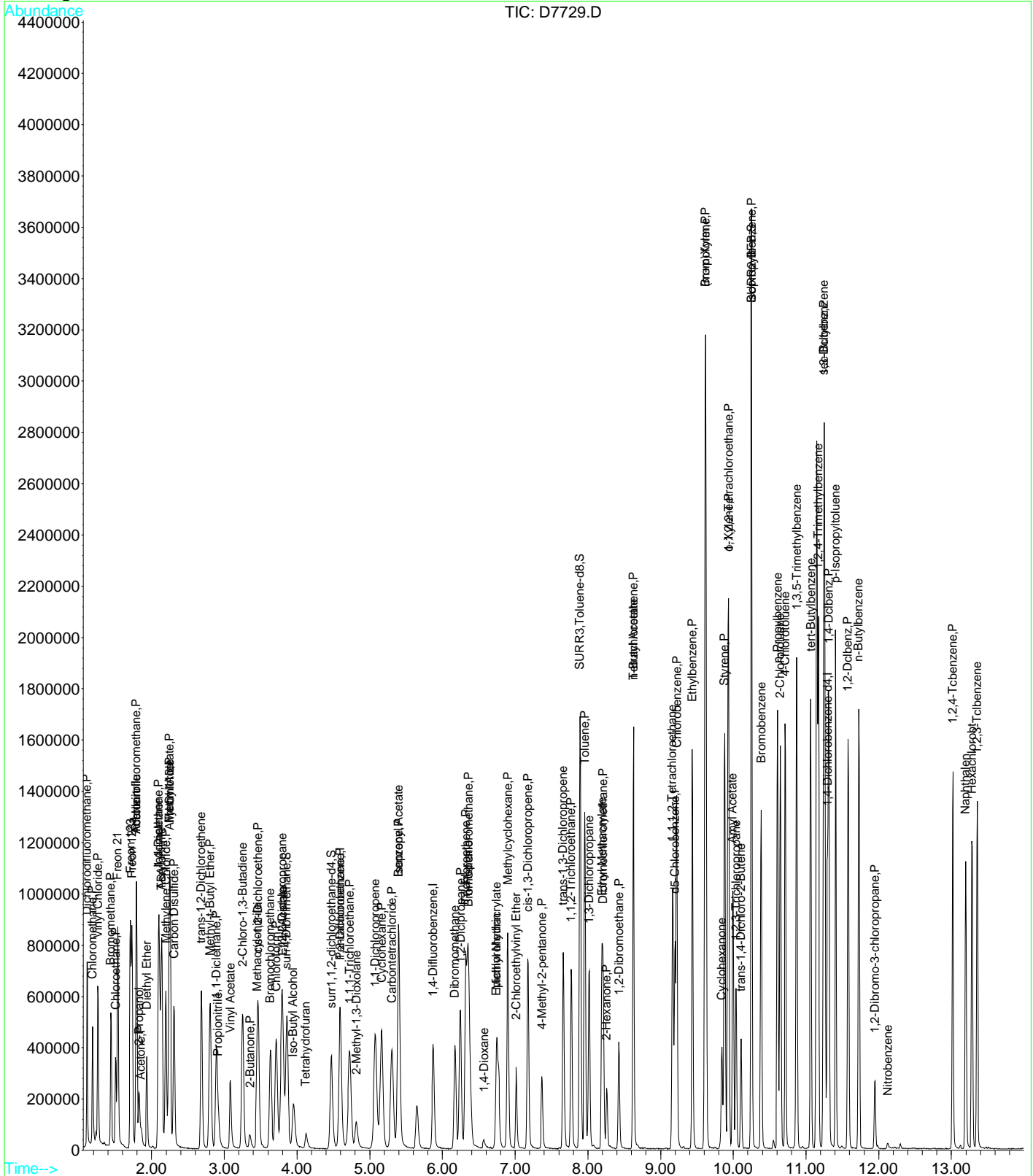
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.72	91	659431	87.24	ug/L	96
103) 1,2-Dibromo-3-chloropropan	11.94	75	44518	92.73	ug/L	94
104) Nitrobenzene	12.13	77	5128	151.22	ug/L	87
105) 1,2,4-Tcbenzene	13.02	180	343137	90.51	ug/L	98
106) Naphthalen	13.20	128	610455	85.17	ug/L	98
107) Hexachlorobt	13.29	225	178840	96.30	ug/L	98
108) 1,2,3-Tclbenzene	13.35	180	319973	98.09	ug/L	98

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7729.D  
Acq On : 24 Aug 2017 1:07 pm  
Sample : STD #7 - 100 PPB  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:04 2017

Vial: 12  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

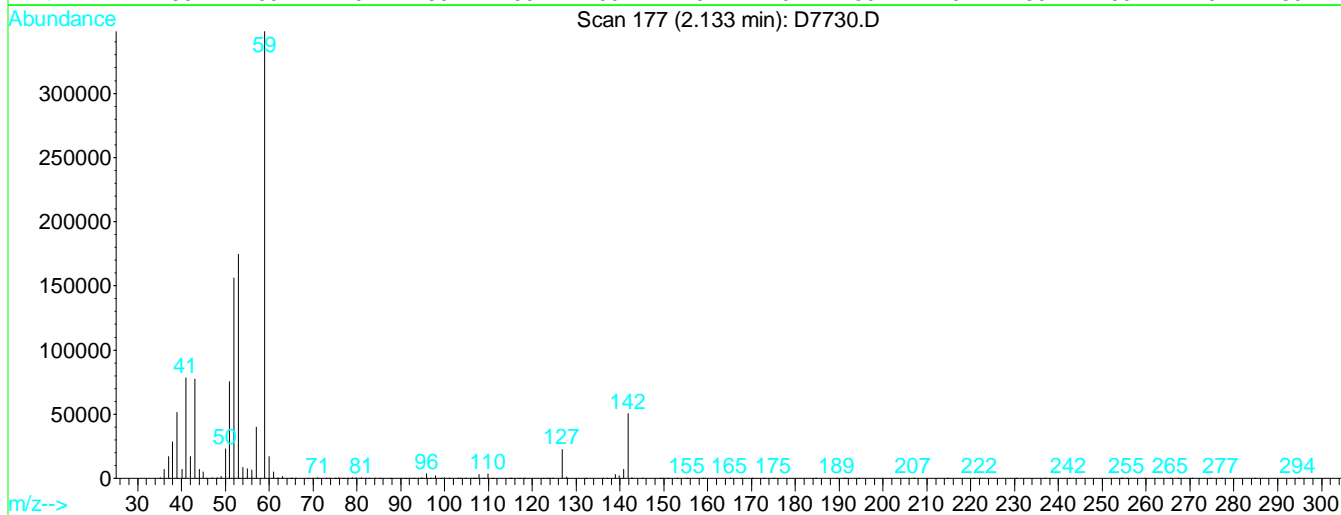
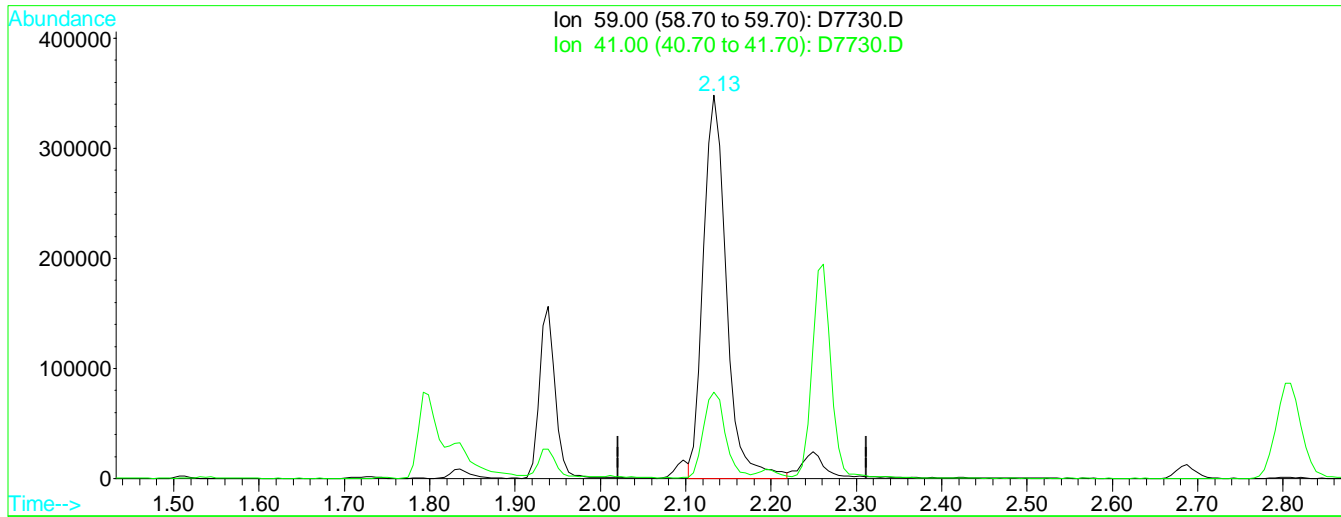
Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 10:54:27 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7730.D Vial: 13  
Acq On : 24 Aug 2017 1:34 pm Operator: D.Lipani  
Sample : STD #8 - 150 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:07 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:05:49 2017  
Response via : Multiple Level Calibration



TIC: D7730.D

(18) TBA

2.13min 3290.24ug/L m

response 647832

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	22.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

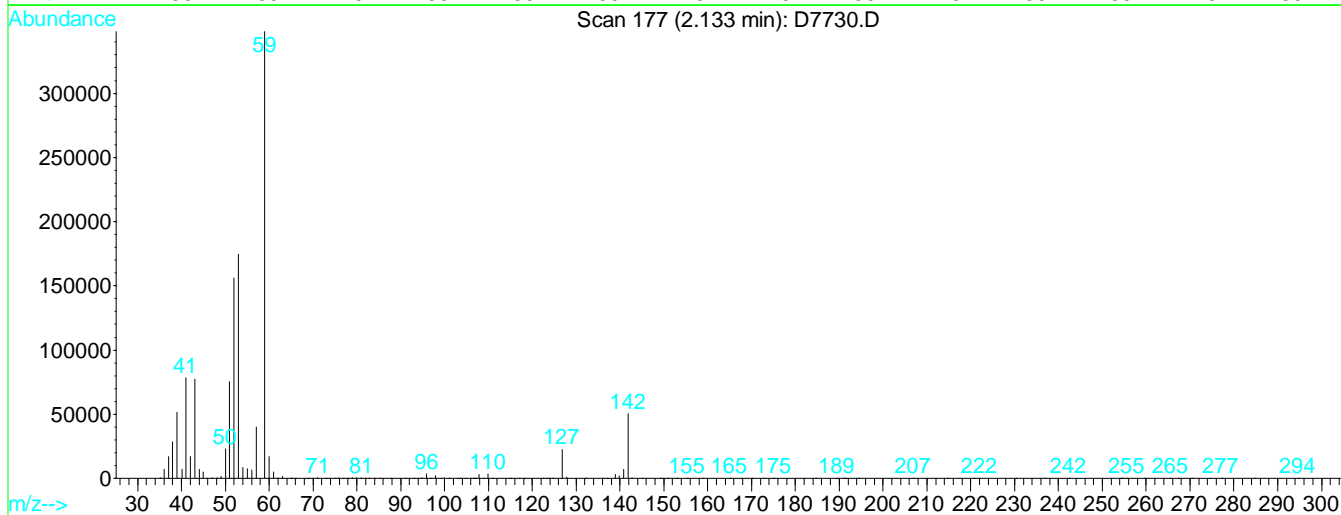
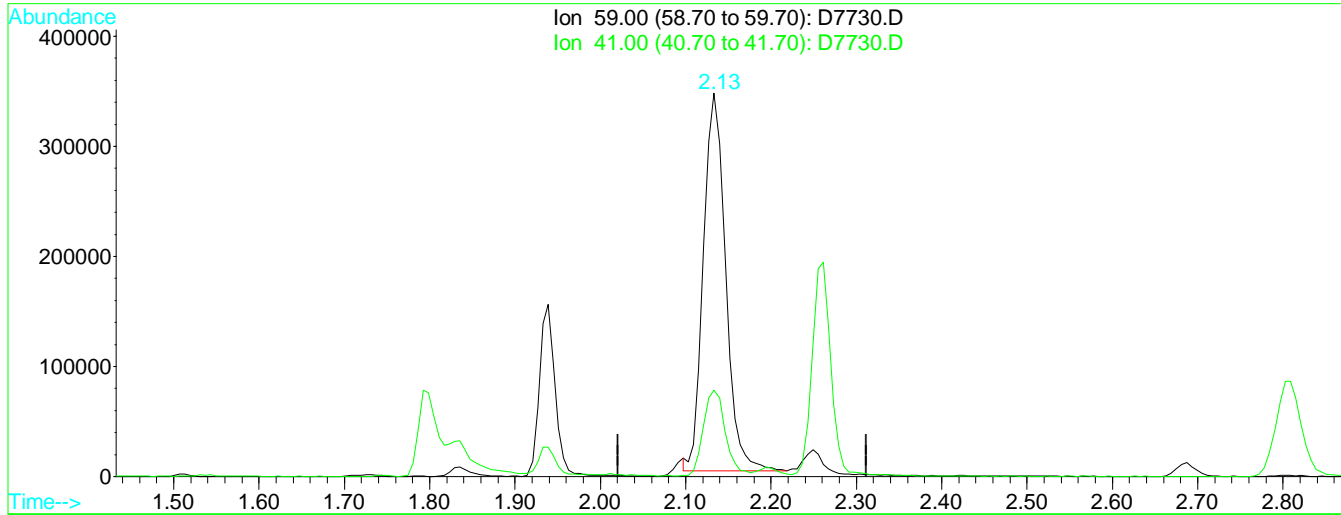
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7730.D Vial: 13  
Acq On : 24 Aug 2017 1:34 pm Operator: D.Lipani  
Sample : STD #8 - 150 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:06 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:05:49 2017  
Response via : Multiple Level Calibration



TIC: D7730.D

(18) TBA

Manual Integration:

2.13min 3126.19ug/L

Before

response 615531

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	22.48
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7730.D Vial: 13  
 Acq On : 24 Aug 2017 1:34 pm Operator: D.Lipani  
 Sample : STD #8 - 150 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:07 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:05:49 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	307302	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.87	114	383927	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.20	82	179749	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.30	152	223272	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.86	113	411026	149.27	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	298.54%#
43) surr1,1,2-dichloroethane-d	4.48	65	440508	147.70	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	295.40%#
65) SURRE3,Toluene-d8	7.89	98	1071029	137.77	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	275.54%#
86) SURRE2,BFB	10.25	95	528888	157.10	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	314.20%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.11	85	565733	123.42	ug/L	93
3) Chloromethane	1.19	50	400870	131.72	ug/L	94
4) Vinyl Chloride	1.26	62	607454	161.88	ug/L	93
5) Bromomethane	1.44	94	342270	151.35	ug/L	100
6) Chloroethane	1.51	64	264083	143.67	ug/L	98
7) Freon 21	1.54	67	693680	124.34	ug/L	93
8) Freon 123	1.71	83	458278	132.27	ug/L	97
9) Freon 123a	1.73	67	364553	132.45	ug/L	97
10) Acrolein	1.79	56	201111	827.29	ug/L	98
11) Trichlorofluoromethane	1.79	101	566898	135.21	ug/L	96
12) Acetonitrile	1.79	41	120053	717.73	ug/L	93
13) 2-Propanol	1.84	45	357174	3105.43	ug/L	94
14) Acetone	1.86	43	90181	156.76	ug/L	100
15) Diethyl Ether	1.94	59	199030	134.40	ug/L	98
16) 1,1-Dicethene	2.10	96	292267	138.02	ug/L	98
17) Iodomethane	2.11	142	515789	149.91	ug/L	99
18) TBA	2.13	59	647832m	3290.24	ug/L	
19) Acrylonitrile	2.15	53	483412	758.56	ug/L	96
20) Methylene Chloride	2.20	84	311884	138.65	ug/L	97
21) Freon 113	2.24	101	338016	139.74	ug/L	96
22) Methyl Acetate	2.25	43	307272	162.02	ug/L	93
23) Allyl Chloride	2.26	76	123847	142.06	ug/L	97
24) Carbon Disulfide	2.31	76	809525	124.99	ug/L	95
25) trans-1,2-Dichloroethene	2.69	96	318979	141.40	ug/L	97
26) Methyl-t-Butyl Ether	2.81	73	787756	135.87	ug/L	95
27) 1,1-Dicethane	2.89	63	480898	140.51	ug/L	94
28) Propionitrile	2.92	54	195486	851.22	ug/L	90
29) Vinyl Acetate	3.08	43	621368	152.80	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.25	53	445149	147.09	ug/L	92
31) 2-Butanone	3.35	43	123923	160.55	ug/L	96
32) Methacrylonitrile	3.45	67	123879	165.50	ug/L	93
33) cis-1,2-Dichloroethene	3.47	96	348118	144.51	ug/L	95
34) Bromochloromethane	3.64	128	189098	138.37	ug/L	98
35) Chloroform	3.72	83	554525	135.15	ug/L	94
36) 2,2-Dichloropropane	3.79	77	514794	137.59	ug/L	94
37) Ethyl Acetate	3.81	43	523607	319.87	ug/L	97
38) Tetrahydrofuran	4.12	42	72967	157.52	ug/L	85
39) 1,1,1-Trichloroethane	4.73	97	533900	134.02	ug/L	96
42) Iso-Butyl Alcohol	3.96	42	151066	3518.31	ug/L	97

(#) = qualifier out of range (m) = manual integration  
 D7730.D W082417.M Fri Aug 25 11:10:22 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7730.D Vial: 13  
 Acq On : 24 Aug 2017 1:34 pm Operator: D.Lipani  
 Sample : STD #8 - 150 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:07 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:05:49 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-Dichloroethane	4.60	64	148126	140.82	ug/L	94
45) 2-Methyl-1,3-Dioxolane	4.82	73	213386	838.24	ug/L	93
46) 1,1-Dichloropropene	5.08	75	409343	147.17	ug/L	92
47) Cyclohexane	5.17	56	411946	144.23	ug/L	92
48) Carbontetrachloride	5.31	119	460705	149.05	ug/L	94
49) Benzene	5.40	78	1011337	134.39	ug/L	93
50) Isopropyl Acetate	5.41	43	582329	156.81	ug/L	95
51) Dibromomethane	6.17	93	231943	145.79	ug/L	99
52) 1,2-Dicloropropane	6.25	63	270425	140.69	ug/L	97
53) n-Heptane	6.35	43	310126	147.39	ug/L	95
54) Trichloroethene	6.32	130	359755	144.50	ug/L	98
55) Bromodichloromethane	6.37	83	439402	147.64	ug/L	99
56) 1,4-Dioxane	6.57	88	66394	3445.03	ug/L	92
57) Epichlorohydrin	6.74	57	147461	959.68	ug/L	98
58) Methyl Methacrylate	6.75	69	206383	159.07	ug/L	98
59) Methylcyclohexane	6.90	55	339128	144.79	ug/L	96
60) 2-Chloroethylvinyl Ether	7.02	63	192096	159.40	ug/L	99
61) cis-1,3-Dichloropropene	7.18	75	488648	146.69	ug/L	98
62) 4-Methyl-2-pentanone	7.37	43	278997	161.88	ug/L	97
63) trans-1,3-Dichloropropene	7.66	75	455975	145.73	ug/L	97
64) 1,1,2-Trichloroethane	7.77	97	284770	150.37	ug/L	98
66) Toluene	7.96	91	1065767	124.76	ug/L	94
68) 1,3-Dichloropropane	8.02	76	428188	142.28	ug/L	98
69) Ethyl Methacrylate	8.20	69	381178	156.92	ug/L	95
70) Dibromochloromethane	8.21	129	395504	160.01	ug/L	98
71) 2-Hexanone	8.26	43	211312	174.19	ug/L	99
72) 1,2-Dibromoethane	8.43	107	324300	149.43	ug/L	99
73) n-Butyl Acetate	8.63	43	454007	163.60	ug/L	98
74) Tetrachloroethene	8.62	164	324994	151.44	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.17	131	340878	151.98	ug/L	97
76) Chlorobenzene	9.23	112	751432	132.30	ug/L	95
77) Ethylbenzene	9.44	106	429871	143.53	ug/L #	80
78) Bromoform	9.62	173	308371	185.33	ug/L	96
79) (m+p)Xylene	9.62	106	990085	264.10	ug/L #	85
80) o-Xylene	9.94	106	543104	150.55	ug/L #	88
81) Cyclohexanone	9.85	55	210655	3049.93	ug/L	95
82) Styrene	9.88	104	787619	136.63	ug/L	94
83) Amyl Acetate	9.99	43	566454	149.71	ug/L	93
84) trans-1,4-Dichloro-2-Buten	10.11	75	137678	164.13	ug/L	96
85) Isopropylbenzene	10.25	105	1146604	124.59	ug/L	89
88) 1,1,2,2-Tetrachloroethane	9.93	83	406890	152.55	ug/L	96
89) 1,2,3-Trichloropropane	10.04	75	289811	143.96	ug/L	97
90) Bromobenzene	10.39	156	439625	132.81	ug/L	98
91) n-Propylbenzene	10.61	91	1218866	102.99	ug/L	89
92) 2-Chlorotoluene	10.65	91	797957	115.92	ug/L	95
93) 4-Chlorotoluene	10.72	91	864451	116.78	ug/L	92
94) 1,3,5-Trimethylbenzene	10.88	105	940029	114.46	ug/L	93
95) tert-Butylbenzene	11.07	119	857186	120.02	ug/L	93
96) 1,2,4-Trimethylbenzene	11.17	105	1005161	114.15	ug/L	89
97) sec-Butylbenzene	11.25	105	1165989	114.51	ug/L	90
98) 1,3-Dclbenz	11.26	146	743734	132.13	ug/L	94
99) 1,4-Dclbenz	11.31	146	732394	128.41	ug/L	95
100) p-Isopropyltoluene	11.41	119	995061	118.58	ug/L	91
101) 1,2-Dclbenz	11.58	146	700562	124.42	ug/L	95

(#) = qualifier out of range (m) = manual integration  
 D7730.D W082417.M Fri Aug 25 11:10:23 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7730.D Vial: 13  
 Acq On : 24 Aug 2017 1:34 pm Operator: D.Lipani  
 Sample : STD #8 - 150 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:07 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:05:49 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

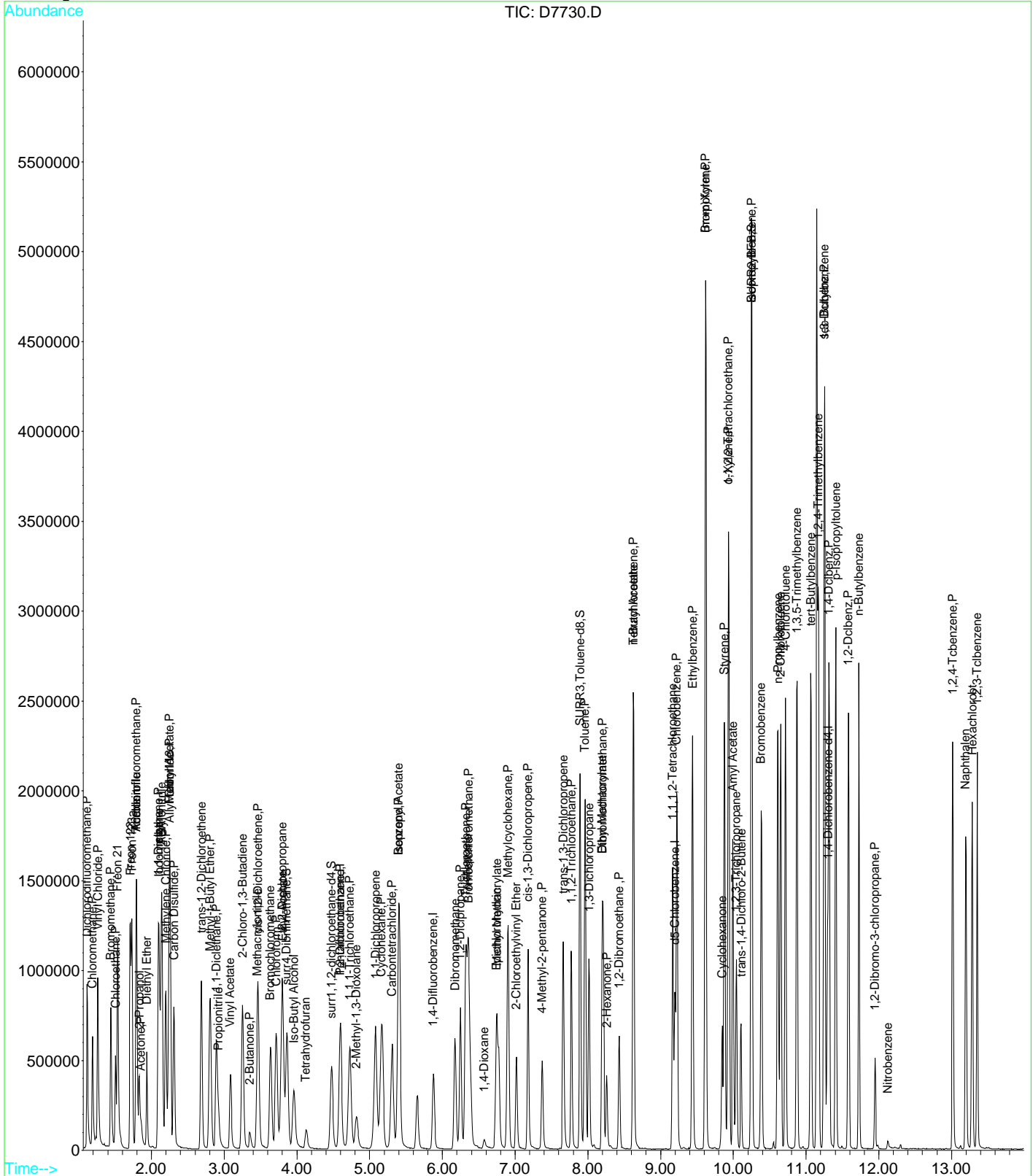
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.73	91	922355	119.26	ug/L	91
103) 1,2-Dibromo-3-chloropropan	11.95	75	81294	165.51	ug/L	98
104) Nitrobenzene	12.12	77	10498	302.58	ug/L	95
105) 1,2,4-Tcbenzene	13.02	180	506679	130.63	ug/L	98
106) Naphthalen	13.19	128	950345	129.60	ug/L	94
107) Hexachlorobt	13.28	225	270415	142.32	ug/L	98
108) 1,2,3-Tclbenzene	13.35	180	480661	144.02	ug/L	98

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7730.D  
Acq On : 24 Aug 2017 1:34 pm  
Sample : STD #8 - 150 PPB  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:07 2017

Vial: 13  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

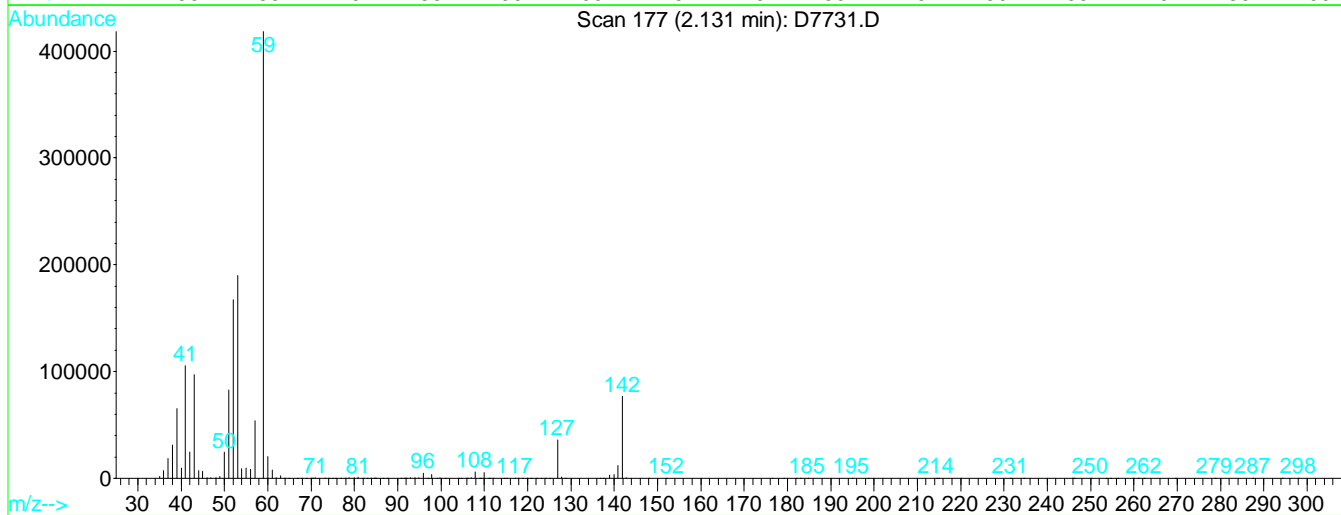
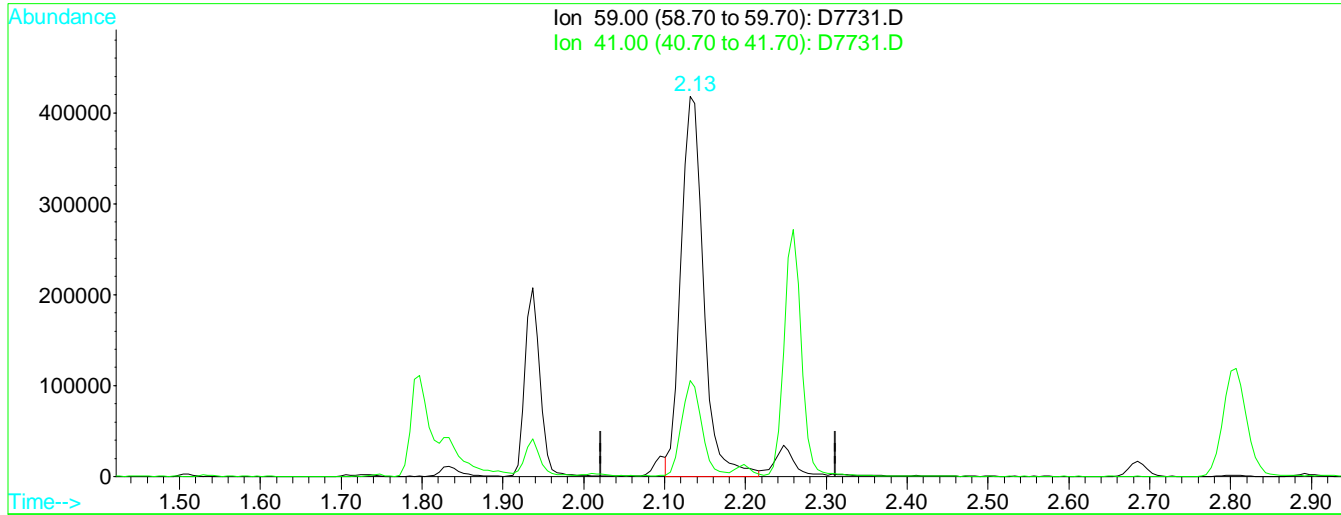
Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:05:49 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D Vial: 14  
Acq On : 24 Aug 2017 2:08 pm Operator: D.Lipani  
Sample : STD #9 - 200 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:14 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:10:33 2017  
Response via : Multiple Level Calibration



TIC: D7731.D

(18) TBA

2.13min 4074.29ug/L m

response 819305

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	25.25
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

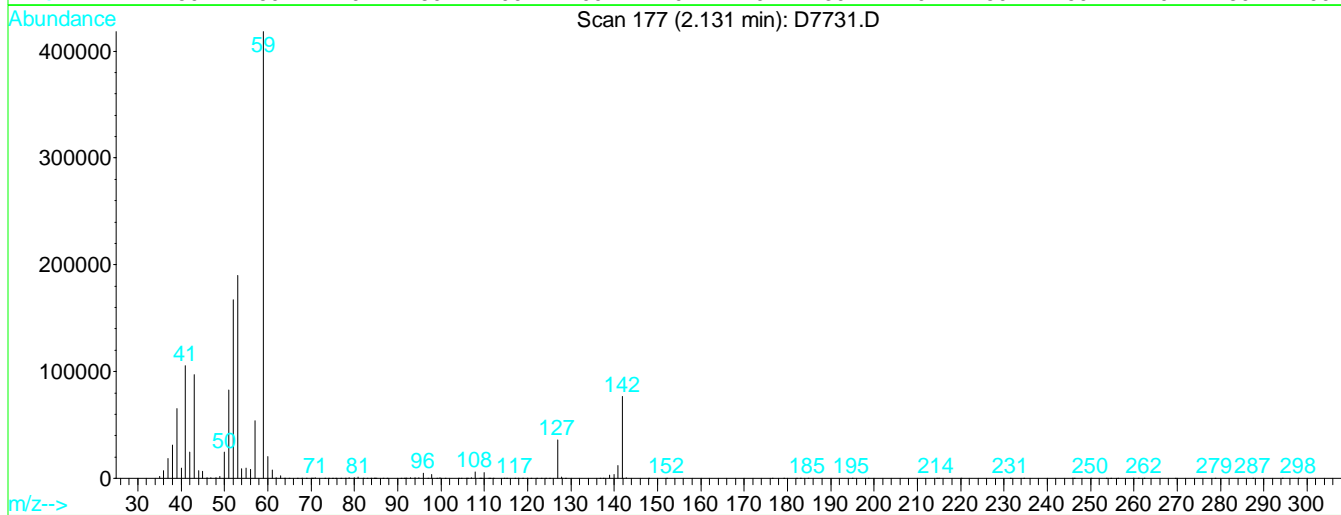
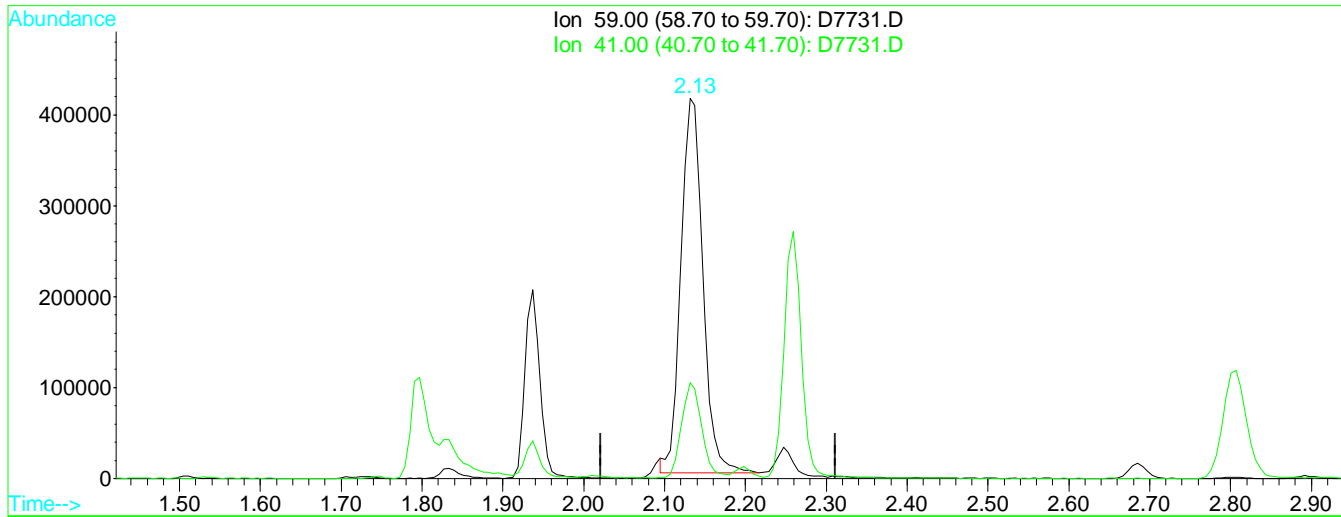
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D Vial: 14  
 Acq On : 24 Aug 2017 2:08 pm Operator: D.Lipani  
 Sample : STD #9 - 200 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:13 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:10:33 2017  
 Response via : Multiple Level Calibration



TIC: D7731.D

(18) TBA

Manual Integration:

2.13min 3884.41ug/L

Before

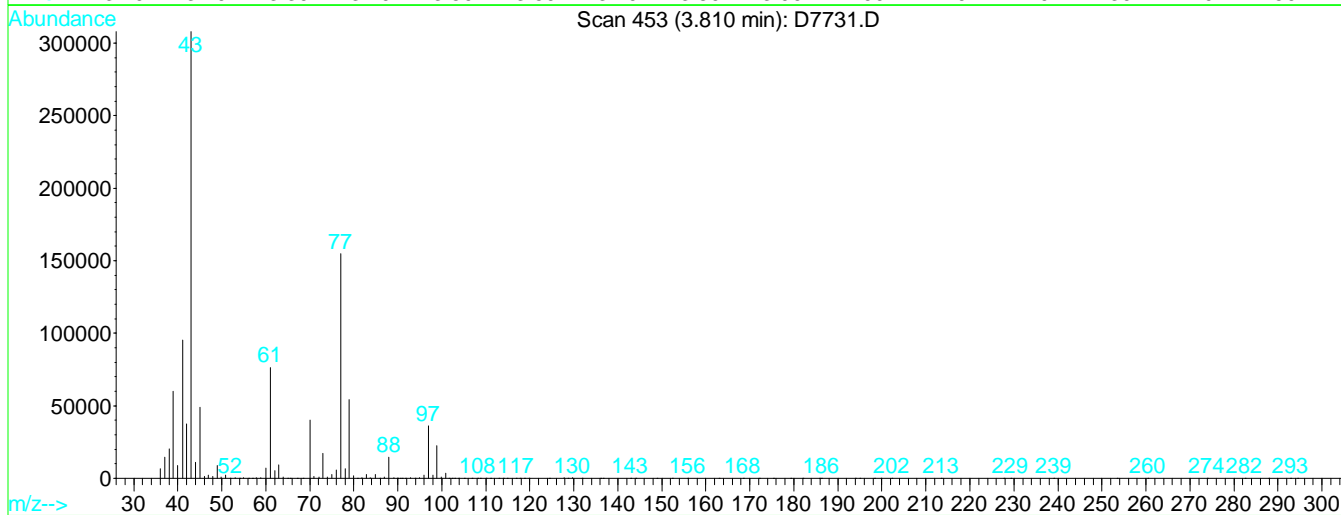
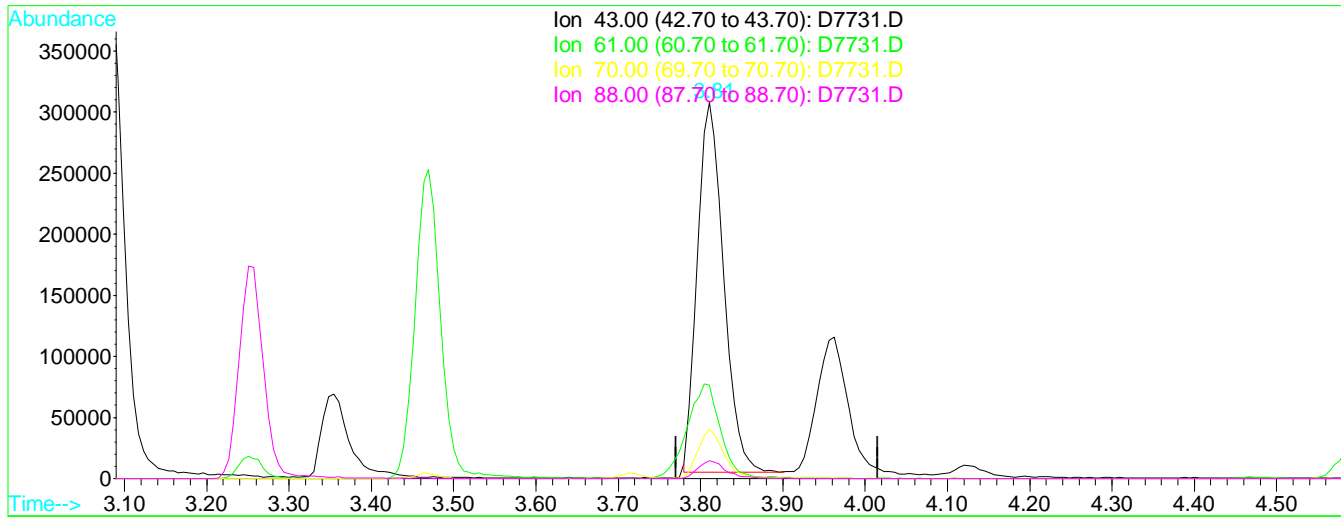
response 781122

08/25/17

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	25.25
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D Vial: 14  
 Acq On : 24 Aug 2017 2:08 pm Operator: D.Lipani  
 Sample : STD #9 - 200 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:15 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:10:33 2017  
 Response via : Multiple Level Calibration



TIC: D7731.D

(37) Ethyl Acetate

3.81min 404.46ug/L m

response 671004

Ion	Exp%	Act%
43.00	100	100
61.00	21.70	24.85
70.00	10.60	13.09
88.00	4.70	4.80

Manual Integration:

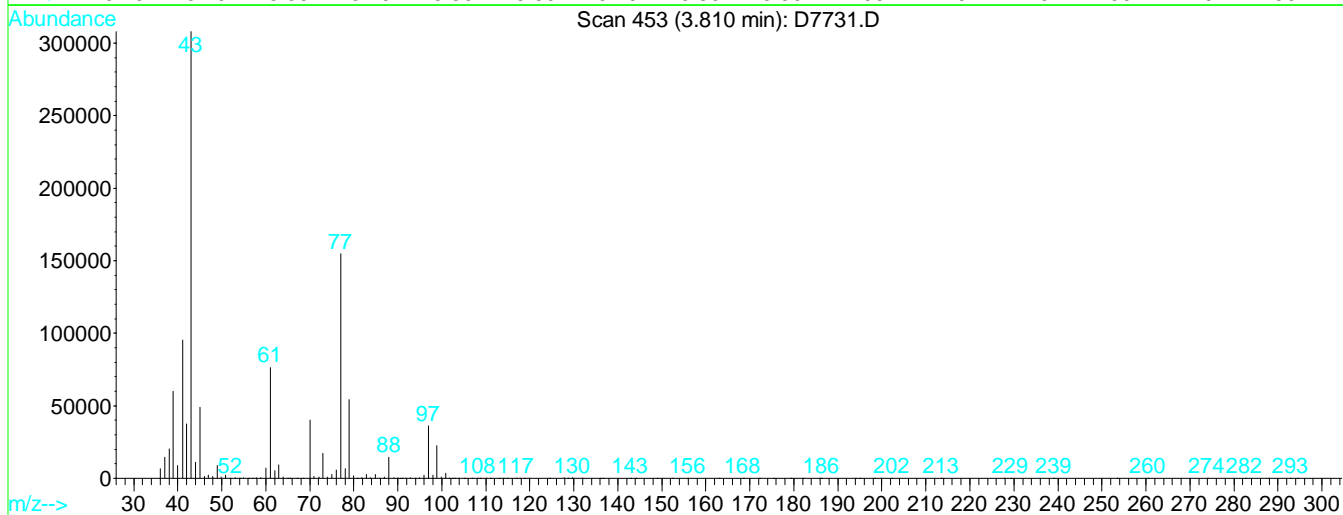
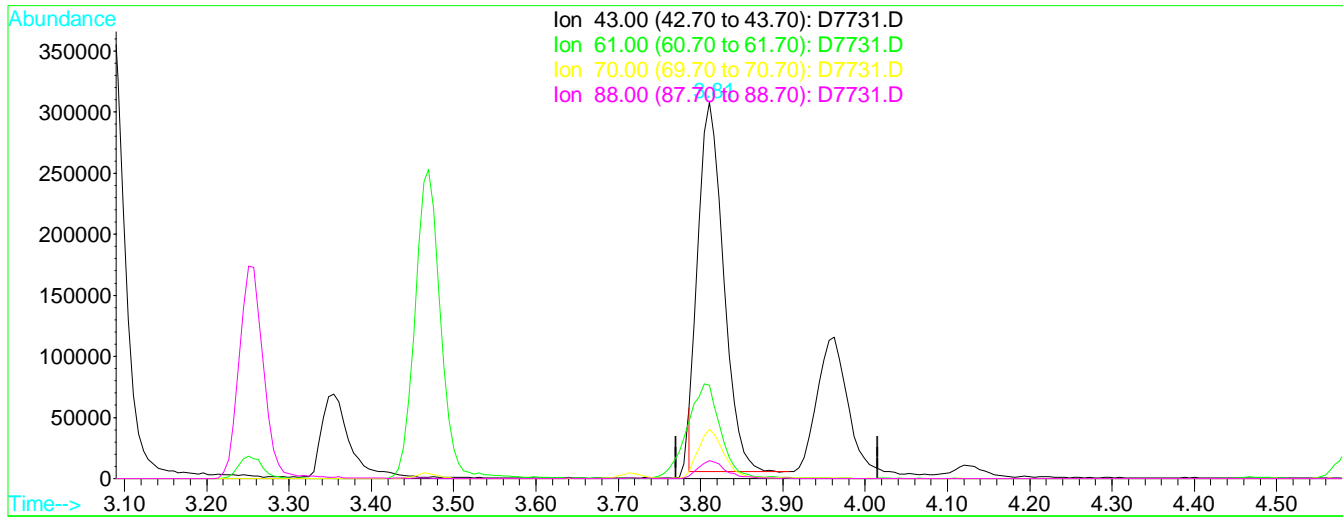
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D Vial: 14  
Acq On : 24 Aug 2017 2:08 pm Operator: D.Lipani  
Sample : STD #9 - 200 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:14 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:10:33 2017  
Response via : Multiple Level Calibration



TIC: D7731.D

(37) Ethyl Acetate  
3.81min 391.01ug/L  
response 648692

Manual Integration:  
Before

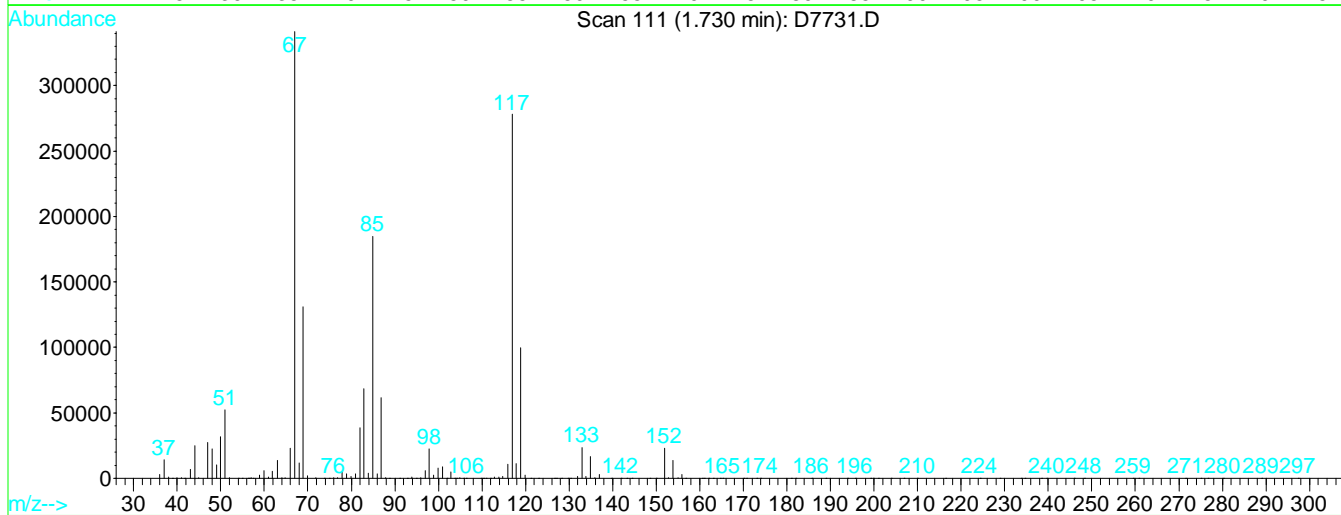
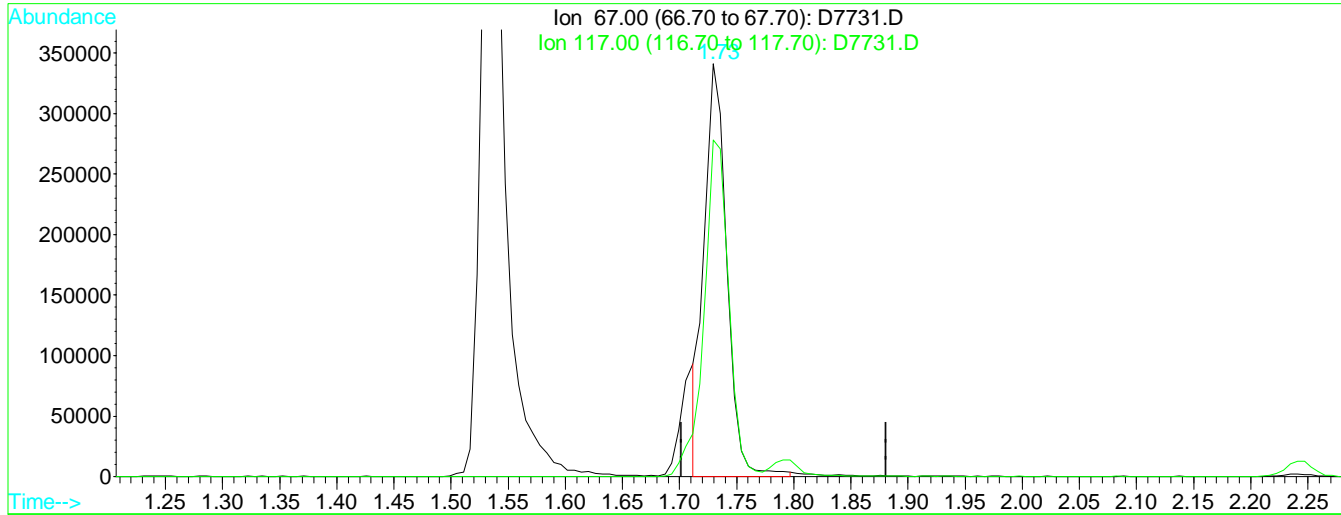
Ion	Exp%	Act%
43.00	100	100
61.00	21.70	24.85
70.00	10.60	13.09
88.00	4.70	4.80

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D Vial: 14  
Acq On : 24 Aug 2017 2:08 pm Operator: D.Lipani  
Sample : STD #9 - 200 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:13 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:10:33 2017  
Response via : Multiple Level Calibration



TIC: D7731.D

(9) Freon 123a

1.73min 168.44ug/L m

response 473443

Ion	Exp%	Act%
67.00	100	100
117.00	81.00	81.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

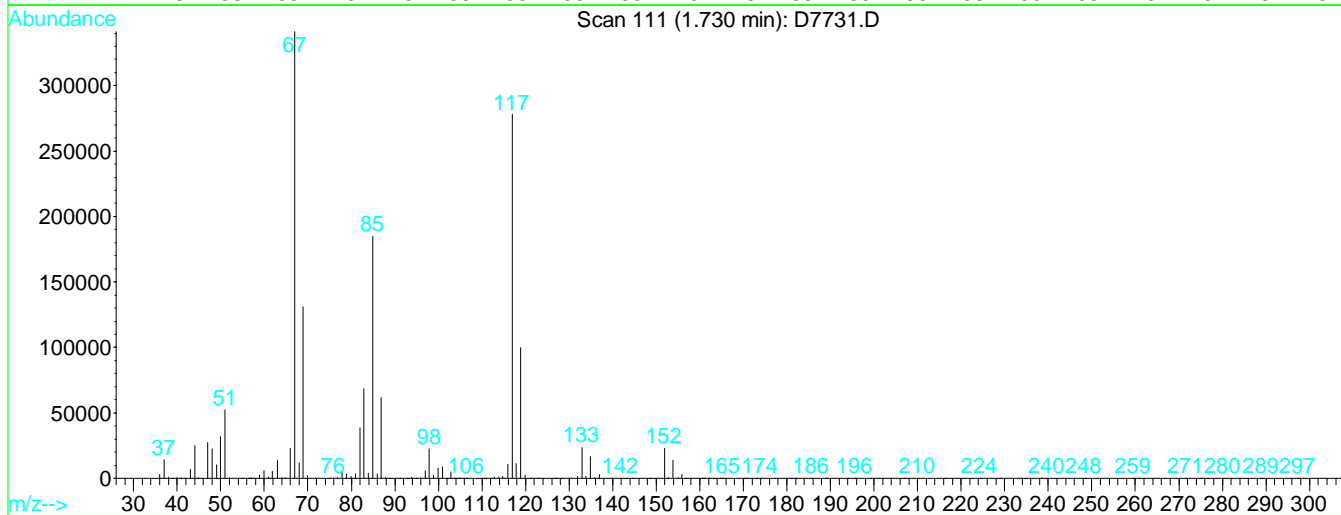
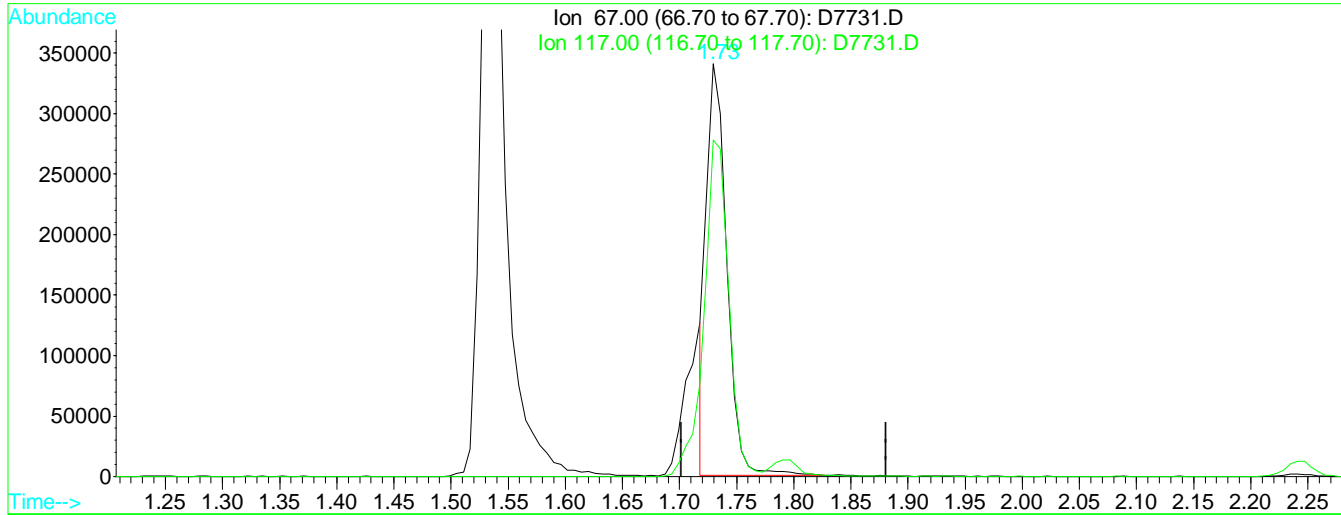
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D Vial: 14  
Acq On : 24 Aug 2017 2:08 pm Operator: D.Lipani  
Sample : STD #9 - 200 PPB Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:11 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:10:33 2017  
Response via : Multiple Level Calibration



TIC: D7731.D

(9) Freon 123a  
1.73min 151.03ug/L  
response 424525

Manual Integration:  
Before

Ion	Exp%	Act%
67.00	100	100
117.00	81.00	81.51
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D Vial: 14  
 Acq On : 24 Aug 2017 2:08 pm Operator: D.Lipani  
 Sample : STD #9 - 200 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:15 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:10:33 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.60	168	313741	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.88	114	400128	50.00	ug/L	0.00
67) d5-Chlorobenzene	9.19	82	187998	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.30	152	228175	50.00	ug/L	0.00

System Monitoring Compounds

41) surr4,Dibrflmethane	3.87	113	150468	52.43	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	104.86%
43) surr1,1,2-dichloroethane-d	4.47	65	161180	51.85	ug/L	0.00
Spiked Amount	50.000	Range	81 - 127	Recovery	=	103.70%
65) SURRE3,Toluene-d8	7.89	98	443373	54.72	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	109.44%
86) SURRE2,BFB	10.25	95	207463	58.92	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	117.84%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.12	85	714116	152.60	ug/L	90
3) Chloromethane	1.19	50	521412	167.81	ug/L	90
4) Vinyl Chloride	1.26	62	783742	204.57	ug/L	88
5) Bromomethane	1.44	94	465456	201.60	ug/L	100
6) Chloroethane	1.50	64	341842	182.15	ug/L	95
7) Freon 21	1.54	67	869697	152.69	ug/L	90
8) Freon 123	1.71	83	593808	167.87	ug/L	96
9) Freon 123a	1.73	67	473443m	168.44	ug/L	
10) Acrolein	1.78	56	285210	1149.17	ug/L	98
11) Trichlorofluoromethane	1.79	101	747428	174.61	ug/L	94
12) Acetonitrile	1.80	41	180098	1054.20	ug/L	98
13) 2-Propanol	1.83	45	452069	3849.82	ug/L	95
14) Acetone	1.86	43	123767	210.73	ug/L	98
15) Diethyl Ether	1.94	59	270240	178.75	ug/L	94
16) 1,1-Dicethene	2.09	96	396331	183.33	ug/L	97
17) Iodomethane	2.11	142	694941	197.83	ug/L	97
18) TBA	2.13	59	819305m	4074.29	ug/L	
19) Acrylonitrile	2.14	53	639241	982.50	ug/L	96
20) Methylene Chloride	2.20	84	417656	181.87	ug/L	97
21) Freon 113	2.24	101	455226	184.34	ug/L	96
22) Methyl Acetate	2.25	43	403101	208.19	ug/L	95
23) Allyl Chloride	2.26	76	176345	198.13	ug/L	90
24) Carbon Disulfide	2.31	76	1006962	152.29	ug/L	93
25) trans-1,2-Dichloroethene	2.68	96	416637	180.90	ug/L	98
26) Methyl-t-Butyl Ether	2.81	73	1012356	171.03	ug/L	92
27) 1,1-Dicethane	2.89	63	633484	181.30	ug/L	93
28) Propionitrile	2.92	54	249190	1062.80	ug/L	93
29) Vinyl Acetate	3.09	43	790046	190.29	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.25	53	586028	189.67	ug/L	91
31) 2-Butanone	3.35	43	166531	211.32	ug/L	98
32) Methacrylonitrile	3.46	67	162766	212.99	ug/L	91
33) cis-1,2-Dichloroethene	3.47	96	467668	190.16	ug/L	99
34) Bromochloromethane	3.64	128	255025	182.78	ug/L	98
35) Chloroform	3.71	83	731130	174.53	ug/L	93
36) 2,2-Dichloropropane	3.79	77	686138	179.63	ug/L	95
37) Ethyl Acetate	3.81	43	671004m	404.46	ug/L	
38) Tetrahydrofuran	4.13	42	103749	219.38	ug/L	88
39) 1,1,1-Trichloroethane	4.73	97	708432	174.18	ug/L	97
42) Iso-Butyl Alcohol	3.96	42	194619	4349.12	ug/L	98

(#) = qualifier out of range (m) = manual integration  
 D7731.D W082417.M Fri Aug 25 11:17:51 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D Vial: 14  
 Acq On : 24 Aug 2017 2:08 pm Operator: D.Lipani  
 Sample : STD #9 - 200 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:15 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:10:33 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 1,2-Dichloroethane	4.60	64	197192	179.88	ug/L	95
45) 2-Methyl-1,3-Dioxolane	4.81	73	266702	1005.26	ug/L	95
46) 1,1-Dichloropropene	5.08	75	553769	191.04	ug/L	94
47) Cyclohexane	5.17	56	540043	181.43	ug/L	96
48) Carbontetrachloride	5.31	119	631050	195.90	ug/L	93
49) Benzene	5.40	78	1329733	169.55	ug/L	90
50) Isopropyl Acetate	5.41	43	761015	196.63	ug/L	93
51) Dibromomethane	6.17	93	311527	187.89	ug/L	100
52) 1,2-Dicloropropane	6.25	63	375919	187.66	ug/L	92
53) n-Heptane	6.35	43	418378	190.79	ug/L	93
54) Trichloroethene	6.32	130	491868	189.56	ug/L	98
55) Bromodichloromethane	6.37	83	594531	191.68	ug/L	99
56) 1,4-Dioxane	6.57	88	83231	4143.81	ug/L	90
57) Epichlorohydrin	6.74	57	190691	1190.77	ug/L	96
58) Methyl Methacrylate	6.75	69	275705	203.89	ug/L	96
59) Methylcyclohexane	6.90	55	426553	174.74	ug/L	98
60) 2-Chloroethylvinyl Ether	7.02	63	250624	199.54	ug/L	97
61) cis-1,3-Dichloropropene	7.18	75	648114	186.68	ug/L	97
62) 4-Methyl-2-pentanone	7.37	43	360040	200.44	ug/L	97
63) trans-1,3-Dichloropropene	7.66	75	609704	186.97	ug/L	94
64) 1,1,2-Trichloroethane	7.78	97	379037	192.05	ug/L	100
66) Toluene	7.96	91	1326529	149.00	ug/L	91
68) 1,3-Dichloropropane	8.02	76	568300	180.55	ug/L	98
69) Ethyl Methacrylate	8.20	69	486084	191.33	ug/L	97
70) Dibromochloromethane	8.21	129	519963	201.13	ug/L	97
71) 2-Hexanone	8.26	43	256555	202.21	ug/L	99
72) 1,2-Dibromoethane	8.43	107	426603	187.94	ug/L	99
73) n-Butyl Acetate	8.63	43	584315	201.31	ug/L	95
74) Tetrachloroethene	8.63	164	442709	197.24	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.16	131	459285	195.79	ug/L	97
76) Chlorobenzene	9.22	112	965491	162.53	ug/L	92
77) Ethylbenzene	9.44	106	561283	179.19	ug/L #	75
78) Bromoform	9.61	173	433174	248.92	ug/L	95
79) (m+p)Xylene	9.62	106	1313176	334.91	ug/L #	79
80) o-Xylene	9.94	106	709378	188.02	ug/L #	84
81) Cyclohexanone	9.85	55	269306	3728.01	ug/L	96
82) Styrene	9.88	104	1021312	169.40	ug/L	92
83) Amyl Acetate	9.99	43	726516	183.59	ug/L	89
84) trans-1,4-Dichloro-2-Buten	10.11	75	179061	204.10	ug/L	94
85) Isopropylbenzene	10.25	105	1385808	143.97	ug/L	86
88) 1,1,2,2-Tetrachloroethane	9.93	83	529341	194.19	ug/L	94
89) 1,2,3-Trichloropropane	10.04	75	377648	183.56	ug/L	96
90) Bromobenzene	10.39	156	581881	172.00	ug/L	97
91) n-Propylbenzene	10.61	91	1472582	121.75	ug/L	83
92) 2-Chlorotoluene	10.65	91	1001999	142.43	ug/L	92
93) 4-Chlorotoluene	10.72	91	1079022	142.63	ug/L	88
94) 1,3,5-Trimethylbenzene	10.87	105	1180673	140.67	ug/L	89
95) tert-Butylbenzene	11.07	119	1079592	147.91	ug/L	91
96) 1,2,4-Trimethylbenzene	11.17	105	1271244	141.27	ug/L	85
97) sec-Butylbenzene	11.24	105	1464932	140.78	ug/L	85
98) 1,3-Dclbenz	11.26	146	967033	168.11	ug/L	91
99) 1,4-Dclbenz	11.32	146	925069	158.71	ug/L	92
100) p-Isopropyltoluene	11.41	119	1268755	147.94	ug/L	86
101) 1,2-Dclbenz	11.58	146	886252	154.01	ug/L	92

(#) = qualifier out of range (m) = manual integration  
 D7731.D W082417.M Fri Aug 25 11:17:52 2017

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D Vial: 14  
 Acq On : 24 Aug 2017 2:08 pm Operator: D.Lipani  
 Sample : STD #9 - 200 PPB Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:15 2017 Quant Results File: W082417.RES

Quant Method : I:\ACQUDATA\M...\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:10:33 2017  
 Response via : Initial Calibration  
 DataAcq Meth : W082417

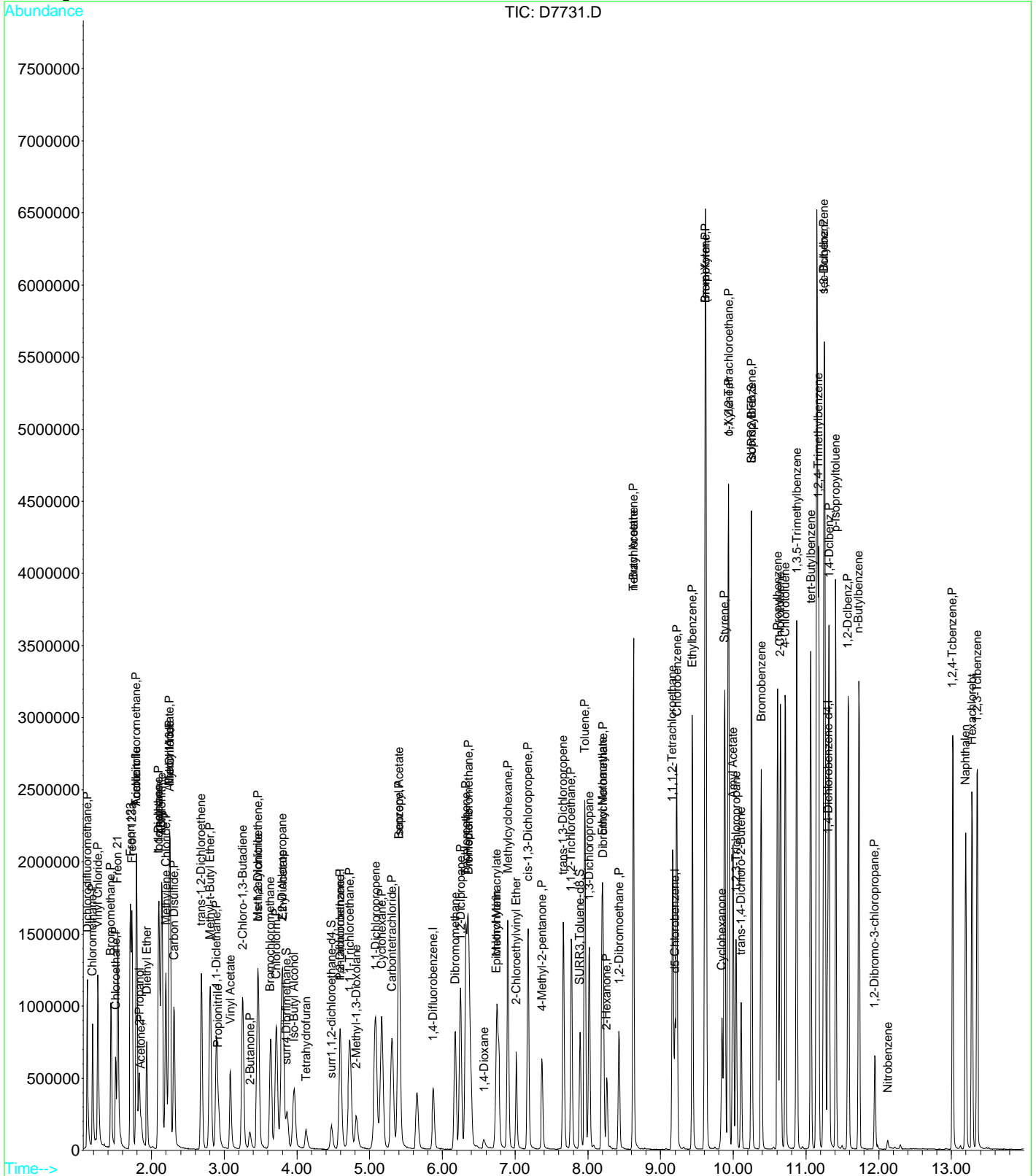
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) n-Butylbenzene	11.72	91	1137528	143.93	ug/L	88
103) 1,2-Dibromo-3-chloropropan	11.94	75	106132	211.43	ug/L	98
104) Nitrobenzene	12.13	77	15656	441.55	ug/L	84
105) 1,2,4-Tcbenzene	13.02	180	643273	162.29	ug/L	99
106) Naphthalen	13.20	128	1129140	150.67	ug/L	92
107) Hexachlorobt	13.29	225	343577	176.94	ug/L	96
108) 1,2,3-Tclbenzene	13.36	180	606796	177.91	ug/L	98

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7731.D  
Acq On : 24 Aug 2017 2:08 pm  
Sample : STD #9 - 200 PPB  
Misc : 8260C / 624 ICAL GCMS#6  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:15 2017

Vial: 14  
Operator: D.Lipani  
Inst : MS#6  
Multiplr: 1.00

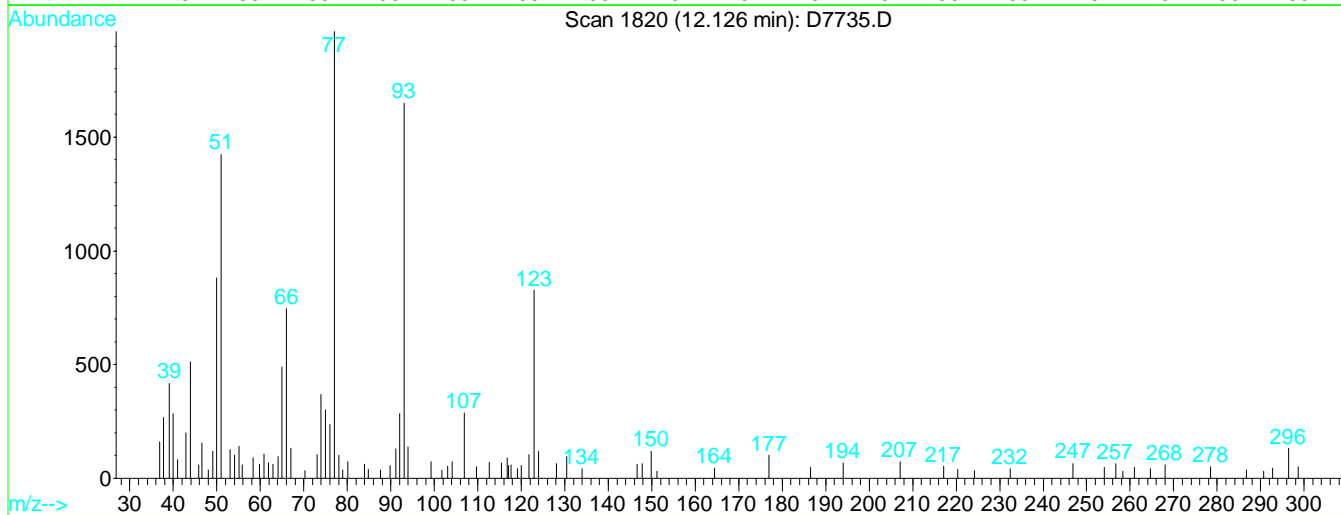
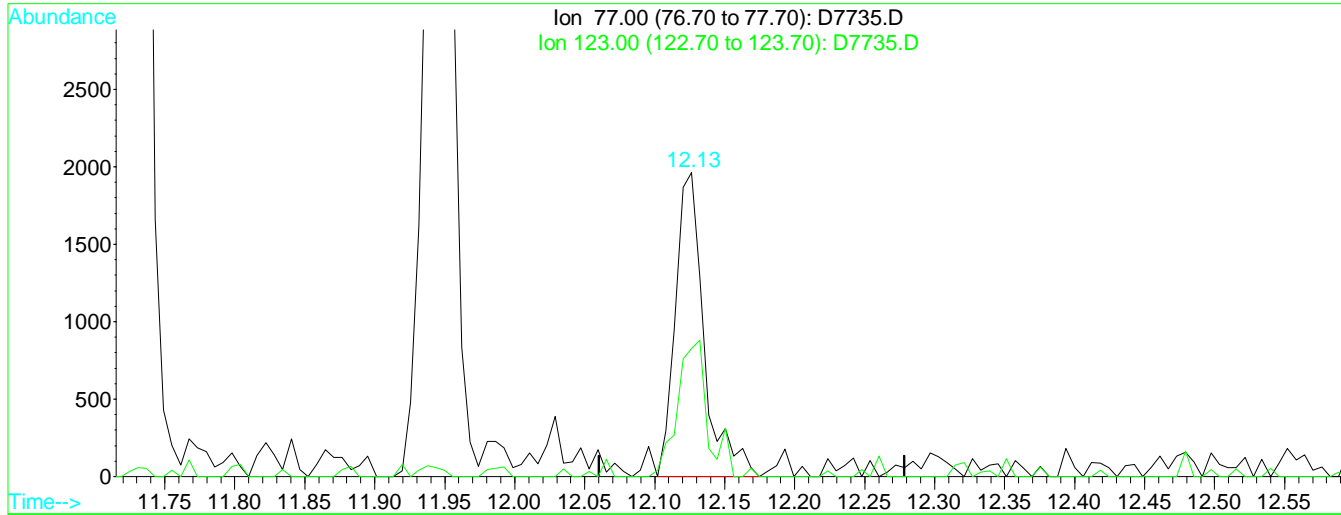
Quant Results File: W082417.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:10:33 2017  
Response via : Initial Calibration



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
Sample : ICV Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:41 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Single Level Calibration



TIC: D7735.D

(104) Nitrobenzene

Manual Integration:

12.13min 87.28ug/L m

After

response 2801

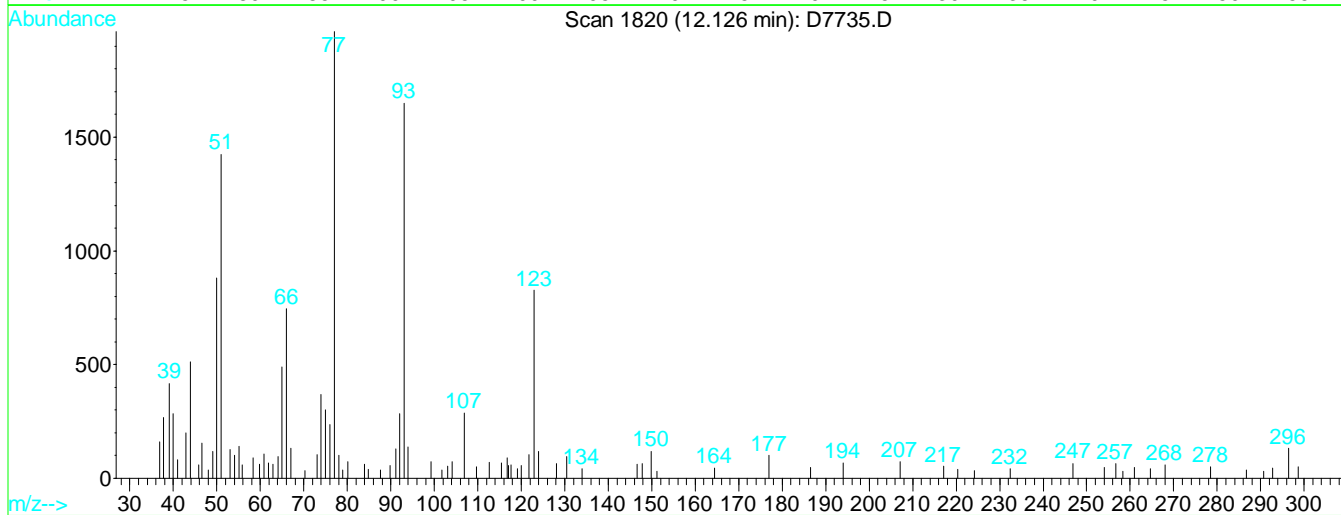
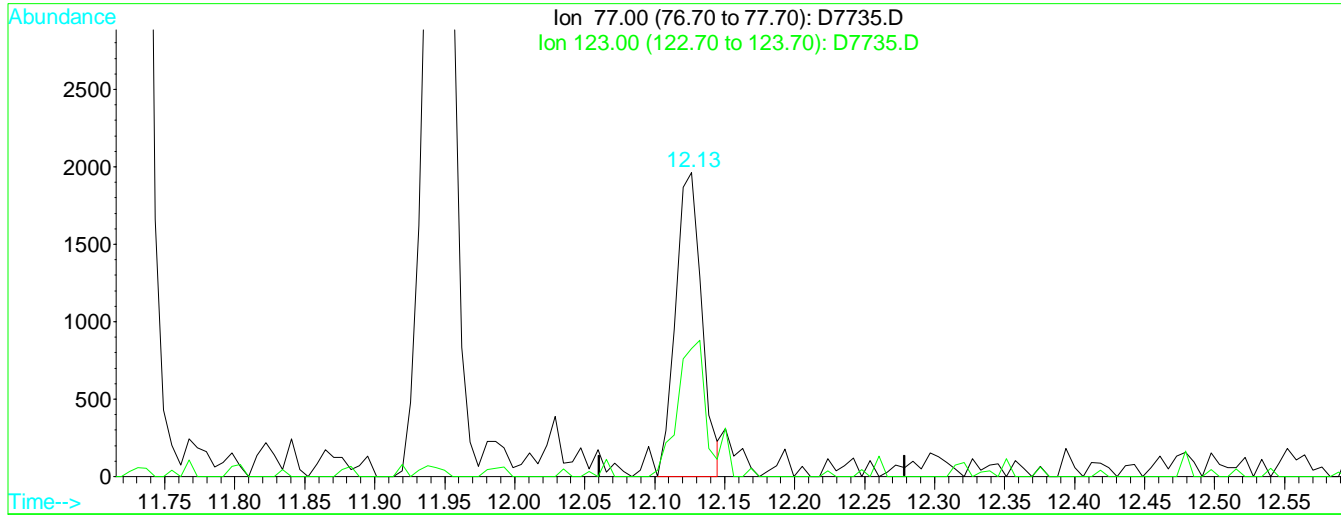
Split Peak.

Ion	Exp%	Act%
77.00	100	100
123.00	44.60	42.06
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
Sample : ICV Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:40 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Single Level Calibration



TIC: D7735.D

(104) Nitrobenzene  
12.13min 79.55ug/L  
response 2553

Manual Integration:  
Before

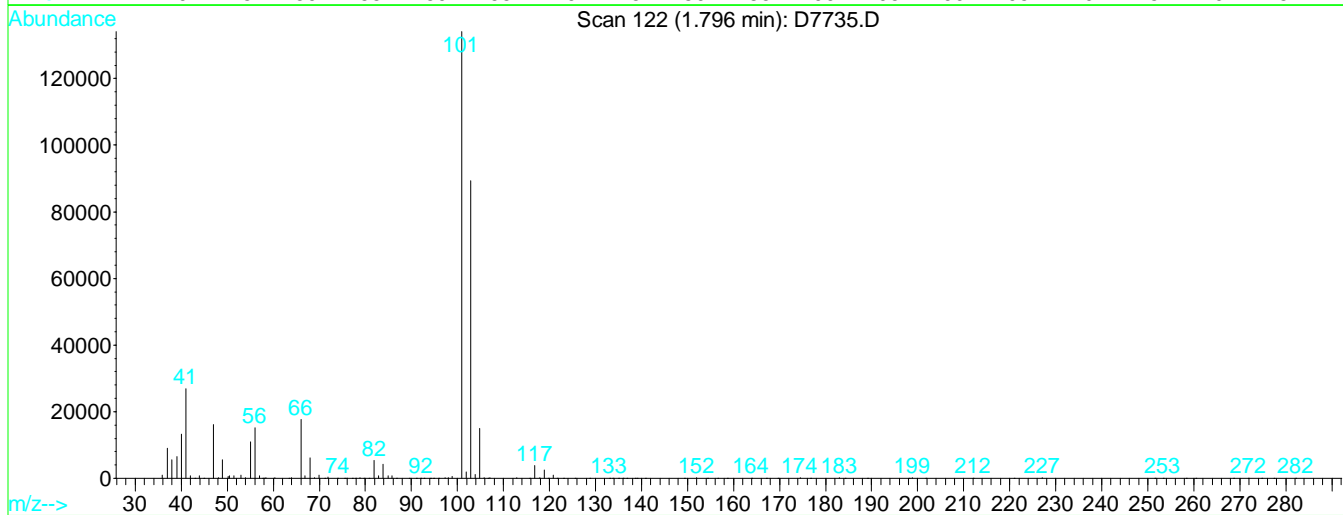
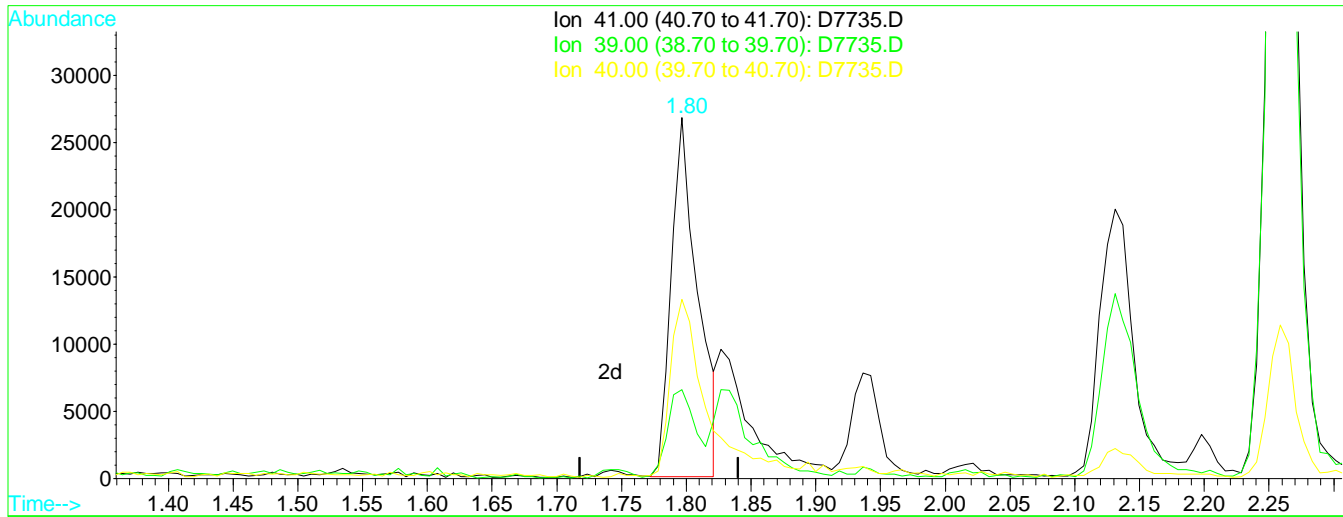
Ion	Exp%	Act%
77.00	100	100
123.00	44.60	42.06
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17



Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
 Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
 Sample : ICV Inst : MS#6  
 Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
 MS Integration Params: CPD4.P  
 Quant Time: Aug 25 11:38 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
 Title : 8260C / 624 WATERS  
 Last Update : Fri Aug 25 11:23:15 2017  
 Response via : Multiple Level Calibration



TIC: D7735.D

(12) Acetonitrile

1.80min 244.64ug/L m

response 37957

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	24.55
40.00	57.00	49.57
0.00	0.00	0.00

Manual Integration:

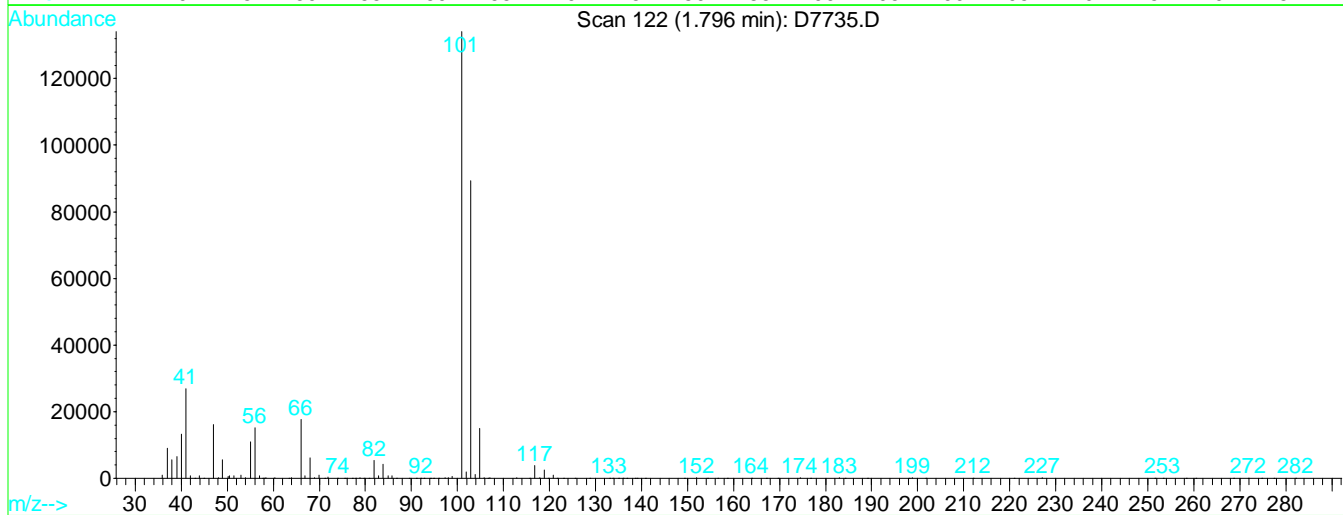
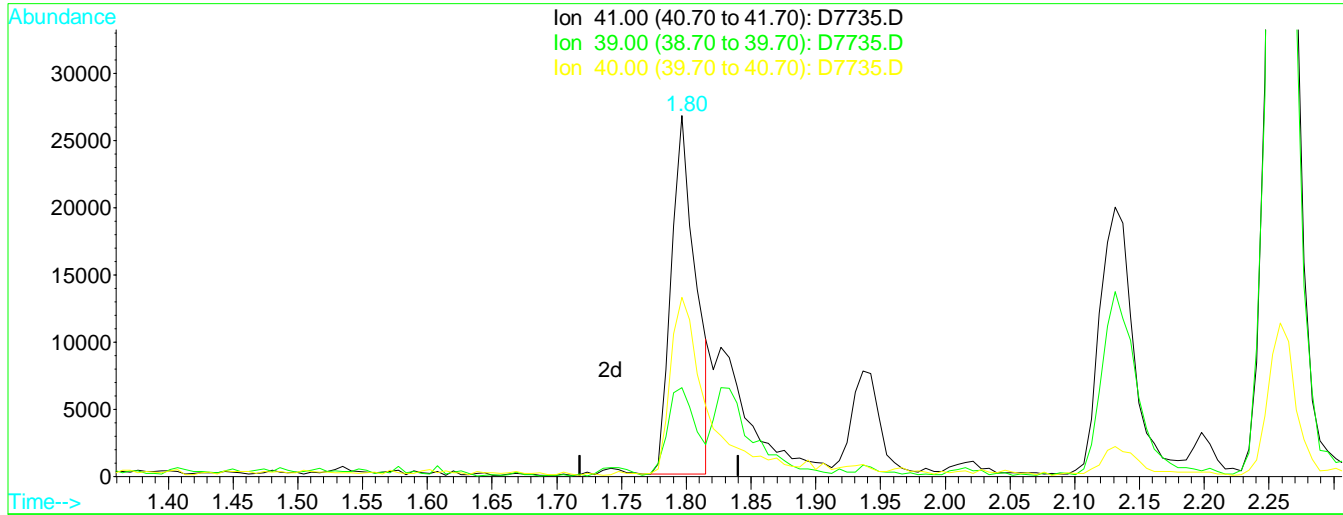
After

Split Peak.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
Sample : ICV Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:37 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Multiple Level Calibration



TIC: D7735.D

(12) Acetonitrile  
1.80min 225.67ug/L  
response 35014

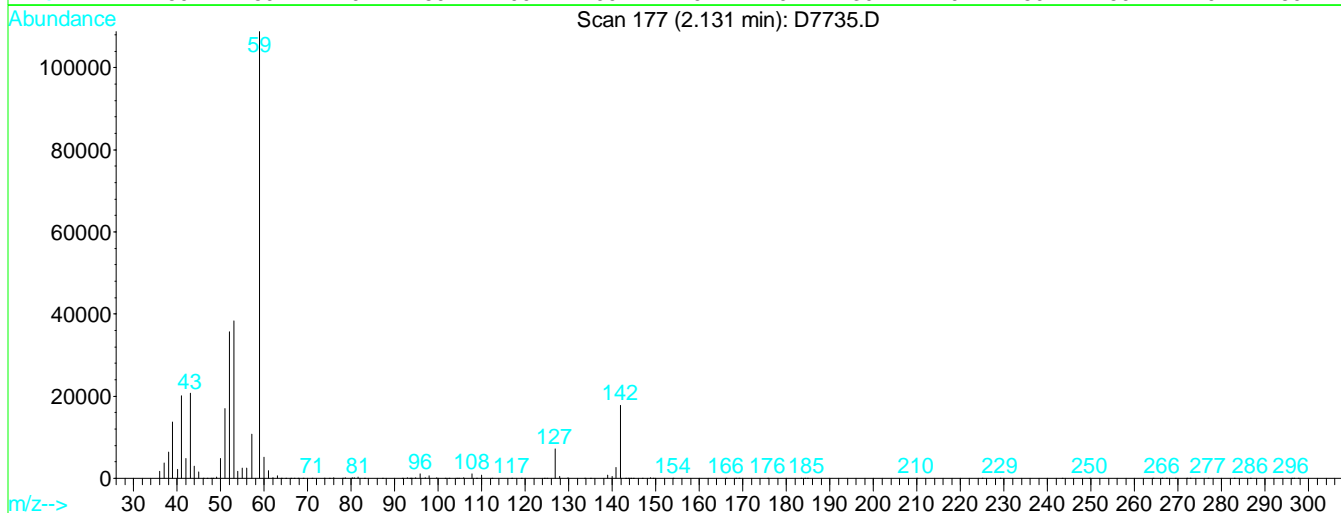
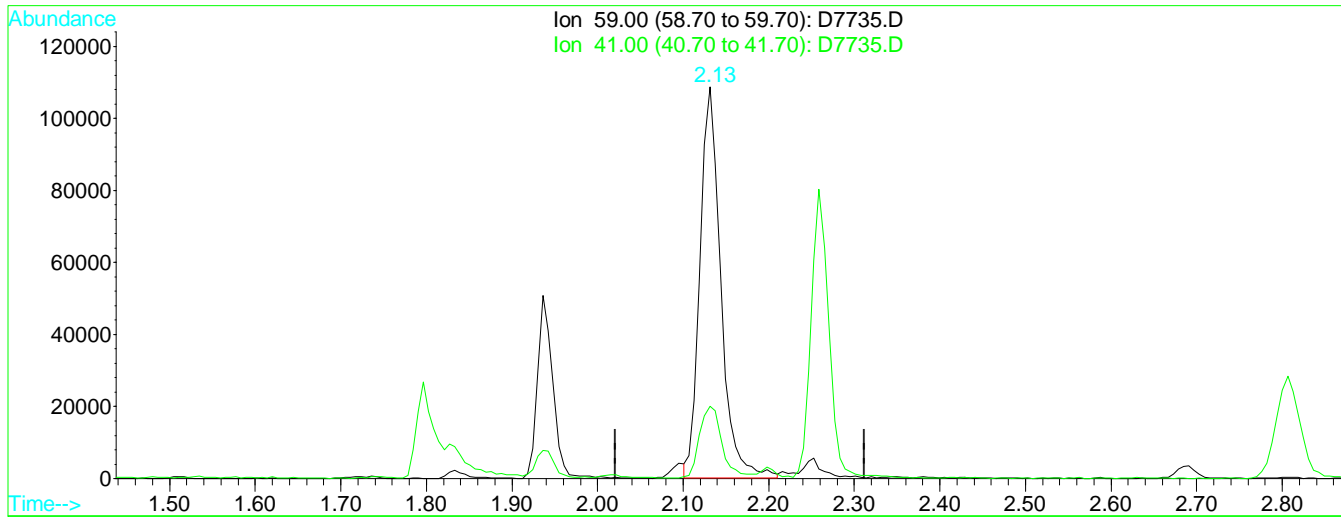
Manual Integration:  
Before

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	24.55
40.00	57.00	49.57
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
Sample : ICV Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:39 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Multiple Level Calibration



TIC: D7735.D

(18) TBA

2.13min 1001.07ug/L m

response 183011

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	18.45
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

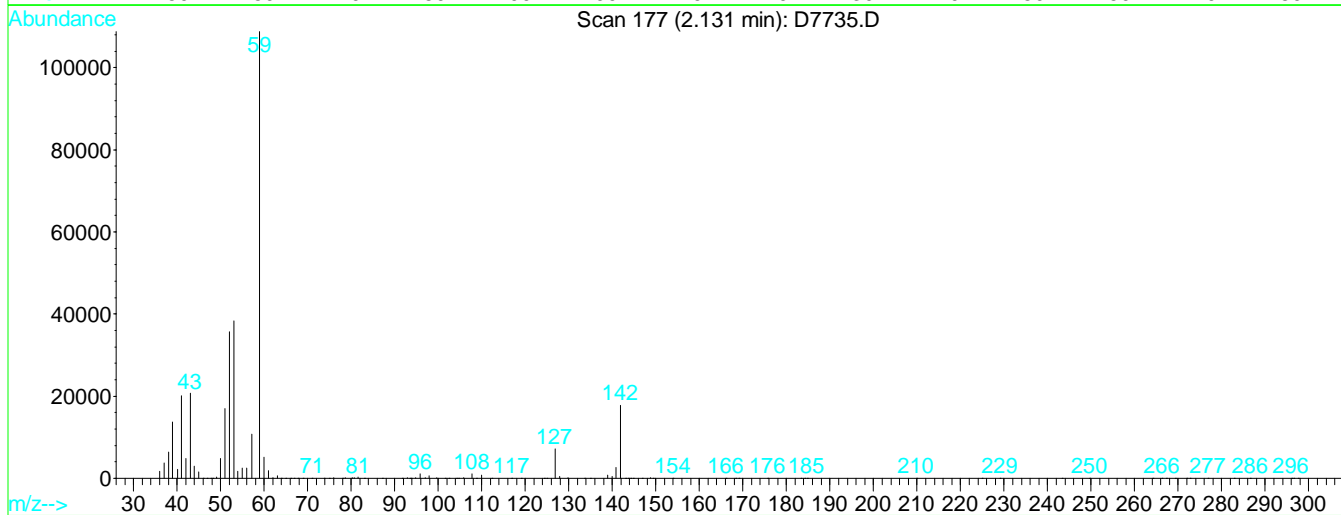
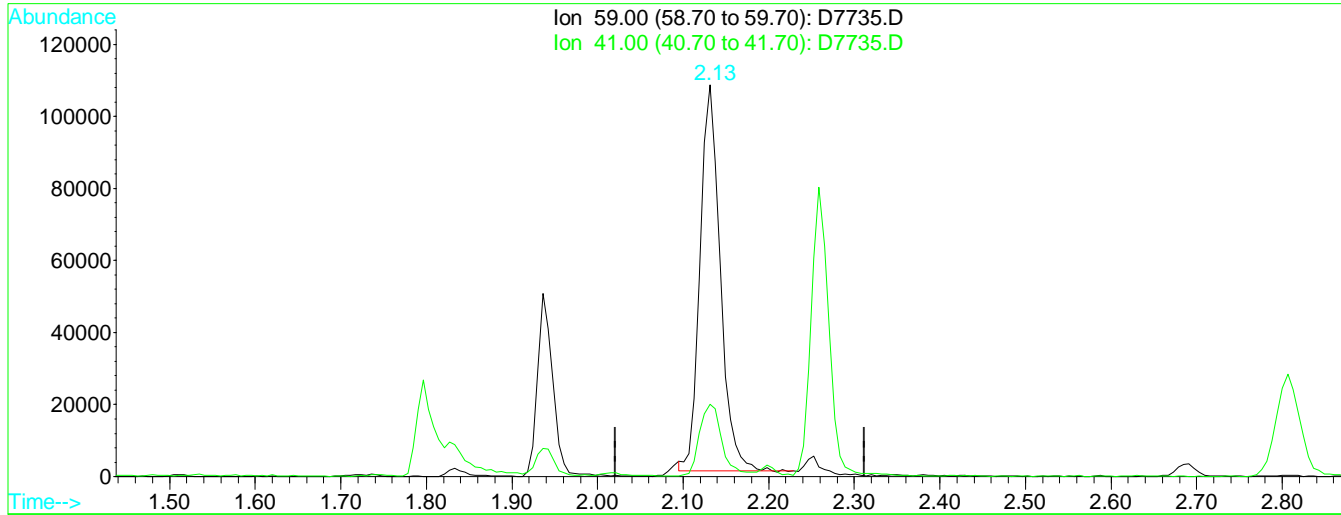
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
Sample : ICV Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:38 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Multiple Level Calibration



TIC: D7735.D

(18) TBA

Manual Integration:

2.13min 954.63ug/L

Before

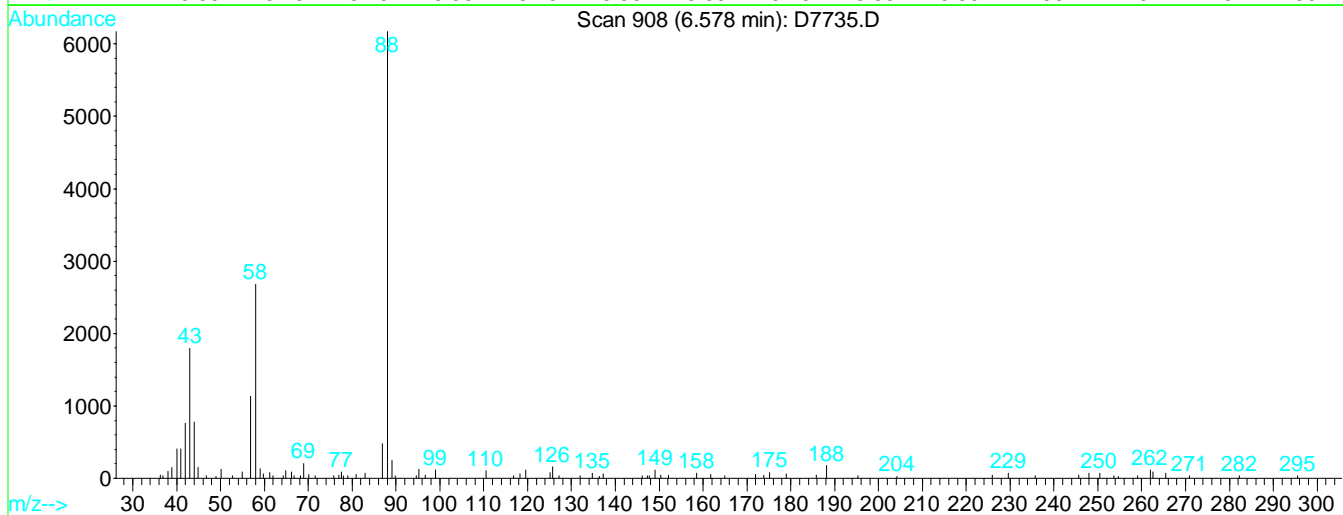
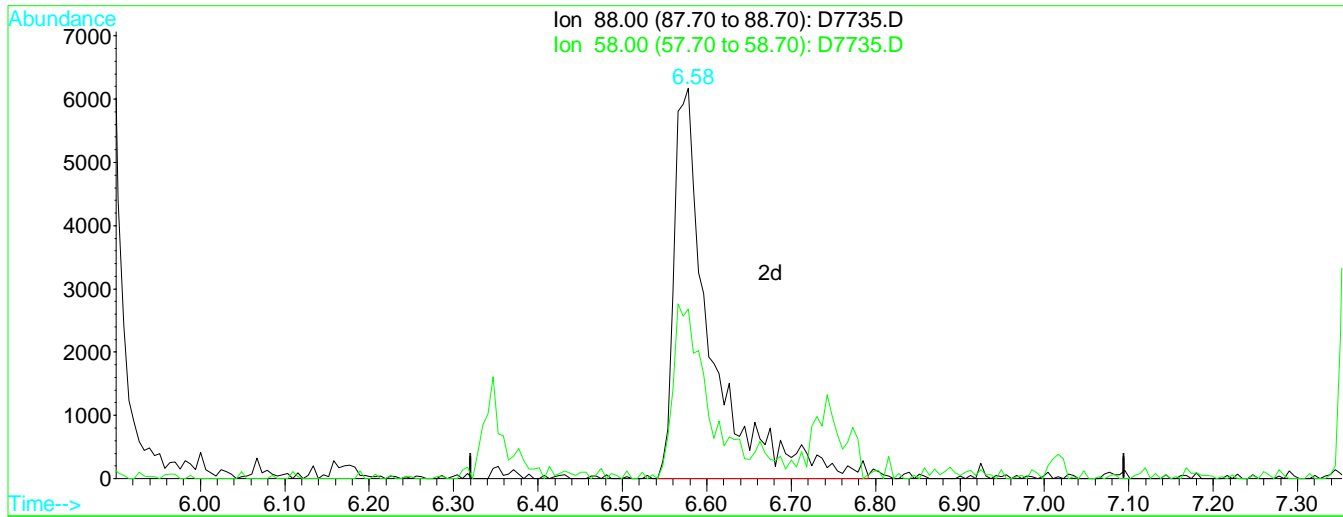
response 174520

08/25/17

Ion	Exp%	Act%
59.00	100	100
41.00	19.90	18.45
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
Sample : ICV Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:40 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Single Level Calibration



TIC: D7735.D

(56) 1,4-Dioxane

Manual Integration:

6.58min 1021.49ug/L m

After

response 18783

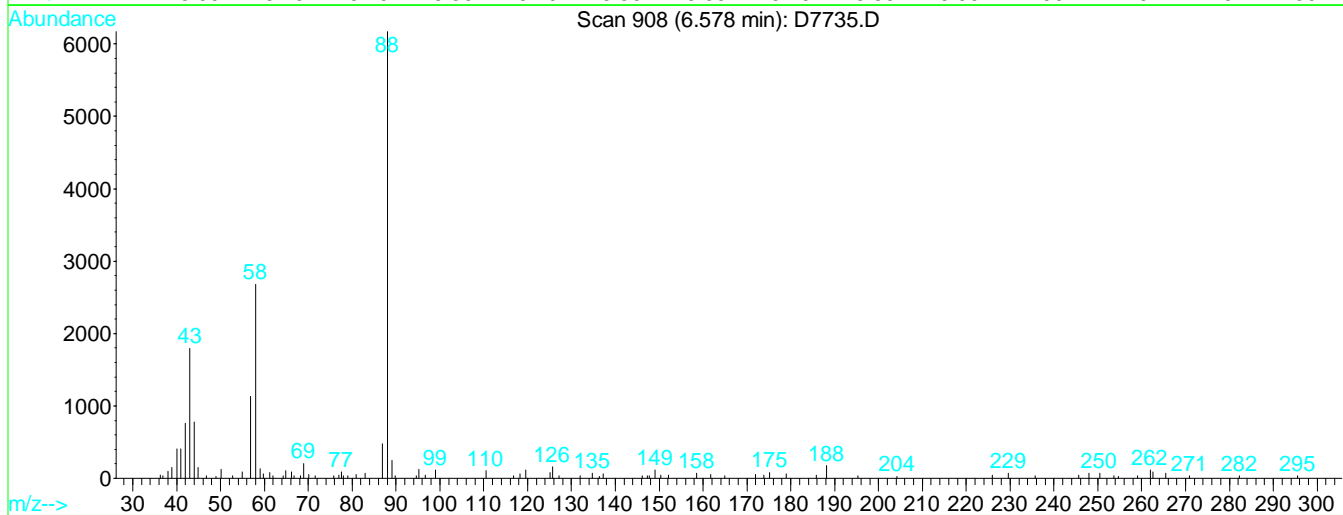
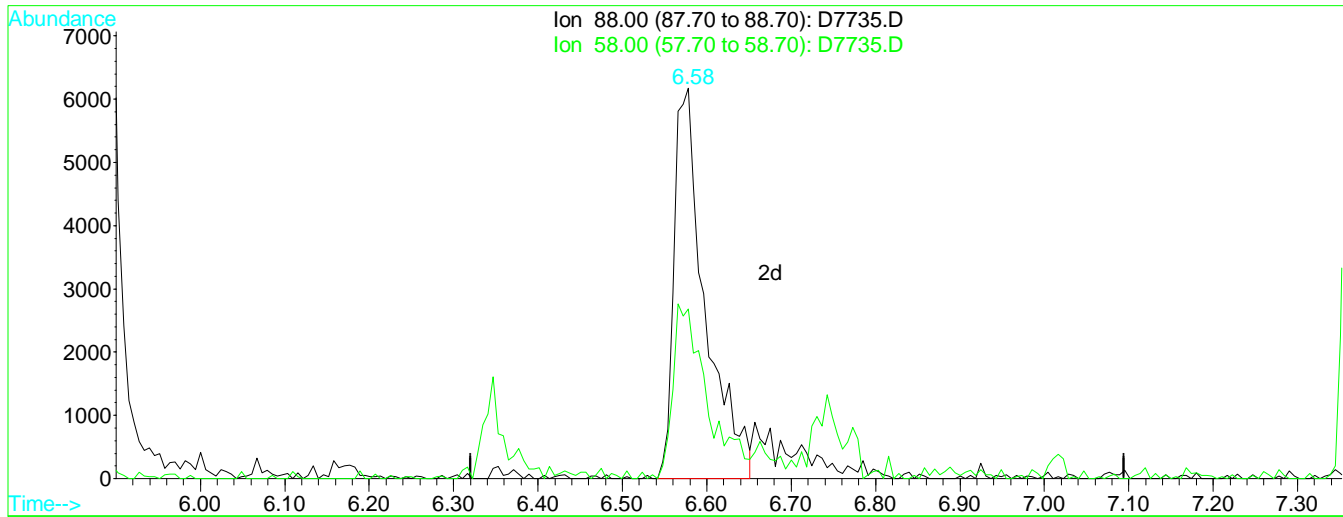
Split Peak.

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	43.48
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
Sample : ICV Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:39 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Single Level Calibration



TIC: D7735.D

(56) 1,4-Dioxane

Manual Integration:

6.58min 861.82ug/L

Before

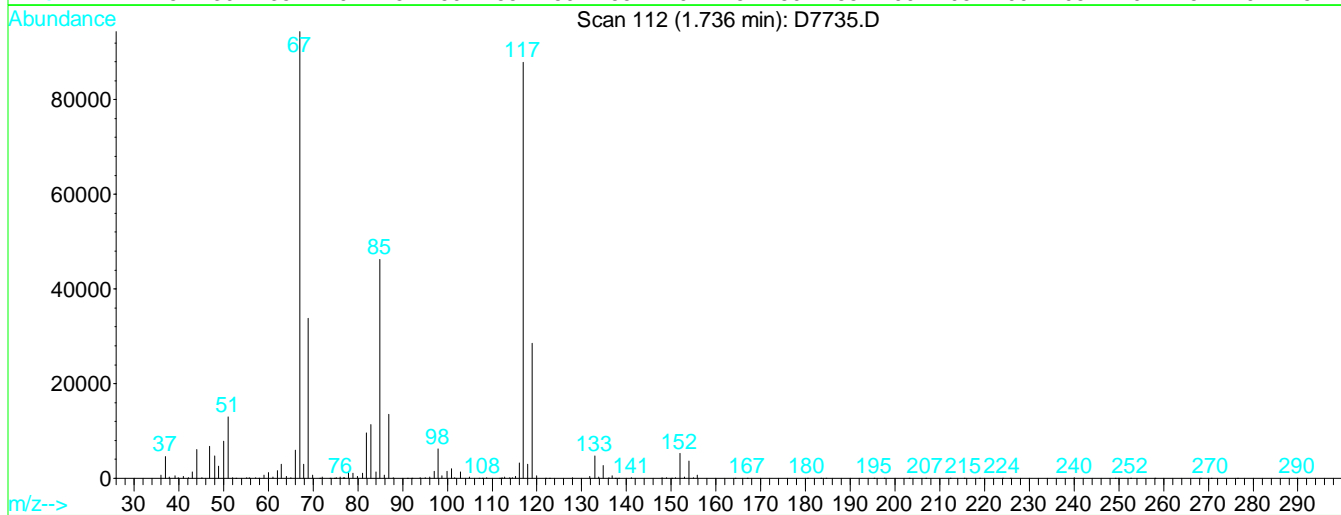
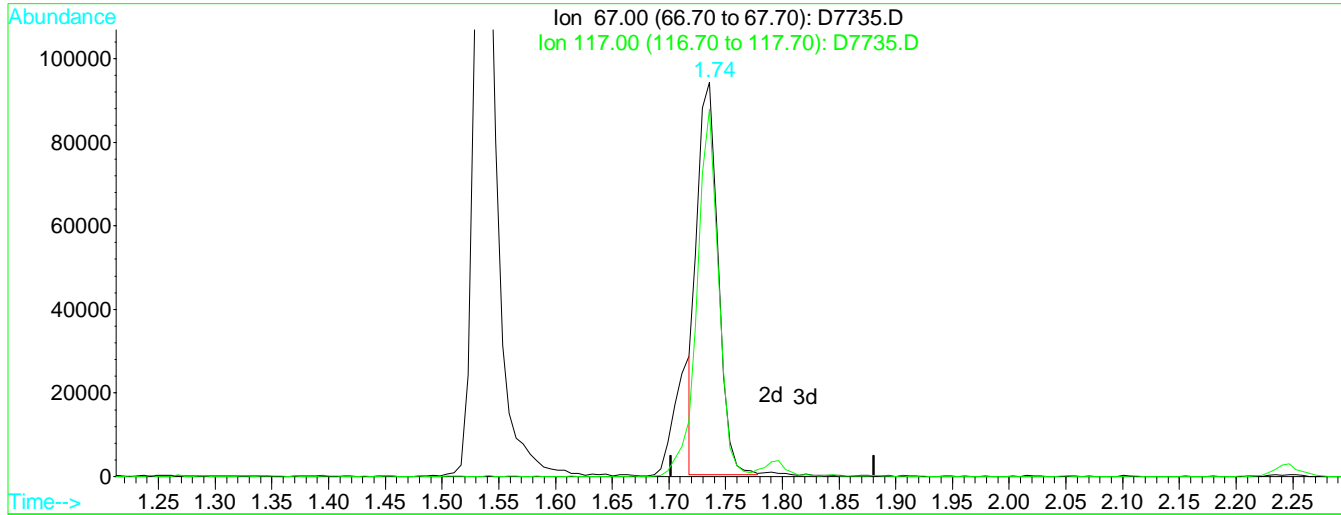
response 15847

08/25/17

Ion	Exp%	Act%
88.00	100	100
58.00	49.20	43.48
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
Sample : ICV Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:37 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Multiple Level Calibration



TIC: D7735.D

(9) Freon 123a

1.74min 47.34ug/L m

response 120904

Ion	Exp%	Act%
67.00	100	100
117.00	81.00	93.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

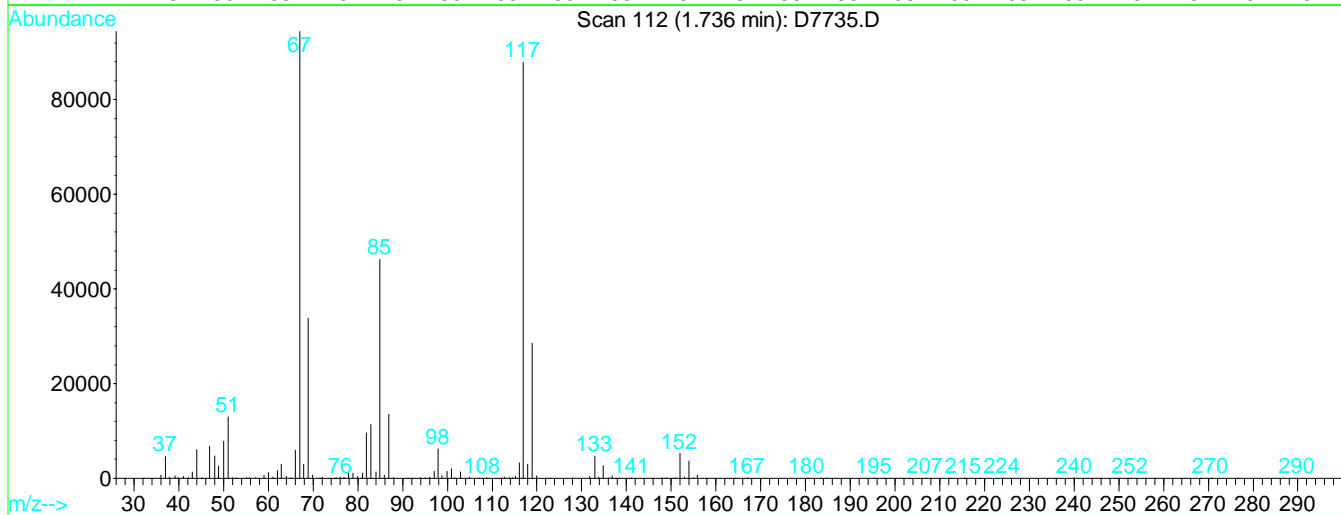
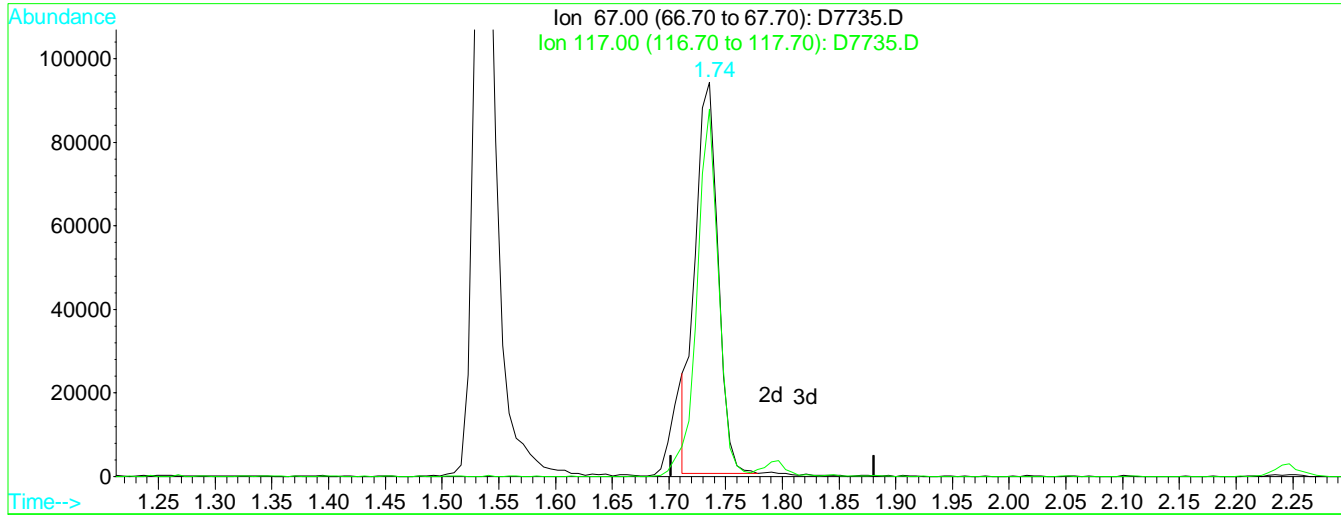
After

Poor integration.

08/25/17

Data File : I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D Vial: 18  
Acq On : 24 Aug 2017 4:05 pm Operator: D.Lipani  
Sample : ICV Inst : MS#6  
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00  
MS Integration Params: CPD4.P  
Quant Time: Aug 25 11:36 2017 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W082417.M (RTE Integrator)  
Title : 8260C / 624 WATERS  
Last Update : Fri Aug 25 11:23:15 2017  
Response via : Multiple Level Calibration



TIC: D7735.D

(9) Freon 123a  
1.74min 50.83ug/L  
response 129820

Manual Integration:  
Before

Ion	Exp%	Act%
67.00	100	100
117.00	81.00	93.18
0.00	0.00	0.00
0.00	0.00	0.00

08/25/17



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7626.D  
 Acq On : 23 Aug 2017 3:24 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 24 16:02:31 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.391	168	273032	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	402692	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	352714	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	188947	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	123886	48.98	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	97.96%
46) surr1,1,2-dichloroetha...	5.781	65	149199	48.94	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	97.88%
64) SURR3,Toluene-d8	8.311	98	472282	49.43	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	98.86%
69) SURR2,BFB	10.878	95	184510	47.61	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	95.22%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.154	85	152448	48.89	ug/L	99
3) Chloromethane	1.282	50	244799	43.50	ug/L	98
4) Vinyl Chloride	1.361	62	210632	54.94	ug/L	100
5) Bromomethane	1.587	94	90640	48.85	ug/L	97
6) Chloroethane	1.666	64	98356	39.54	ug/L	97
7) Freon 21	1.812	67	263427	52.23	ug/L	99
8) Trichlorofluoromethane	1.861	101	164420	45.35	ug/L	98
9) Diethyl Ether	2.093	59	141478	46.94	ug/L	99
10) Freon 123a	2.099	67	182054	58.22	ug/L	98
11) Freon 123	2.154	83	183188	54.59	ug/L	94
12) Acrolein	2.196	56	83112	90.42	ug/L	98
13) 1,1-Diclcethene	2.288	96	99510	44.39	ug/L	96
14) Freon 113	2.288	101	100663	45.38	ug/L	100
15) Acetone	2.330	43	97104	48.95	ug/L	99
16) 2-Propanol	2.465	45	348495	1016.55	ug/L	99
17) Iodomethane	2.416	142	155002	41.79	ug/L	99
18) Carbon Disulfide	2.477	76	290854	44.59	ug/L	100
19) Acetonitrile	2.580	40	101431	239.42	ug/L	99
20) Allyl Chloride	2.617	76	53979	55.73	ug/L	95
21) Methyl Acetate	2.641	43	195570	34.68	ug/L	99
22) Methylene Chloride	2.733	84	119215	46.62	ug/L	97
23) TBA	2.867	59	439503	1013.37	ug/L	99
24) Acrylonitrile	2.989	53	454843	234.36	ug/L	97
25) Methyl-t-Butyl Ether	3.038	73	353345	47.46	ug/L	98
26) trans-1,2-Dichloroethene	3.031	96	108229	44.29	ug/L	98
27) 1,1-Diclcethane	3.531	63	244065	47.32	ug/L	96
28) Vinyl Acetate	3.617	86	26887	53.95	ug/L #	78
29) DIPE	3.659	45	648787	49.61	ug/L	95
30) 2-Chloro-1,3-Butadiene	3.653	53	245998	48.87	ug/L	99
31) ETBE	4.190	59	452075	51.77	ug/L	100
32) 2,2-Dichloropropane	4.367	77	130061	54.34	ug/L	95
33) cis-1,2-Dichloroethene	4.373	96	129531	45.82	ug/L	96
34) 2-Butanone	4.421	43	135215	47.72	ug/L	96
35) Propionitrile	4.501	54	187640	239.28	ug/L	91
36) Bromochloromethane	4.769	130	87939	47.27	ug/L	96
37) Methacrylonitrile	4.769	67	67991	47.02	ug/L	88
38) Tetrahydrofuran	4.860	42	78061	44.75	ug/L	94
39) Chloroform	4.952	83	197782	48.84	ug/L	100
40) 1,1,1-Trichloroethane	5.251	97	154870	49.18	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7626.D  
 Acq On : 23 Aug 2017 3:24 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 24 16:02:31 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	179858	50.82	ug/L	100
44) Carbontetrachloride	5.537	117	121818	48.23	ug/L	98
45) 1,1-Dichloropropene	5.543	75	149843	44.77	ug/L	98
47) Benzene	5.860	78	458095	45.91	ug/L	97
48) 1,2-Dichloroethane	5.903	62	192609	48.27	ug/L	98
49) Iso-Butyl Alcohol	5.885	43	240428	979.02	ug/L	98
50) TAME	6.104	73	336870	52.80	ug/L	99
51) n-Heptane	6.354	43	214622	46.54	ug/L	98
52) 1-Butanol	6.787	56	773	21.88	ug/L	75
53) Trichloroethene	6.817	130	129806	47.06	ug/L	98
54) Methylcyclohexane	7.055	55	230484	51.56	ug/L	97
55) 1,2-Diclpropane	7.098	63	148803	45.97	ug/L	98
56) Dibromomethane	7.244	93	80837	48.35	ug/L	96
57) 1,4-Dioxane	7.305	88	46011	977.92	ug/L	83
58) Methyl Methacrylate	7.329	69	105414	52.98	ug/L	97
59) Bromodichloromethane	7.470	83	139490	49.71	ug/L	99
60) 2-Nitropropane	7.750	41	59947	87.37	ug/L	100
61) 2-Chloroethylvinyl Ether	7.878	63	54296	48.62	ug/L	97
62) cis-1,3-Dichloropropene	8.012	75	182996	50.85	ug/L	99
63) 4-Methyl-2-pentanone	8.219	43	220632	47.41	ug/L	99
65) Toluene	8.384	91	503983	46.52	ug/L	97
66) trans-1,3-Dichloropropene	8.652	75	155392	58.60	ug/L	97
67) Ethyl Methacrylate	8.799	69	183286	53.40	ug/L	94
68) 1,1,2-Trichloroethane	8.841	97	117472	49.58	ug/L	96
71) Tetrachloroethene	8.975	164	97128	46.51	ug/L	99
72) 2-Hexanone	9.134	43	170789	47.77	ug/L	100
73) 1,3-Dichloropropane	9.012	76	201226	47.96	ug/L	99
74) Dibromochloromethane	9.238	129	117673	51.14	ug/L	98
75) N-Butyl Acetate	9.286	43	357948	56.27	ug/L	99
76) 1,2-Dibromoethane	9.335	107	127341	53.14	ug/L	93
77) 3-Chlorobenzotrifluoride	9.847	180	205906	53.25	ug/L	99
78) Chlorobenzene	9.829	112	338226	46.32	ug/L	99
79) 4-Chlorobenzotrifluoride	9.902	180	184811	51.09	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.914	131	114919	56.09	ug/L	99
81) Ethylbenzene	9.951	106	181179	50.00	ug/L	97
82) (m+p)Xylene	10.061	106	445339	97.33	ug/L	97
83) o-Xylene	10.420	106	215683	46.93	ug/L	97
84) Styrene	10.432	104	375431	49.96	ug/L	99
85) Bromoform	10.585	173	80704	54.72	ug/L	98
86) 2-Chlorobenzotrifluoride	10.664	180	204247	53.26	ug/L	98
87) Isopropylbenzene	10.756	105	550119	48.95	ug/L	99
88) Cyclohexanone	10.817	55	765235	1044.39	ug/L	100
89) trans-1,4-Dichloro-2-B...	11.060	53	48589	50.94	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.012	83	173215	50.19	ug/L	99
92) Bromobenzene	10.999	156	151948	47.52	ug/L	98
93) 1,2,3-Trichloropropane	11.042	110	52774	47.79	ug/L #	85
94) n-Propylbenzene	11.109	91	648090	48.20	ug/L	99
95) 2-Chlorotoluene	11.170	91	377563	46.80	ug/L	99
96) 3-Chlorotoluene	11.225	91	429731	51.51	ug/L	99
97) 4-Chlorotoluene	11.268	91	448735	48.18	ug/L	99
98) 1,3,5-Trimethylbenzene	11.262	105	463428	49.29	ug/L	99
99) tert-Butylbenzene	11.536	119	411431	47.65	ug/L	100
100) 1,2,4-Trimethylbenzene	11.572	105	476435	47.95	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.633	214	155269	51.33	ug/L	99
102) sec-Butylbenzene	11.719	105	587892	47.49	ug/L	99
103) p-Isopropyltoluene	11.841	119	515497	49.17	ug/L	100

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7626.D  
 Acq On : 23 Aug 2017 3:24 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 24 16:02:31 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

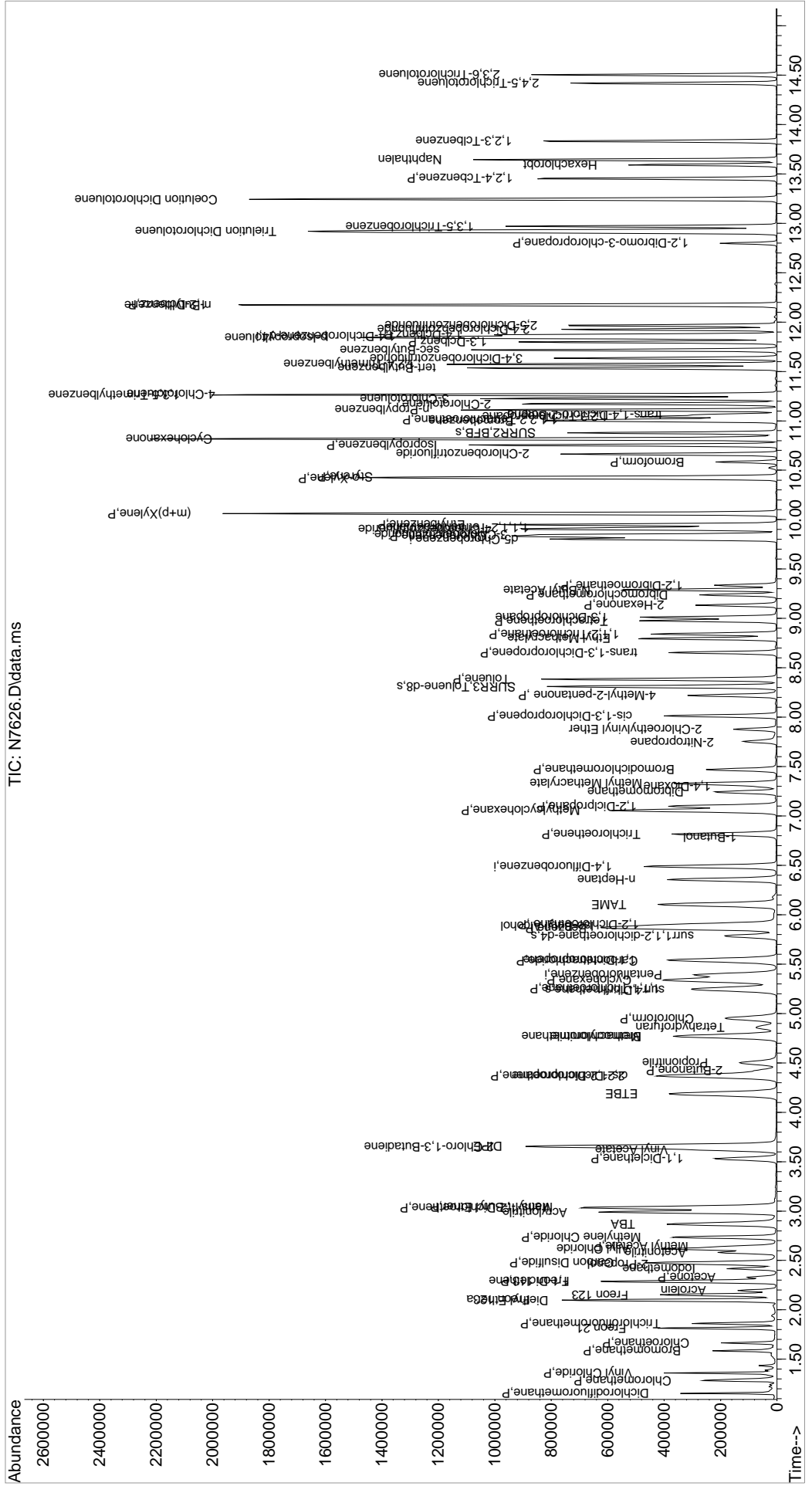
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	281176	46.09	ug/L	98
105) 1,4-Dclbenz	11.871	146	290621	47.75	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	141694	50.70	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.969	214	160622	52.30	ug/L	99
108) n-Butylbenzene	12.170	91	457889	49.95	ug/L	99
109) 1,2-Dclbenz	12.176	146	281901	46.68	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	38740	54.08	ug/L	95
111) Trielution Dichlorotol...	12.920	125	829293	157.99	ug/L	99
112) 1,3,5-Trichlorobenzene	12.969	180	227695	50.87	ug/L	98
113) Coelution Dichlorotoluene	13.243	125	600162	104.45	ug/L	99
114) 1,2,4-Tcbenzene	13.456	180	211798	50.13	ug/L	95
115) Hexachlorobt	13.590	225	76035	47.28	ug/L	98
116) Naphthalen	13.645	128	642996	53.54	ug/L	100
117) 1,2,3-Tclbenzene	13.834	180	209194	49.60	ug/L	100
118) 2,4,5-Trichlorotoluene	14.419	159	150781	58.85	ug/L	99
119) 2,3,6-Trichlorotoluene	14.505	159	165995	69.19	ug/L	99

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

Data Path : I:\ACQDATA\msvoa10\data\082317\  
 Data File : N7626.D  
 Acq On : 23 Aug 2017 3:24 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA10

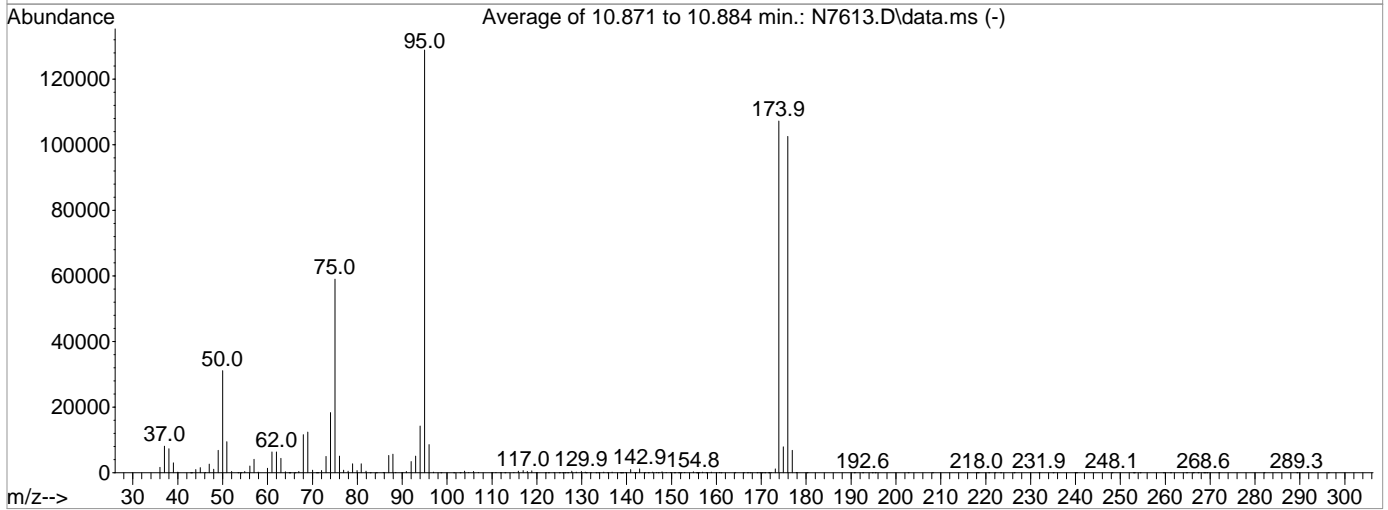
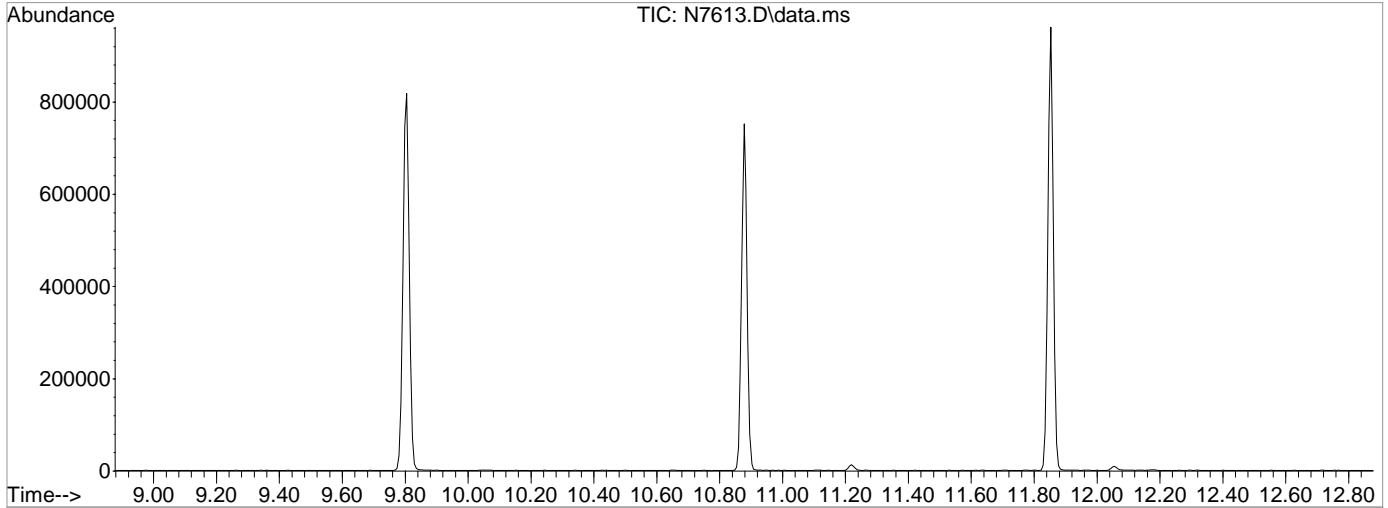
Quant Time: Aug 24 16:02:31 2017  
 Quant Method : I:\ACQDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7613.D  
Acq On : 23 Aug 2017 10:08 am  
Operator : F. NAEGLER  
Sample : TUNE  
Misc :  
ALS Vial : 1 Sample Multiplier: 1  
Inst : MSVOA10

Integration File: RTEINT.P

Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Title : MS#10 - 8260B WATERS 10mL Purge  
Last Update : Tue Aug 22 15:40:34 2017



AutoFind: Scans 1605, 1606, 1607; Background Corrected with Scan 1598

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.1	31131	PASS
75	95	30	60	45.8	59029	PASS
95	95	100	100	100.0	128915	PASS
96	95	5	9	6.7	8590	PASS
173	174	0.00	2	1.1	1177	PASS
174	95	50	120	83.2	107237	PASS
175	174	5	9	7.4	7937	PASS
176	174	95	101	95.7	102592	PASS
177	176	5	9	6.7	6859	PASS

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7614.D  
 Acq On : 23 Aug 2017 10:37 am  
 Operator : F. NAEGLER  
 Sample : ICAL BLK Inst : MSVOA10  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 16:02:07 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 16:00:37 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.391	168	263900	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	392656	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	348331	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	172809	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	122558	49.69	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	99.38%	
46) surr1,1,2-dichloroetha...	5.781	65	151564	50.99	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	101.98%	
64) SURR3,Toluene-d8	8.311	98	469011	50.35	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.70%	
69) SURR2,BFB	10.877	95	184918	48.94	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.88%	
Target Compounds						
5) Bromomethane	1.599	94	357	Below Cal	Qvalue #	62
15) Acetone	2.324	43	1153	0.60 ug/L		89

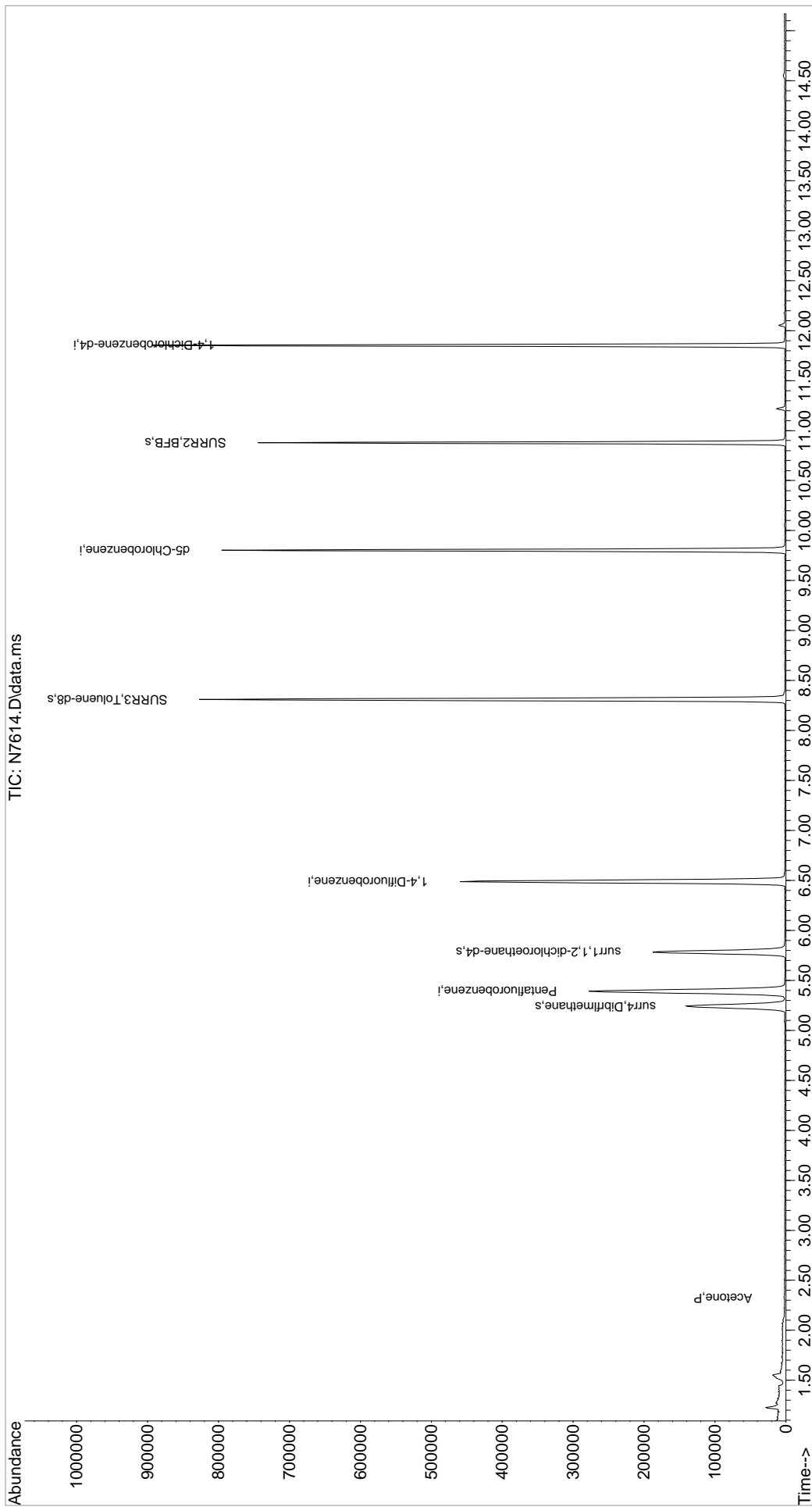
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\082317\  
Data File : N7614.D  
Acq On : 23 Aug 2017 10:37 am  
Operator : F. NAEGLER  
Sample : ICAL BLK  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA10

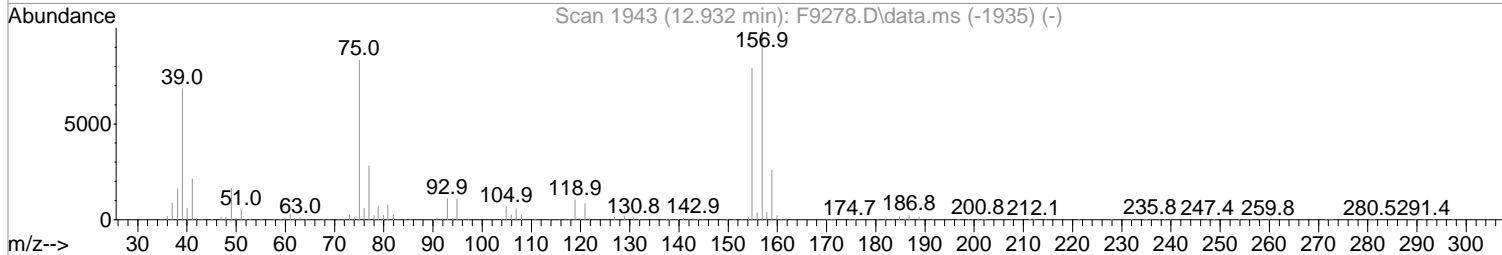
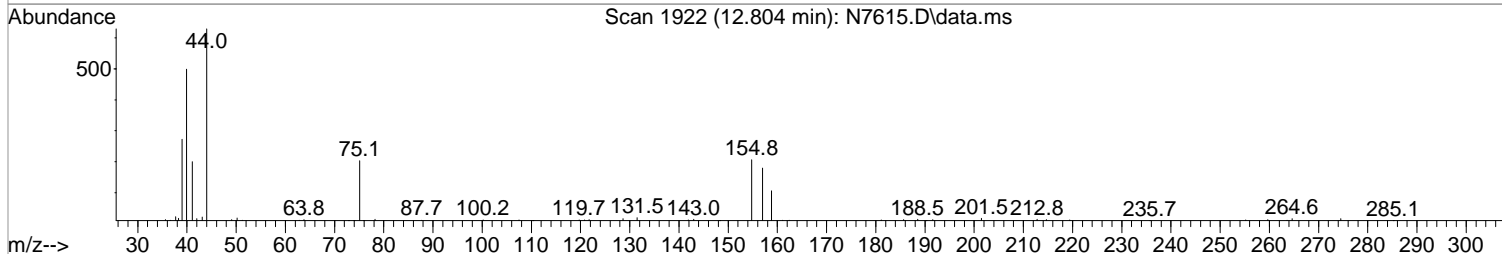
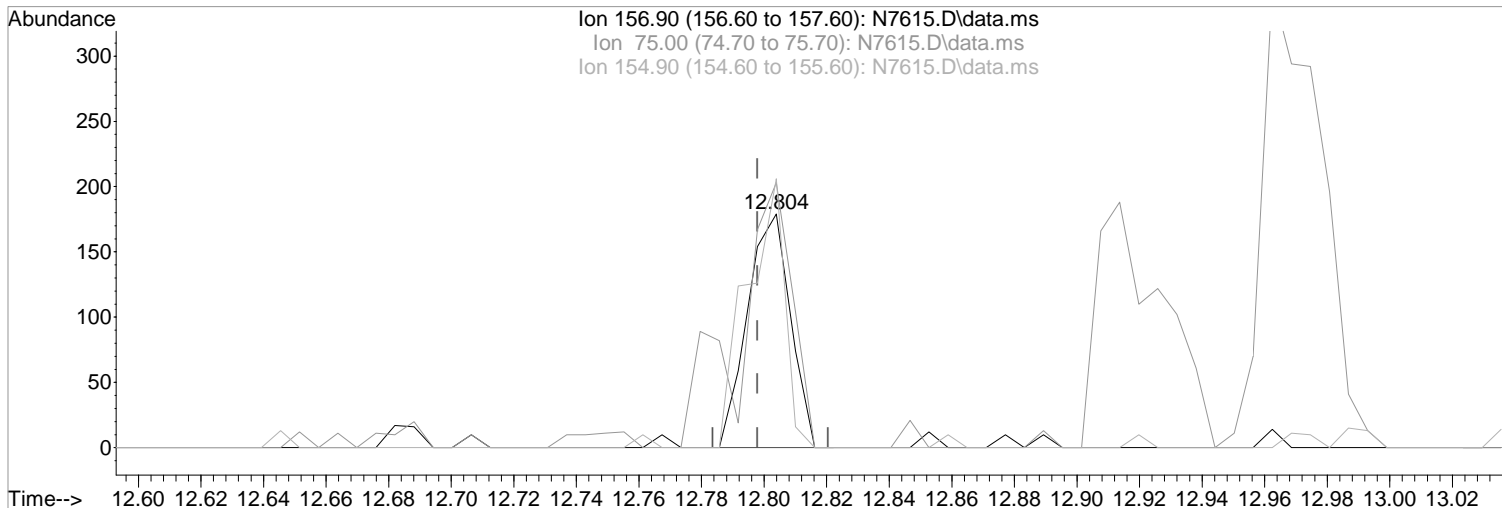
Quant Time: Aug 24 16:02:07 2017  
Quant Method : I:\ACQDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 16:00:37 2017  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(110) 1,2-Dibromo-3-chloropropane (P)

12.804min (+0.006) 0.18 ug/L m  
response 170

Ion	Exp%	Act%
156.90	100	100
75.00	83.20	113.41#
154.90	79.10	115.08#
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

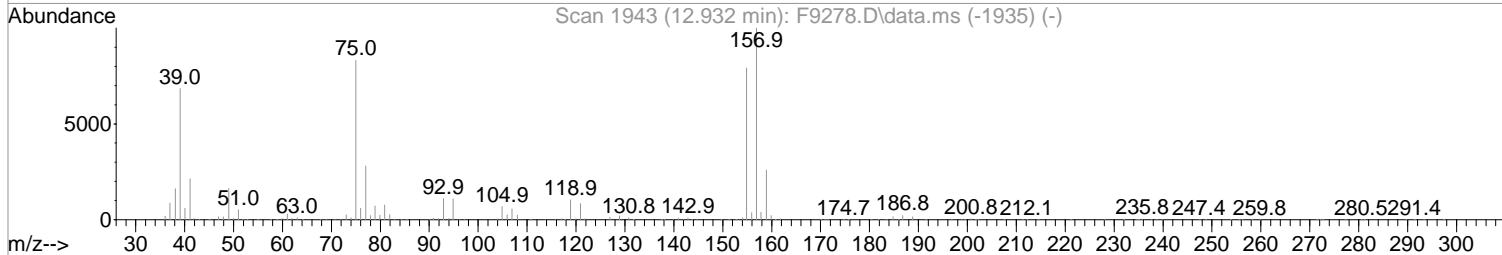
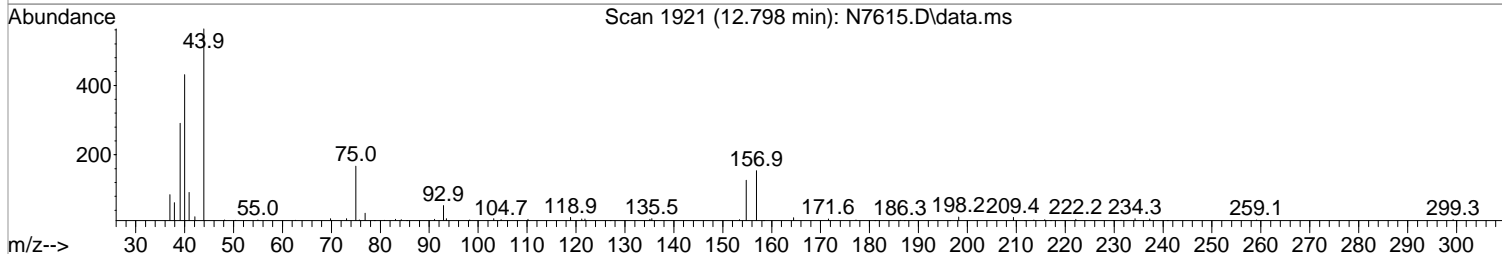
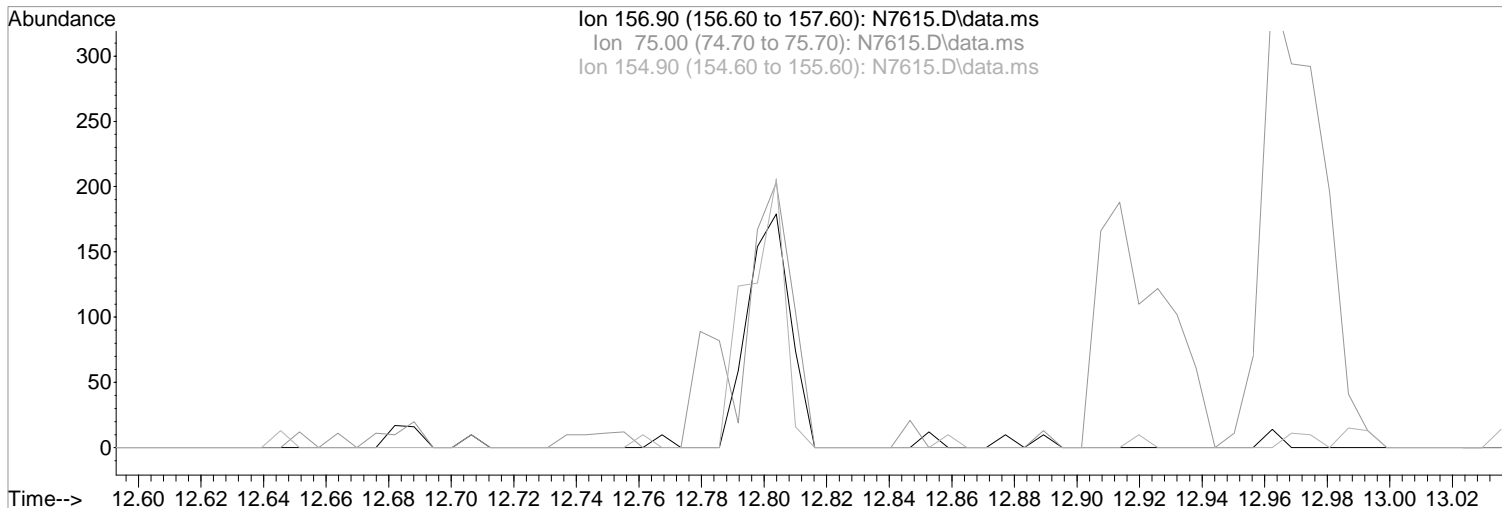
08/24/17



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(110) 1,2-Dibromo-3-chloropropane (P)

Manual Integration:

12.798min (-12.798) 0.00 ug/L

Before

response 0

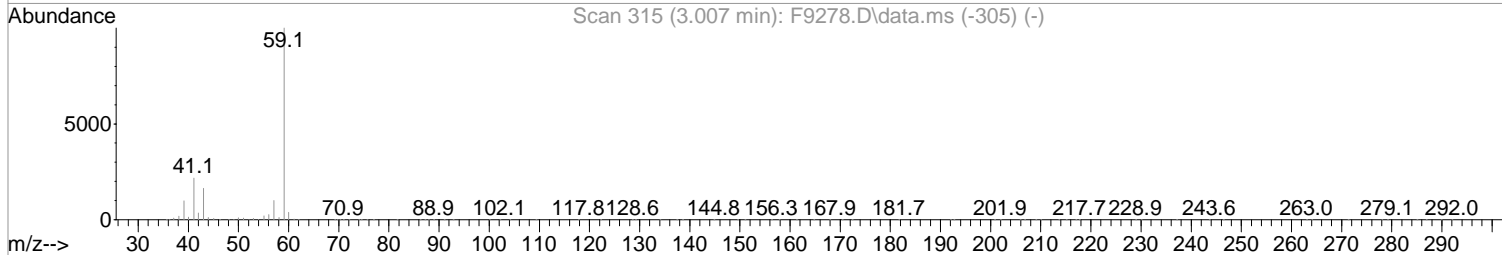
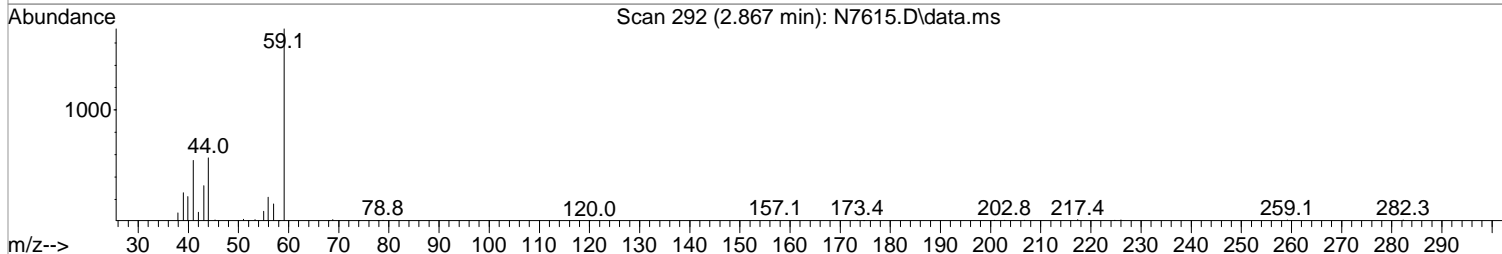
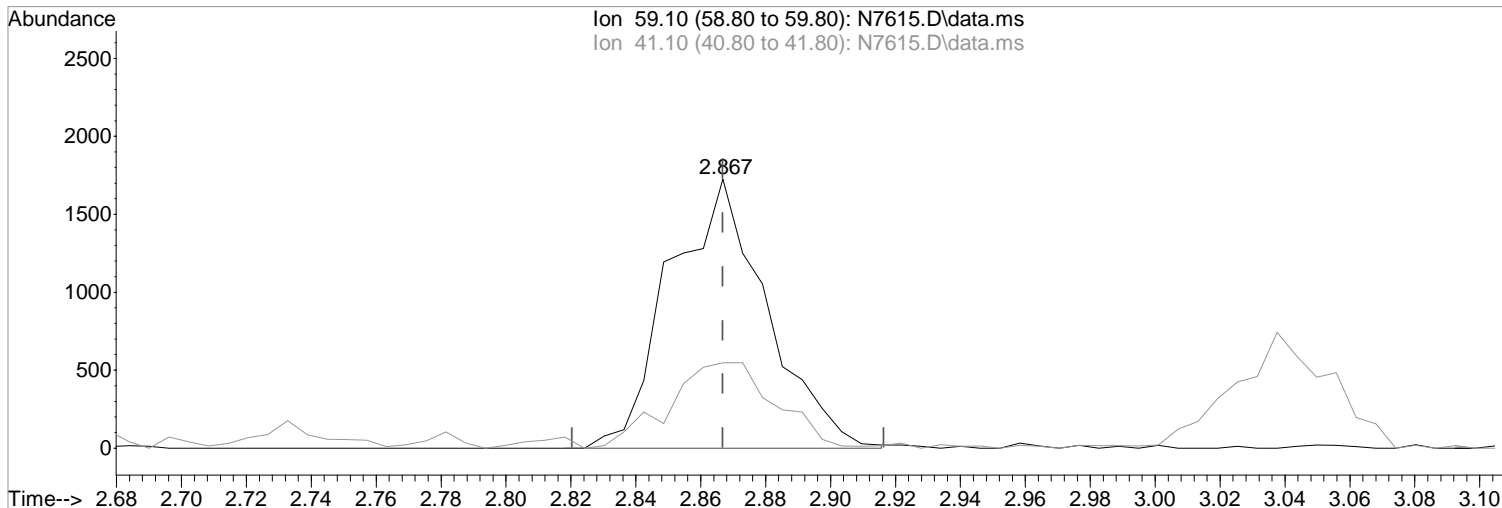
Ion	Exp%	Act%
156.90	100	0.00
75.00	83.20	0.00#
154.90	79.10	0.00#
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(23) TBA  
2.867min (-0.000) 5.89 ug/L m  
response 3569

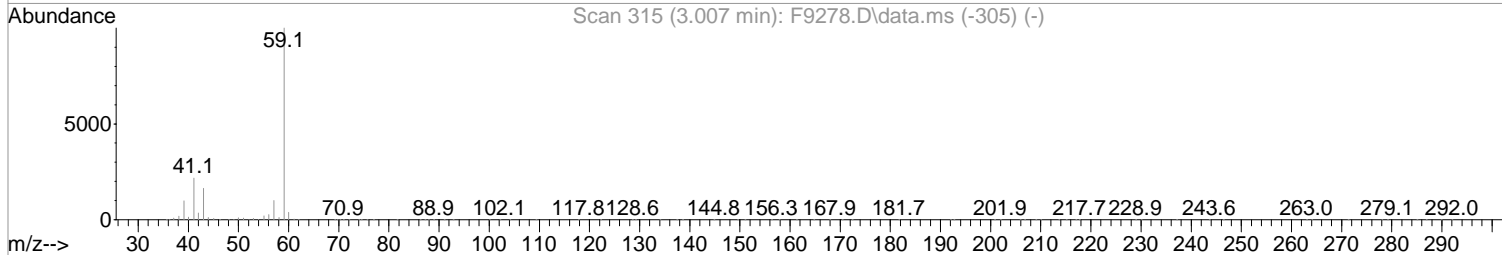
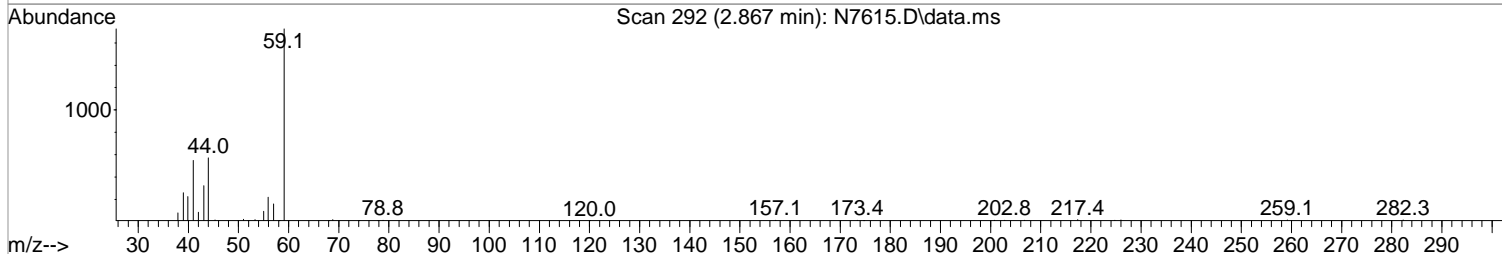
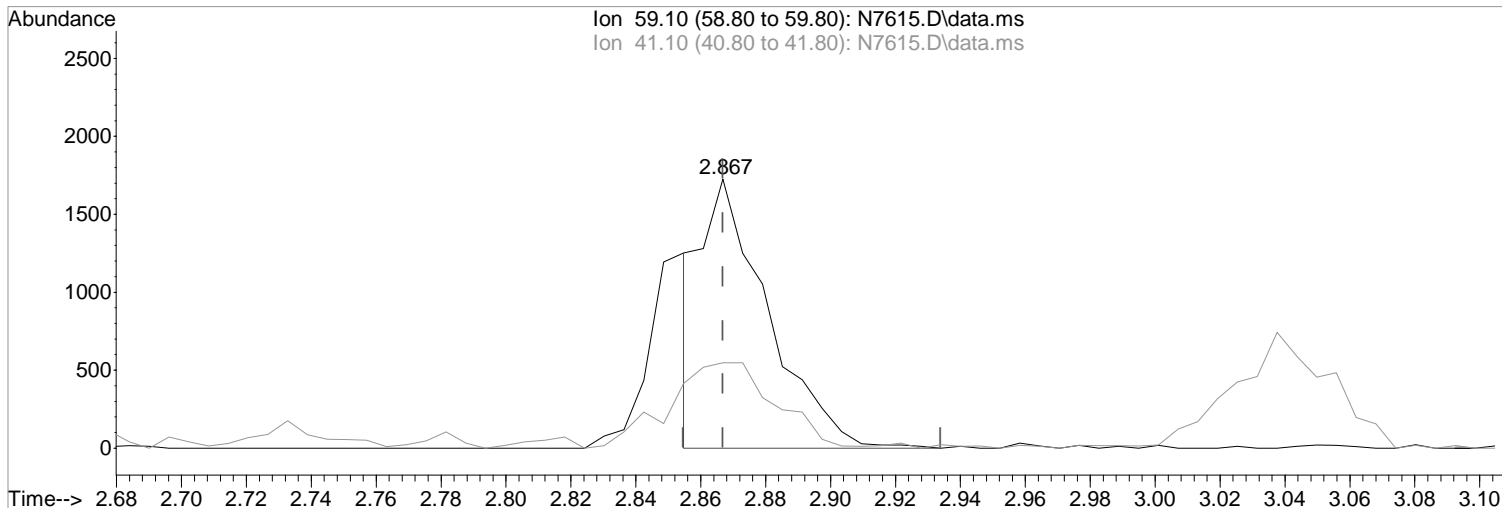
Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
59.10	100	100
41.10	21.80	31.71
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



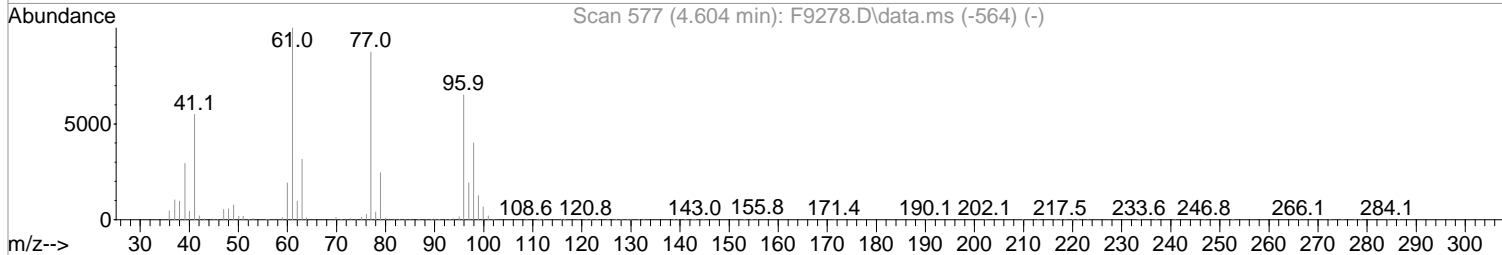
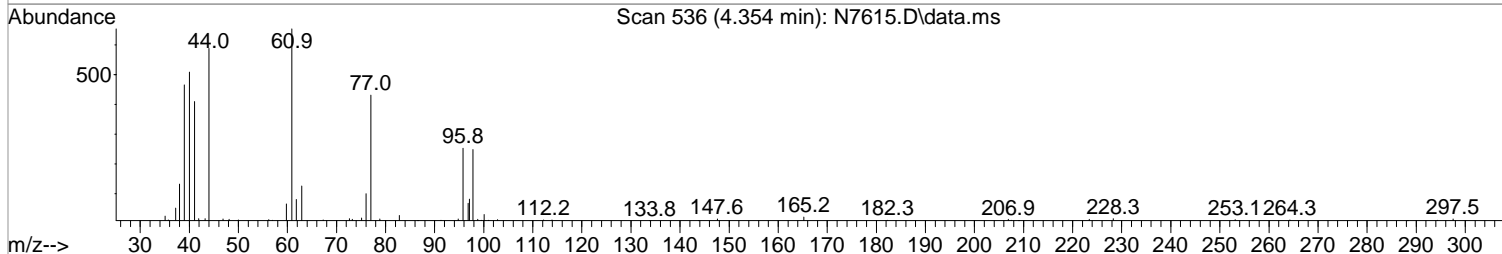
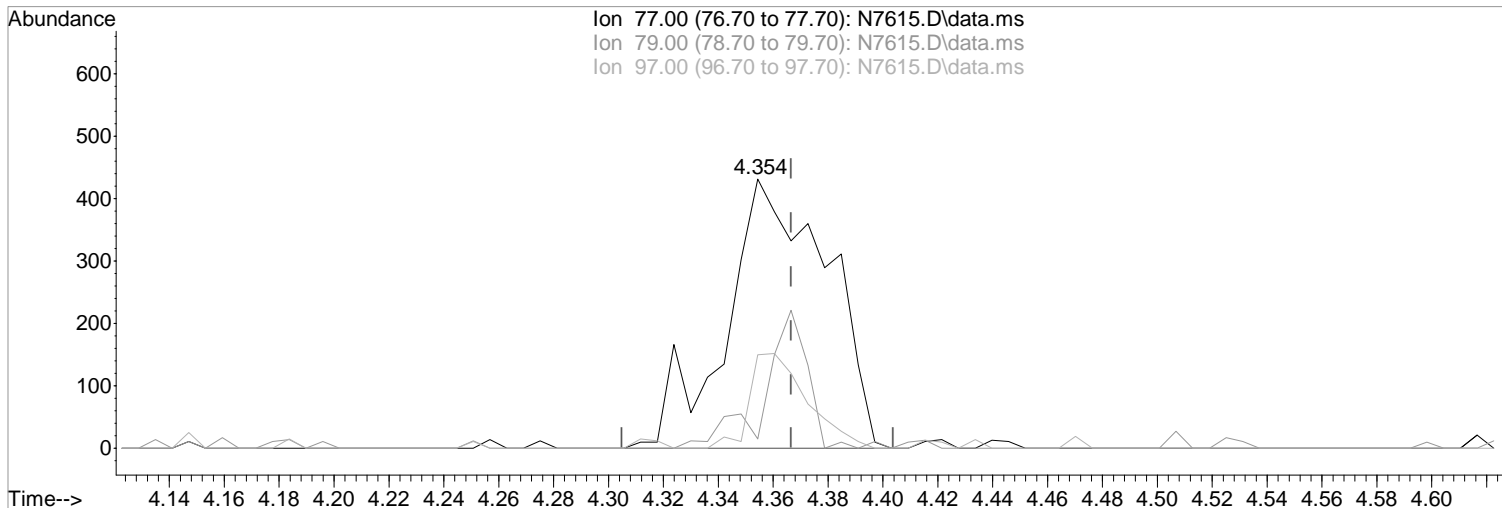
TIC: N7615.D\data.ms

(23) TBA	Manual Integration:
2.867min (-0.000) 4.05 ug/L	Before
response 2455	
Ion Exp% Act%	08/24/17
59.10 100 100	
41.10 21.80 31.71	
0.00 0.00 0.00	
0.00 0.00 0.00	

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(32) 2,2-Dichloropropane  
4.354min (-0.012) 0.30 ug/L m  
response 1112

Manual Integration:

After

Poor integration.

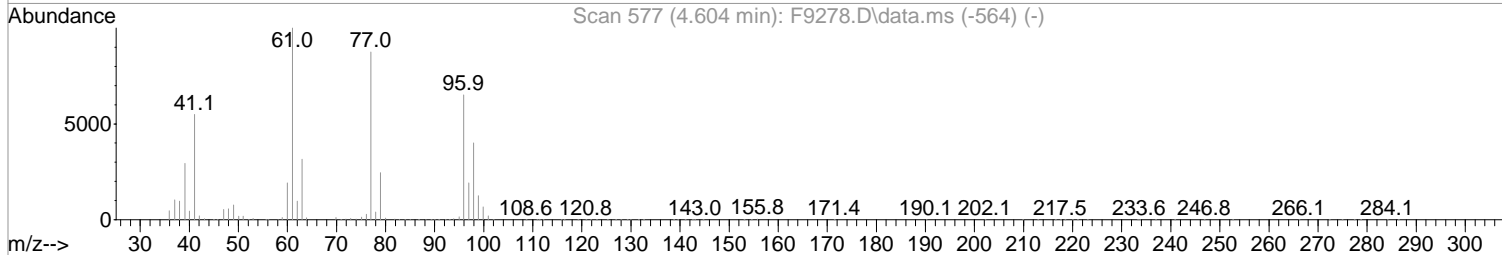
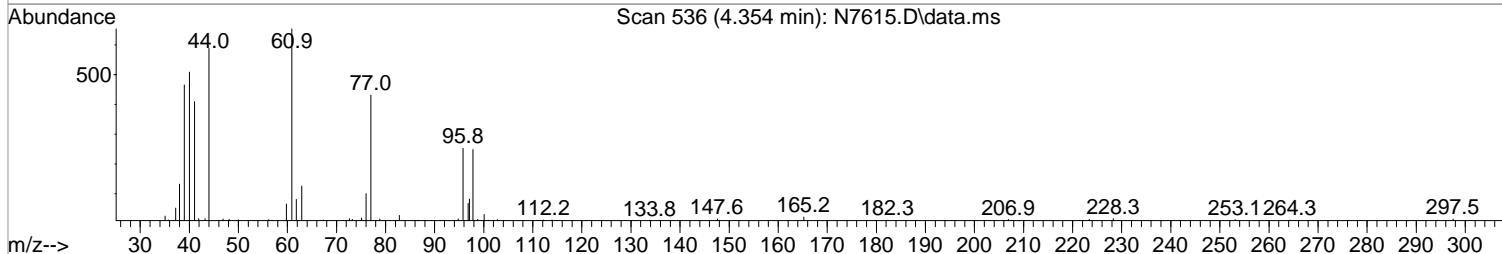
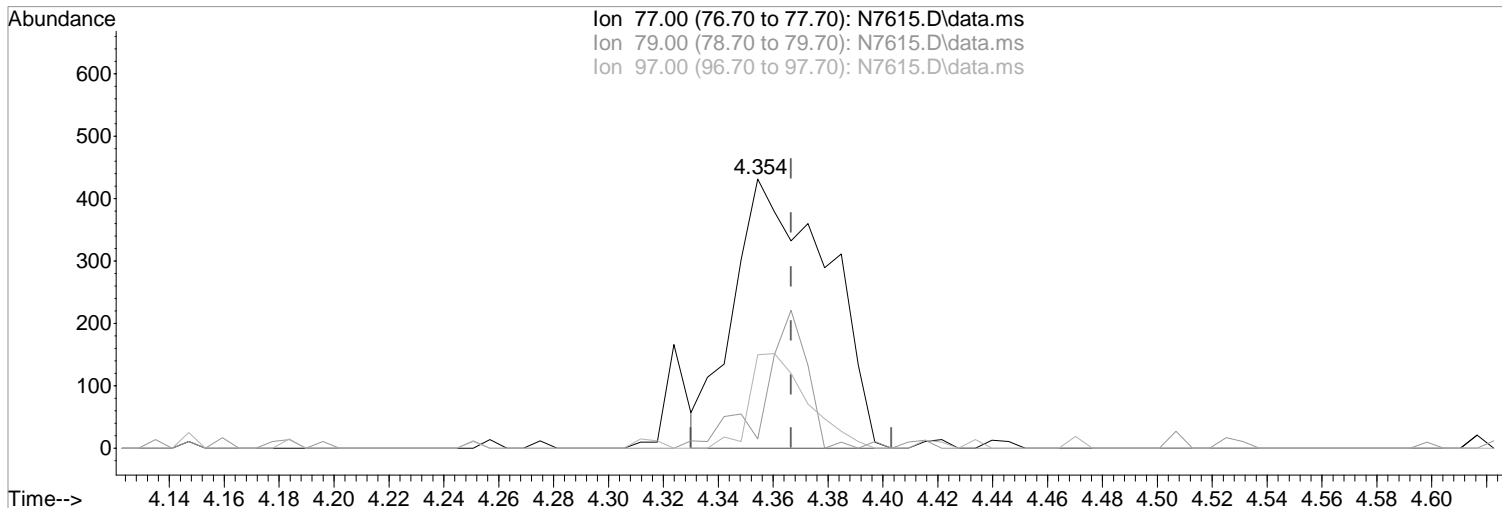
08/24/17

Ion	Exp%	Act%
77.00	100	100
79.00	28.00	3.48#
97.00	21.90	19.03
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(32) 2,2-Dichloropropane  
4.354min (-0.012) 0.28 ug/L  
response 1023

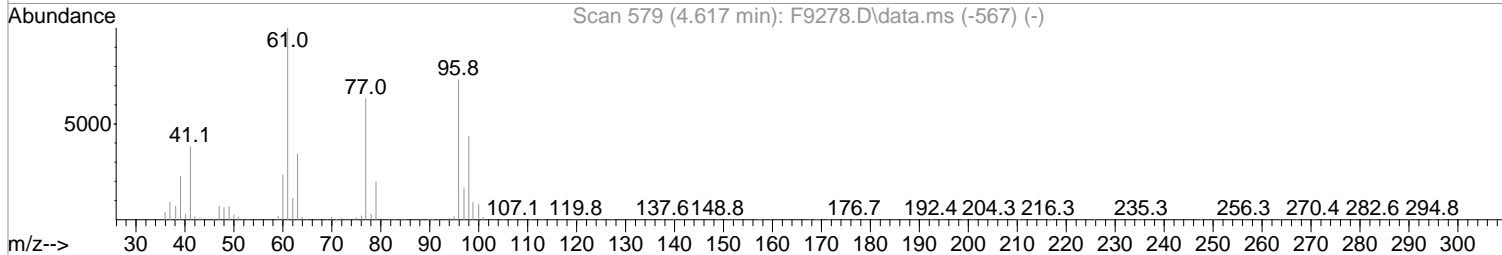
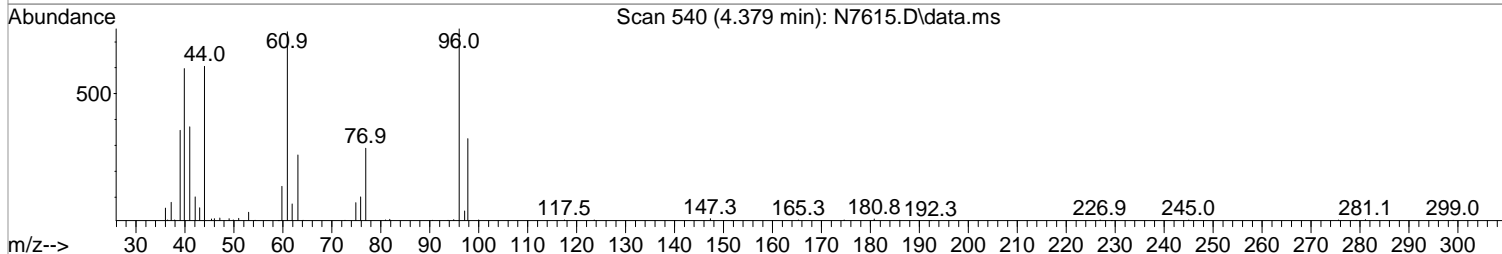
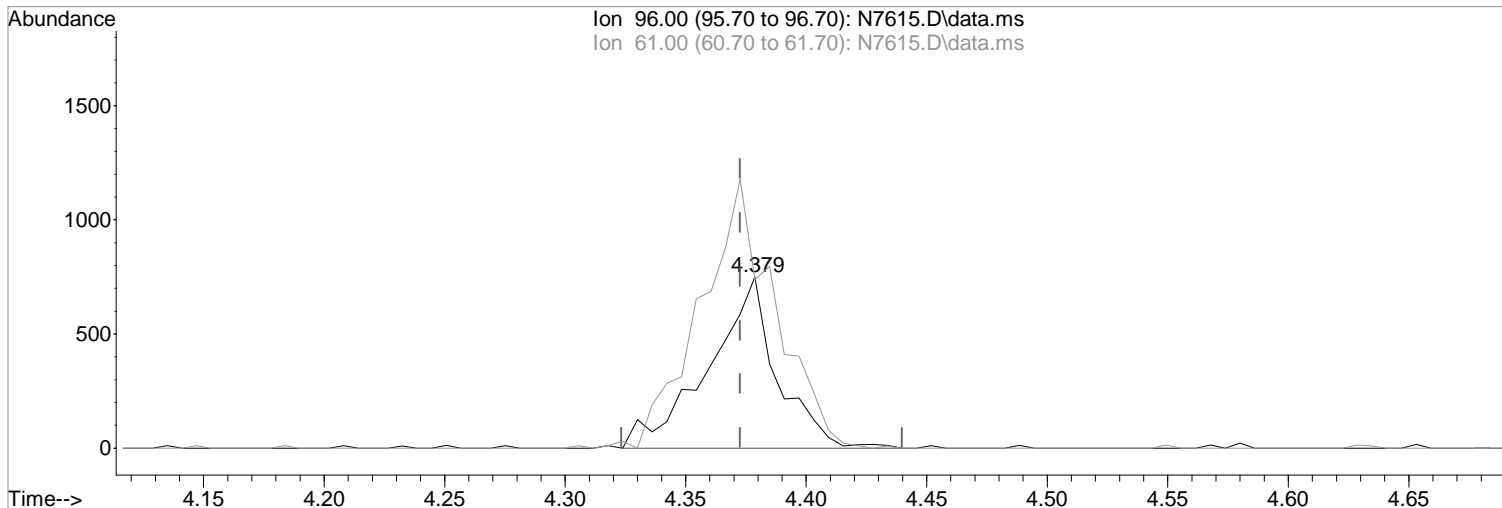
Manual Integration:  
Before

Ion	Exp%	Act%
77.00	100	100
79.00	28.00	3.48#
97.00	21.90	34.80
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7615.D  
 Acq On : 23 Aug 2017 11:23 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Aug 22 15:40:34 2017  
 Response via : Initial Calibration



TIC: N7615.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.379min (+0.006) 0.49 ug/L m  
 response 1473

Ion	Exp%	Act%
96.00	100	100
61.00	137.00	98.53#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

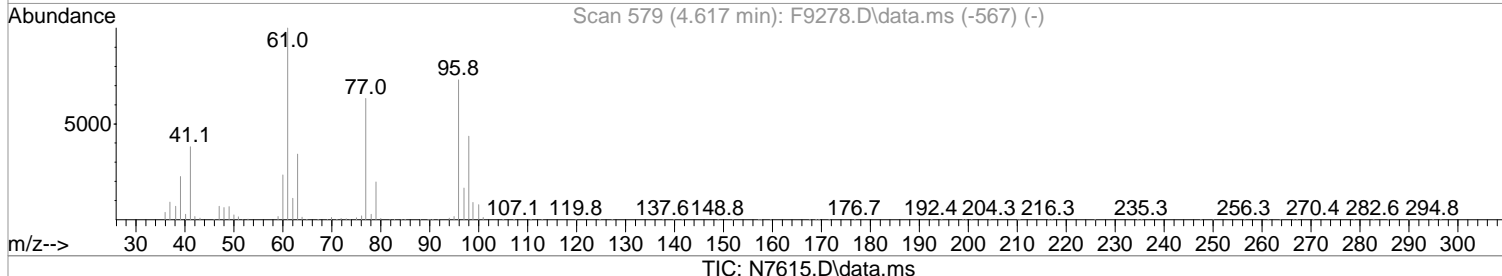
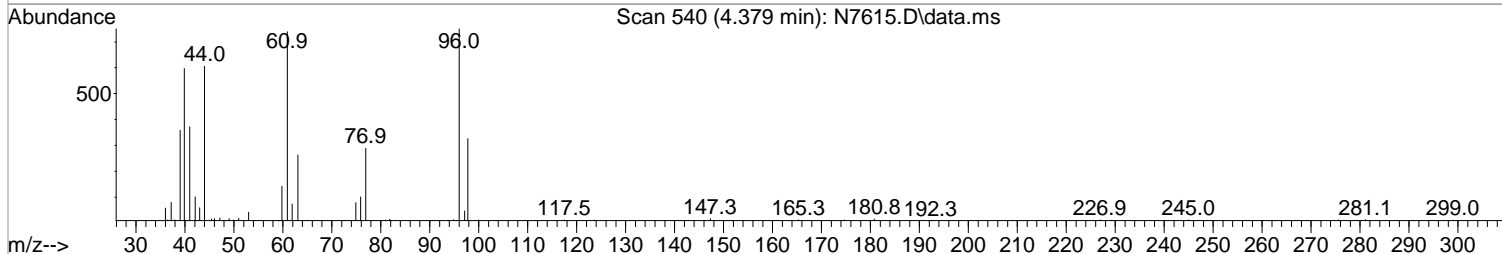
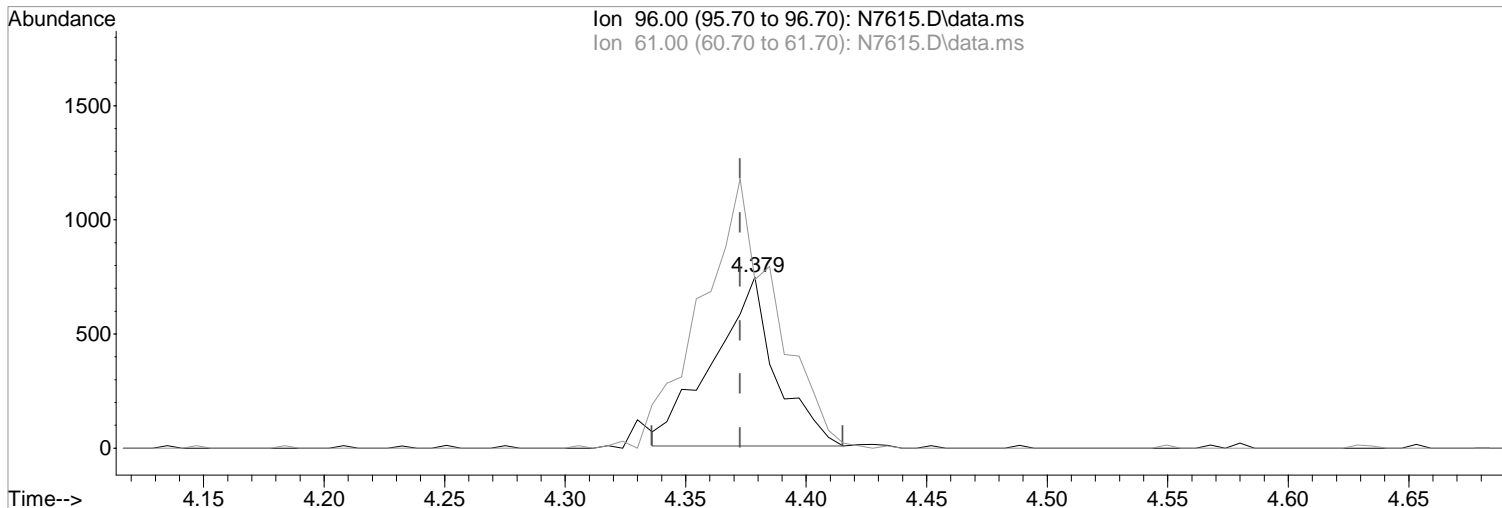
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(33) cis-1,2-Dichloroethene (P)

4.379min (+0.006) 0.45 ug/L

response 1338

Ion Exp% Act%

96.00 100 100

61.00 137.00 98.53#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

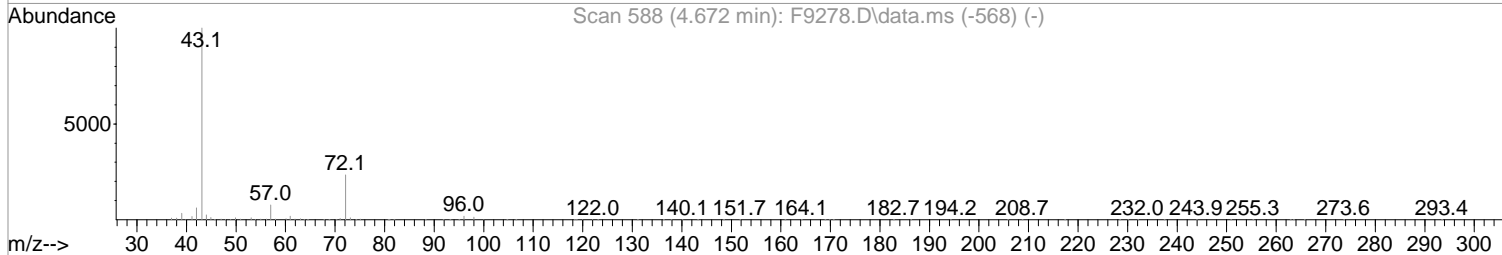
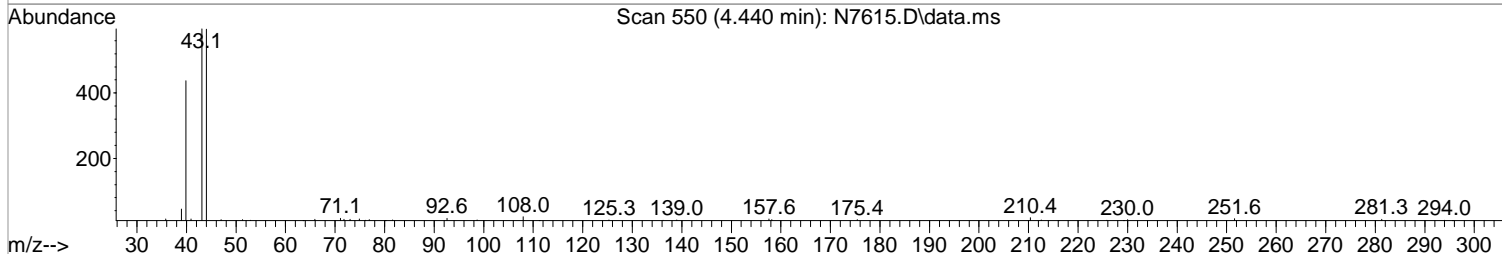
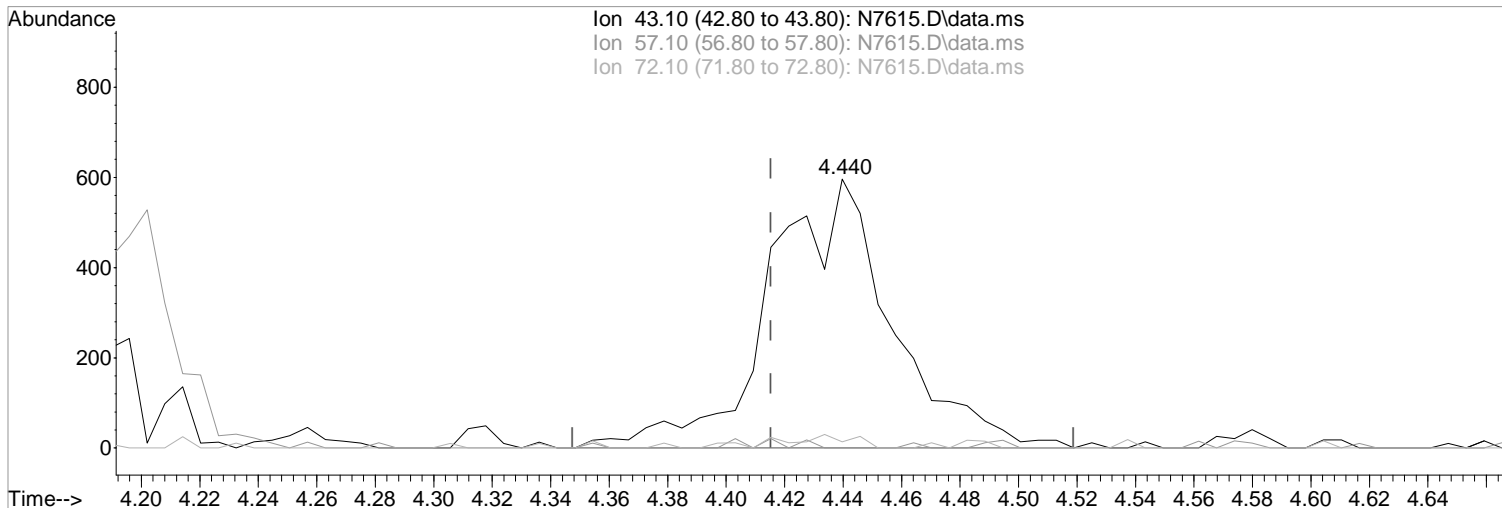
Before

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(34) 2-Butanone (P)  
4.440min (+0.024) 0.62 ug/L m  
response 1750

Manual Integration:

After

Poor integration.

08/24/17

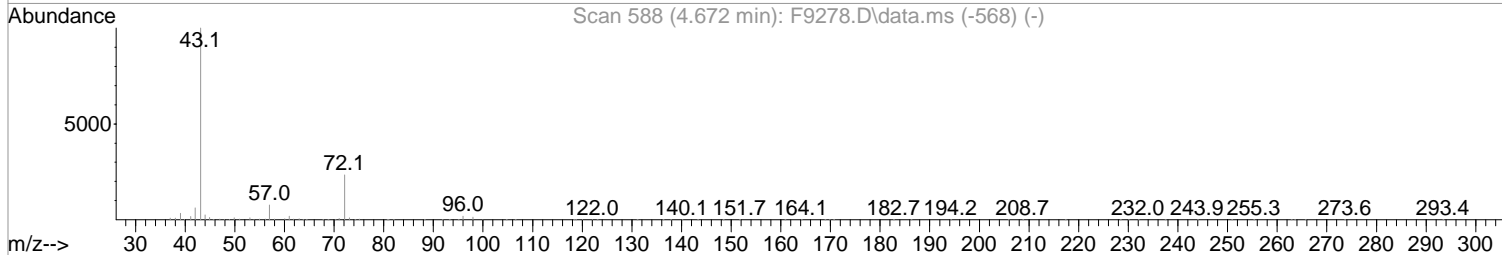
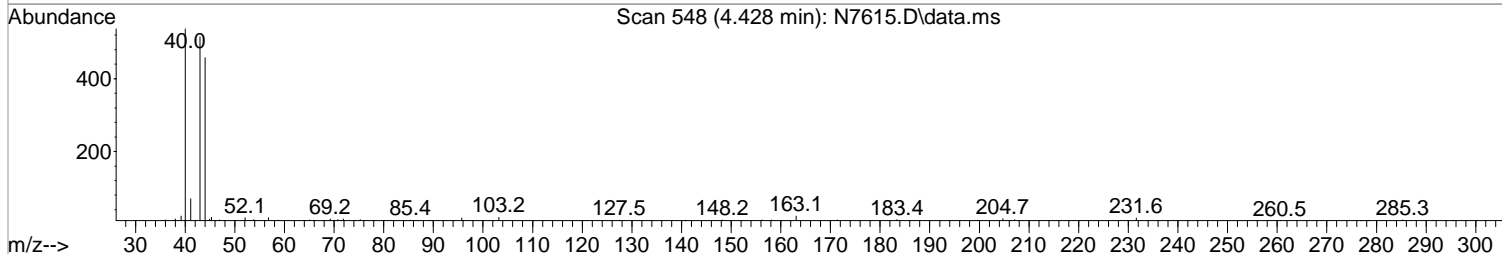
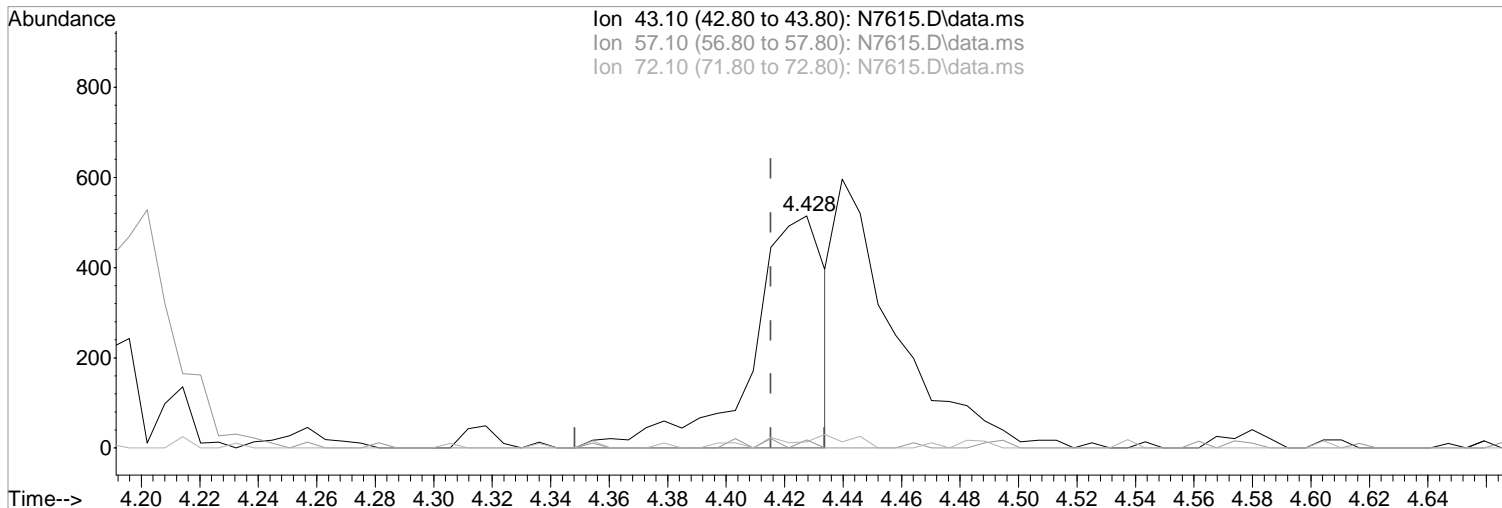
Ion	Exp%	Act%
43.10	100	100
57.10	7.70	0.00
72.10	23.40	0.00#
0.00	0.00	0.00



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(34) 2-Butanone (P)  
4.428min (+0.012) 0.32 ug/L  
response 897

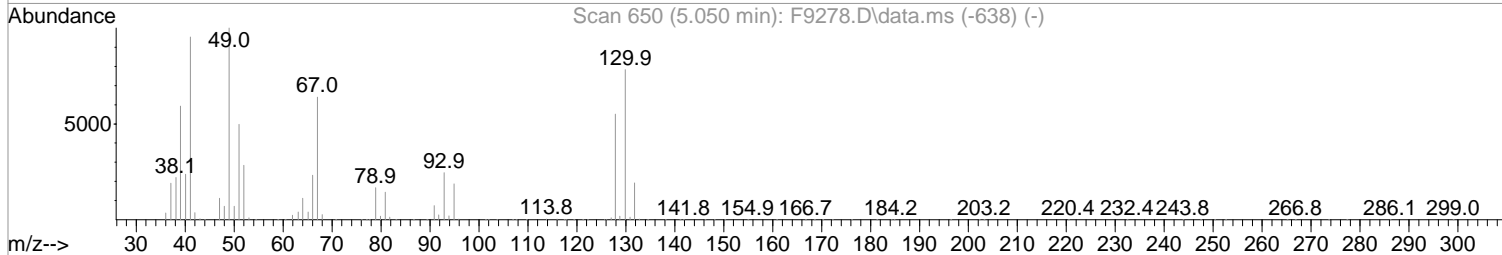
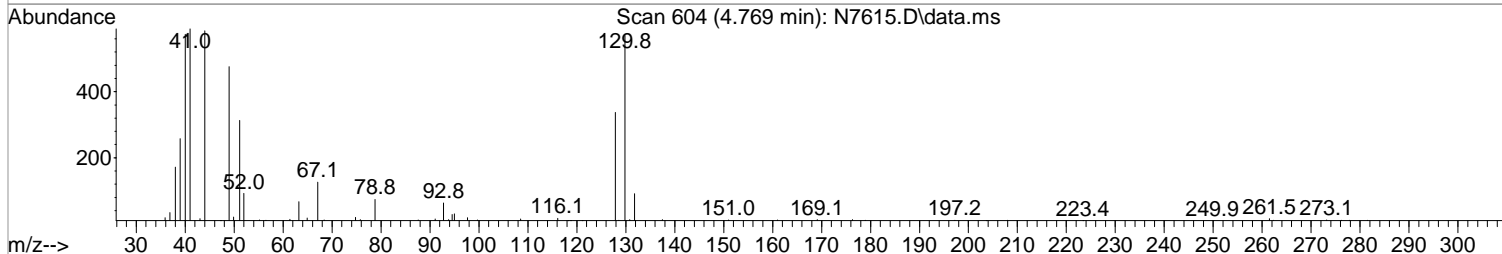
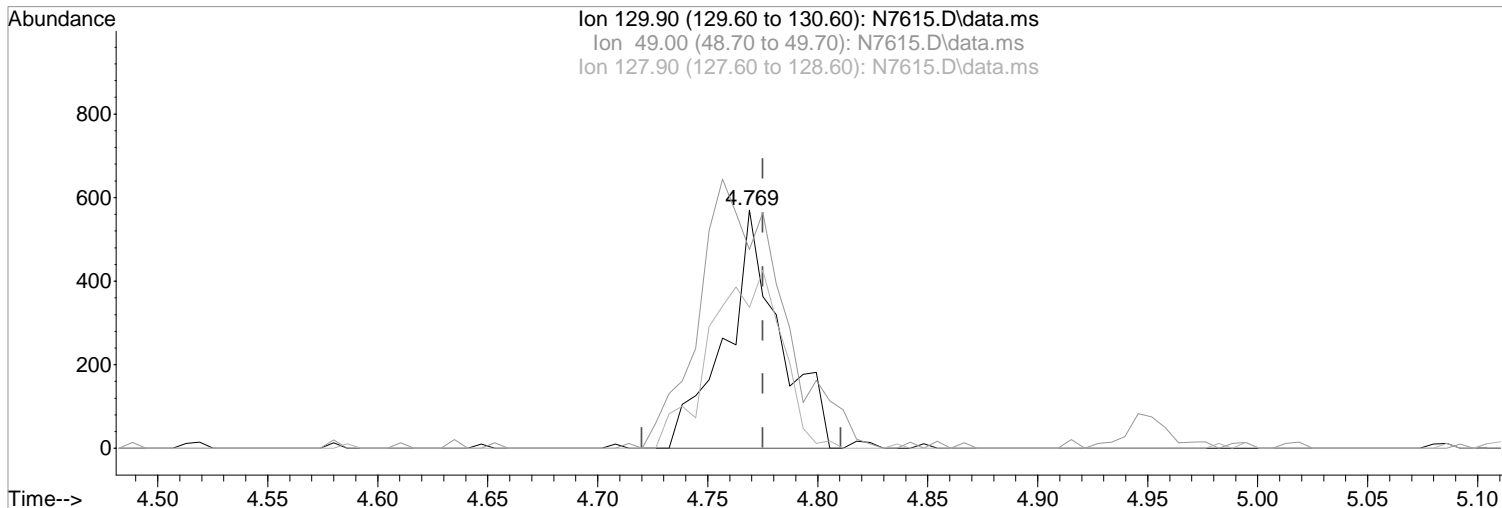
Manual Integration:  
Before

Ion	Exp%	Act%
43.10	100	100
57.10	7.70	3.50
72.10	23.40	2.72#
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(36) Bromochloromethane

4.769min (-0.006) 0.49 ug/L m

response 976

Ion Exp% Act%

129.90 100 100

49.00 127.60 83.51#

127.90 70.30 59.12

0.00 0.00 0.00

Manual Integration:

After

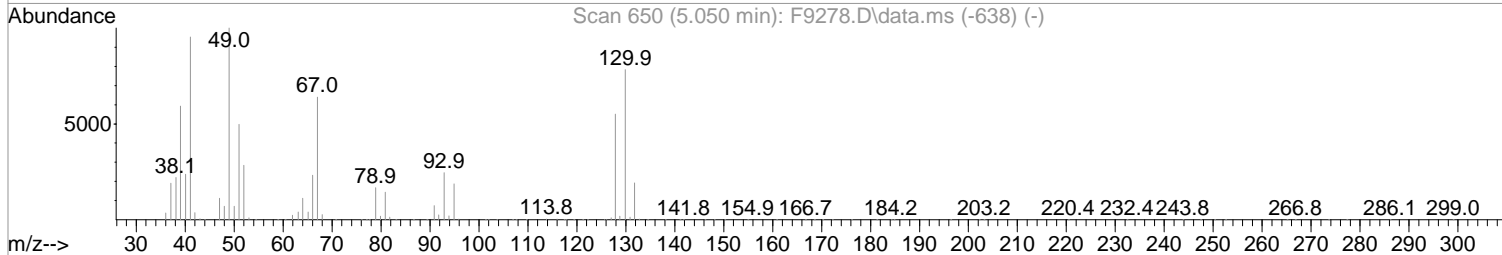
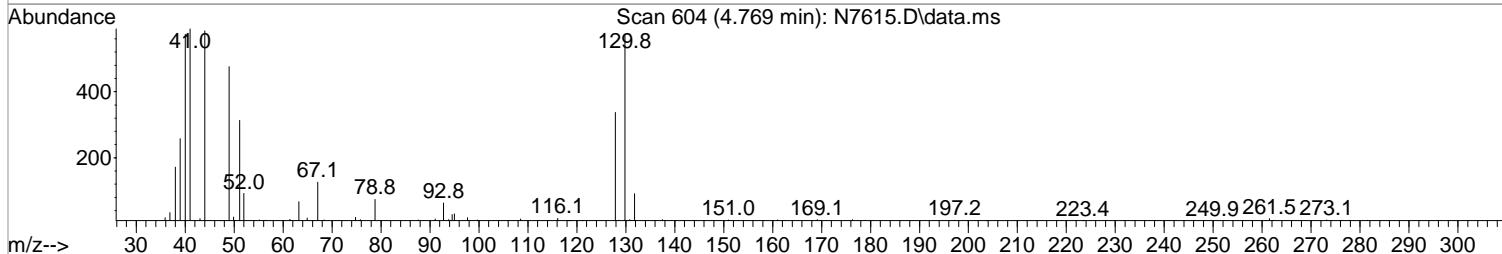
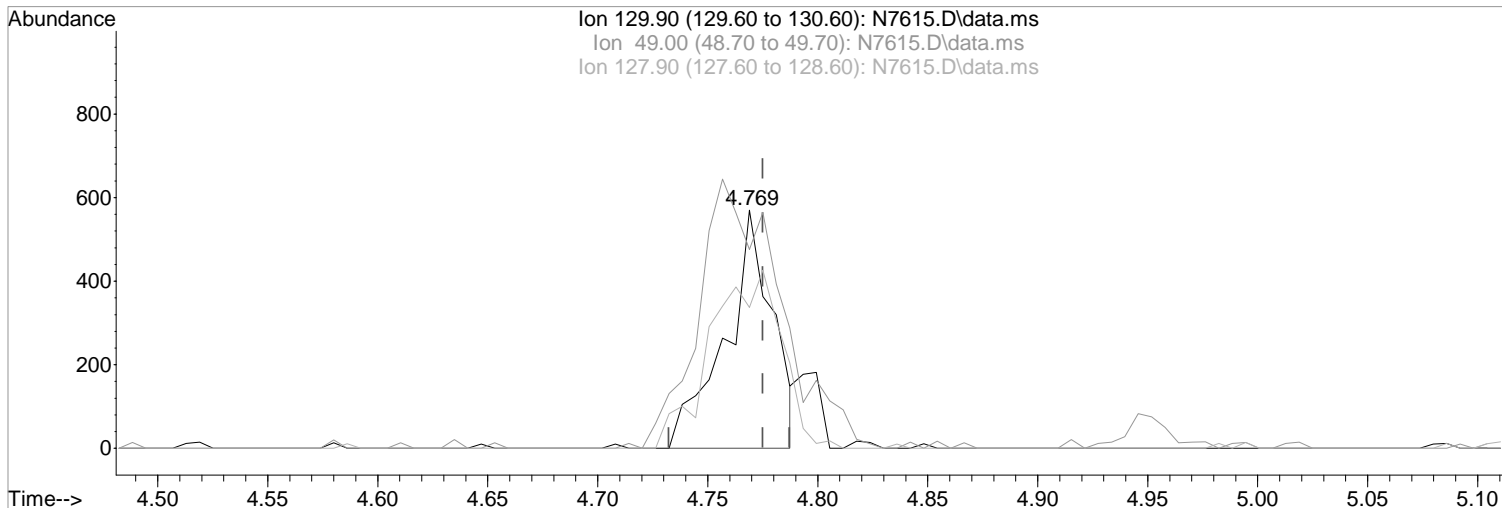
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(36) Bromochloromethane  
4.769min (-0.006) 0.43 ug/L  
response 845

Manual Integration:  
Before

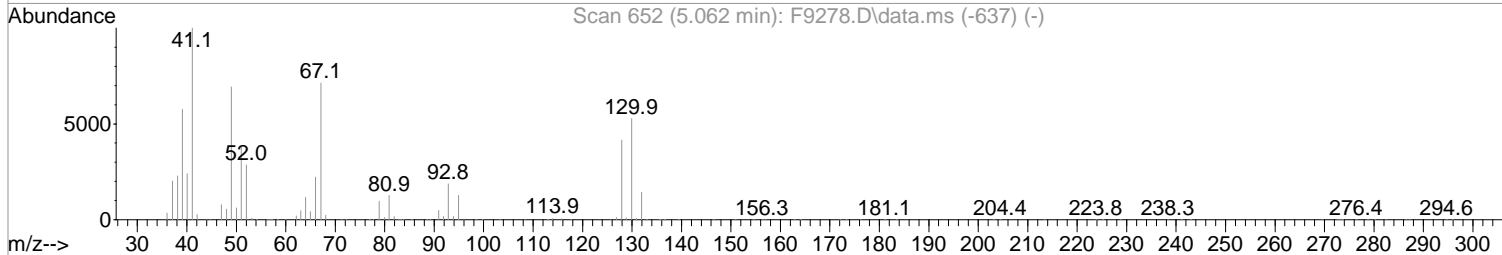
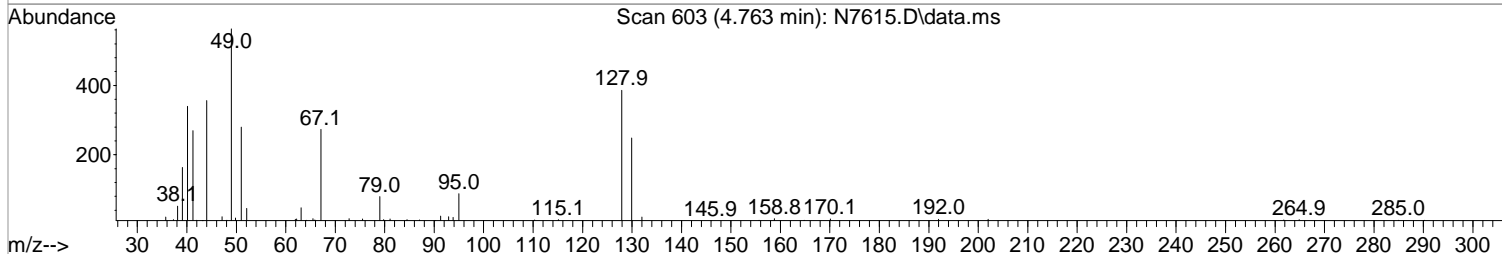
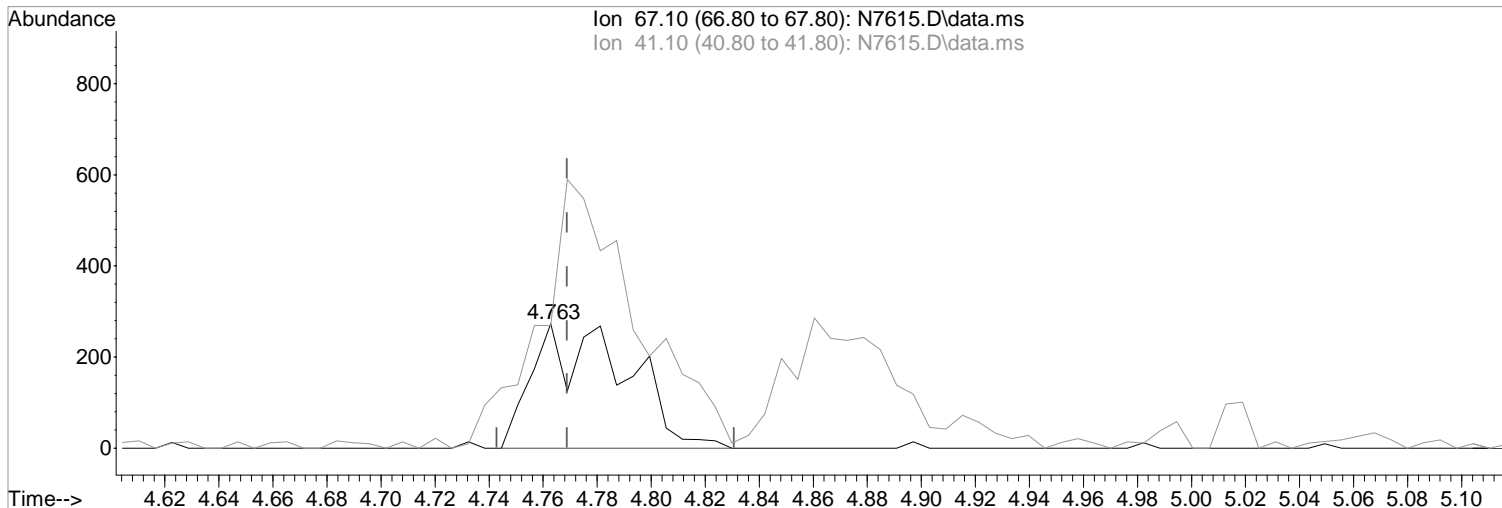
Ion	Exp%	Act%
129.90	100	100
49.00	127.60	83.51#
127.90	70.30	61.05
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(37) Methacrylonitrile

4.763min (-0.006) 0.40 ug/L m  
response 650

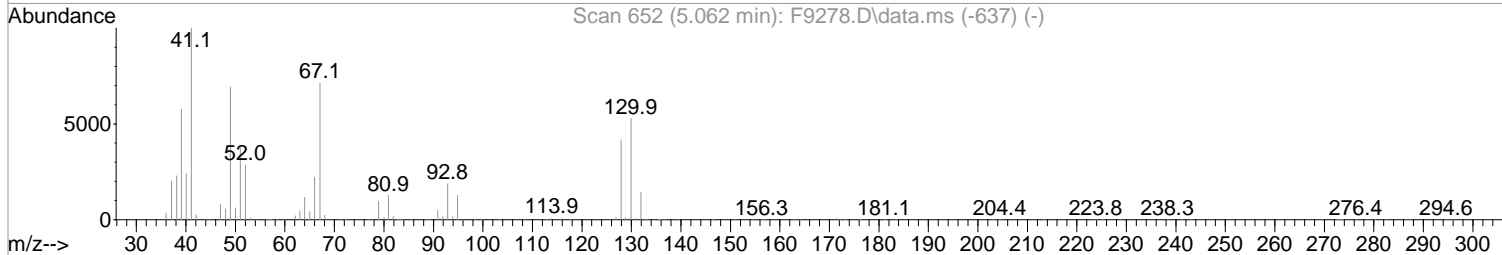
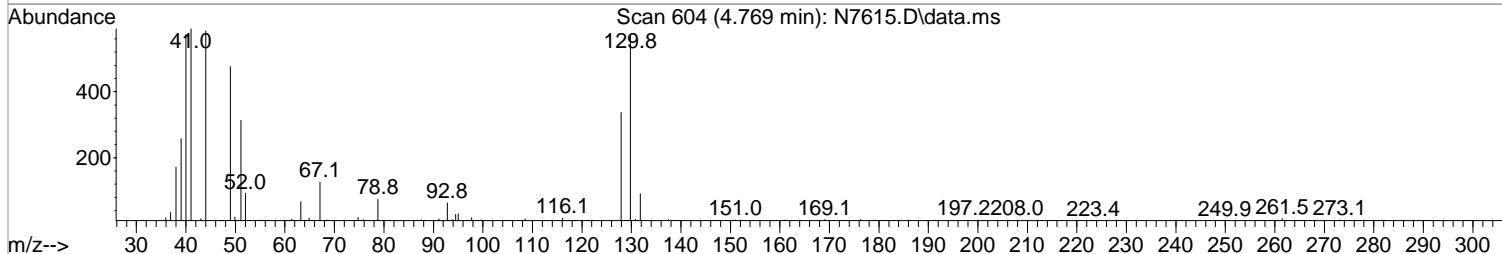
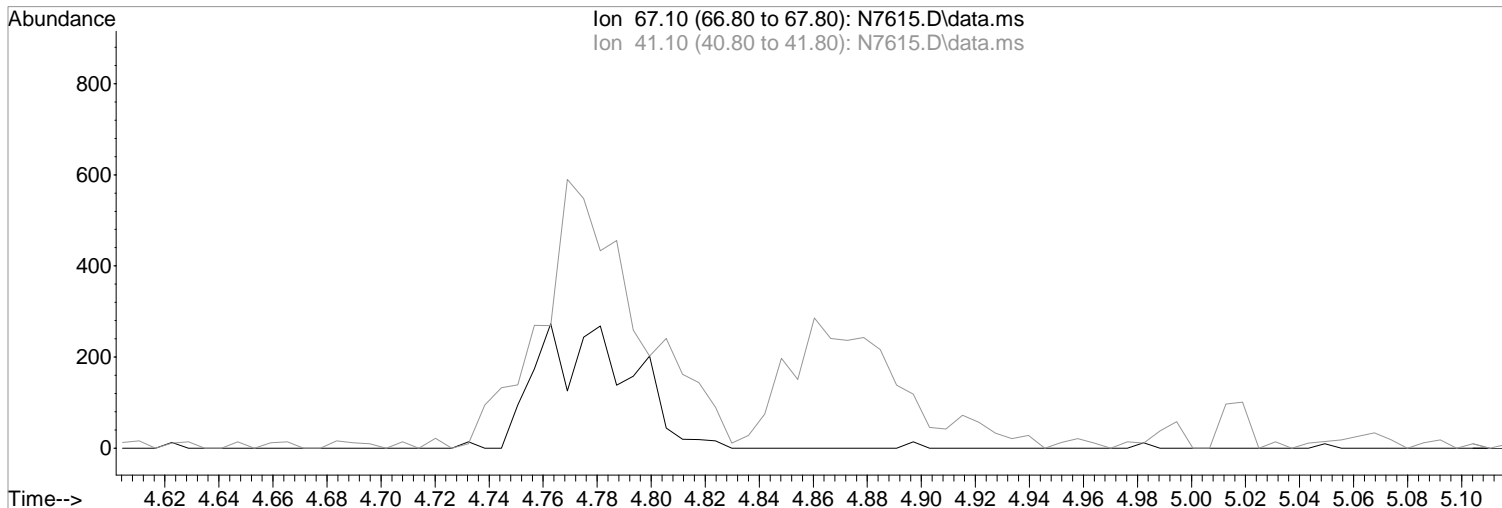
Ion	Exp%	Act%
67.10	100	100
41.10	140.20	98.53#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:  
After  
Peak not found.  
08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(37) Methacrylonitrile  
4.769min (-4.769) 0.00 ug/L  
response 0

Manual Integration:

Before

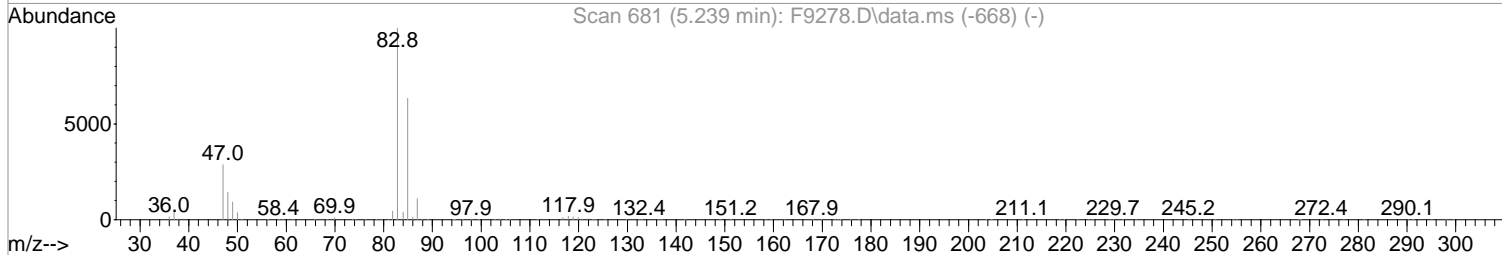
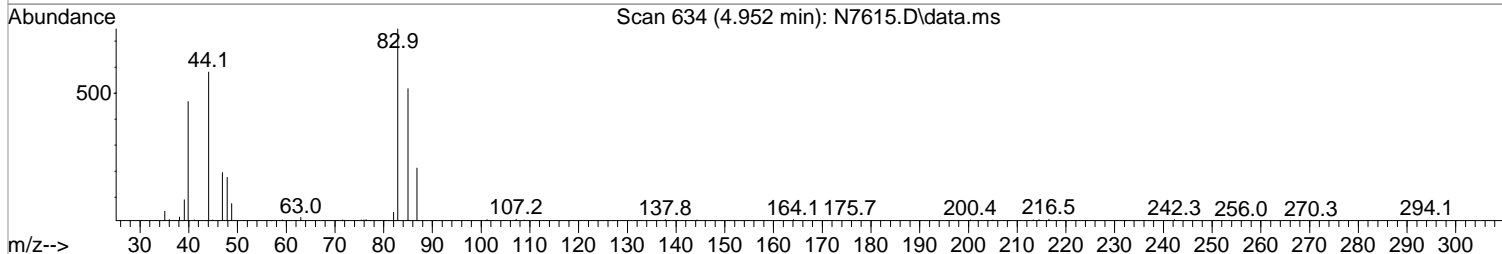
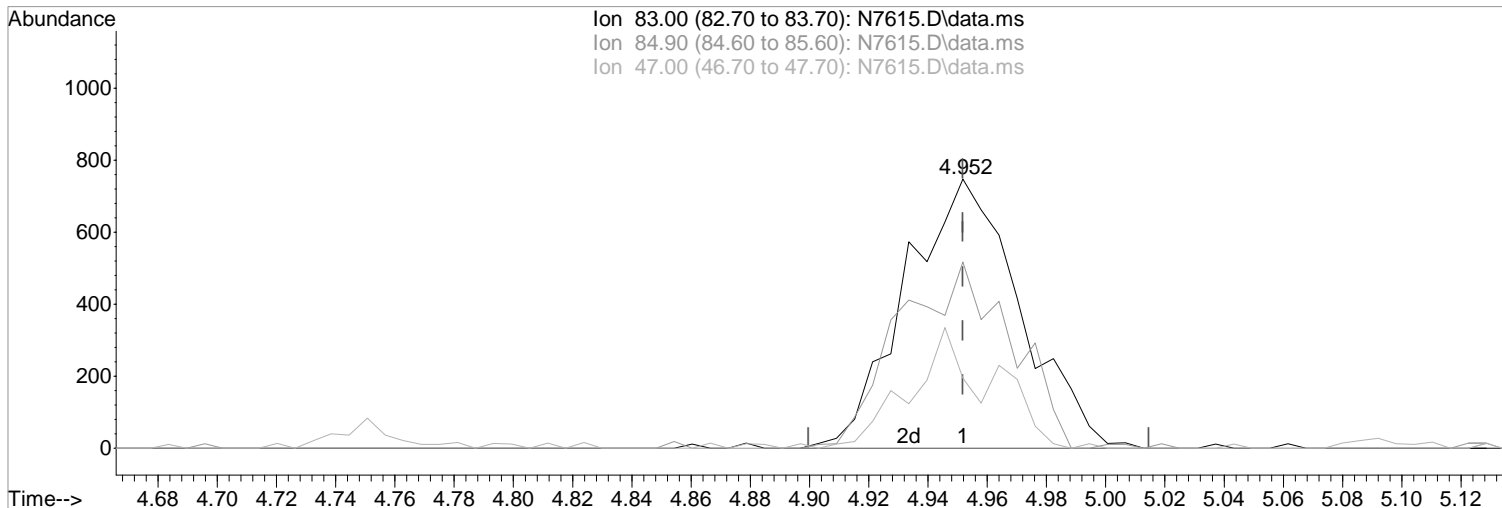
Ion	Exp%	Act%
67.10	100	0.00
41.10	140.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(39) Chloroform (P)

4.952min (-0.000) 0.46 ug/L m  
response 2005

Ion	Exp%	Act%
83.00	100	100
84.90	63.30	69.21
47.00	28.80	25.97
0.00	0.00	0.00

Manual Integration:

After

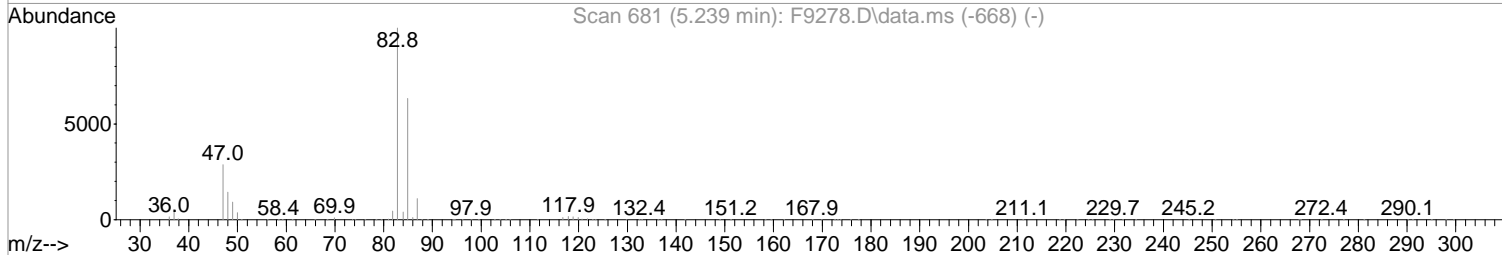
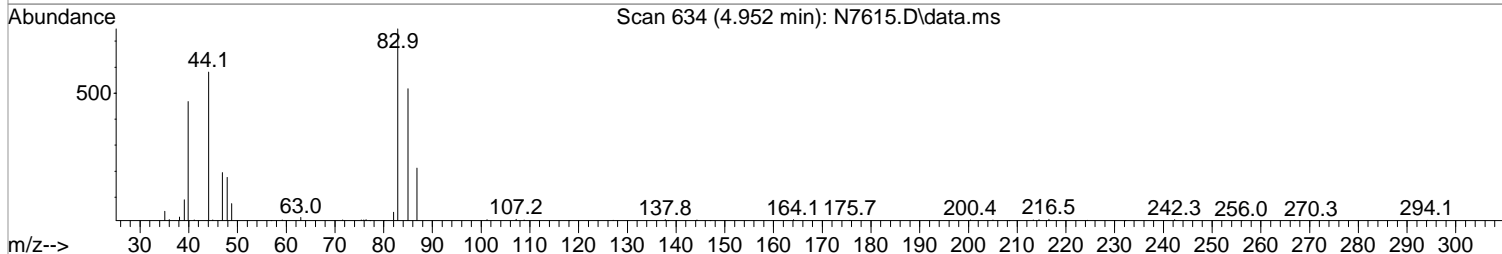
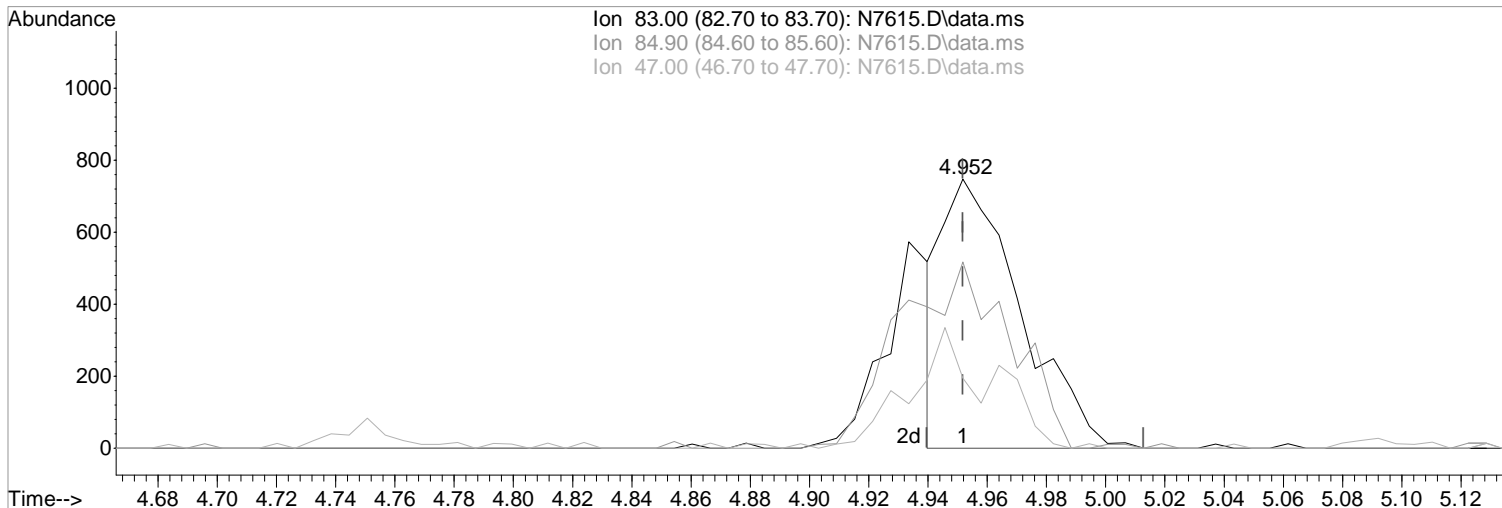
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(39) Chloroform (P)

Manual Integration:

4.952min (-0.000) 0.32 ug/L

Before

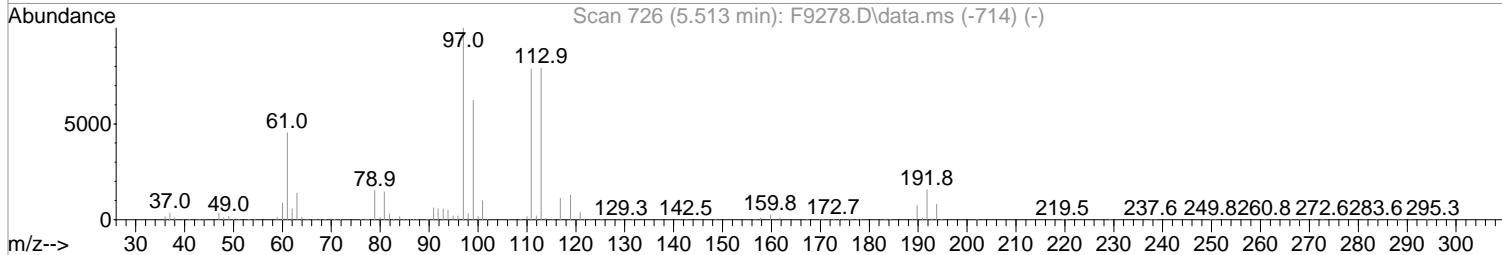
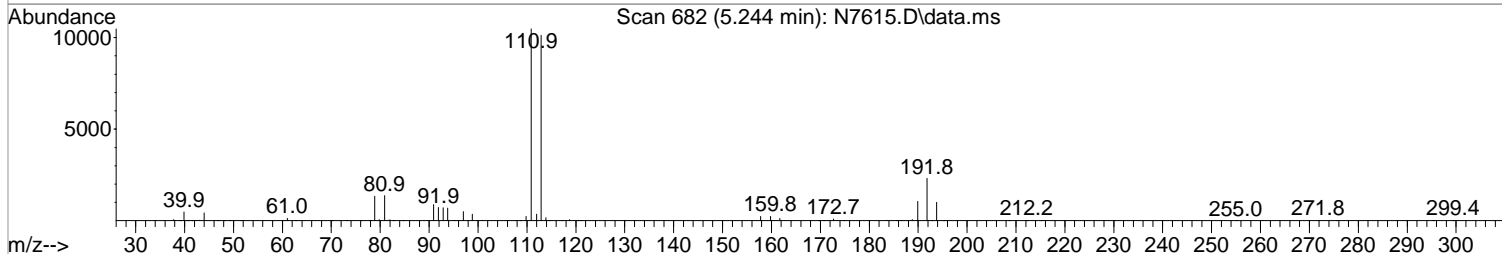
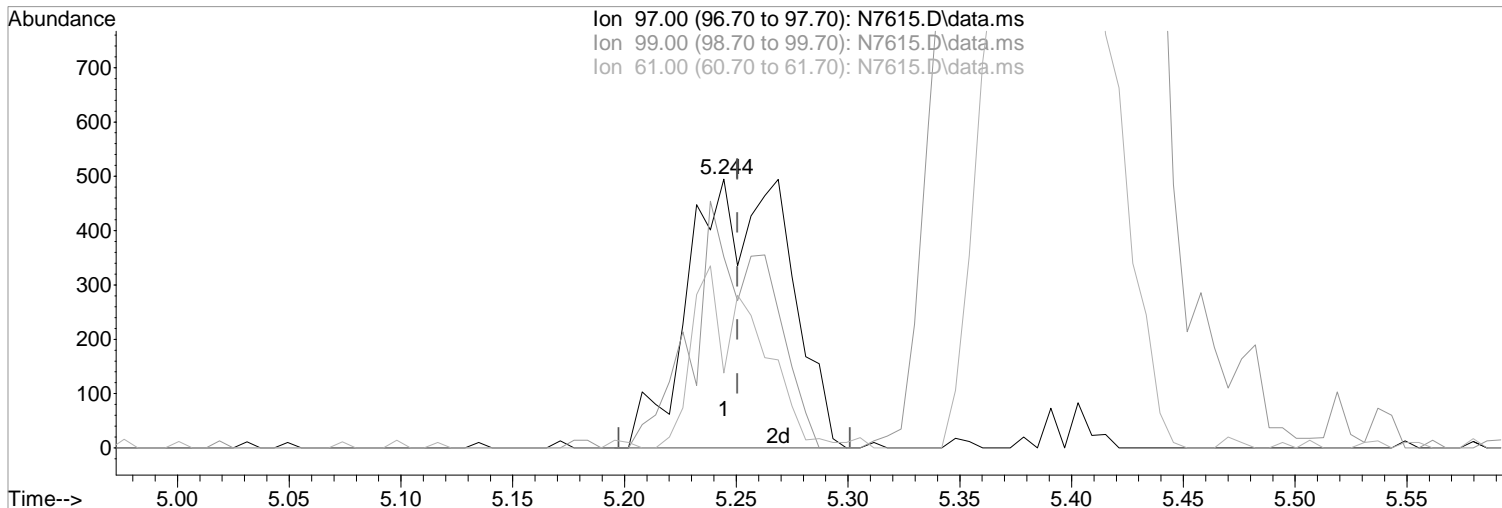
response 1378

Ion	Exp%	Act%
83.00	100	100
84.90	63.30	69.21
47.00	28.80	25.97
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7615.D  
 Acq On : 23 Aug 2017 11:23 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Aug 22 15:40:34 2017  
 Response via : Initial Calibration



TIC: N7615.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.244min (-0.006) 0.38 ug/L m  
 response 1533

Ion	Exp%	Act%
97.00	100	100
99.00	62.40	71.11
61.00	45.40	27.88
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

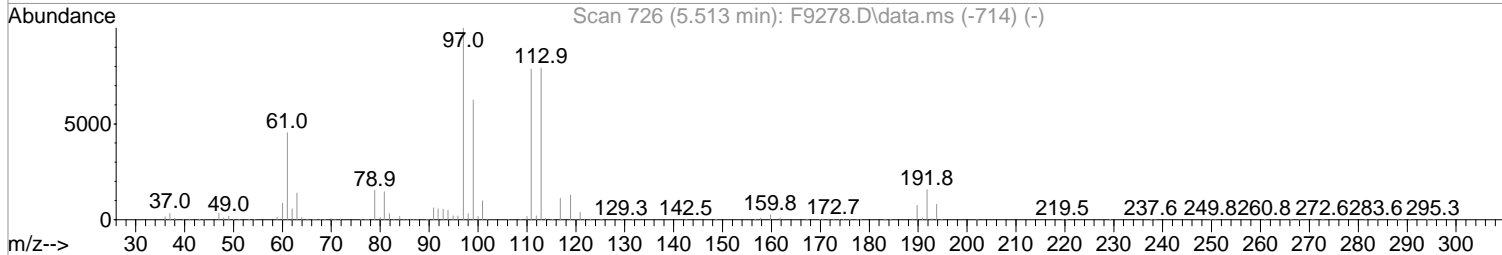
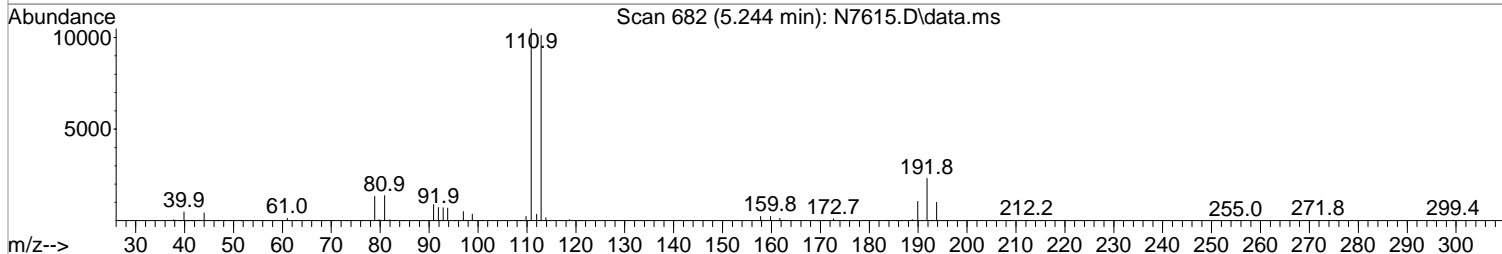
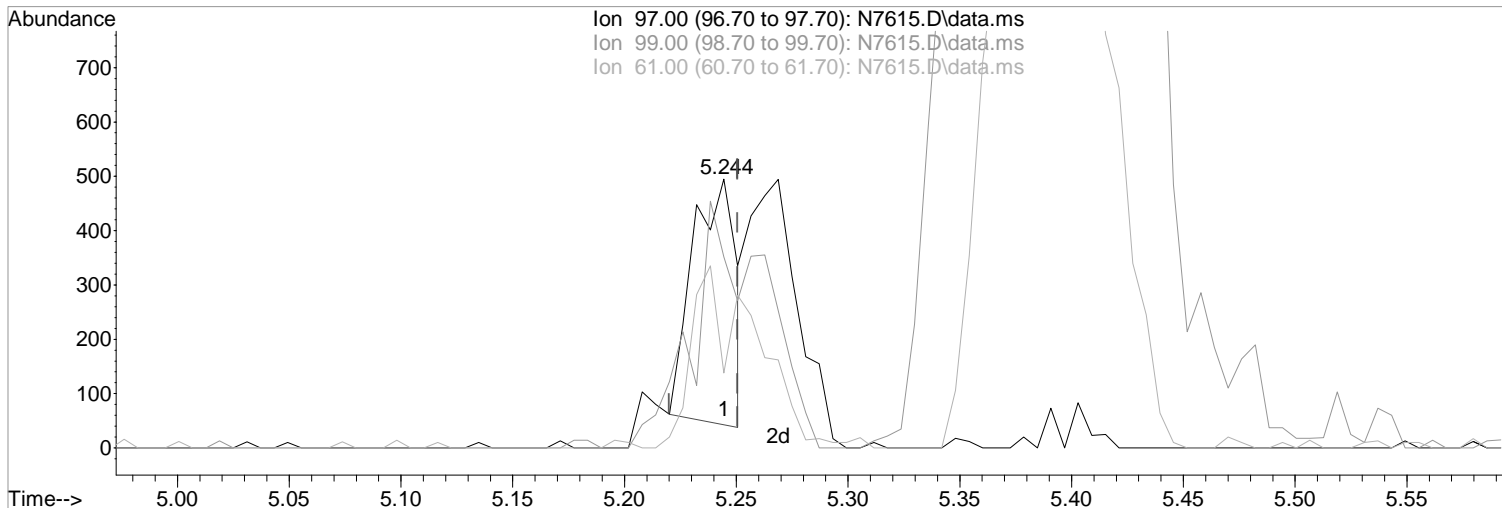
08/24/17



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(40) 1,1,1-Trichloroethane (P)

Manual Integration:

5.244min (-0.006) 0.15 ug/L

Before

response 606

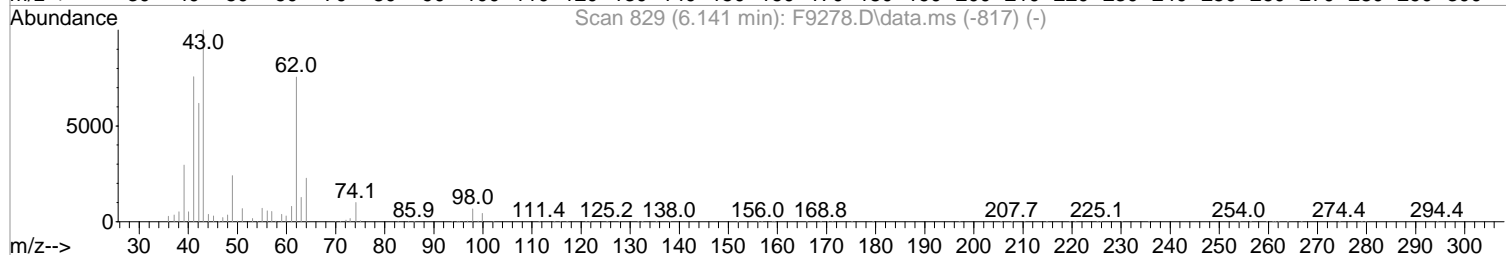
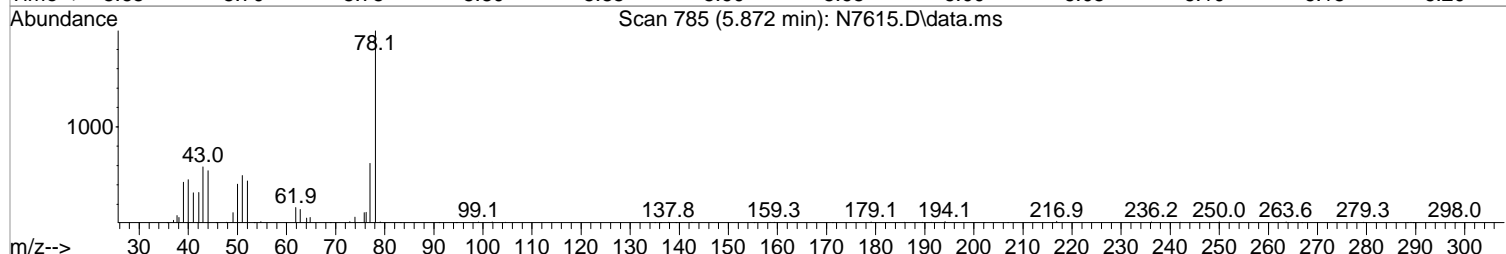
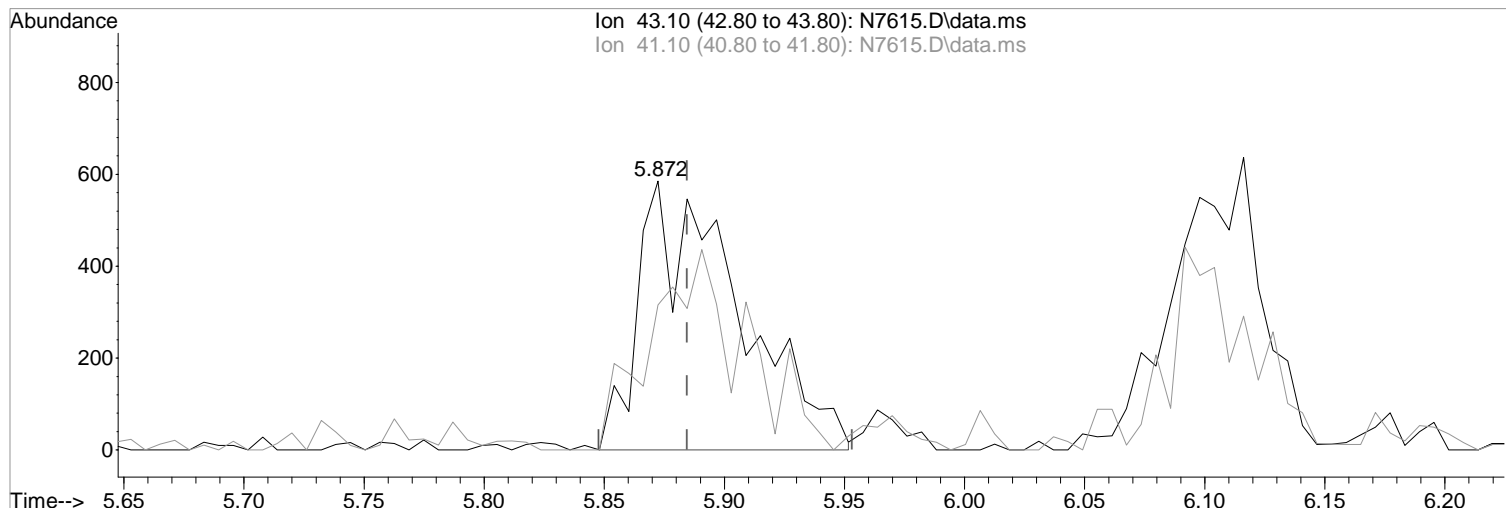
Ion	Exp%	Act%
97.00	100	100
99.00	62.40	71.11
61.00	45.40	27.88
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(49) Iso-Butyl Alcohol  
5.872min (-0.012) 5.24 ug/L m  
response 1696

Manual Integration:  
After  
Peak not found.

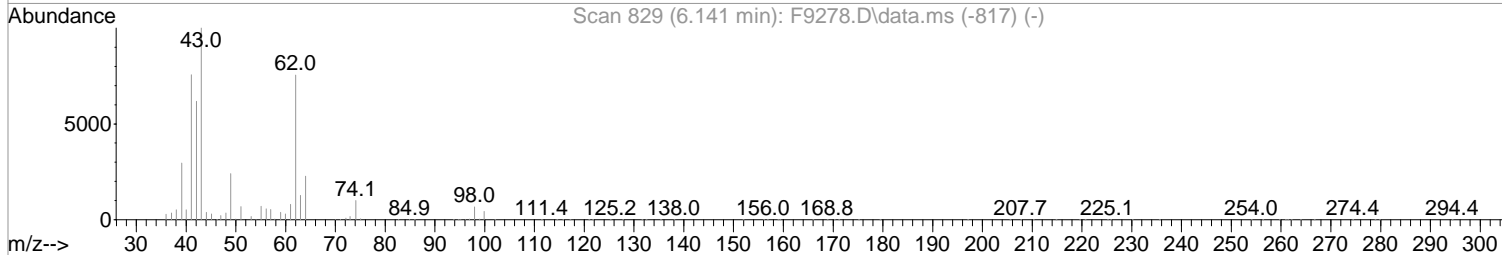
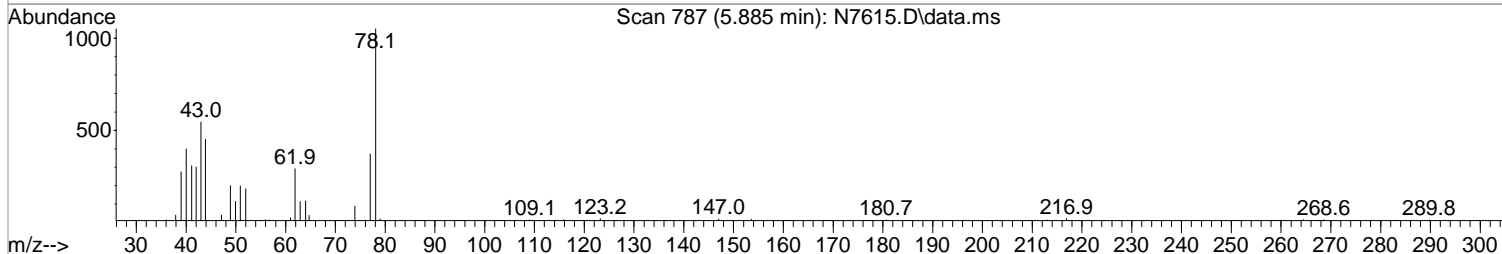
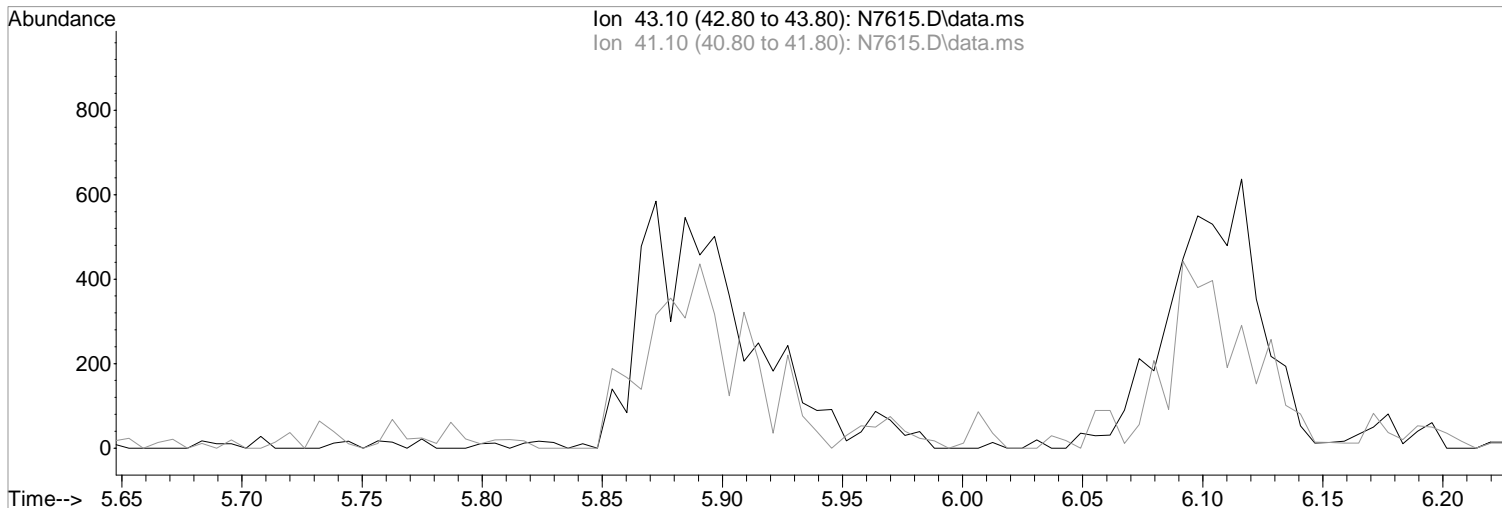
Ion	Exp%	Act%
43.10	100	100
41.10	75.60	54.02#
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(49) Iso-Butyl Alcohol  
5.885min (-5.885) 0.00 ug/L  
response 0

Manual Integration:  
Before

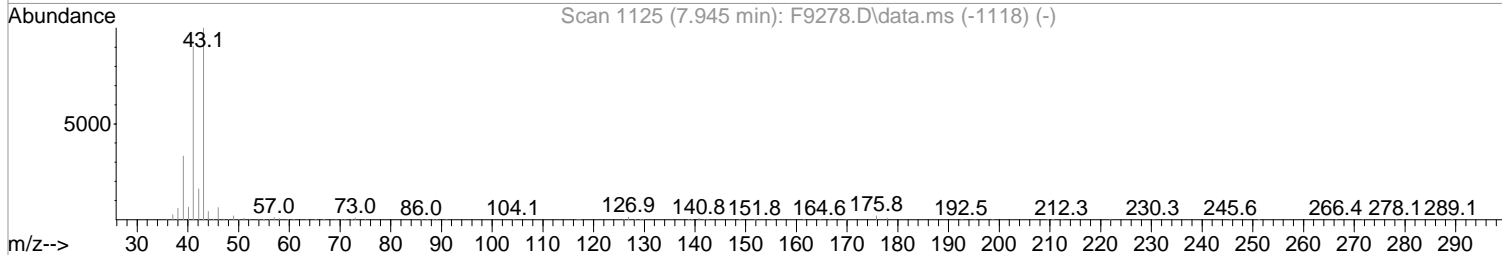
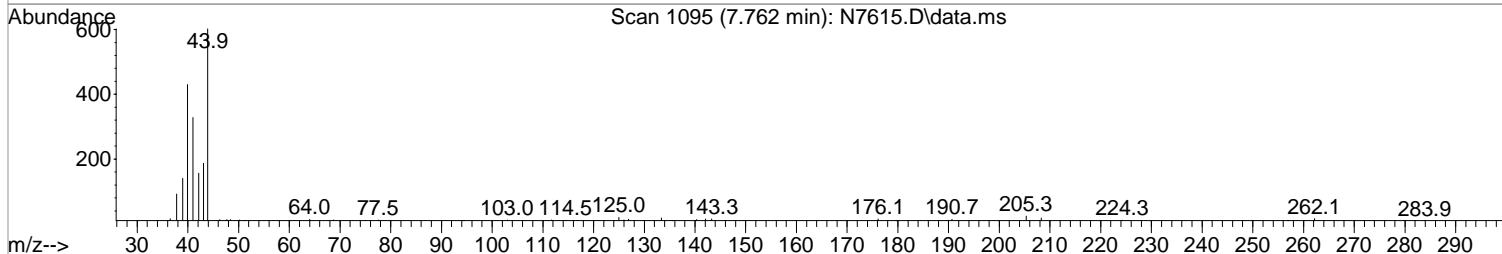
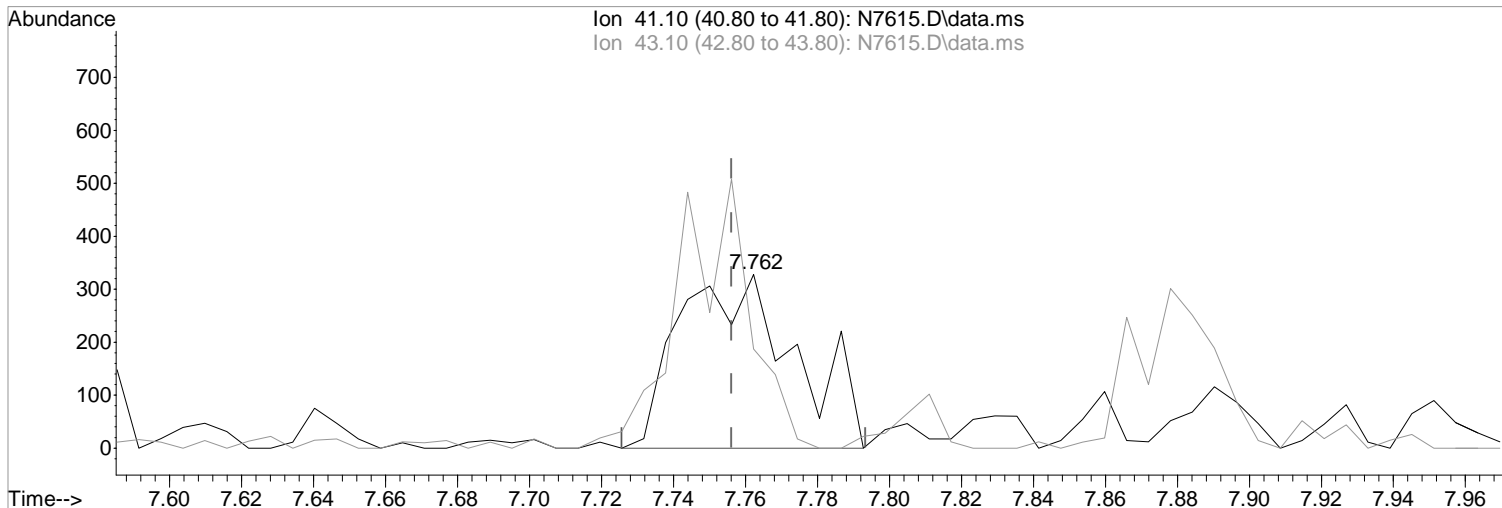
Ion	Exp%	Act%
43.10	100	0.00
41.10	75.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(60) 2-Nitropropane  
7.762min (+0.006) 0.63 ug/L m  
response 732

Manual Integration:

After

Poor integration.

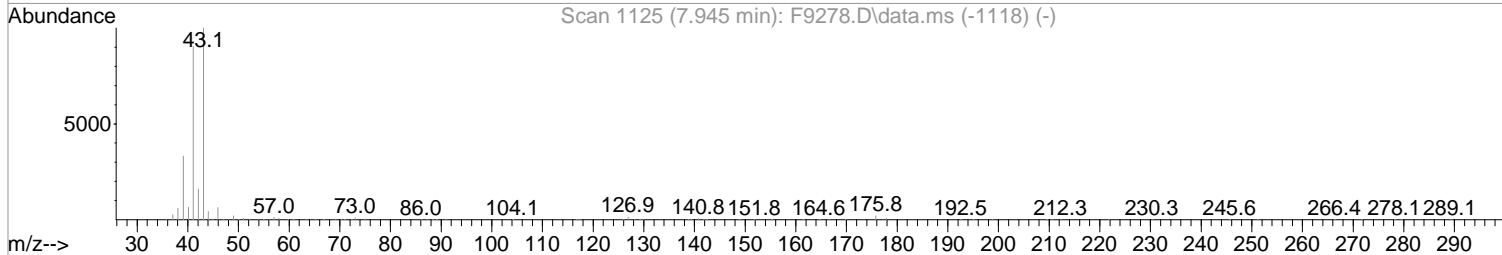
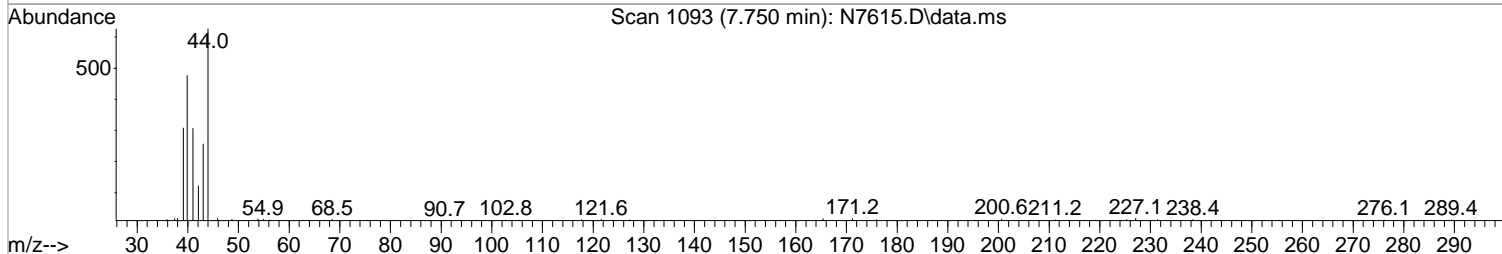
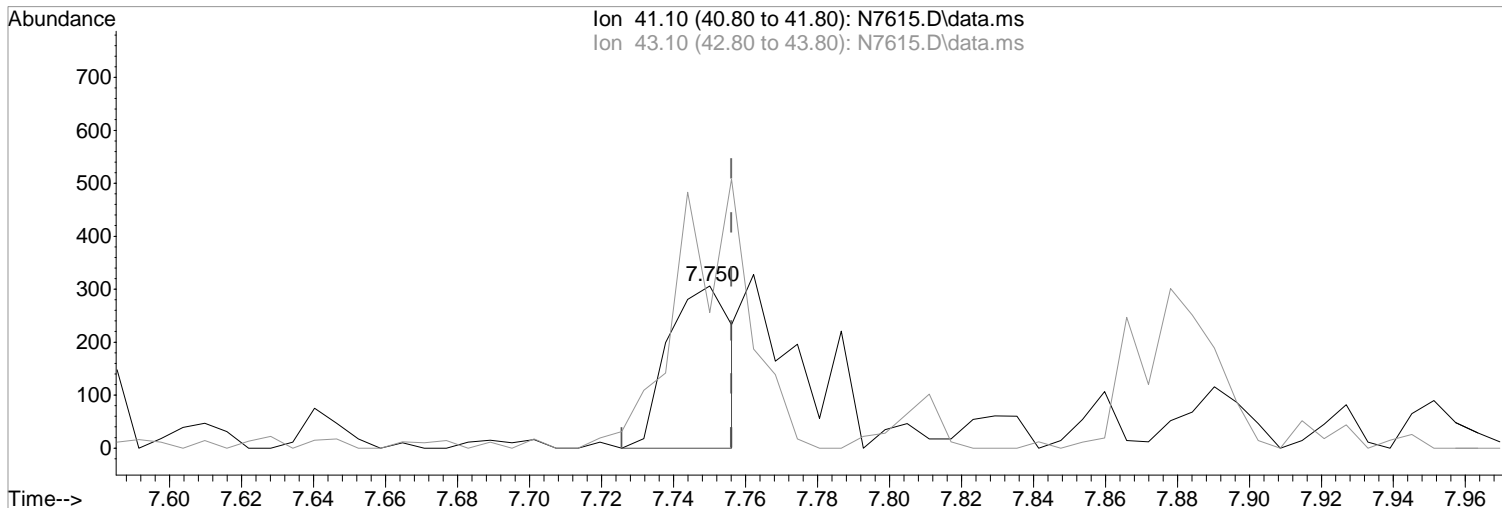
08/24/17

Ion	Exp%	Act%
41.10	100	100
43.10	110.70	57.01#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(60) 2-Nitropropane  
7.750min (-0.006) 0.33 ug/L  
response 379

Manual Integration:  
Before

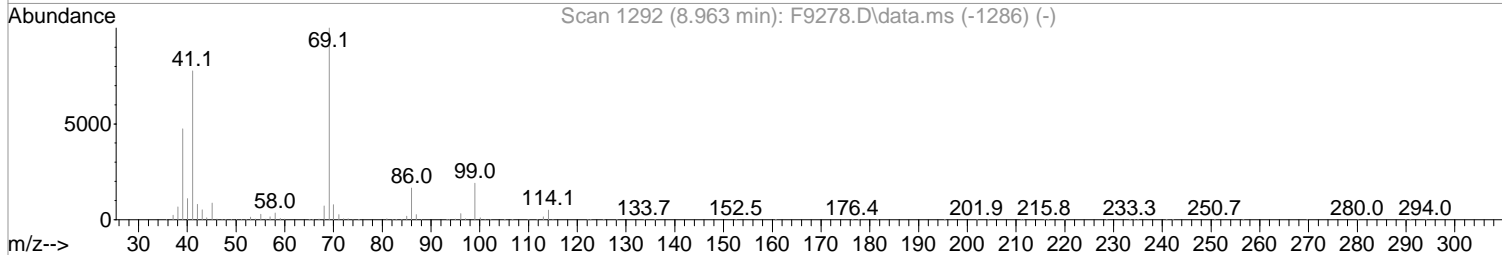
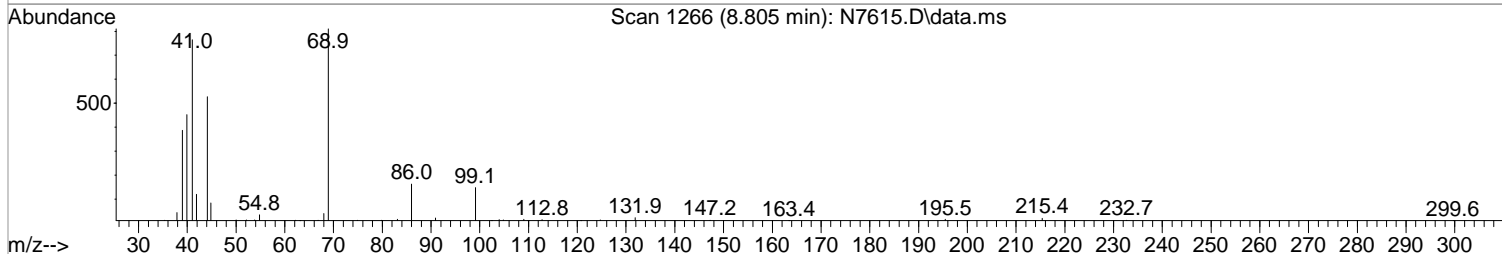
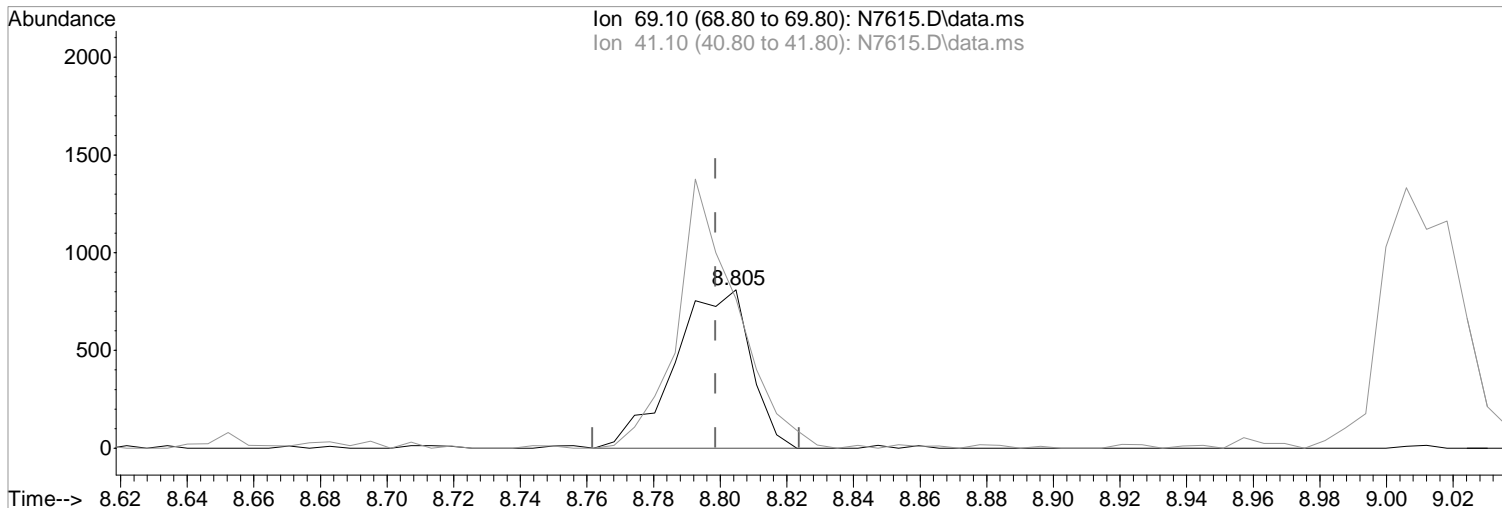
Ion	Exp%	Act%
41.10	100	100
43.10	110.70	83.66#
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



(67) Ethyl Methacrylate  
8.805min (+0.006) 0.29 ug/L m  
response 1280

Manual Integration:  
After  
Peak not found.

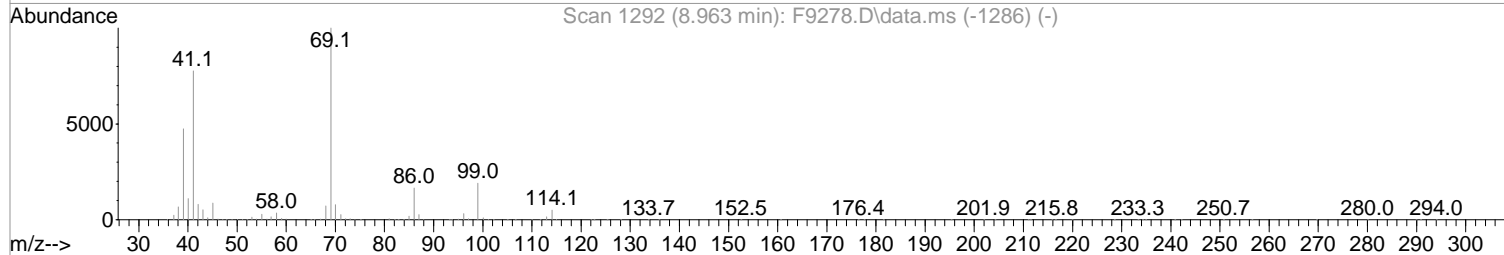
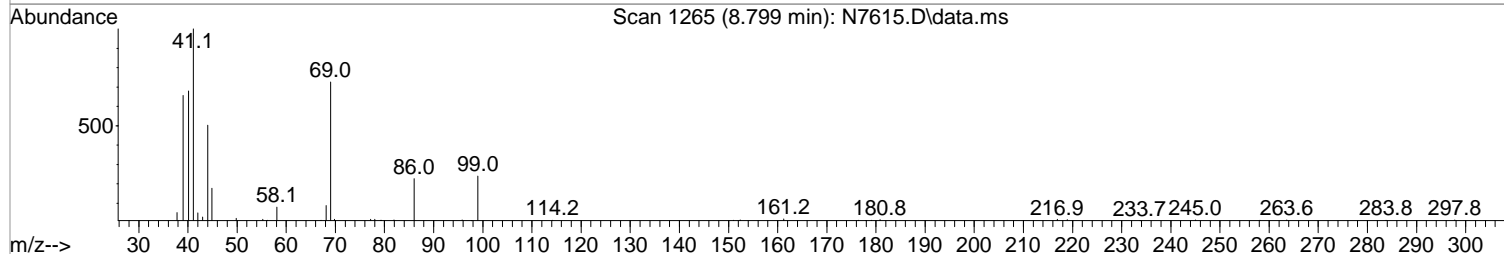
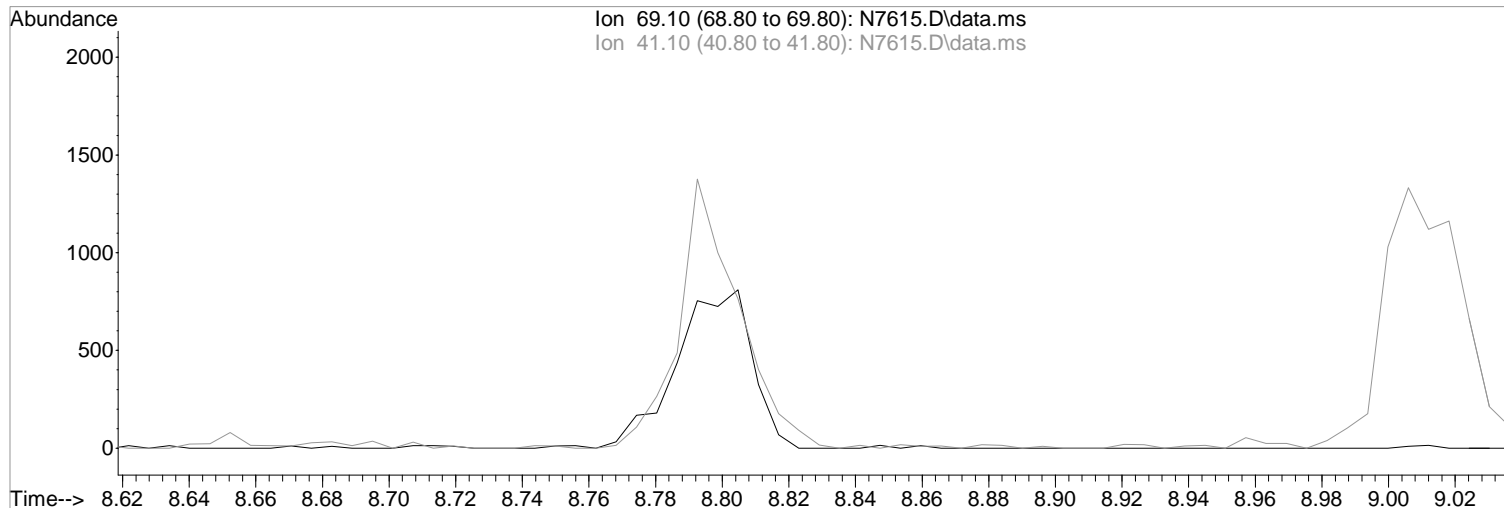
Ion	Exp%	Act%
69.10	100	100
41.10	77.70	94.32
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(67) Ethyl Methacrylate  
8.799min (-8.799) 0.00 ug/L  
response 0

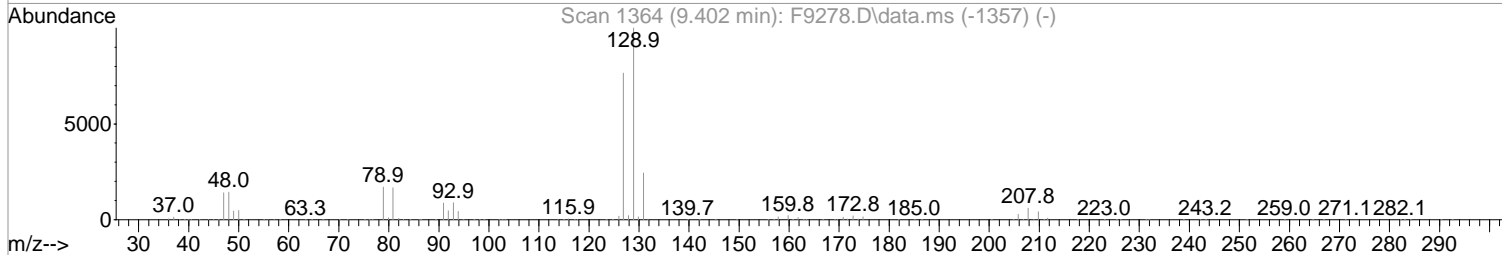
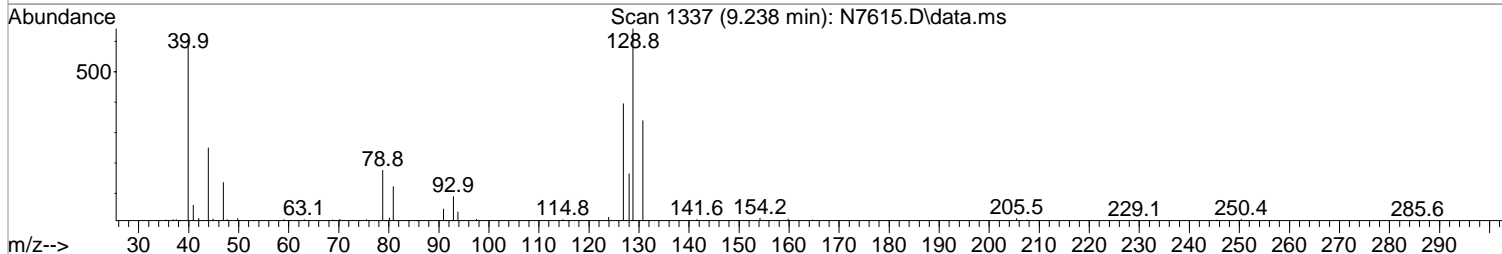
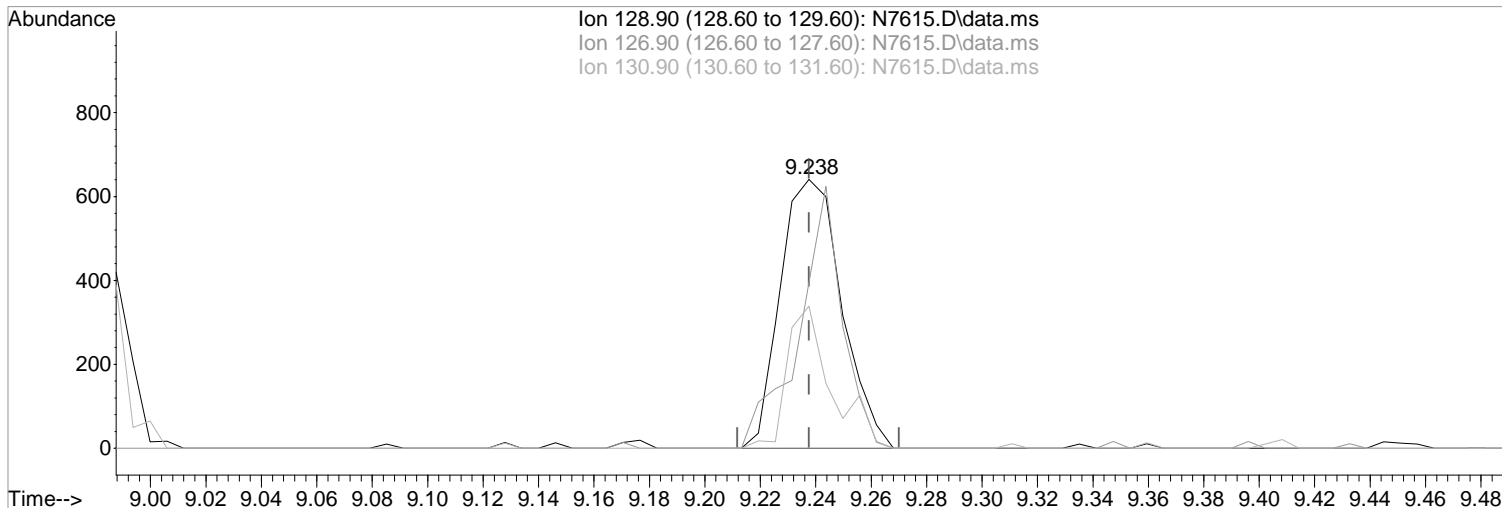
Manual Integration:  
Before

Ion	Exp%	Act%
69.10	100	0.00
41.10	77.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7615.D  
 Acq On : 23 Aug 2017 11:23 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Aug 22 15:40:34 2017  
 Response via : Initial Calibration



TIC: N7615.D\data.ms

(74) Dibromochloromethane (P)

9.238min (-0.000) 0.34 ug/L m  
 response 985

Ion	Exp%	Act%
128.90	100	100
126.90	76.50	61.62
130.90	24.40	52.89#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

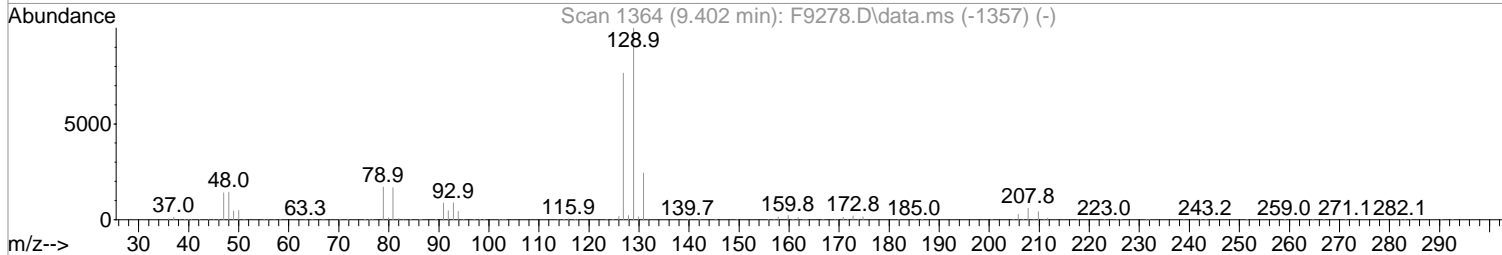
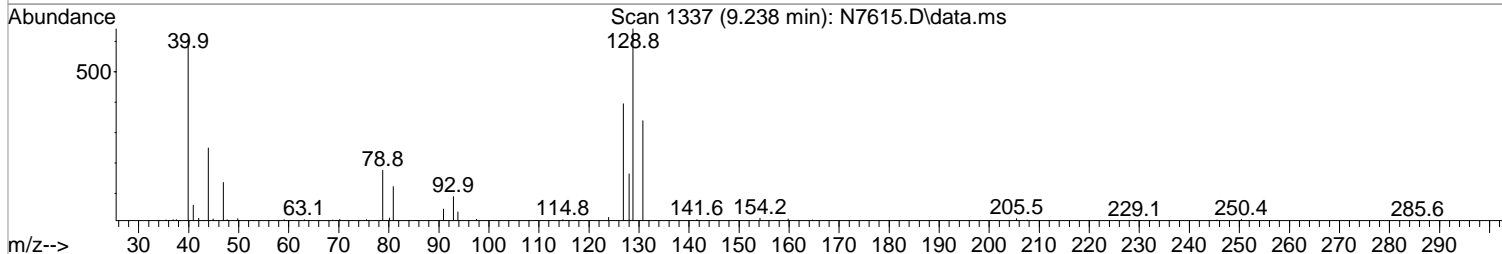
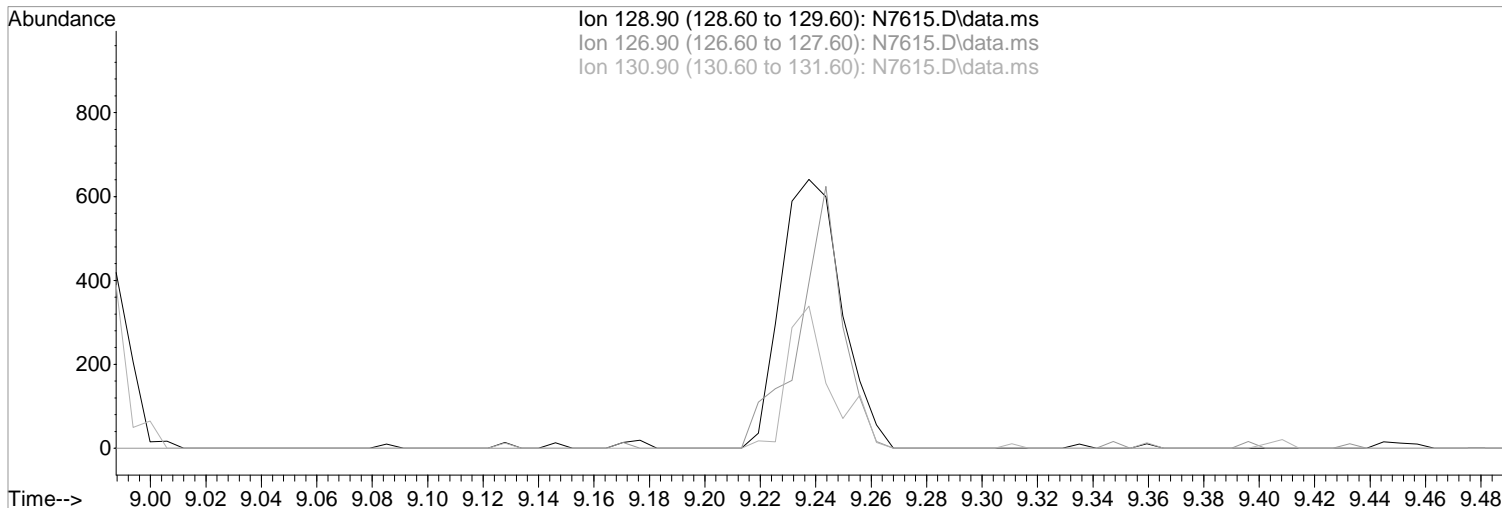
08/24/17



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7615.D  
Acq On : 23 Aug 2017 11:23 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:49:52 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Tue Aug 22 15:40:34 2017  
Response via : Initial Calibration



TIC: N7615.D\data.ms

(74) Dibromochloromethane (P)

Manual Integration:

9.238min (-9.238) 0.00 ug/L

Before

response 0

Ion Exp% Act%

08/24/17

128.90 100 0.00

126.90 76.50 0.00#

130.90 24.40 0.00#

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7615.D  
 Acq On : 23 Aug 2017 11:23 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 13:55:16 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Aug 22 15:40:34 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.391	168	277394	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	413097	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	362072	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	179625	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	27959	10.66	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	21.32%#		
46) surr1,1,2-dichloroetha...	5.781	65	34548	11.27	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	22.54%#		
64) SURR3,Toluene-d8	8.311	98	111541	10.97	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	21.94%#		
69) SURR2,BFB	10.877	95	42556	10.79	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	21.58%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.154	85	1525	0.55	ug/L	94
3) Chloromethane	1.282	50	3317	0.66	ug/L	88
4) Vinyl Chloride	1.361	62	1944	0.54	ug/L	84
5) Bromomethane	1.593	94	1652	0.75	ug/L	96
6) Chloroethane	1.672	64	1653	0.79	ug/L	91
7) Freon 21	1.818	67	2584	0.50	ug/L	89
8) Trichlorofluoromethane	1.867	101	1744	0.47	ug/L	98
9) Diethyl Ether	2.093	59	1449	0.48	ug/L #	77
10) Freon 123a	2.105	67	1661	0.48	ug/L	86
11) Freon 123	2.154	83	1860	0.53	ug/L	83
12) Acrolein	2.196	56	2377	2.67	ug/L	93
13) 1,1-Dicethene	2.288	96	1076	0.41	ug/L	91
14) Freon 113	2.294	101	1253	0.51	ug/L	84
15) Acetone	2.330	43	1855	0.83	ug/L	77
16) 2-Propanol	2.465	45	2302	5.34	ug/L #	46
17) Iodomethane	2.416	142	694	0.22	ug/L	88
18) Carbon Disulfide	2.483	76	3640	0.49	ug/L	95
19) Acetonitrile	2.580	40	865	2.09	ug/L #	56
20) Allyl Chloride	2.623	76	488	0.36	ug/L #	1
21) Methyl Acetate	2.641	43	2705	0.35	ug/L	97
22) Methylene Chloride	2.739	84	1538	0.58	ug/L	85
23) TBA	2.867	59	3569m	5.89	ug/L	
24) Acrylonitrile	2.989	53	4205	2.15	ug/L	84
25) Methyl-t-Butyl Ether	3.050	73	3678	0.42	ug/L	93
26) trans-1,2-Dichloroethene	3.031	96	1133	0.42	ug/L #	87
27) 1,1-Dicethane	3.531	63	2574	0.50	ug/L	90
29) DIPE	3.653	45	6651	0.49	ug/L	90
30) 2-Chloro-1,3-Butadiene	3.653	53	2461	0.49	ug/L #	62
31) ETBE	4.178	59	4161	0.39	ug/L	91
32) 2,2-Dichloropropane	4.354	77	1112m	0.30	ug/L	
33) cis-1,2-Dichloroethene	4.379	96	1473m	0.49	ug/L	
34) 2-Butanone	4.440	43	1750m	0.62	ug/L	
35) Propionitrile	4.501	54	1829	2.22	ug/L	92
36) Bromochloromethane	4.769	130	976m	0.49	ug/L	
37) Methacrylonitrile	4.763	67	650m	0.40	ug/L	
38) Tetrahydrofuran	4.873	42	902	0.49	ug/L	74
39) Chloroform	4.952	83	2005m	0.46	ug/L	
40) 1,1,1-Trichloroethane	5.244	97	1533m	0.38	ug/L	
42) Cyclohexane	5.336	41	2150	0.60	ug/L #	57

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7615.D  
 Acq On : 23 Aug 2017 11:23 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 13:55:16 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Aug 22 15:40:34 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Carbontetrachloride	5.537	117	1304	0.40	ug/L	86
45) 1,1-Dichloropropene	5.537	75	1968	0.56	ug/L	88
47) Benzene	5.866	78	5360	0.49	ug/L	88
48) 1,2-Dichloroethane	5.897	62	1855	0.47	ug/L	79
49) Iso-Butyl Alcohol	5.872	43	1696m	5.24	ug/L	
50) TAME	6.098	73	2980	0.35	ug/L	95
51) n-Heptane	6.360	43	2595	0.53	ug/L	87
52) 1-Butanol	6.860	56	1505	8.48	ug/L	87
53) Trichloroethene	6.823	130	1226	0.40	ug/L #	87
54) Methylcyclohexane	7.049	55	2542	0.57	ug/L #	59
55) 1,2-Dicloropropane	7.098	63	1677	0.52	ug/L	93
56) Dibromomethane	7.244	93	783	0.43	ug/L	90
57) 1,4-Dioxane	7.317	88	377	6.99	ug/L	76
58) Methyl Methacrylate	7.335	69	688	0.27	ug/L	92
59) Bromodichloromethane	7.476	83	1217	0.36	ug/L	89
60) 2-Nitropropane	7.762	41	732m	0.63	ug/L	
61) 2-Chloroethylvinyl Ether	7.878	63	442	0.47	ug/L #	56
62) cis-1,3-Dichloropropene	8.012	75	1683	0.38	ug/L	85
63) 4-Methyl-2-pentanone	8.226	43	2252	0.45	ug/L	79
65) Toluene	8.384	91	5443	0.47	ug/L	87
66) trans-1,3-Dichloropropene	8.646	75	1239	0.32	ug/L	89
67) Ethyl Methacrylate	8.805	69	1280m	0.29	ug/L	
68) 1,1,2-Trichloroethane	8.841	97	1093	0.40	ug/L #	77
71) Tetrachloroethene	8.982	164	1127	0.52	ug/L #	81
72) 2-Hexanone	9.134	43	1708	0.45	ug/L	90
73) 1,3-Dichloropropane	9.012	76	2017	0.45	ug/L	92
74) Dibromochloromethane	9.238	129	985m	0.34	ug/L	
75) N-Butyl Acetate	9.292	43	2504	0.32	ug/L	87
76) 1,2-Dibromoethane	9.335	107	1138	0.43	ug/L	80
77) 3-Chlorobenzotrifluoride	9.847	180	1701	0.38	ug/L	89
78) Chlorobenzene	9.829	112	3977	0.53	ug/L	97
79) 4-Chlorobenzotrifluoride	9.908	180	2040	0.52	ug/L	85
80) 1,1,1,2-Tetrachloroethane	9.914	131	787	0.27	ug/L #	57
81) Ethylbenzene	9.945	106	1674	0.43	ug/L #	80
82) (m+p)Xylene	10.061	106	4933	0.98	ug/L	95
83) o-Xylene	10.420	106	2320	0.48	ug/L #	78
84) Styrene	10.432	104	3537	0.43	ug/L	94
85) Bromoform	10.579	173	747	0.40	ug/L	76
86) 2-Chlorobenzotrifluoride	10.664	180	1974	0.46	ug/L #	76
87) Isopropylbenzene	10.756	105	5244	0.42	ug/L	99
88) Cyclohexanone	10.817	55	5869	8.15	ug/L	98
89) trans-1,4-Dichloro-2-B...	11.066	53	463	0.42	ug/L #	48
91) 1,1,2,2-Tetrachloroethane	11.012	83	1587	0.44	ug/L	91
92) Bromobenzene	10.999	156	1692	0.53	ug/L	95
93) 1,2,3-Trichloropropane	11.042	110	462	0.39	ug/L #	87
94) n-Propylbenzene	11.109	91	6521	0.49	ug/L	99
95) 2-Chlorotoluene	11.176	91	3752	0.47	ug/L	97
96) 3-Chlorotoluene	11.225	91	4111	0.47	ug/L	96
97) 4-Chlorotoluene	11.268	91	4127	0.45	ug/L	84
98) 1,3,5-Trimethylbenzene	11.262	105	4000	0.41	ug/L	97
99) tert-Butylbenzene	11.536	119	4044	0.46	ug/L	97
100) 1,2,4-Trimethylbenzene	11.579	105	4667	0.46	ug/L	87
101) 3,4-Dichlorobenzotrifl...	11.640	214	1635	0.54	ug/L #	81
102) sec-Butylbenzene	11.713	105	5652	0.45	ug/L	96
103) p-Isopropyltoluene	11.841	119	4957	0.46	ug/L	92
104) 1,3-Dclbenz	11.798	146	3144	0.53	ug/L	85

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7615.D  
 Acq On : 23 Aug 2017 11:23 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 13:55:16 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Aug 22 15:40:34 2017  
 Response via : Initial Calibration

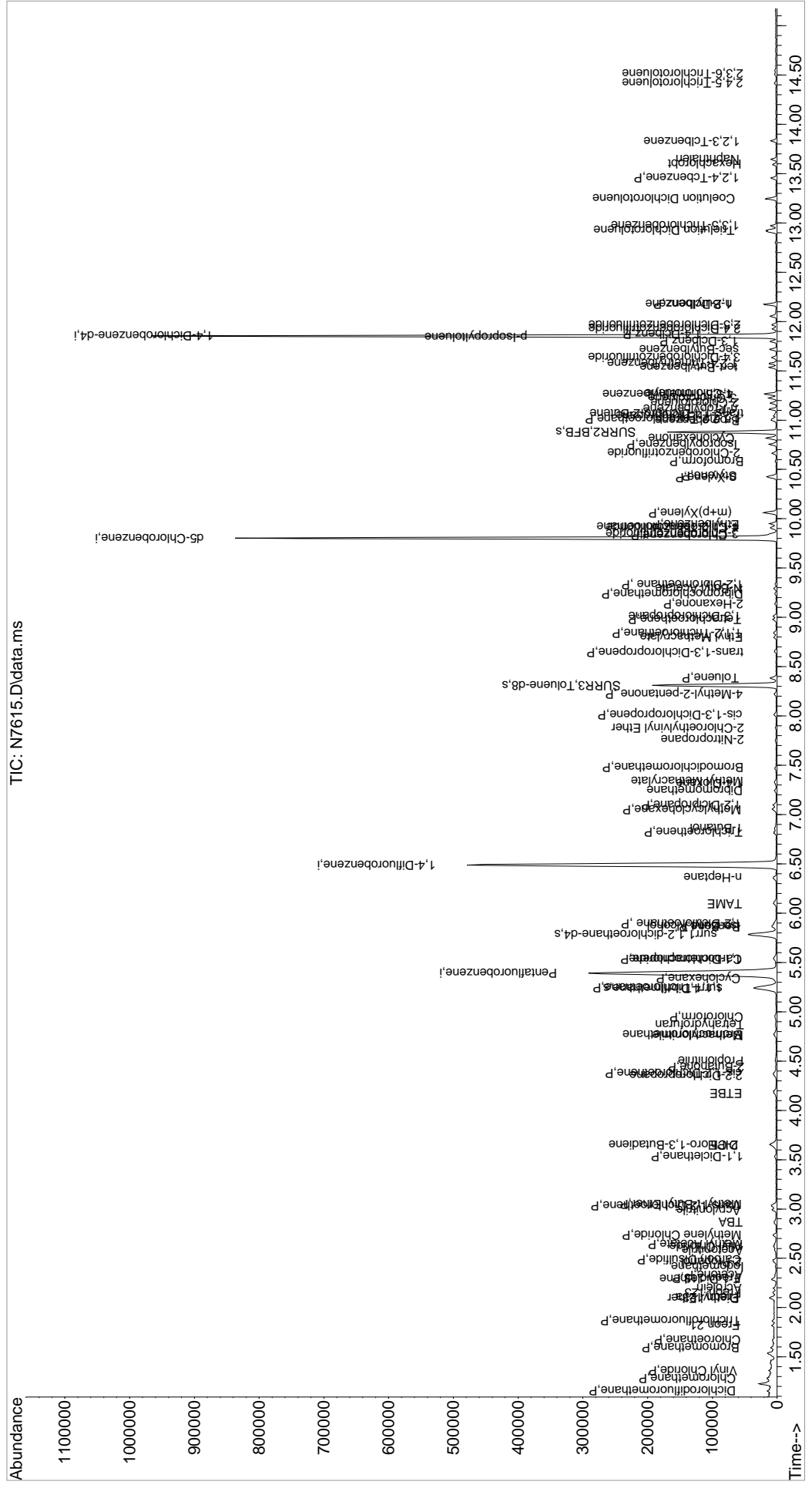
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.871	146	3002	0.48	ug/L #	82
106) 2,4-Dichlorobenzotrifl...	11.926	214	1440	0.53	ug/L #	84
107) 2,5-Dichlorobenzotrifl...	11.963	214	1597	0.52	ug/L #	75
108) n-Butylbenzene	12.176	91	4323	0.46	ug/L	96
109) 1,2-Dclbenz	12.176	146	3028	0.51	ug/L	95
111) Trielution Dichlorotol...	12.926	125	7906	1.45	ug/L	82
112) 1,3,5-Trichlorobenzene	12.975	180	2320	0.53	ug/L	83
113) Coelution Dichlorotoluene	13.249	125	5346	0.92	ug/L	90
114) 1,2,4-Tcbenzene	13.456	180	2033	0.50	ug/L #	77
115) Hexachlorobt	13.596	225	679	0.42	ug/L	80
116) Naphthalen	13.645	128	4631	0.38	ug/L	92
117) 1,2,3-Tclbenzene	13.828	180	2062	0.50	ug/L #	79
118) 2,4,5-Trichlorotoluene	14.419	159	819	0.31	ug/L	90
119) 2,3,6-Trichlorotoluene	14.511	159	580	0.24	ug/L	76

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

Data Path : I:\ACQDATA\msvoa10\data\082317\  
 Data File : N7615.D  
 Acq On : 23 Aug 2017 11:23 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

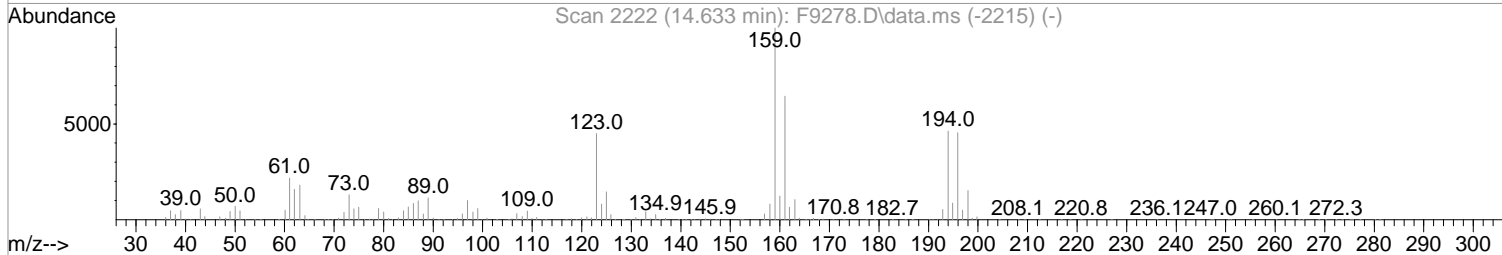
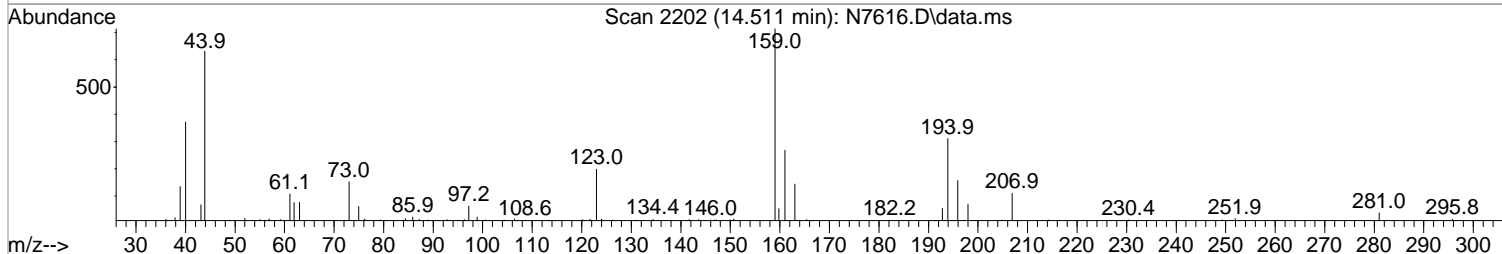
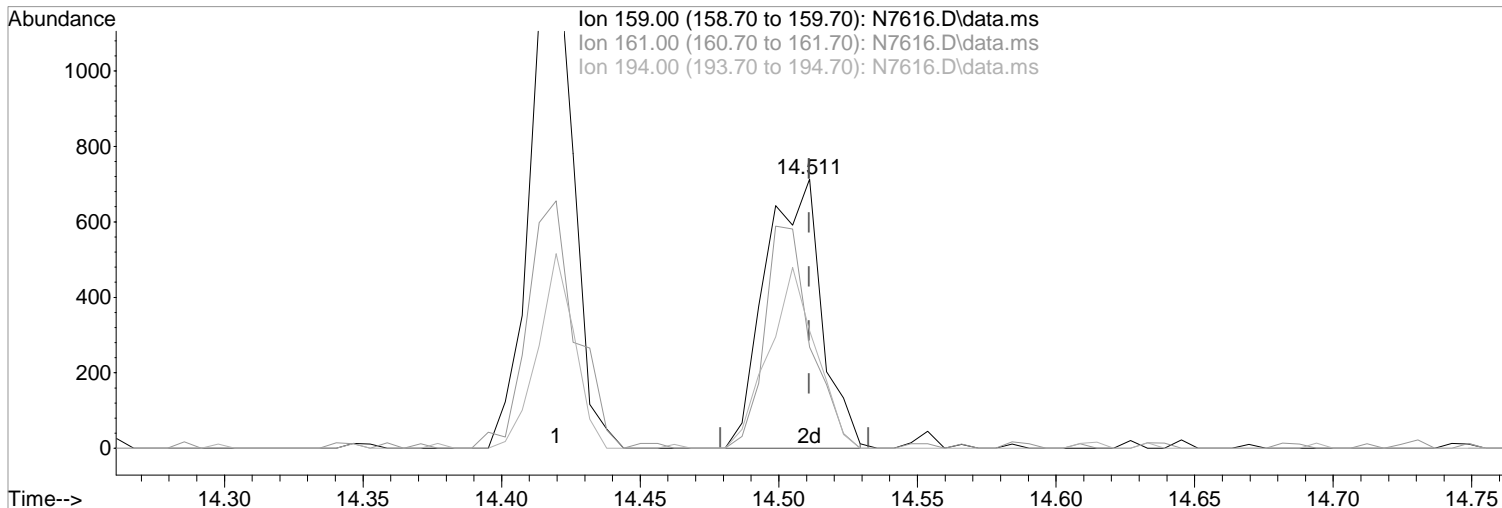
Quant Time: Aug 24 13:55:16 2017  
 Quant Method : I:\ACQDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Aug 22 15:40:34 2017  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.511min (+0.000) 0.45 ug/L m  
response 1002

Ion	Exp%	Act%
159.00	100	100
161.00	64.40	37.59#
194.00	46.30	43.62
0.00	0.00	0.00

Manual Integration:

After

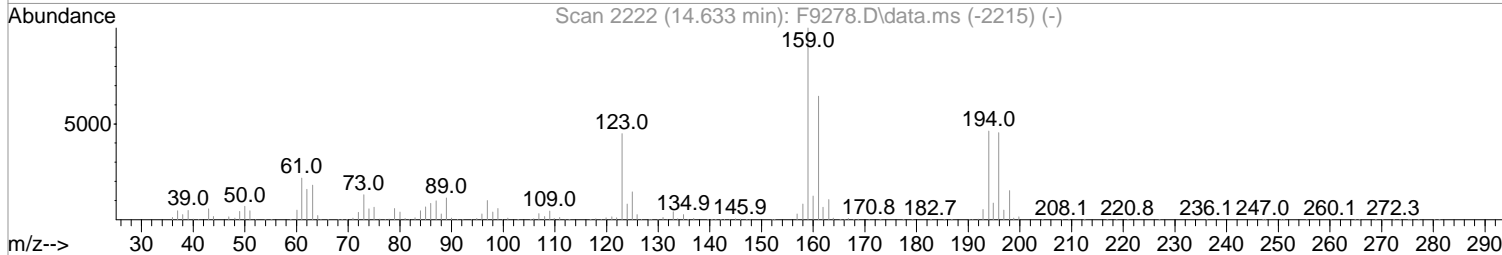
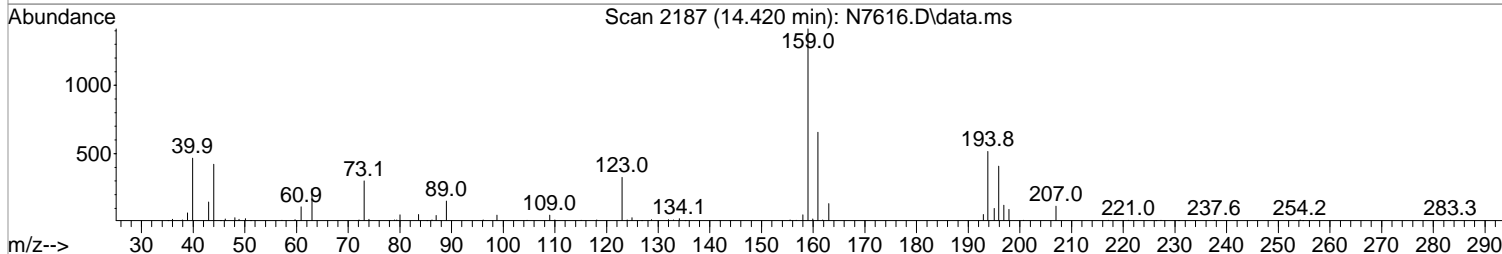
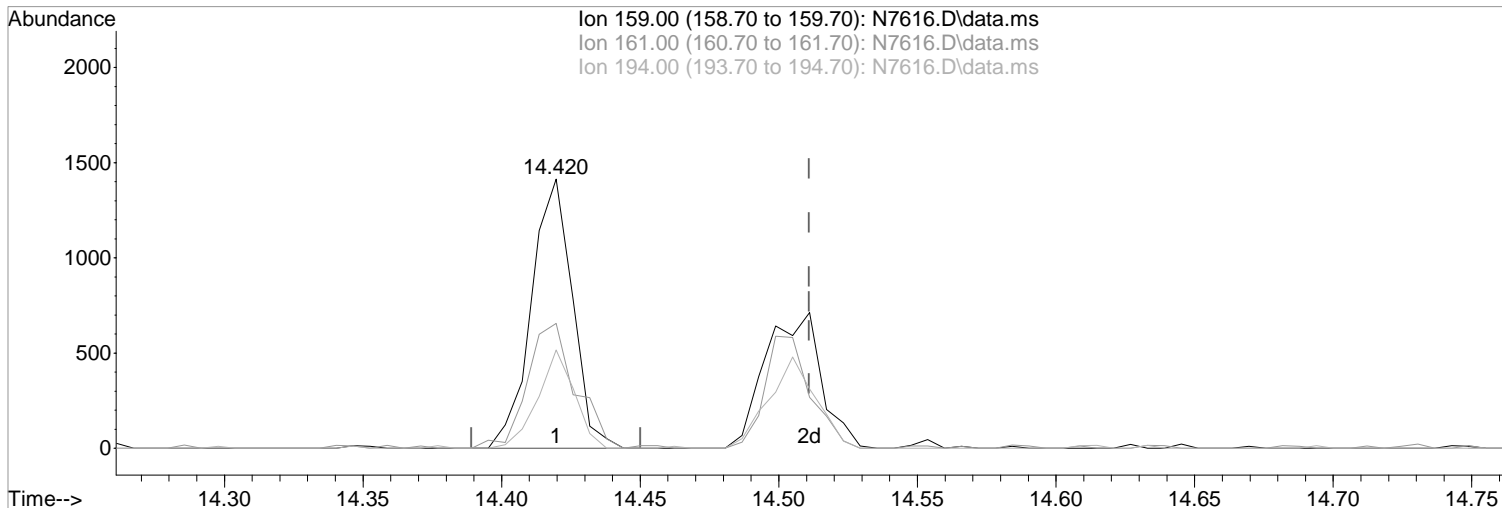
Wrong peak selected.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(119) 2,3,6-Trichlorotoluene  
14.420min (-0.091) 0.66 ug/L  
response 1456

Manual Integration:  
Before

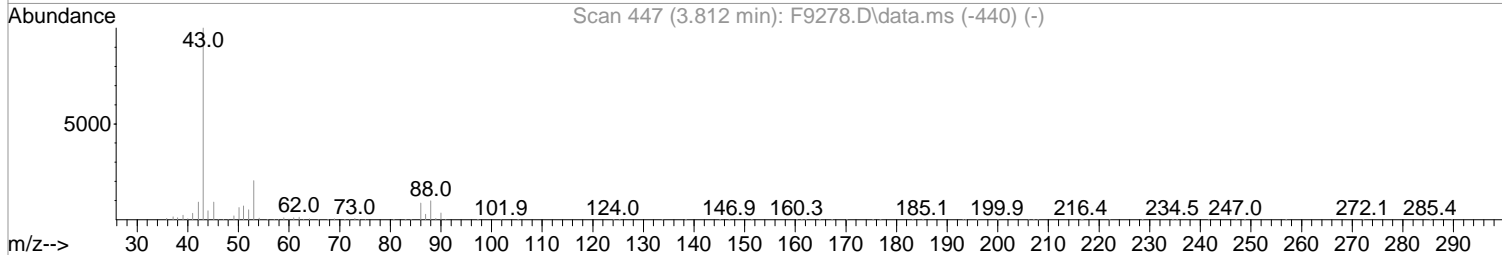
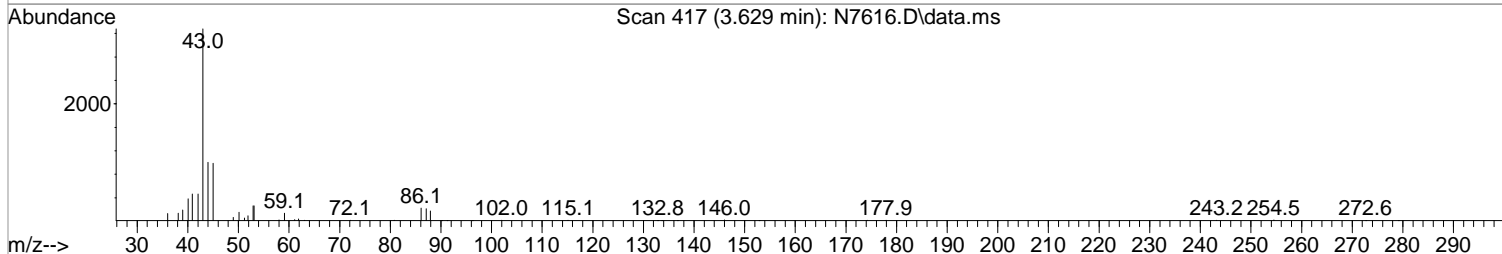
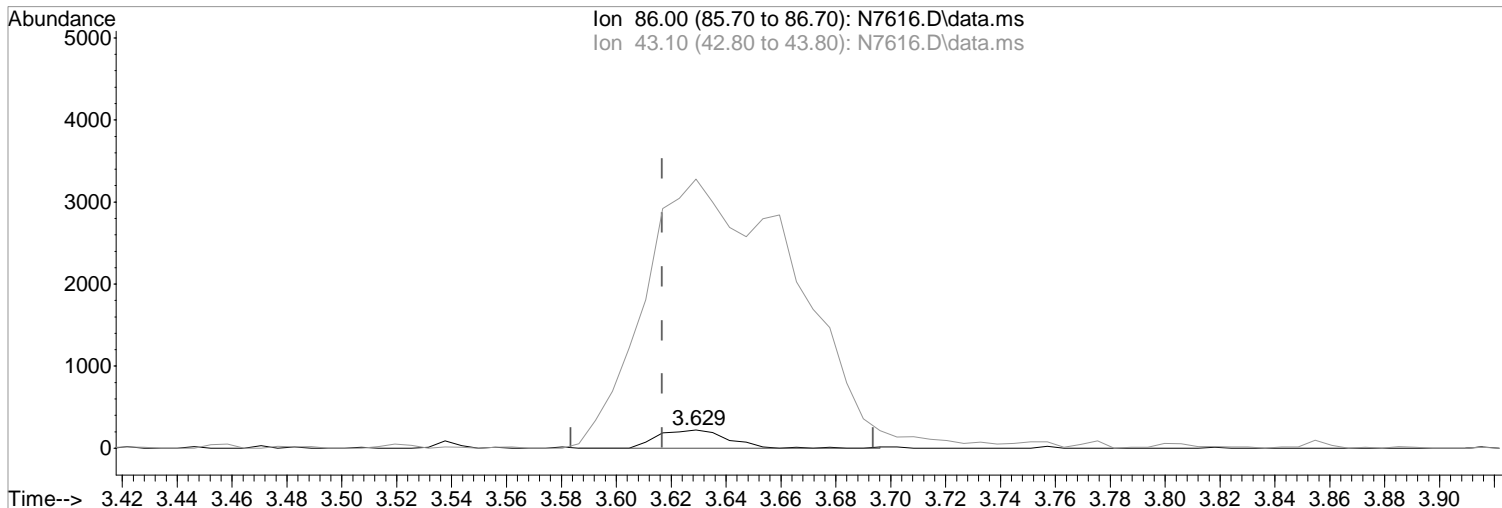
Ion	Exp%	Act%
159.00	100	100
161.00	64.40	46.43
194.00	46.30	36.52
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(28) Vinyl Acetate  
3.629min (+0.012) 0.84 ug/L m  
response 398

Manual Integration:  
After  
Peak not found.

Ion	Exp%	Act%
86.00	100	100
43.10	1149.40	1469.96#
0.00	0.00	0.00
0.00	0.00	0.00

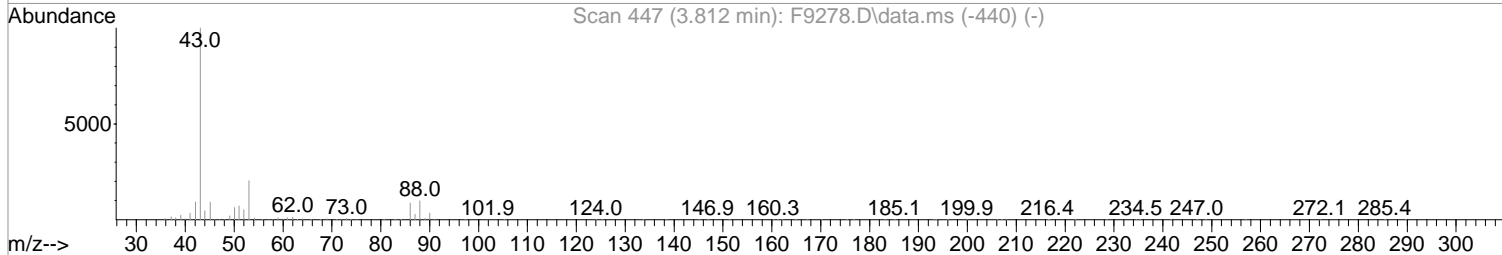
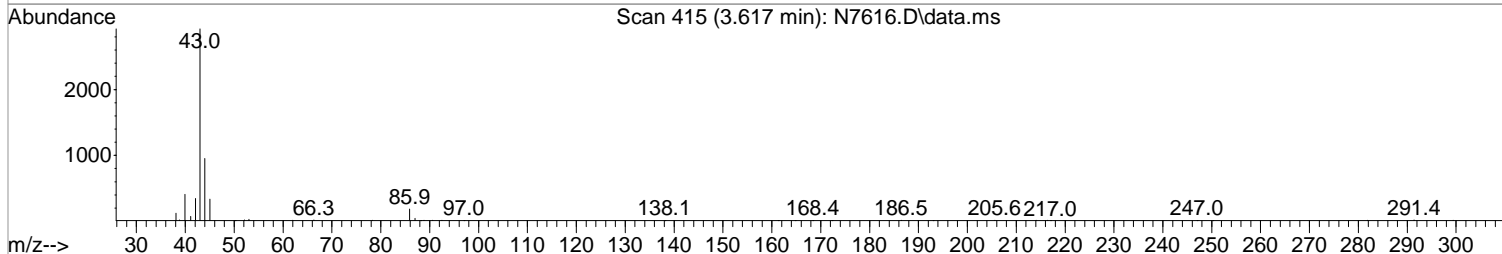
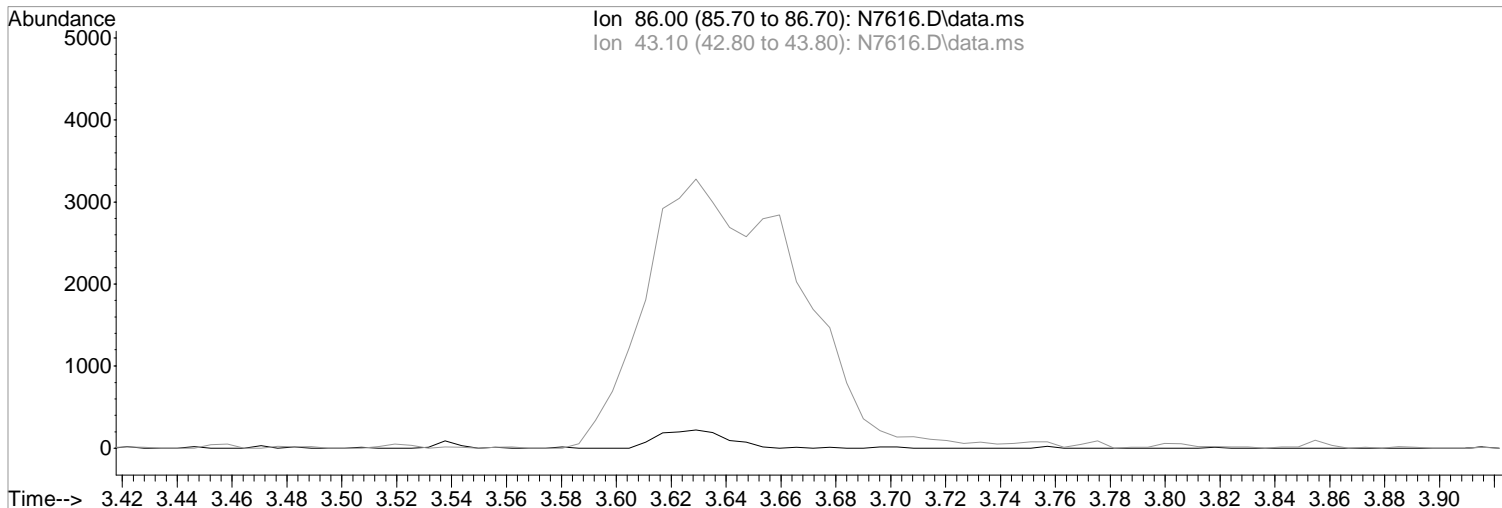
08/24/17



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(28) Vinyl Acetate  
3.617min (-3.617) 0.00 ug/L  
response 0

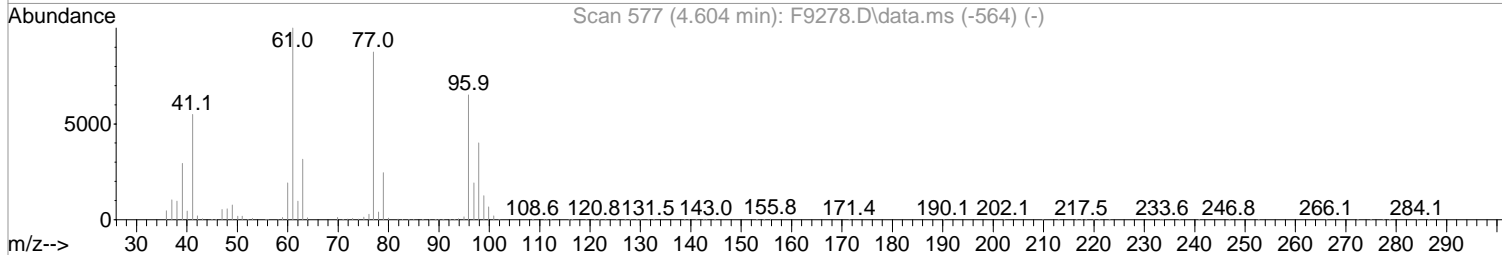
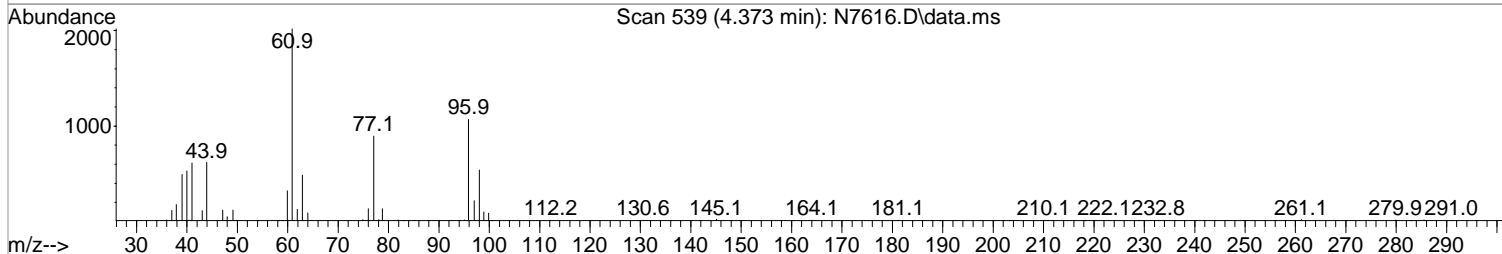
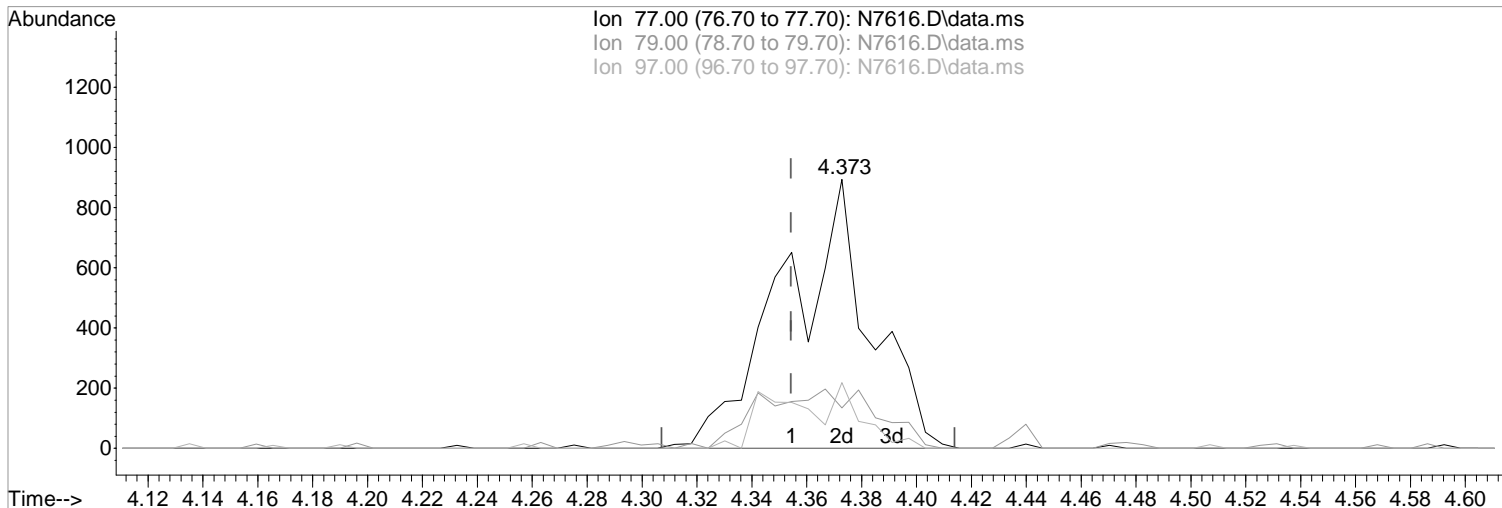
Manual Integration:  
Before

Ion	Exp%	Act%
86.00	100	0.00
43.10	1149.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(32) 2,2-Dichloropropane  
4.373min (+0.018) 0.60 ug/L m  
response 1963

Manual Integration:  
After  
Poor integration.

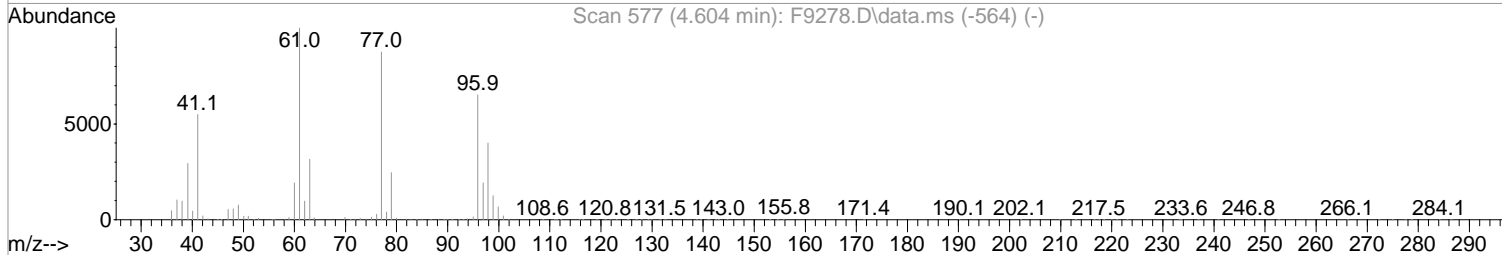
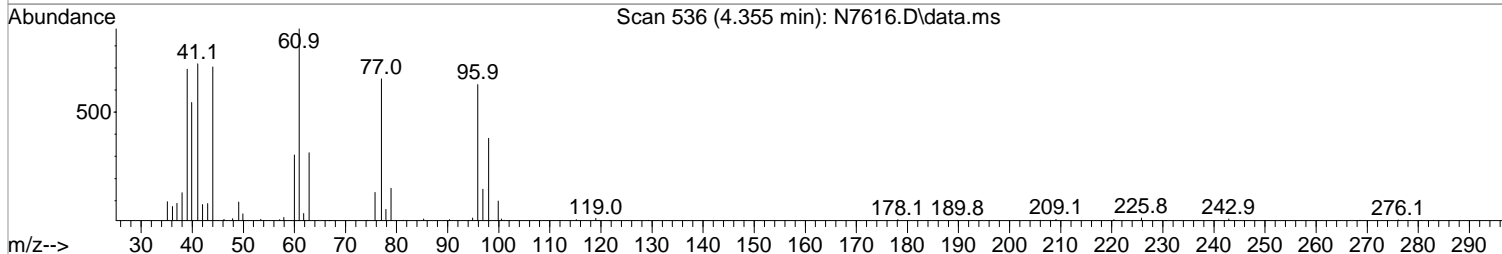
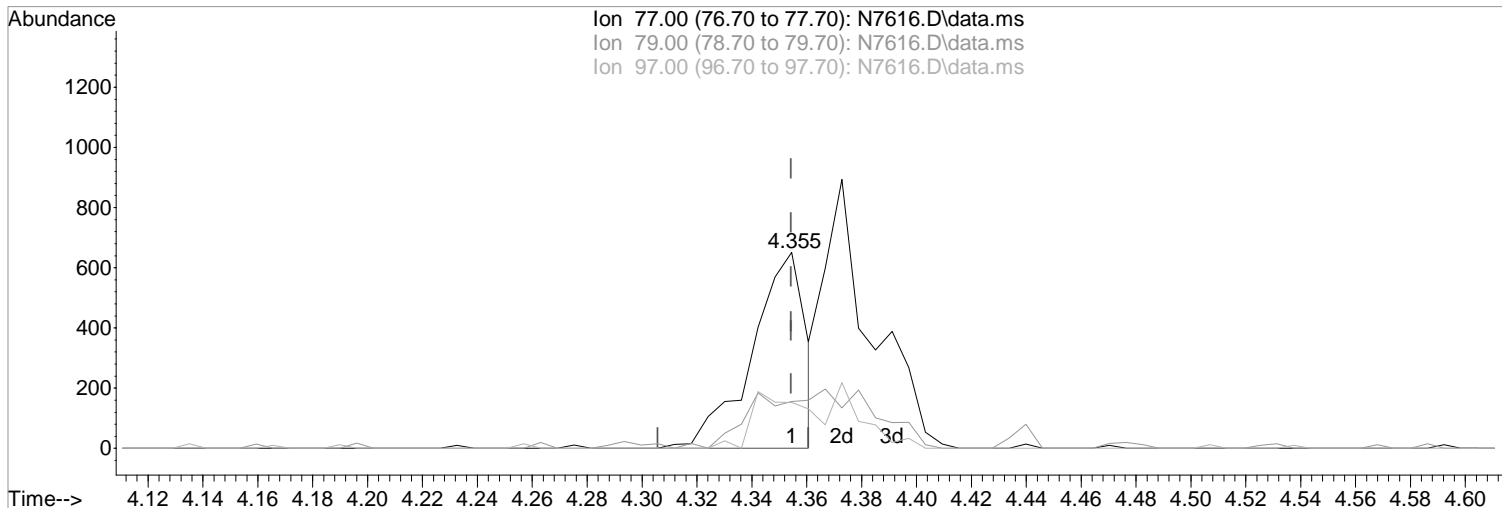
Ion	Exp%	Act%
77.00	100	100
79.00	28.00	14.99
97.00	21.90	24.38
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(32) 2,2-Dichloropropane  
4.355min (+0.000) 0.27 ug/L  
response 887

Manual Integration:  
Before

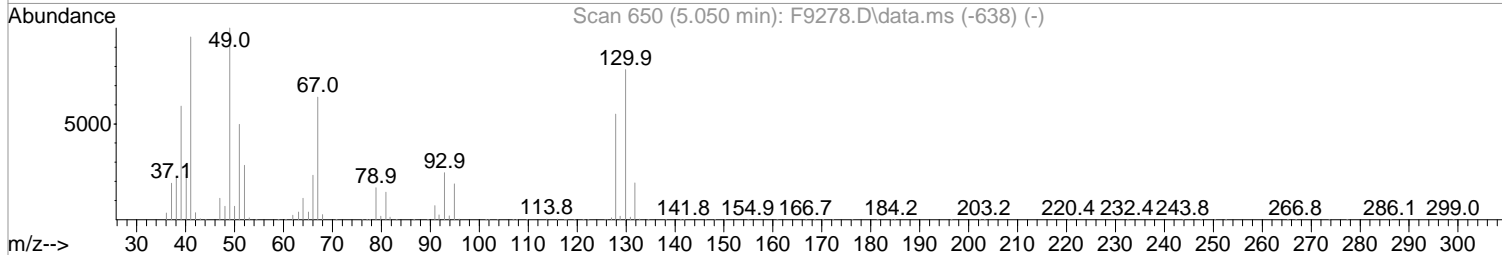
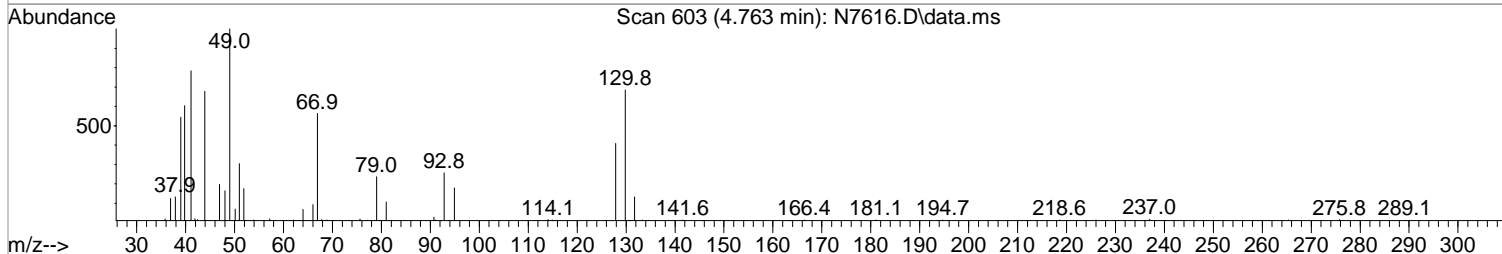
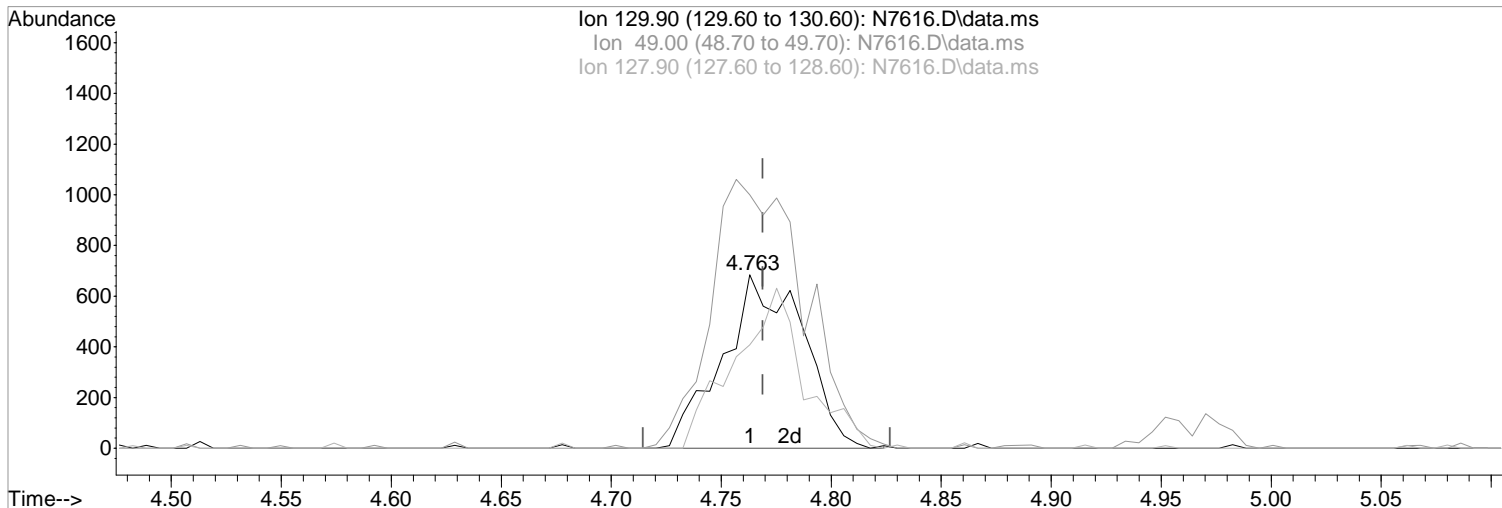
Ion	Exp%	Act%
77.00	100	100
79.00	28.00	23.96
97.00	21.90	23.35
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(36) Bromochloromethane

4.763min (-0.006) 0.94 ug/L m  
response 1743

Ion	Exp%	Act%
129.90	100	100
49.00	127.60	146.20
127.90	70.30	59.65
0.00	0.00	0.00

Manual Integration:

After

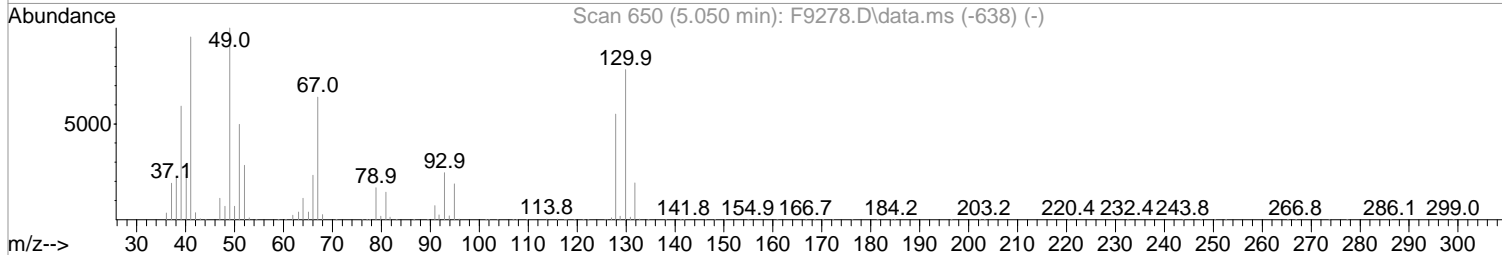
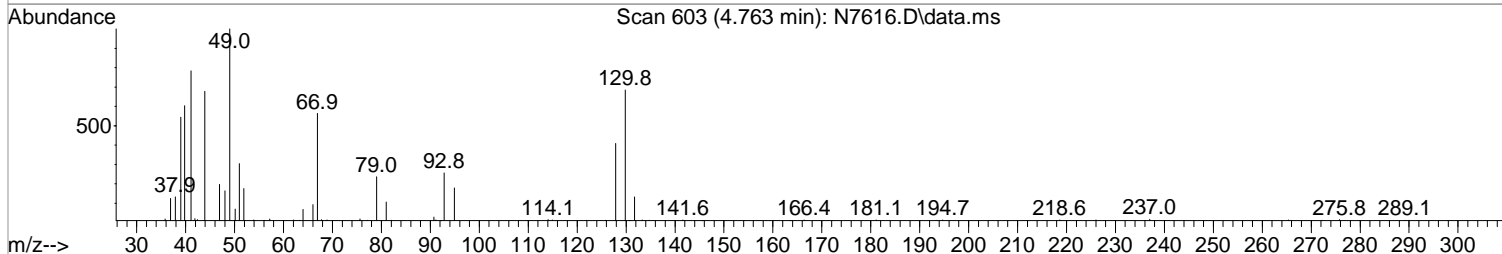
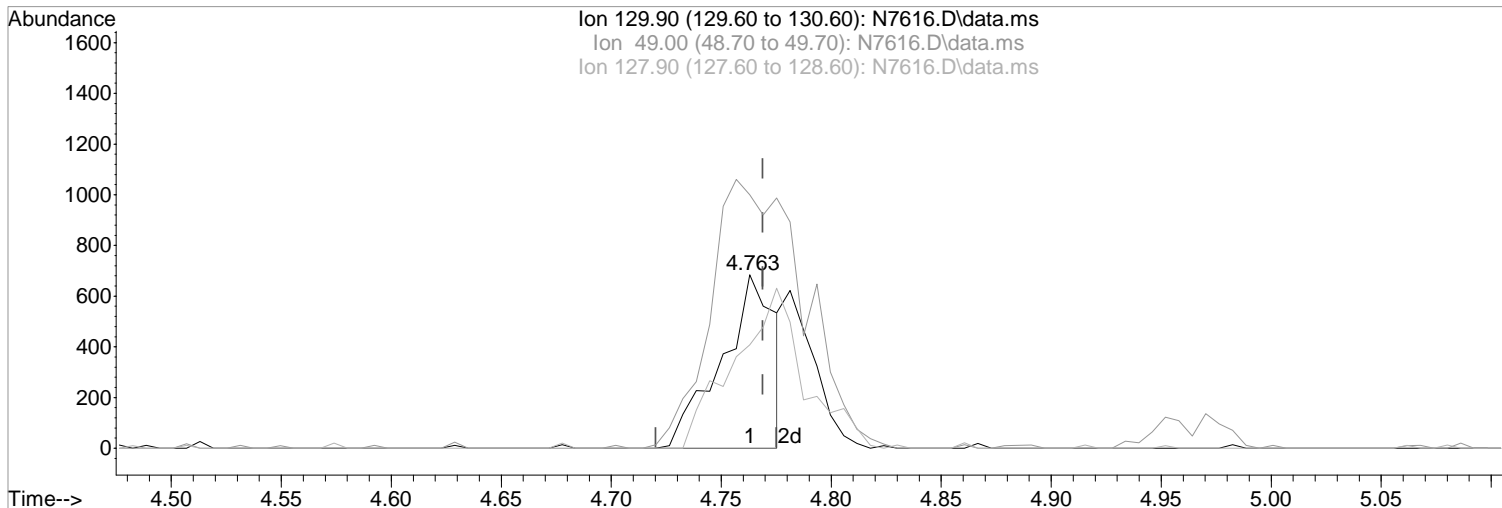
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(36) Bromochloromethane  
4.763min (-0.006) 0.62 ug/L  
response 1149

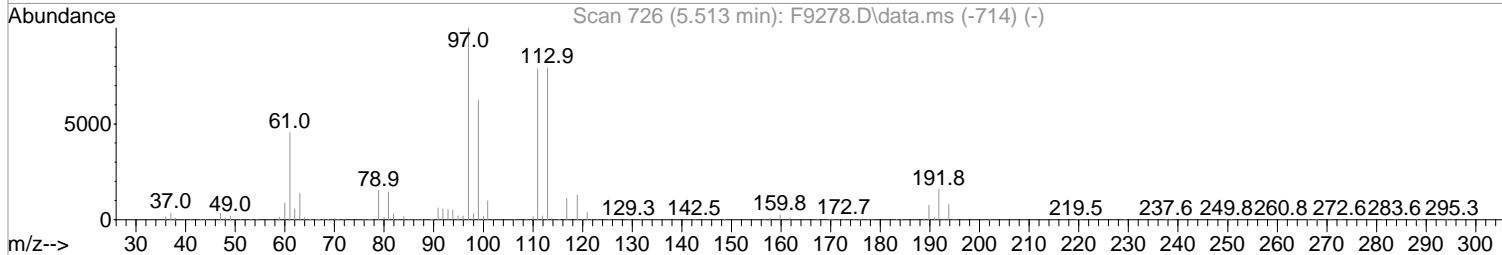
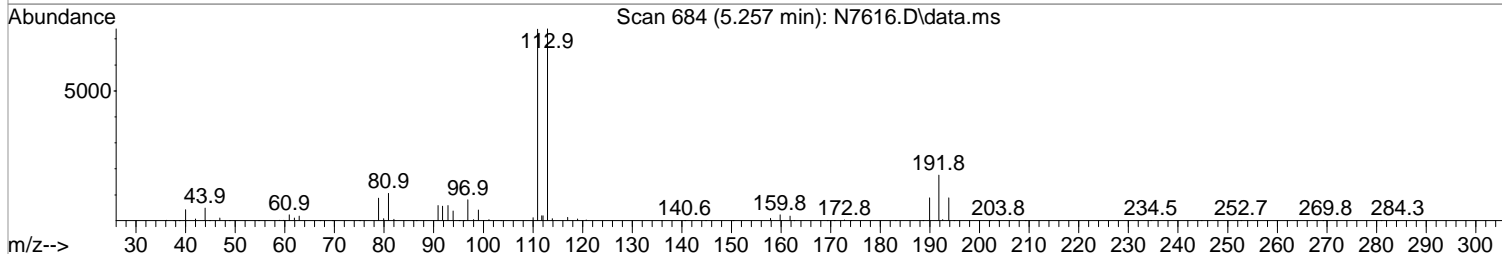
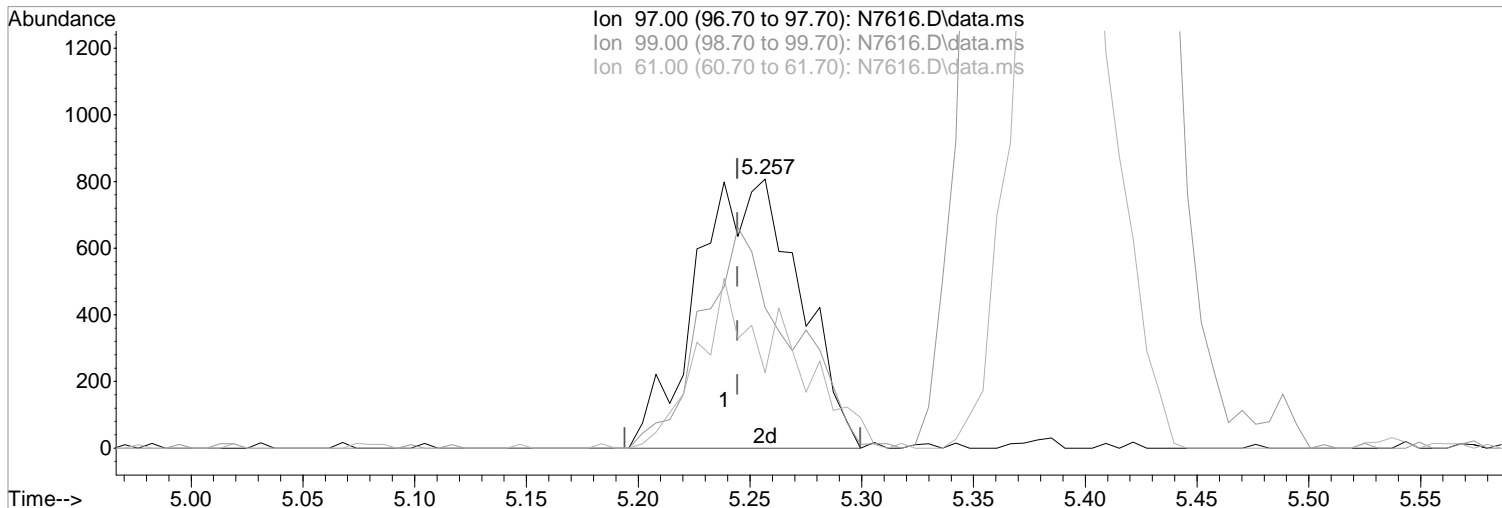
Manual Integration:  
Before

Ion	Exp%	Act%
129.90	100	100
49.00	127.60	146.20
127.90	70.30	59.65
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7616.D  
 Acq On : 23 Aug 2017 11:45 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration



TIC: N7616.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.257min (+0.012) 0.73 ug/L m  
 response 2593

Ion	Exp%	Act%
97.00	100	100
99.00	62.40	52.17
61.00	45.40	28.00
0.00	0.00	0.00

Manual Integration:

After

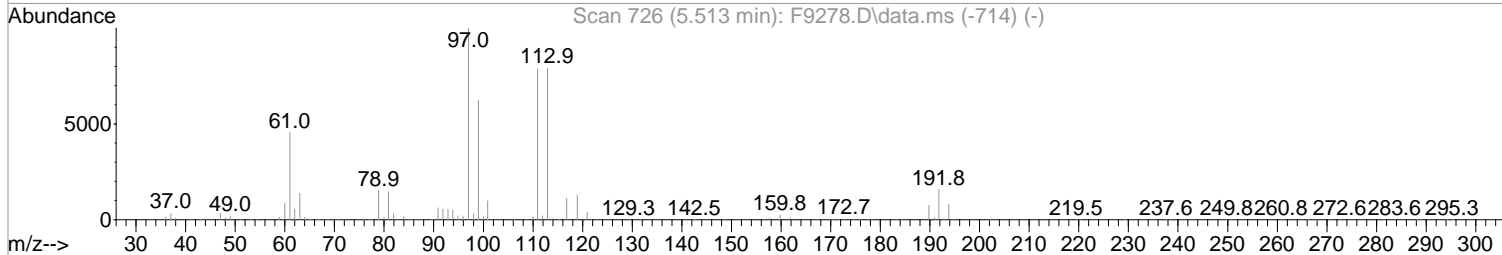
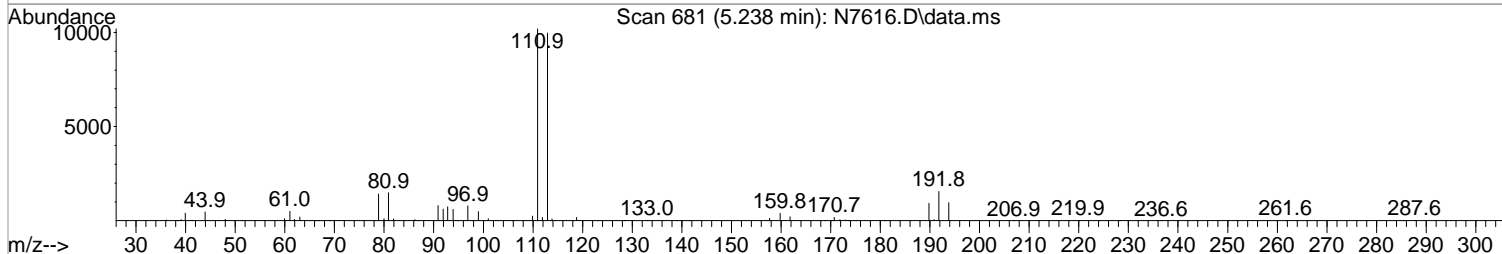
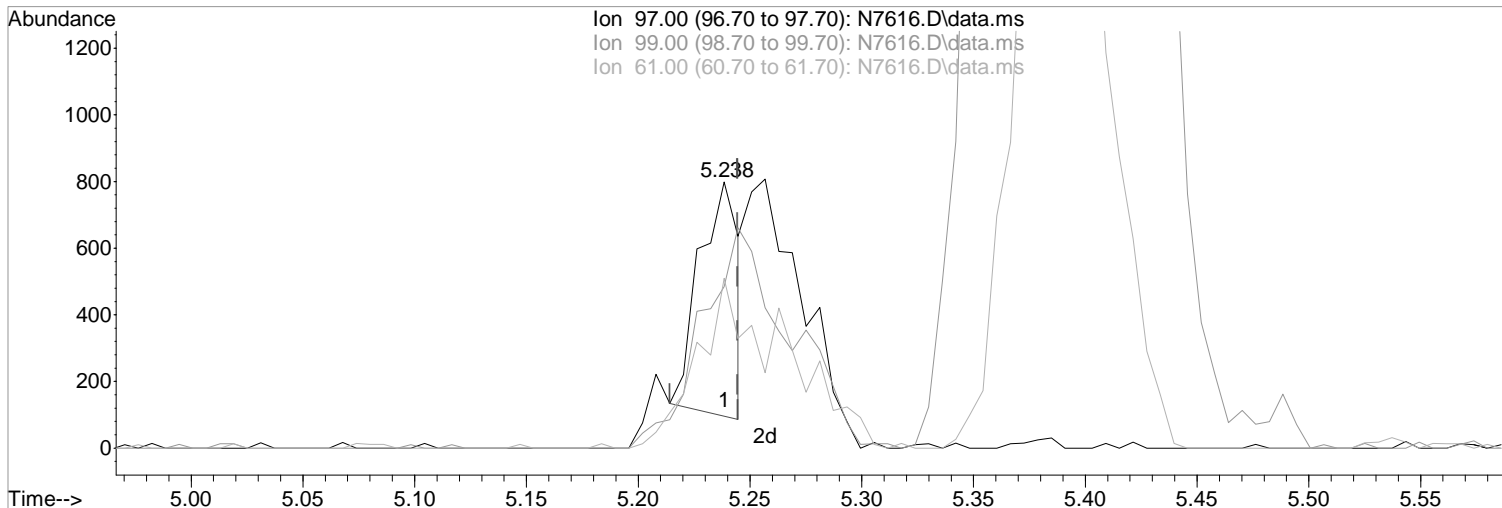
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(40) 1,1,1-Trichloroethane (P)

Manual Integration:

5.238min (-0.006) 0.24 ug/L

Before

response 848

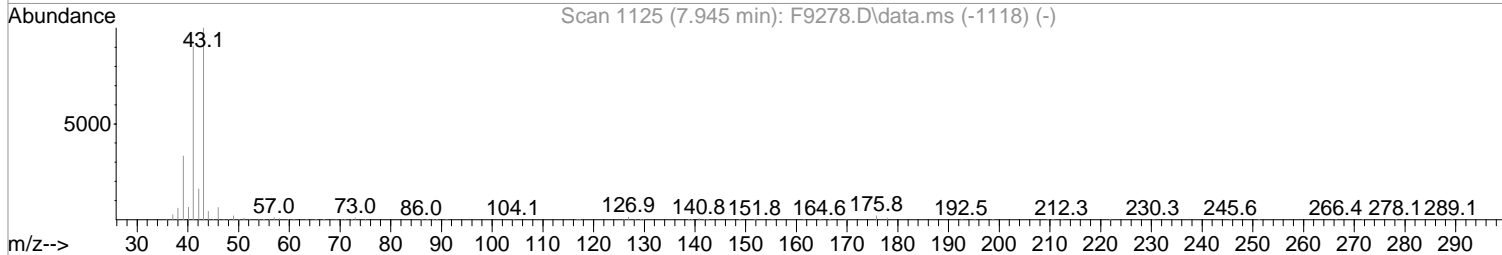
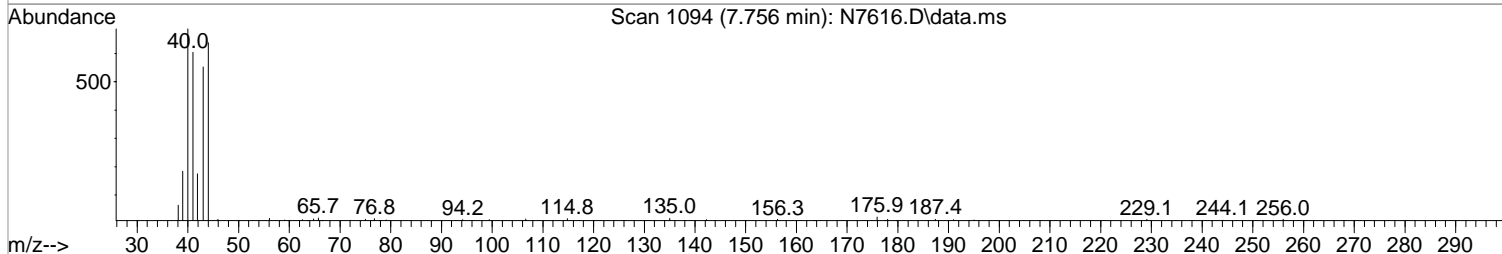
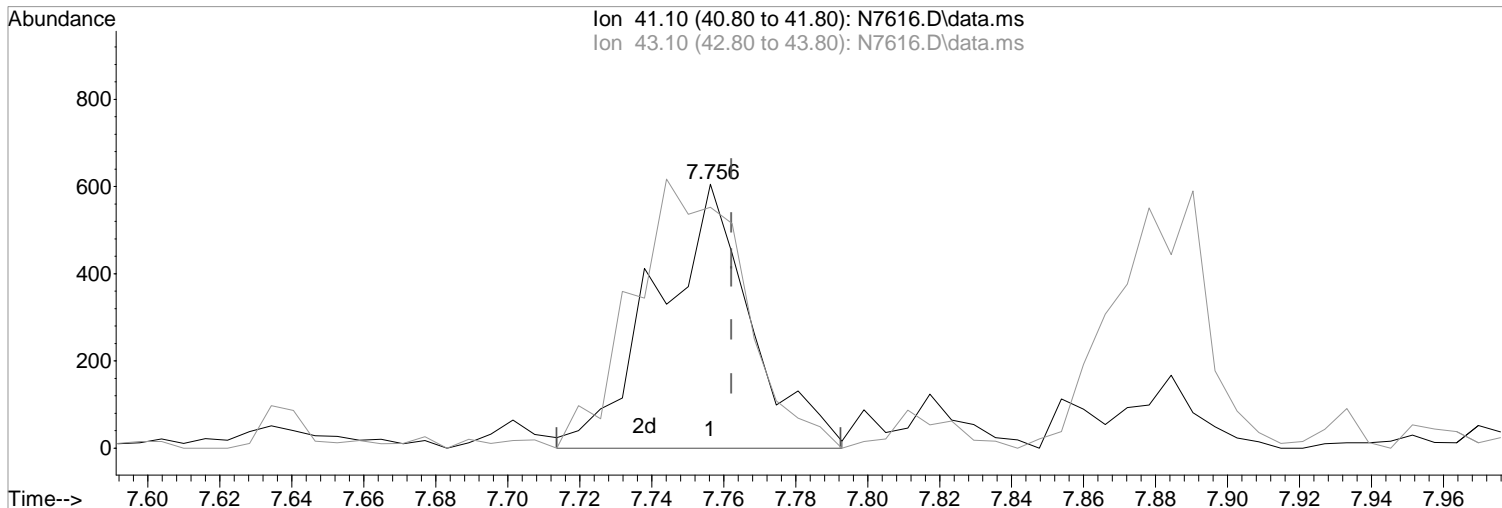
Ion	Exp%	Act%
97.00	100	100
99.00	62.40	60.70
61.00	45.40	63.83
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(60) 2-Nitropropane

7.756min (-0.006) 1.05 ug/L m

response 1094

Ion	Exp%	Act%
41.10	100	100
43.10	110.70	91.24
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

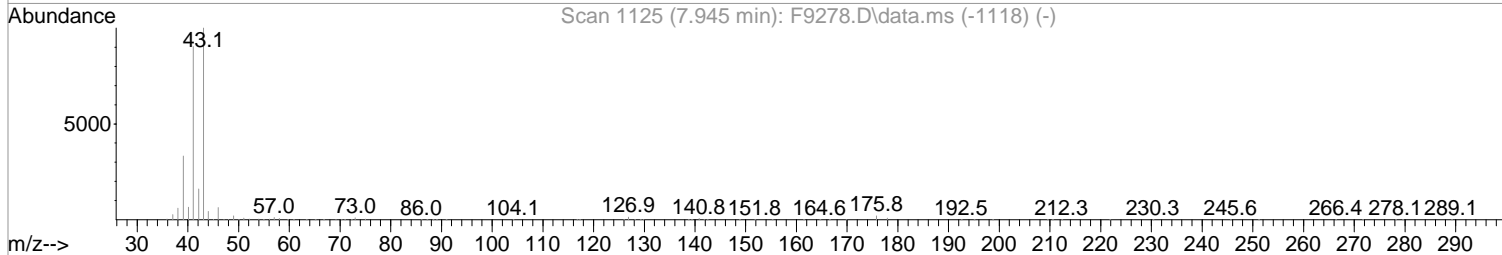
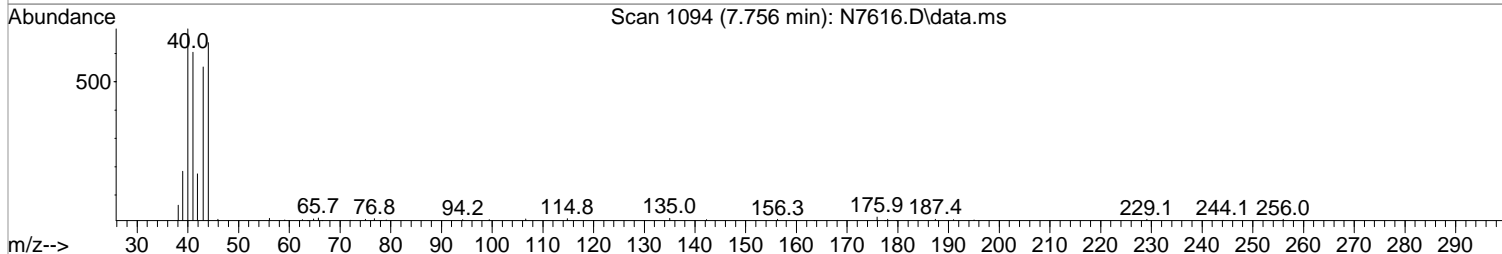
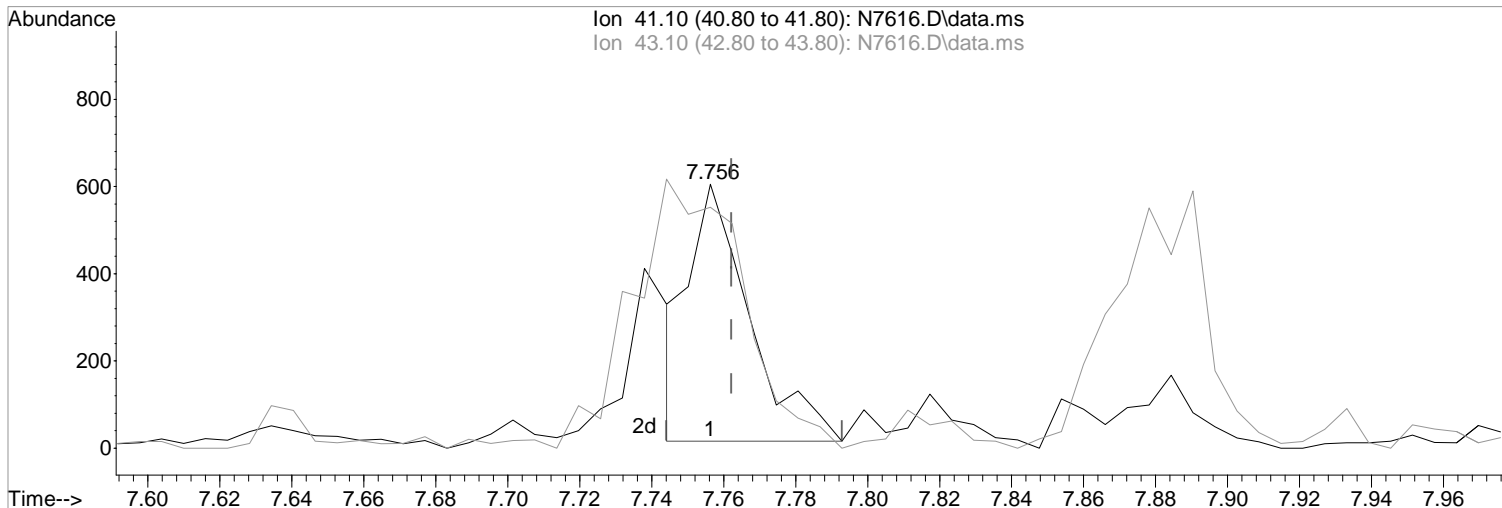
08/24/17



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(60) 2-Nitropropane  
7.756min (-0.006) 0.66 ug/L  
response 687

Manual Integration:  
Before

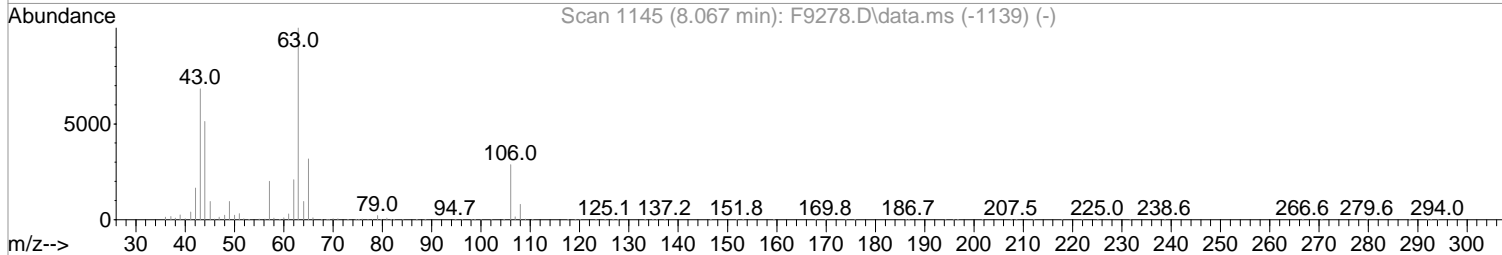
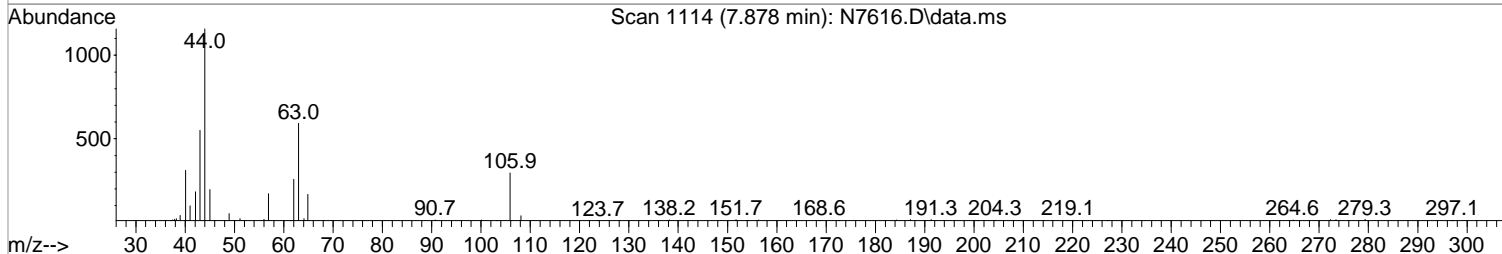
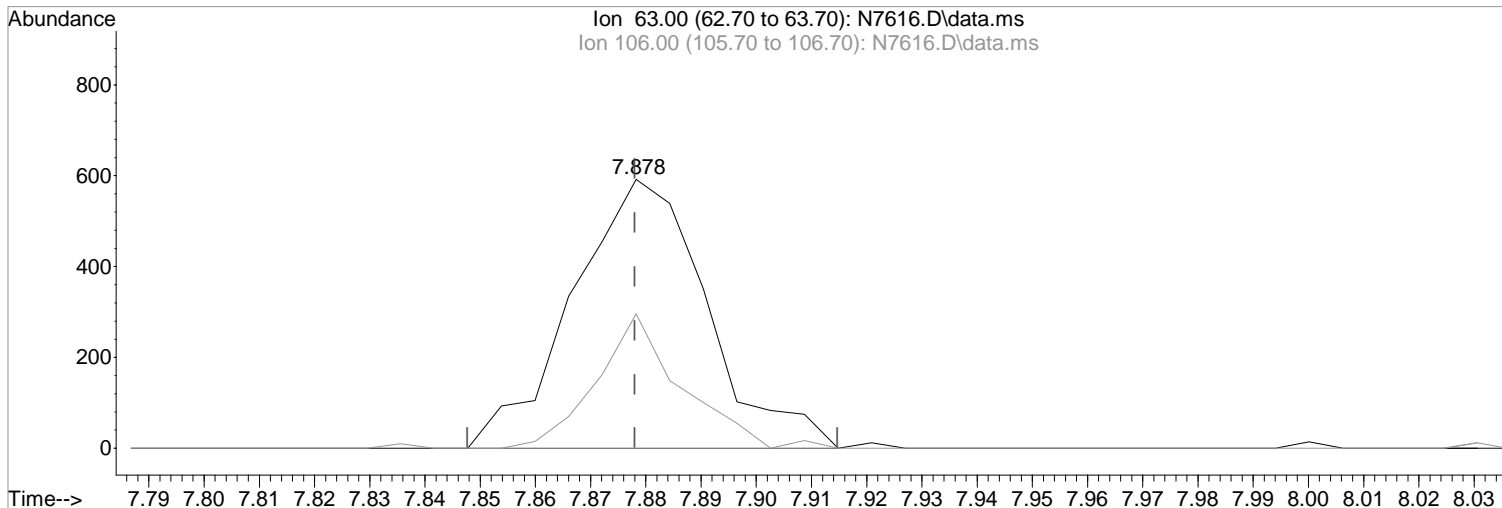
Ion	Exp%	Act%
41.10	100	100
43.10	110.70	91.24
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(61) 2-Chloroethylvinyl Ether

7.878min (+0.000) 1.14 ug/L m

response 999

Ion Exp% Act%

63.00 100 100

106.00 28.70 50.00#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

After

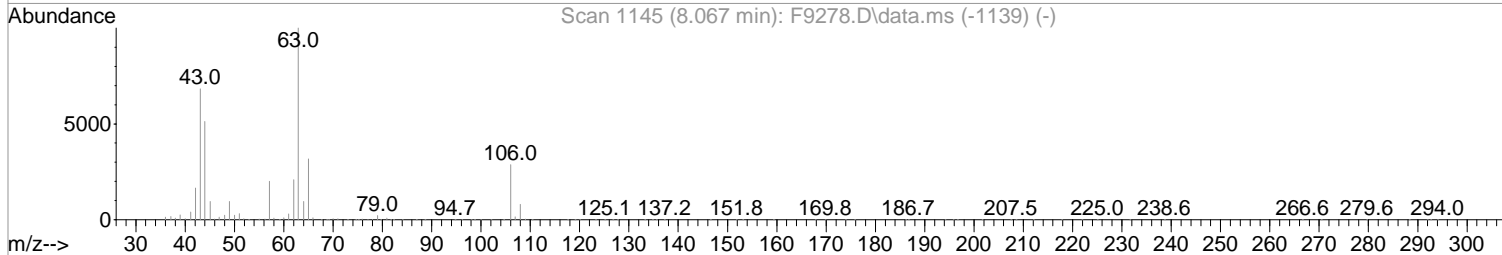
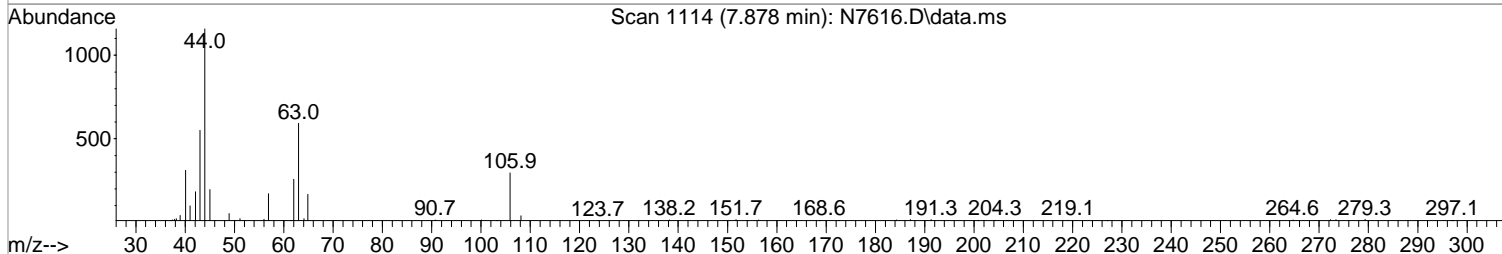
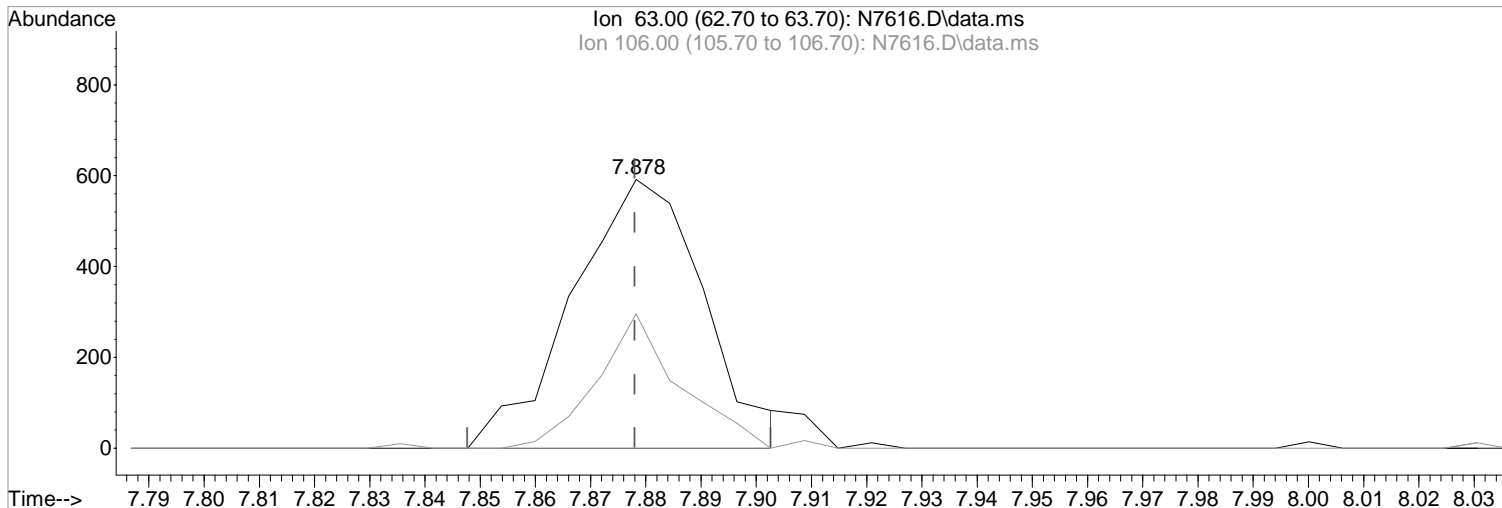
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(61) 2-Chloroethylvinyl Ether

Manual Integration:

7.878min (+0.000) 1.11 ug/L

Before

response 971

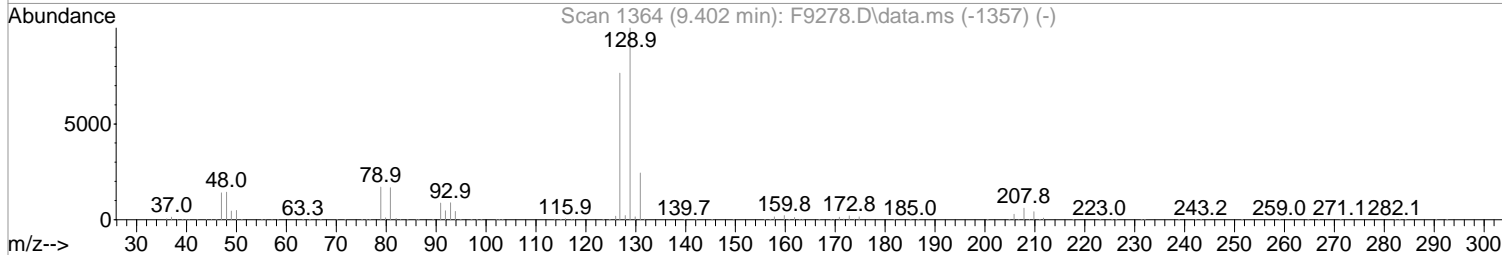
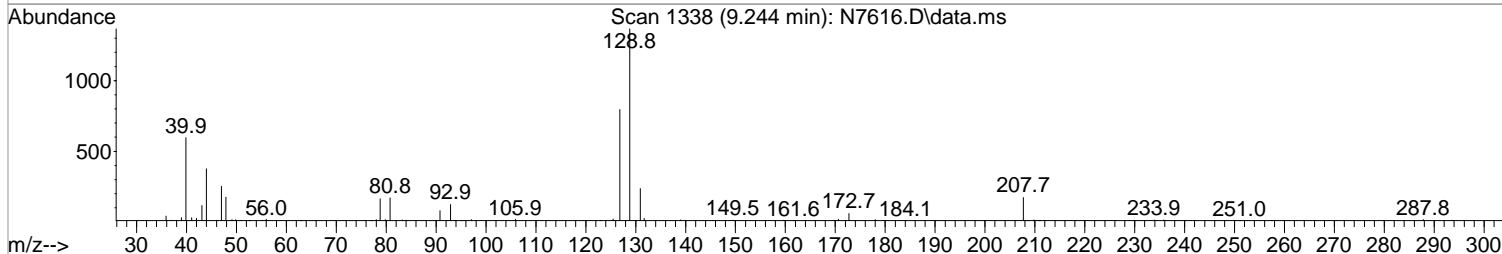
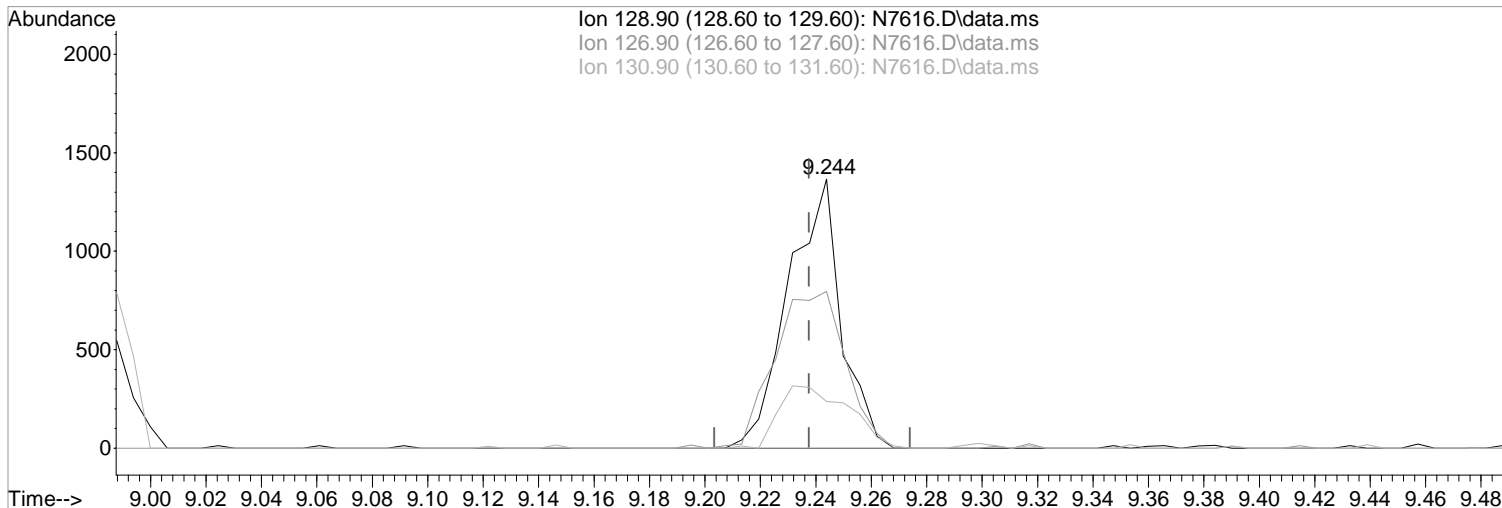
Ion	Exp%	Act%
63.00	100	100
106.00	28.70	50.00#
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(74) Dibromochloromethane (P)

9.244min (+0.006) 0.68 ug/L m

response 1800

Ion Exp% Act%

128.90	100	100
126.90	76.50	58.27
130.90	24.40	17.35
0.00	0.00	0.00

Manual Integration:

After

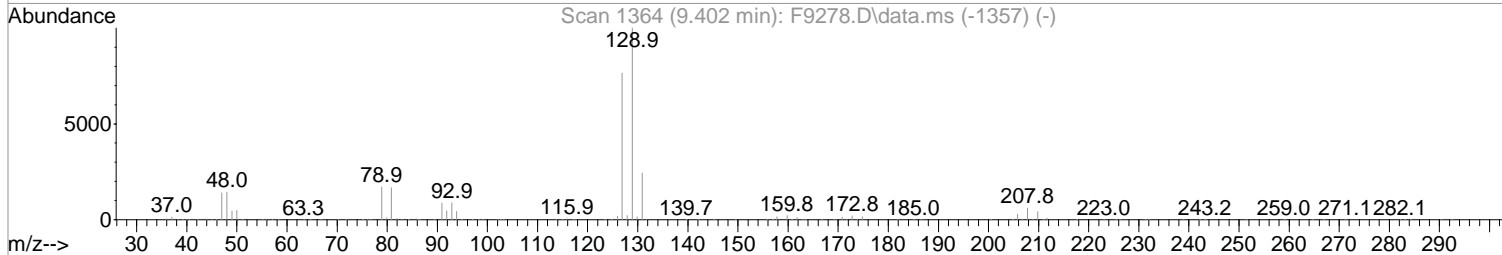
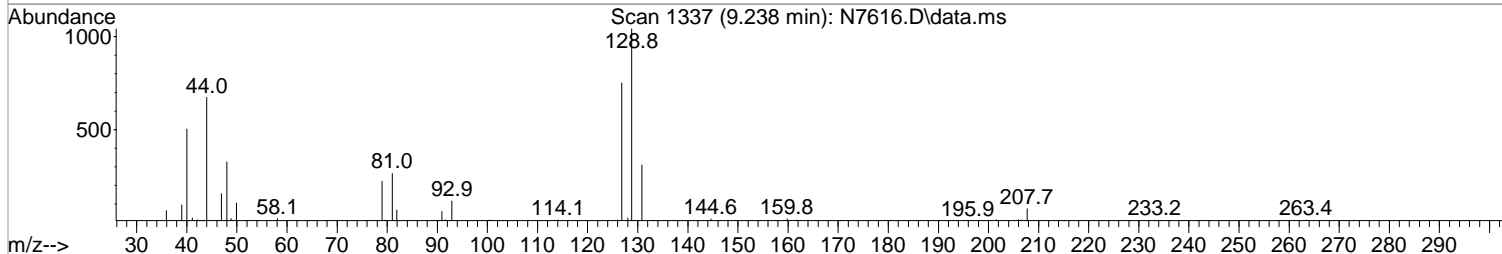
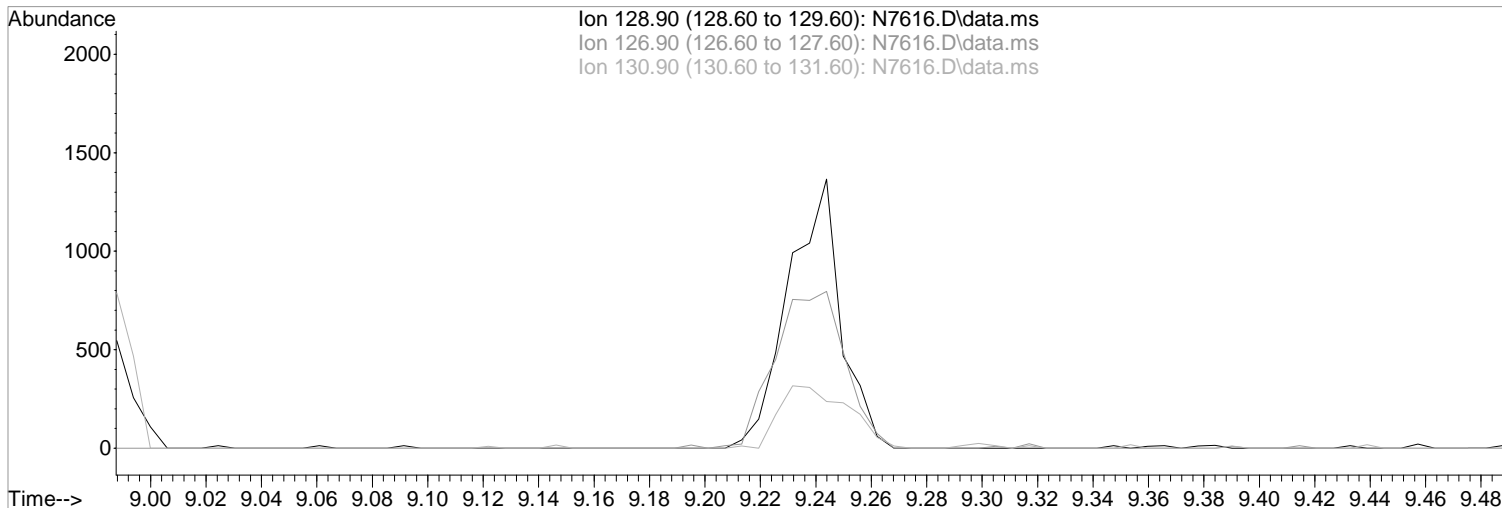
Peak not found.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7616.D  
Acq On : 23 Aug 2017 11:45 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:15 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7616.D\data.ms

(74) Dibromochloromethane (P)

Manual Integration:

9.238min (-9.238) 0.00 ug/L

Before

response 0

Ion Exp% Act%

08/24/17

128.90 100 0.00

126.90 76.50 0.00#

130.90 24.40 0.00#

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7616.D  
 Acq On : 23 Aug 2017 11:45 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 24 14:01:19 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.391	168	260408	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	388256	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	342220	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	174919	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	27313	11.08	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	22.16%#
46) surr1,1,2-dichloroetha...	5.781	65	33825	11.74	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	23.48%#
64) SURR3,Toluene-d8	8.311	98	106888	11.19	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	22.38%#
69) SURR2,BFB	10.878	95	39576	10.68	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	21.36%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.154	85	2697	1.03	ug/L	95
3) Chloromethane	1.282	50	5226	1.09	ug/L	95
4) Vinyl Chloride	1.361	62	3168	0.92	ug/L	85
5) Bromomethane	1.593	94	2540	1.20	ug/L #	77
6) Chloroethane	1.666	64	2801	1.34	ug/L	95
7) Freon 21	1.812	67	4709	0.98	ug/L	78
8) Trichlorofluoromethane	1.861	101	3474	1.01	ug/L	100
9) Diethyl Ether	2.093	59	3030	1.08	ug/L #	85
10) Freon 123a	2.099	67	2985	0.96	ug/L #	73
11) Freon 123	2.154	83	3155	0.93	ug/L	96
12) Acrolein	2.196	56	4015	4.86	ug/L	81
13) 1,1-Dicethene	2.282	96	2095	0.90	ug/L #	82
14) Freon 113	2.294	101	1988	0.87	ug/L	92
15) Acetone	2.331	43	3309	1.43	ug/L	74
16) 2-Propanol	2.465	45	5301	13.71	ug/L	67
17) Iodomethane	2.422	142	1205	0.43	ug/L	92
18) Carbon Disulfide	2.477	76	5443	0.80	ug/L	99
19) Acetonitrile	2.587	40	2308	6.06	ug/L #	51
20) Allyl Chloride	2.617	76	805	0.65	ug/L #	1
21) Methyl Acetate	2.648	43	5293	0.73	ug/L	99
22) Methylene Chloride	2.739	84	2356	0.95	ug/L #	52
23) TBA	2.861	59	6914	12.77	ug/L #	54
24) Acrylonitrile	2.995	53	9219	5.06	ug/L	95
25) Methyl-t-Butyl Ether	3.044	73	6648	0.82	ug/L	94
26) trans-1,2-Dichloroethene	3.032	96	2488	1.02	ug/L #	83
27) 1,1-Dicethane	3.525	63	4691	0.97	ug/L	99
28) Vinyl Acetate	3.629	86	398m	0.84	ug/L	
29) DIPE	3.653	45	11779	0.94	ug/L	87
30) 2-Chloro-1,3-Butadiene	3.653	53	4660	1.01	ug/L	85
31) ETBE	4.184	59	7881	0.82	ug/L	83
32) 2,2-Dichloropropane	4.373	77	1963m	0.60	ug/L	
33) cis-1,2-Dichloroethene	4.367	96	2577	0.94	ug/L	85
34) 2-Butanone	4.428	43	2429	0.89	ug/L	69
35) Propionitrile	4.501	54	3594	4.80	ug/L	97
36) Bromochloromethane	4.763	130	1743m	0.94	ug/L	
37) Methacrylonitrile	4.787	67	1338	0.89	ug/L	100
38) Tetrahydrofuran	4.873	42	1855	1.08	ug/L #	36
39) Chloroform	4.946	83	3785	0.94	ug/L	84
40) 1,1,1-Trichloroethane	5.257	97	2593m	0.73	ug/L	

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7616.D  
 Acq On : 23 Aug 2017 11:45 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 14:01:19 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	3260	0.95	ug/L	95
44) Carbontetrachloride	5.537	117	2173	0.72	ug/L	90
45) 1,1-Dichloropropene	5.549	75	2949	0.89	ug/L	84
47) Benzene	5.860	78	9189	0.90	ug/L	70
48) 1,2-Dichloroethane	5.897	62	3880	1.06	ug/L	90
49) Iso-Butyl Alcohol	5.891	43	3039	10.64	ug/L	82
50) TAME	6.110	73	5807	0.74	ug/L	85
51) n-Heptane	6.354	43	4179	0.93	ug/L	81
52) 1-Butanol	6.866	56	3737	24.03	ug/L	95
53) Trichloroethene	6.817	130	2555	0.94	ug/L	85
54) Methylcyclohexane	7.055	55	4314	1.02	ug/L #	64
55) 1,2-Diclpropane	7.098	63	3099	1.02	ug/L	95
56) Dibromomethane	7.244	93	1703	1.04	ug/L #	76
57) 1,4-Dioxane	7.305	88	770	15.72	ug/L #	37
58) Methyl Methacrylate	7.330	69	1640	0.72	ug/L #	33
59) Bromodichloromethane	7.470	83	2646	0.87	ug/L	94
60) 2-Nitropropane	7.756	41	1094m	1.05	ug/L	
61) 2-Chloroethylvinyl Ether	7.878	63	999m	1.14	ug/L	
62) cis-1,3-Dichloropropene	8.018	75	2554	0.63	ug/L	87
63) 4-Methyl-2-pentanone	8.220	43	4149	0.89	ug/L	80
65) Toluene	8.384	91	9888	0.93	ug/L	89
66) trans-1,3-Dichloropropene	8.652	75	2111	0.60	ug/L	88
67) Ethyl Methacrylate	8.793	69	2748	0.71	ug/L	91
68) 1,1,2-Trichloroethane	8.841	97	2098	0.85	ug/L #	71
71) Tetrachloroethene	8.982	164	1980	0.95	ug/L #	83
72) 2-Hexanone	9.140	43	3407	0.97	ug/L	86
73) 1,3-Dichloropropane	9.012	76	3795	0.92	ug/L #	80
74) Dibromochloromethane	9.244	129	1800m	0.68	ug/L	
75) N-Butyl Acetate	9.286	43	5088	0.73	ug/L	92
76) 1,2-Dibromoethane	9.335	107	2243	0.91	ug/L	98
77) 3-Chlorobenzotrifluoride	9.847	180	3716	0.92	ug/L	92
78) Chlorobenzene	9.829	112	6713	0.93	ug/L	87
79) 4-Chlorobenzotrifluoride	9.902	180	3457	0.93	ug/L	89
80) 1,1,1,2-Tetrachloroethane	9.914	131	1682	0.65	ug/L #	82
81) Ethylbenzene	9.951	106	3291	0.90	ug/L	99
82) (m+p)Xylene	10.061	106	8201	1.74	ug/L	96
83) o-Xylene	10.420	106	4252	0.93	ug/L	93
84) Styrene	10.433	104	6551	0.85	ug/L	88
85) Bromoform	10.585	173	1200	0.70	ug/L	87
86) 2-Chlorobenzotrifluoride	10.664	180	3549	0.90	ug/L	96
87) Isopropylbenzene	10.756	105	9803	0.85	ug/L	98
88) Cyclohexanone	10.817	55	12921	19.42	ug/L	88
89) trans-1,4-Dichloro-2-B...	11.067	53	860	0.85	ug/L	95
91) 1,1,2,2-Tetrachloroethane	11.012	83	3146	0.91	ug/L	94
92) Bromobenzene	11.000	156	2965	0.96	ug/L	94
93) 1,2,3-Trichloropropane	11.036	110	1197	1.08	ug/L #	72
94) n-Propylbenzene	11.109	91	11769	0.91	ug/L	98
95) 2-Chlorotoluene	11.170	91	7250	0.95	ug/L	95
96) 3-Chlorotoluene	11.225	91	6916	0.83	ug/L	99
97) 4-Chlorotoluene	11.268	91	8319	0.95	ug/L	91
98) 1,3,5-Trimethylbenzene	11.262	105	8250	0.90	ug/L	92
99) tert-Butylbenzene	11.536	119	7468	0.88	ug/L	91
100) 1,2,4-Trimethylbenzene	11.573	105	8357	0.86	ug/L	94
101) 3,4-Dichlorobenzotrifl...	11.634	214	2775	0.95	ug/L	93
102) sec-Butylbenzene	11.713	105	10895	0.91	ug/L	95
103) p-Isopropyltoluene	11.841	119	8770	0.85	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7616.D  
 Acq On : 23 Aug 2017 11:45 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 24 14:01:19 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	5414	0.94	ug/L	93
105) 1,4-Dclbenz	11.871	146	5423	0.91	ug/L	88
106) 2,4-Dichlorobenzotrifl...	11.926	214	2834	1.08	ug/L	91
107) 2,5-Dichlorobenzotrifl...	11.969	214	2562	0.86	ug/L	92
108) n-Butylbenzene	12.170	91	7188	0.81	ug/L	98
109) 1,2-Dclbenz	12.176	146	5360	0.92	ug/L	91
110) 1,2-Dibromo-3-chloropr...	12.798	157	427	0.51	ug/L #	79
111) Trielution Dichlorotol...	12.920	125	13378	2.55	ug/L	96
112) 1,3,5-Trichlorobenzene	12.975	180	3948	0.93	ug/L	98
113) Coelution Dichlorotoluene	13.243	125	9635	1.72	ug/L	93
114) 1,2,4-Tcbenzene	13.450	180	3464	0.88	ug/L	99
115) Hexachlorobt	13.591	225	1397	0.91	ug/L #	72
116) Naphthalen	13.645	128	9850	0.85	ug/L	93
117) 1,2,3-Tclbenzene	13.828	180	3495	0.89	ug/L	94
118) 2,4,5-Trichlorotoluene	14.420	159	1456	0.59	ug/L	85
119) 2,3,6-Trichlorotoluene	14.511	159	1002m	0.45	ug/L	

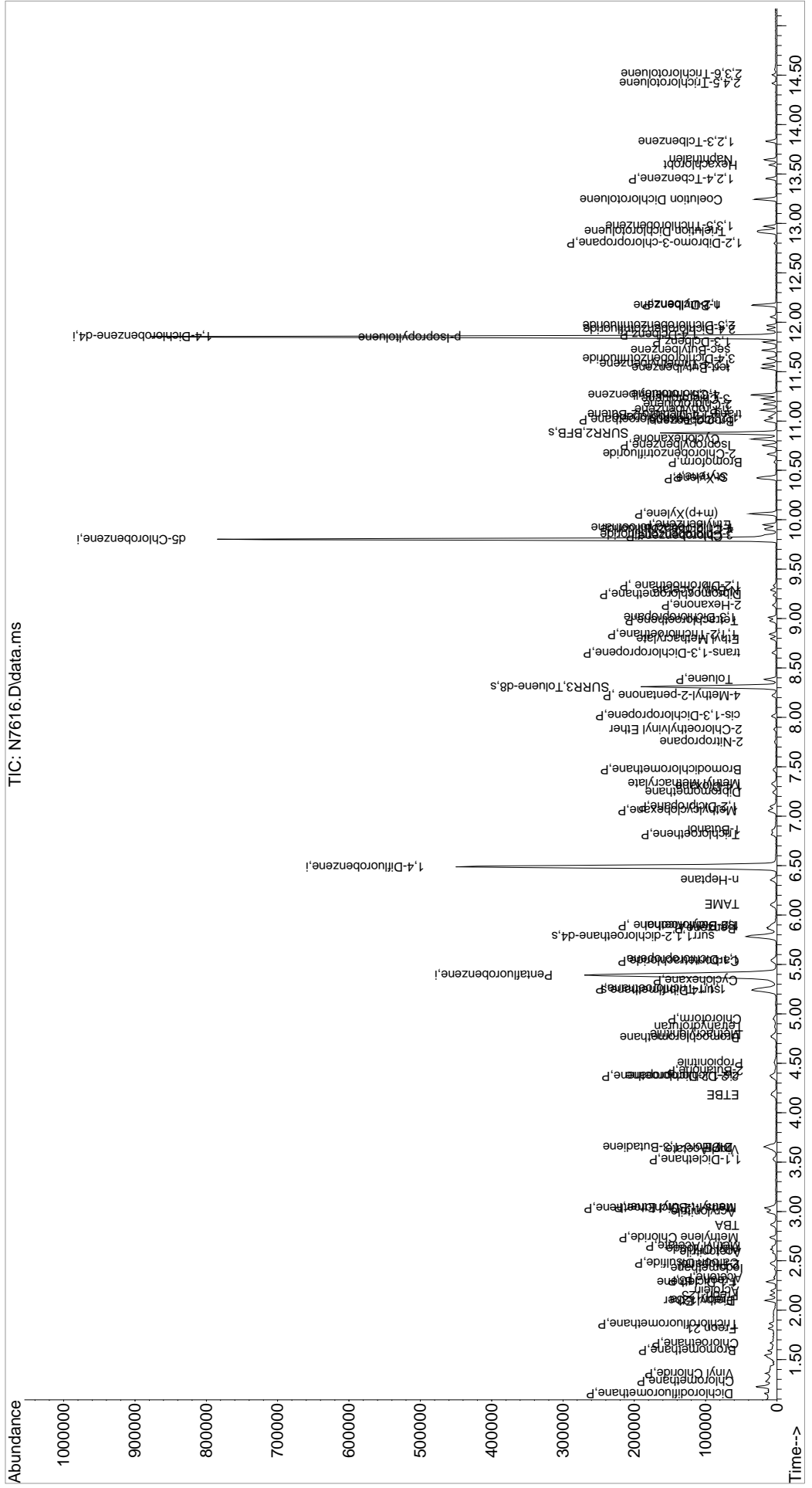
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\msvoa10\data\082317\  
 Data File : N7616.D  
 Acq On : 23 Aug 2017 11:45 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

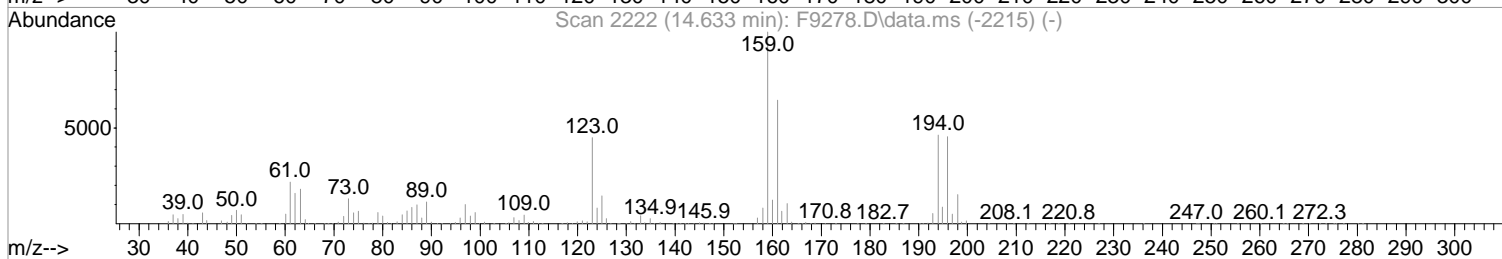
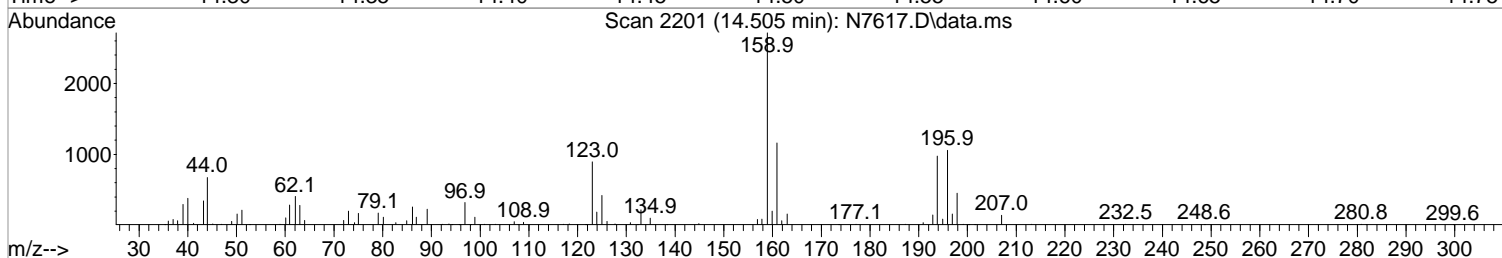
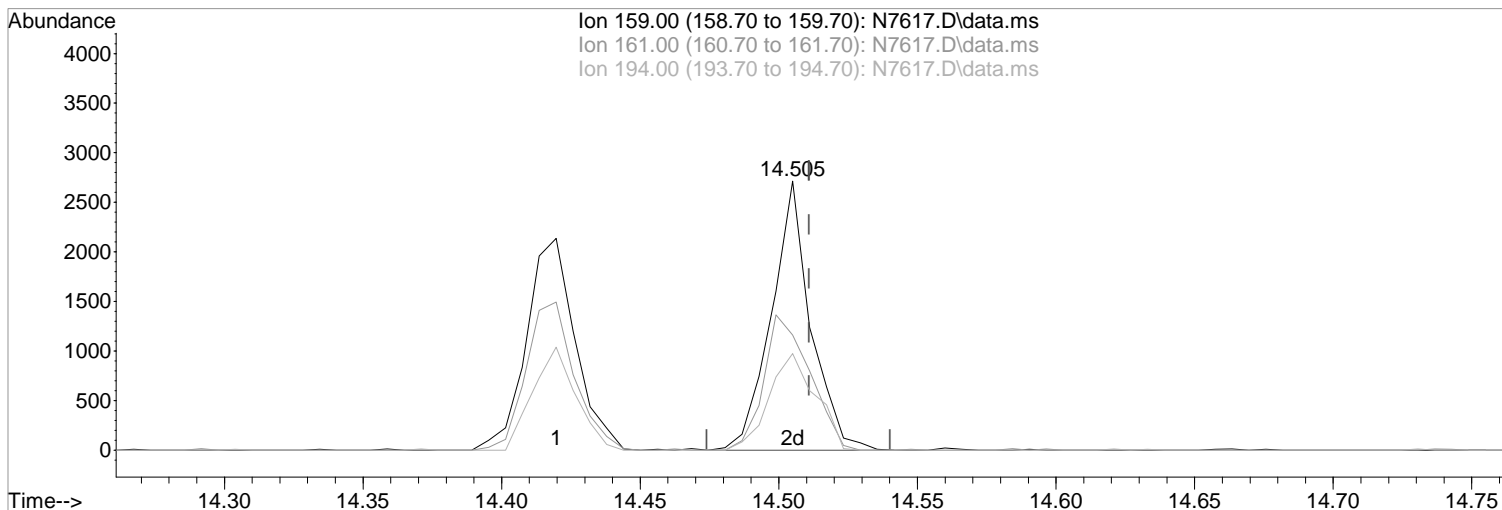
Inst : MSVOA10

Quant Time: Aug 24 14:01:19 2017  
 Quant Method : I:\ACQDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7617.D  
Acq On : 23 Aug 2017 12:07 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Aug 24 13:56:23 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(119) 2,3,6-Trichlorotoluene  
14.505min (-0.006) 1.23 ug/L m  
response 2685

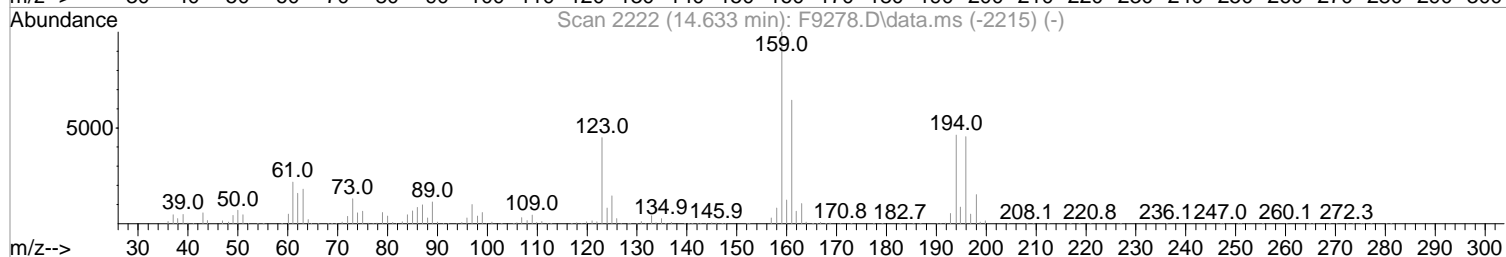
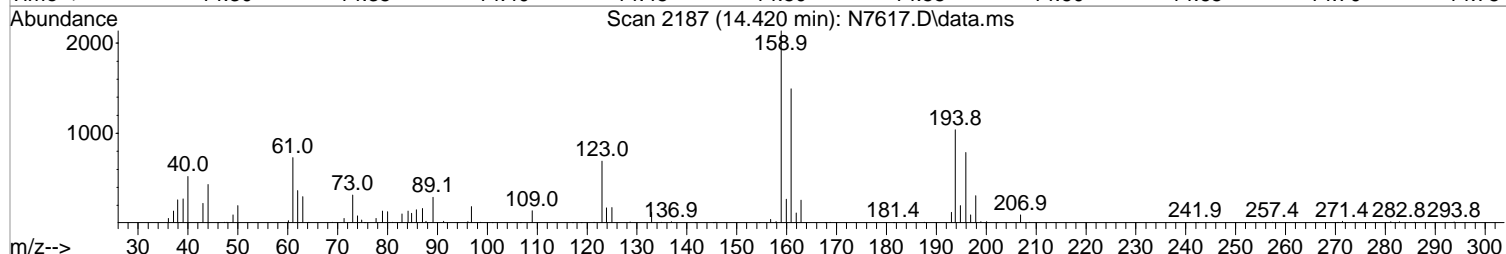
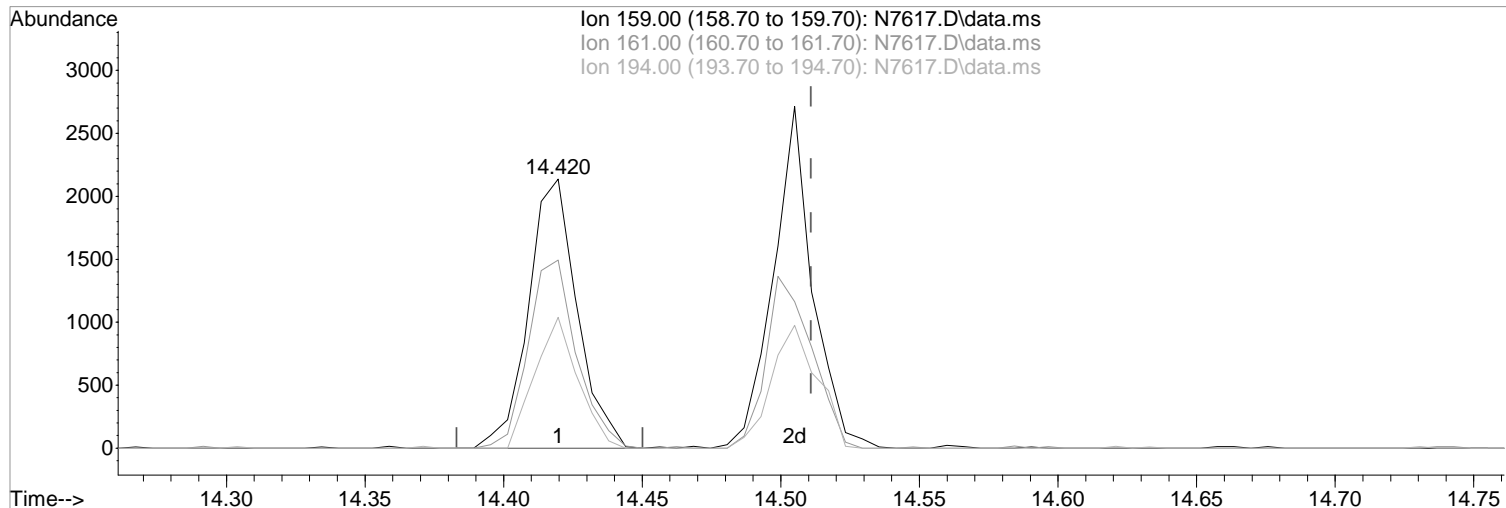
Manual Integration:  
After  
Wrong peak selected.  
08/24/17

Ion	Exp%	Act%
159.00	100	100
161.00	64.40	42.87#
194.00	46.30	35.97
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7617.D  
Acq On : 23 Aug 2017 12:07 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:23 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7617.D\data.ms

(119) 2,3,6-Trichlorotoluene  
14.420min (-0.091) 1.20 ug/L  
response 2609

Manual Integration:  
Before

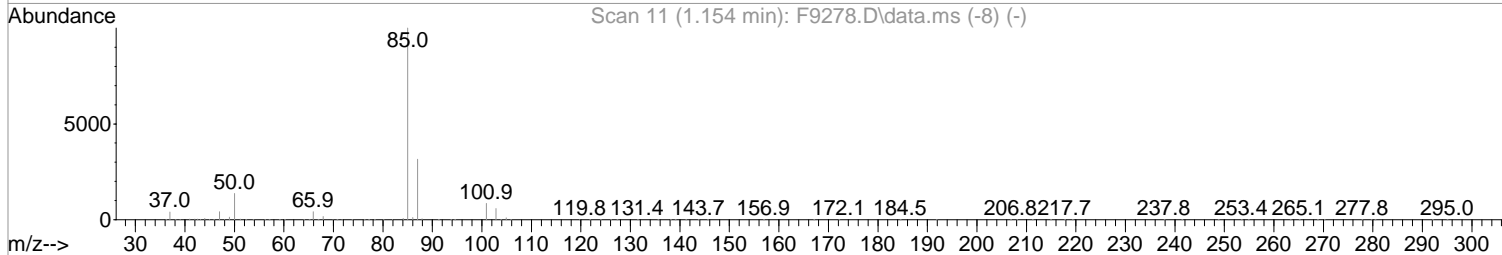
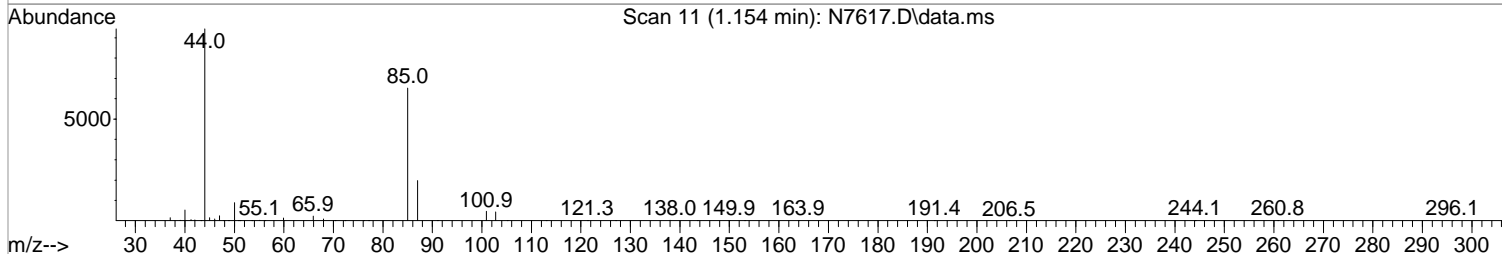
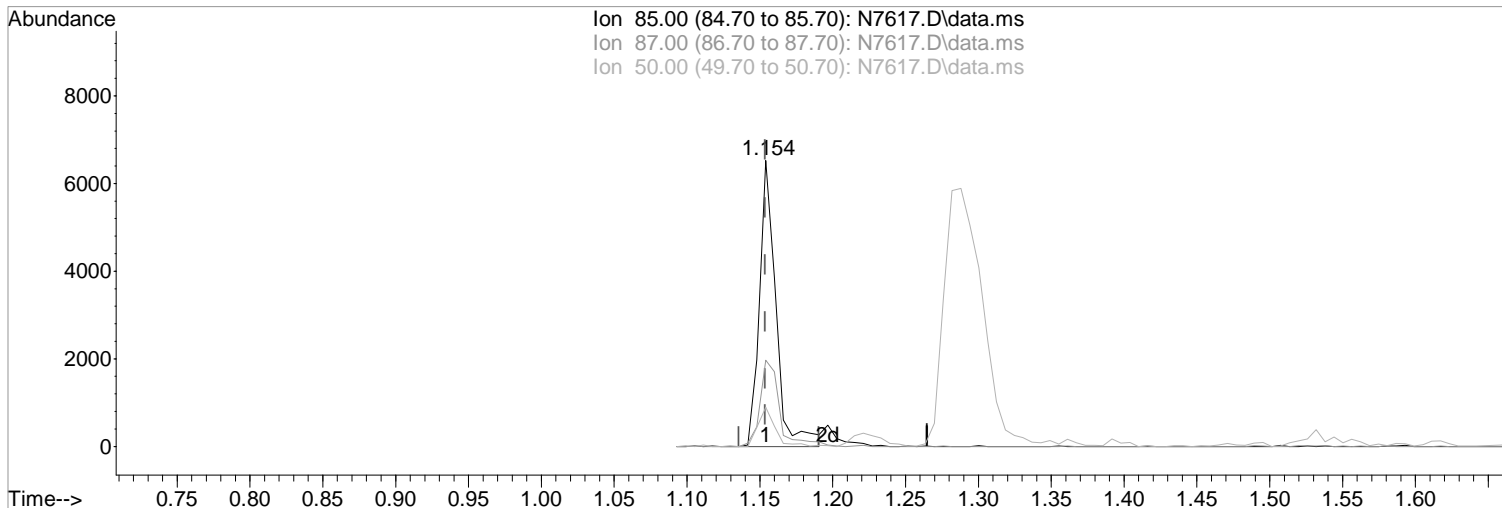
Ion	Exp%	Act%
159.00	100	100
161.00	64.40	69.94
194.00	46.30	48.69
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7617.D  
Acq On : 23 Aug 2017 12:07 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:23 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7617.D\data.ms

(2) Dichlorodifluoromethane (P)

1.154min (+0.000) 1.98 ug/L m  
response 5183

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	30.19
50.00	13.60	13.68
0.00	0.00	0.00

Manual Integration:

After

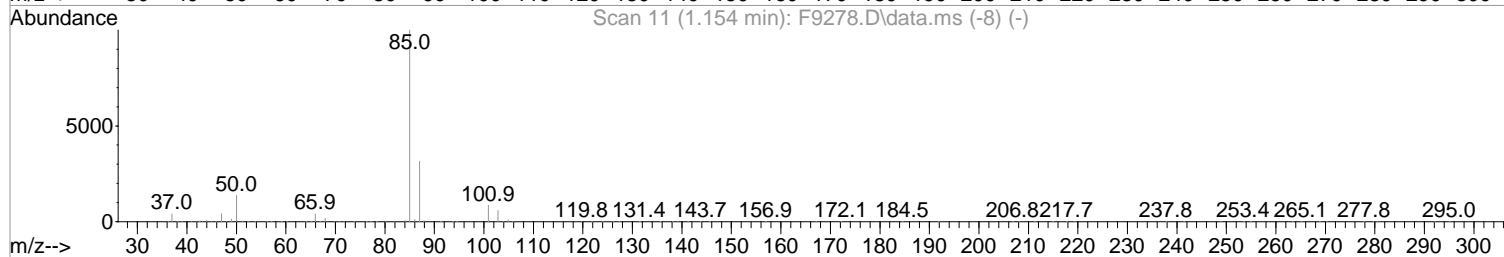
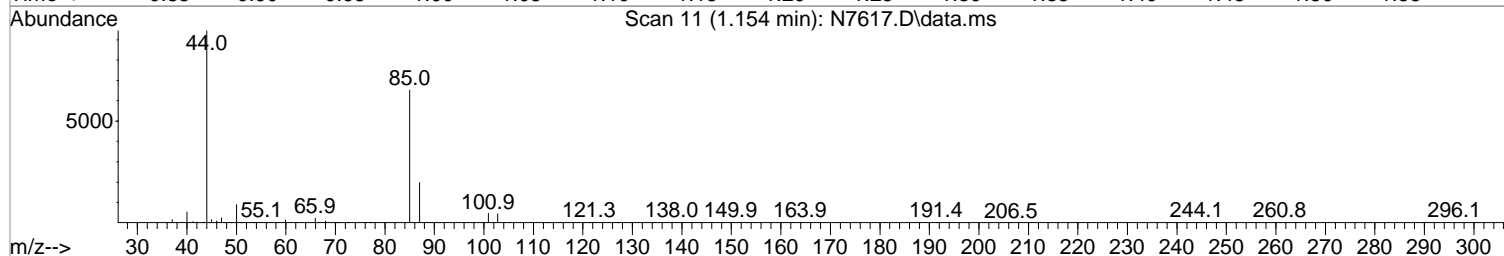
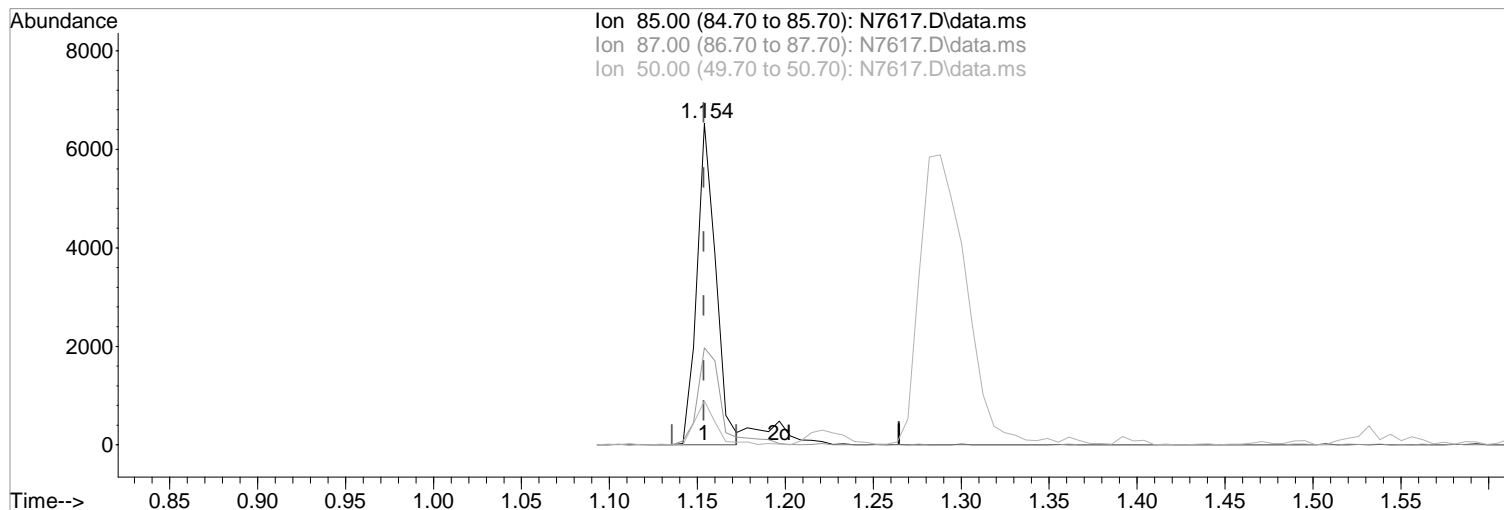
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7617.D  
Acq On : 23 Aug 2017 12:07 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:23 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7617.D\data.ms

(2) Dichlorodifluoromethane (P)

Manual Integration:

1.154min (+0.000) 1.85 ug/L

Before

response 4846

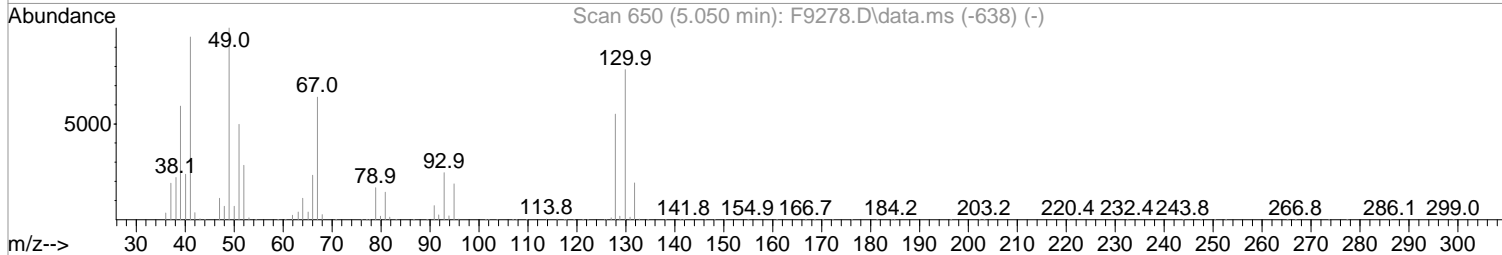
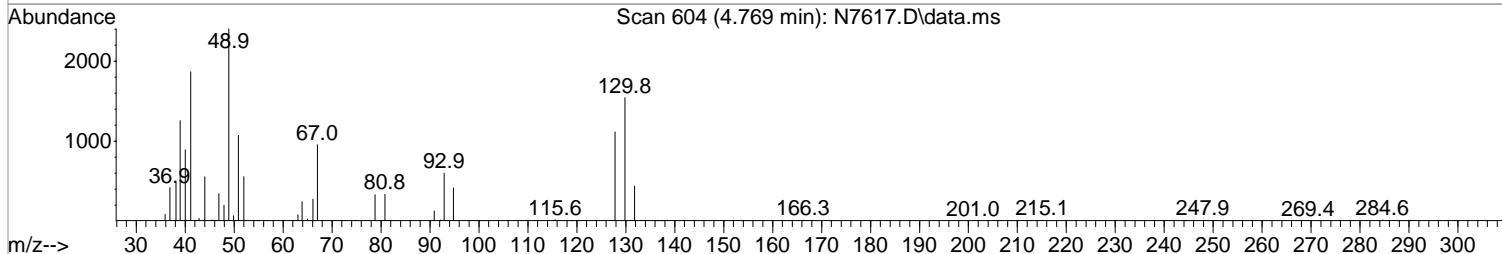
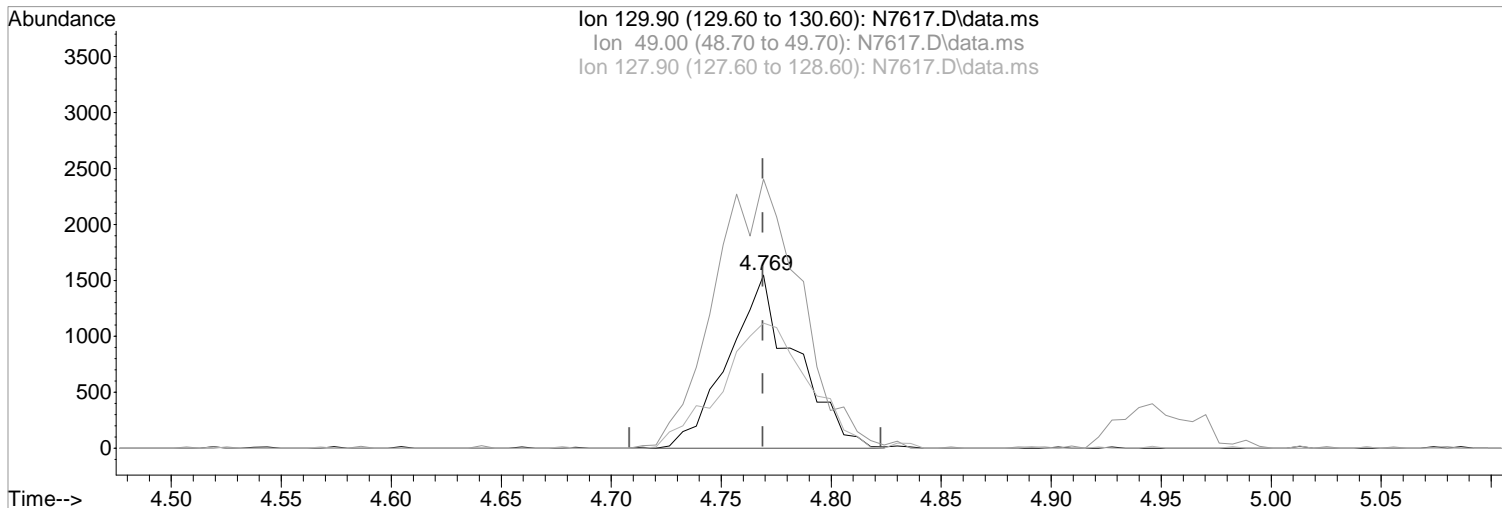
Ion	Exp%	Act%
85.00	100	100
87.00	31.50	30.19
50.00	13.60	13.68
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7617.D  
Acq On : 23 Aug 2017 12:07 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:23 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7617.D\data.ms

(36) Bromochloromethane  
4.769min (+0.000) 1.78 ug/L m  
response 3311

Manual Integration:

After

Poor integration.

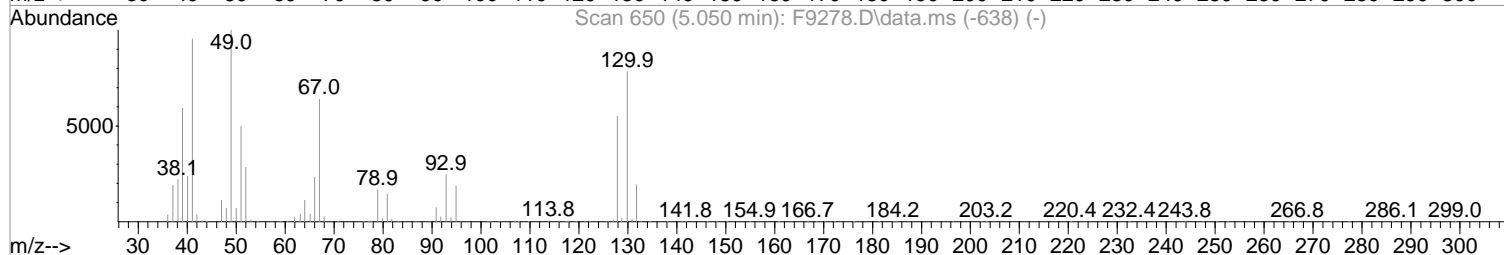
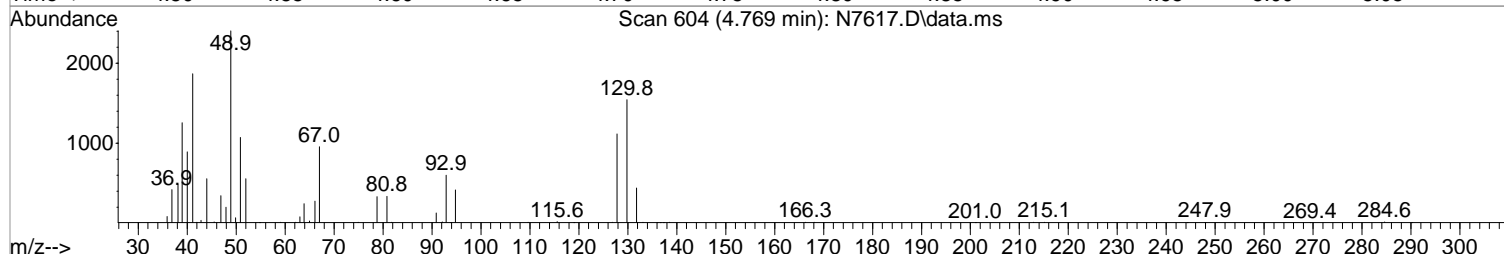
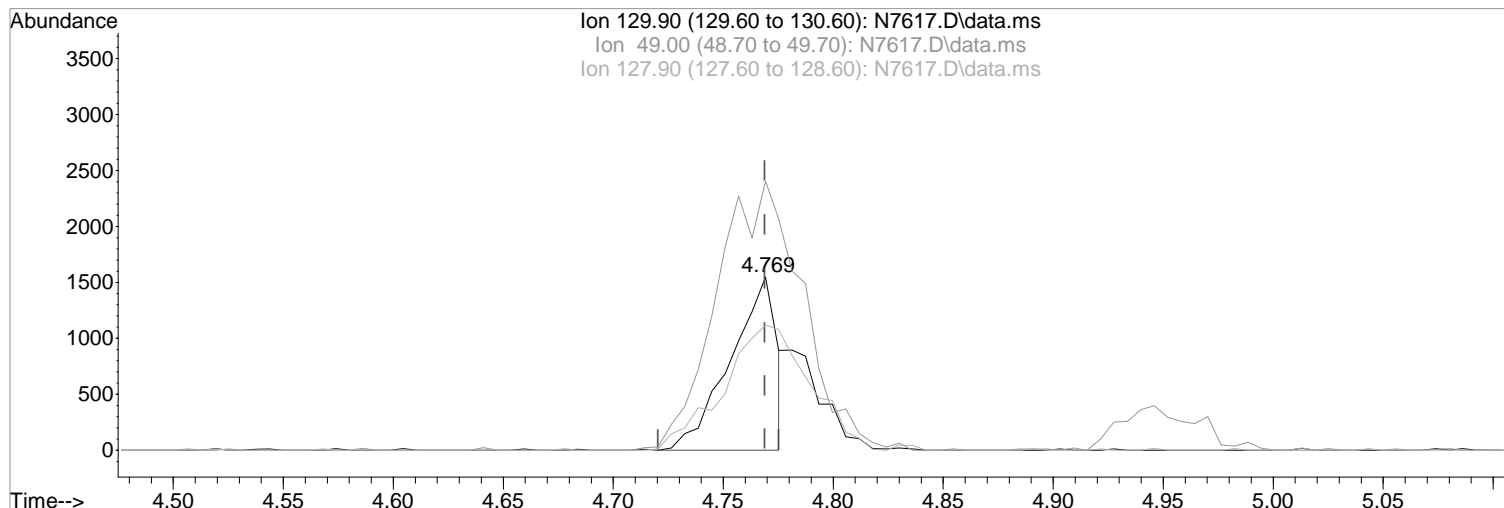
08/24/17

Ion	Exp%	Act%
129.90	100	100
49.00	127.60	155.50#
127.90	70.30	72.32
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7617.D  
Acq On : 23 Aug 2017 12:07 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:23 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7617.D\data.ms

(36) Bromochloromethane

Manual Integration:

4.769min (+0.000) 1.22 ug/L

Before

response 2280

Ion Exp% Act%

08/24/17

129.90 100 100

49.00 127.60 155.50#

127.90 70.30 72.32

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7617.D  
 Acq On : 23 Aug 2017 12:07 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 14:05:44 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.391	168	260994	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	389442	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	338208	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	171177	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.239	113	25101	10.16	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	20.32%#
46) surr1,1,2-dichloroetha...	5.781	65	32153	11.13	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	22.26%#
64) SURR3,Toluene-d8	8.311	98	103962	10.85	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	21.70%#
69) SURR2,BFB	10.878	95	39091	10.52	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	21.04%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.154	85	5183m	1.98	ug/L	
3) Chloromethane	1.288	50	10629	2.21	ug/L	90
4) Vinyl Chloride	1.361	62	6732	1.94	ug/L	90
5) Bromomethane	1.587	94	4970	2.35	ug/L	99
6) Chloroethane	1.666	64	4037	1.93	ug/L	89
7) Freon 21	1.818	67	9658	2.01	ug/L	96
8) Trichlorofluoromethane	1.867	101	6894	2.00	ug/L	99
9) Diethyl Ether	2.093	59	6070	2.16	ug/L #	83
10) Freon 123a	2.099	67	5748	1.84	ug/L	95
11) Freon 123	2.154	83	5767	1.69	ug/L	94
12) Acrolein	2.196	56	9154	11.05	ug/L	84
13) 1,1-Dicethene	2.288	96	4227	1.80	ug/L	92
14) Freon 113	2.288	101	3890	1.69	ug/L	99
15) Acetone	2.331	43	4998	2.16	ug/L	99
16) 2-Propanol	2.465	45	11587	29.90	ug/L	85
17) Iodomethane	2.416	142	3703	1.32	ug/L	95
18) Carbon Disulfide	2.483	76	11574	1.71	ug/L	97
19) Acetonitrile	2.581	40	4431	11.61	ug/L	91
20) Allyl Chloride	2.617	76	1808	1.46	ug/L #	1
21) Methyl Acetate	2.641	43	11332	1.56	ug/L	88
22) Methylene Chloride	2.733	84	4977	2.01	ug/L #	58
23) TBA	2.861	59	16839	31.02	ug/L	86
24) Acrylonitrile	2.995	53	19550	10.70	ug/L	97
25) Methyl-t-Butyl Ether	3.038	73	14196	1.75	ug/L	78
26) trans-1,2-Dichloroethene	3.032	96	4414	1.81	ug/L #	63
27) 1,1-Dicethane	3.525	63	9638	1.99	ug/L	97
28) Vinyl Acetate	3.623	86	874	1.83	ug/L #	1
29) DIPE	3.660	45	24522	1.95	ug/L	90
30) 2-Chloro-1,3-Butadiene	3.653	53	8702	1.88	ug/L	79
31) ETBE	4.184	59	16184	1.67	ug/L	85
32) 2,2-Dichloropropane	4.361	77	4016	1.22	ug/L	89
33) cis-1,2-Dichloroethene	4.373	96	5411	1.97	ug/L #	80
34) 2-Butanone	4.434	43	5517	2.01	ug/L	90
35) Propionitrile	4.507	54	8224	10.95	ug/L	95
36) Bromochloromethane	4.769	130	3311m	1.78	ug/L	
37) Methacrylonitrile	4.787	67	3036	2.02	ug/L #	76
38) Tetrahydrofuran	4.861	42	3730	2.17	ug/L #	56
39) Chloroform	4.946	83	7342	1.81	ug/L	96
40) 1,1,1-Trichloroethane	5.251	97	5217	1.47	ug/L	91



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7617.D  
 Acq On : 23 Aug 2017 12:07 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 14:05:44 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.342	41	6156	1.79	ug/L	81
44) Carbontetrachloride	5.537	117	3970	1.31	ug/L	88
45) 1,1-Dichloropropene	5.543	75	6147	1.85	ug/L	94
47) Benzene	5.860	78	19028	1.86	ug/L	86
48) 1,2-Dichloroethane	5.909	62	8044	2.19	ug/L	92
49) Iso-Butyl Alcohol	5.885	43	7588	26.48	ug/L	80
50) TAME	6.098	73	11767	1.50	ug/L	86
51) n-Heptane	6.354	43	8295	1.83	ug/L	85
52) 1-Butanol	6.854	56	8969	57.51	ug/L	95
53) Trichloroethene	6.817	130	5317	1.94	ug/L #	79
54) Methylcyclohexane	7.055	55	7971	1.87	ug/L #	64
55) 1,2-Diclpropane	7.098	63	6137	2.02	ug/L	99
56) Dibromomethane	7.238	93	3143	1.91	ug/L #	80
57) 1,4-Dioxane	7.299	88	2098	42.70	ug/L #	73
58) Methyl Methacrylate	7.330	69	3501	1.54	ug/L #	60
59) Bromodichloromethane	7.470	83	5007	1.65	ug/L	98
60) 2-Nitropropane	7.756	41	2418	2.31	ug/L #	59
61) 2-Chloroethylvinyl Ether	7.878	63	2153	2.45	ug/L	86
62) cis-1,3-Dichloropropene	8.012	75	5987	1.48	ug/L	93
63) 4-Methyl-2-pentanone	8.220	43	8645	1.84	ug/L	96
65) Toluene	8.384	91	20658	1.93	ug/L	88
66) trans-1,3-Dichloropropene	8.652	75	4514	1.28	ug/L	93
67) Ethyl Methacrylate	8.799	69	5934	1.53	ug/L	81
68) 1,1,2-Trichloroethane	8.848	97	4761	1.92	ug/L	79
71) Tetrachloroethene	8.976	164	4148	2.02	ug/L #	89
72) 2-Hexanone	9.128	43	7414	2.13	ug/L	79
73) 1,3-Dichloropropane	9.012	76	8385	2.06	ug/L #	64
74) Dibromochloromethane	9.238	129	3880	1.48	ug/L	89
75) N-Butyl Acetate	9.287	43	11089	1.60	ug/L	93
76) 1,2-Dibromoethane	9.335	107	4359	1.79	ug/L	92
77) 3-Chlorobenzotrifluoride	9.853	180	7629	1.91	ug/L	93
78) Chlorobenzene	9.829	112	14308	2.00	ug/L	94
79) 4-Chlorobenzotrifluoride	9.902	180	6793	1.86	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.914	131	3460	1.36	ug/L	90
81) Ethylbenzene	9.945	106	7206	2.00	ug/L	93
82) (m+p)Xylene	10.061	106	16204	3.48	ug/L	88
83) o-Xylene	10.420	106	8885	1.97	ug/L #	83
84) Styrene	10.433	104	13955	1.83	ug/L	94
85) Bromoform	10.585	173	2190	1.29	ug/L	100
86) 2-Chlorobenzotrifluoride	10.664	180	6622	1.69	ug/L #	73
87) Isopropylbenzene	10.756	105	20479	1.79	ug/L	98
88) Cyclohexanone	10.817	55	28325	43.09	ug/L	100
89) trans-1,4-Dichloro-2-B...	11.061	53	1872	1.88	ug/L #	53
91) 1,1,2,2-Tetrachloroethane	11.012	83	6610	1.96	ug/L	99
92) Bromobenzene	11.000	156	5474	1.81	ug/L	96
93) 1,2,3-Trichloropropane	11.042	110	2172	2.01	ug/L #	73
94) n-Propylbenzene	11.109	91	23121	1.82	ug/L	94
95) 2-Chlorotoluene	11.170	91	14651	1.96	ug/L	98
96) 3-Chlorotoluene	11.225	91	15154	1.85	ug/L	88
97) 4-Chlorotoluene	11.268	91	17333	2.02	ug/L	96
98) 1,3,5-Trimethylbenzene	11.262	105	16306	1.81	ug/L	99
99) tert-Butylbenzene	11.536	119	15386	1.85	ug/L	100
100) 1,2,4-Trimethylbenzene	11.573	105	18020	1.90	ug/L	91
101) 3,4-Dichlorobenzotrifl...	11.634	214	5413	1.88	ug/L	96
102) sec-Butylbenzene	11.719	105	21665	1.85	ug/L	97
103) p-Isopropyltoluene	11.841	119	17835	1.76	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7617.D  
 Acq On : 23 Aug 2017 12:07 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 14:05:44 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	11422	2.02	ug/L	95
105) 1,4-Dclbenz	11.871	146	10686	1.84	ug/L	86
106) 2,4-Dichlorobenzotrifl...	11.920	214	4782	1.86	ug/L	88
107) 2,5-Dichlorobenzotrifl...	11.969	214	5489	1.88	ug/L	97
108) n-Butylbenzene	12.170	91	15809	1.83	ug/L	94
109) 1,2-Dclbenz	12.176	146	11400	2.00	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.798	157	993	1.22	ug/L	92
111) Trielution Dichlorotol...	12.920	125	26094	5.08	ug/L	96
112) 1,3,5-Trichlorobenzene	12.975	180	7883	1.89	ug/L	98
113) Coelution Dichlorotoluene	13.243	125	20557	3.75	ug/L	97
114) 1,2,4-Tcbenzene	13.450	180	7392	1.91	ug/L	97
115) Hexachlorobt	13.597	225	3018	2.01	ug/L	96
116) Naphthalen	13.645	128	20708	1.83	ug/L	96
117) 1,2,3-Tclbenzene	13.834	180	7395	1.93	ug/L	97
118) 2,4,5-Trichlorotoluene	14.420	159	2609	1.08	ug/L	89
119) 2,3,6-Trichlorotoluene	14.505	159	2685m	1.23	ug/L	

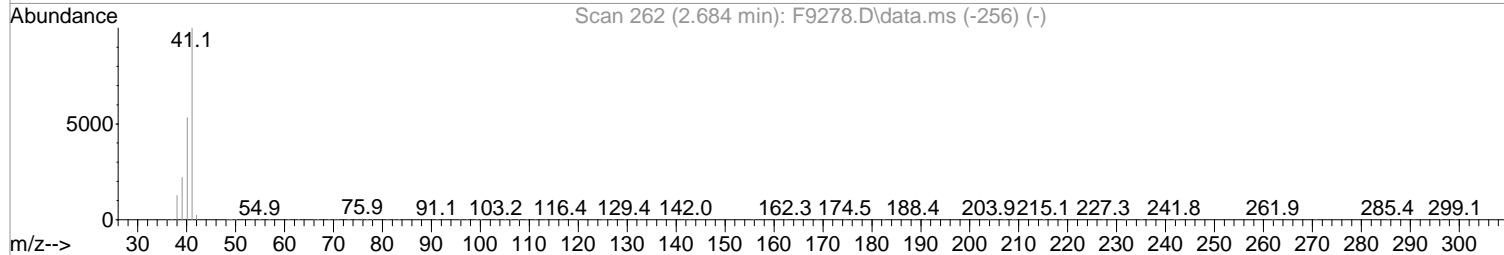
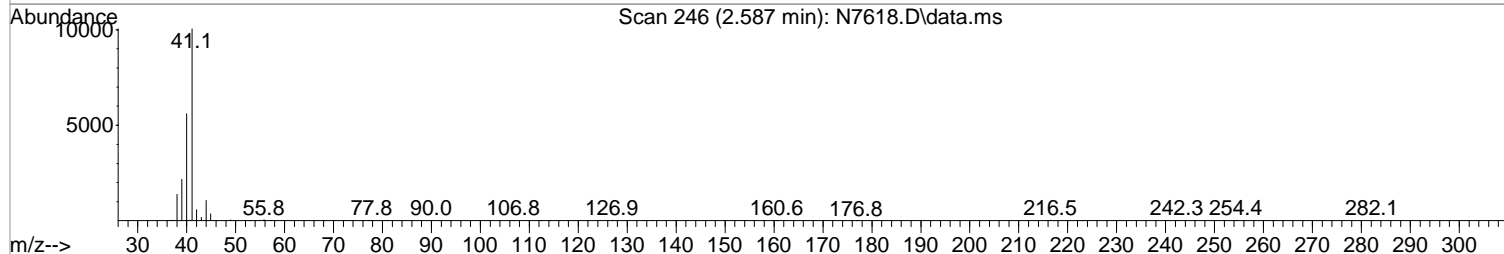
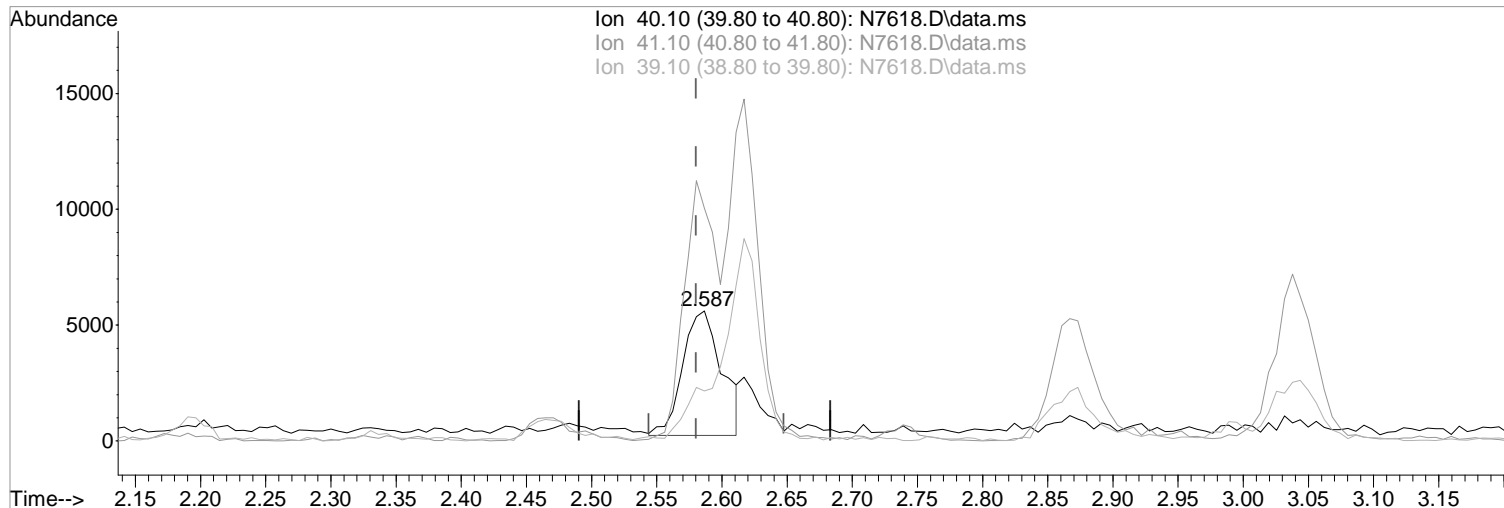
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7618.D  
Acq On : 23 Aug 2017 12:29 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:33 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(19) Acetonitrile  
2.587min (+0.006) 28.37 ug/L m  
response 11274

Manual Integration:

After

Poor integration.

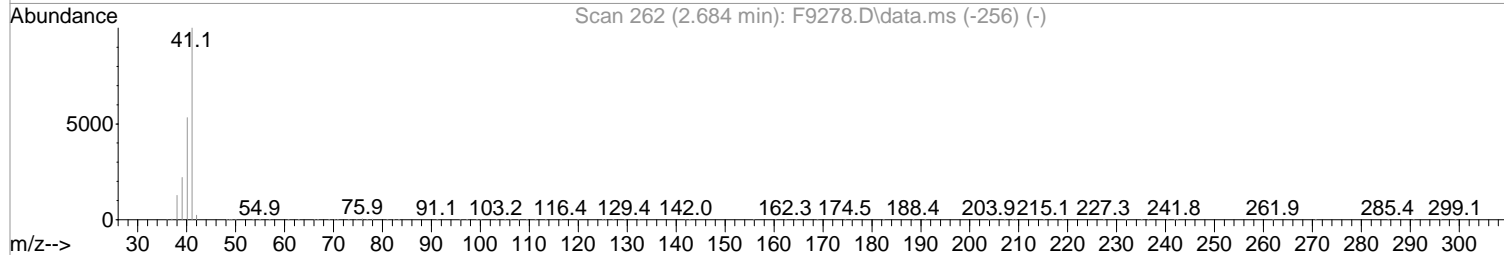
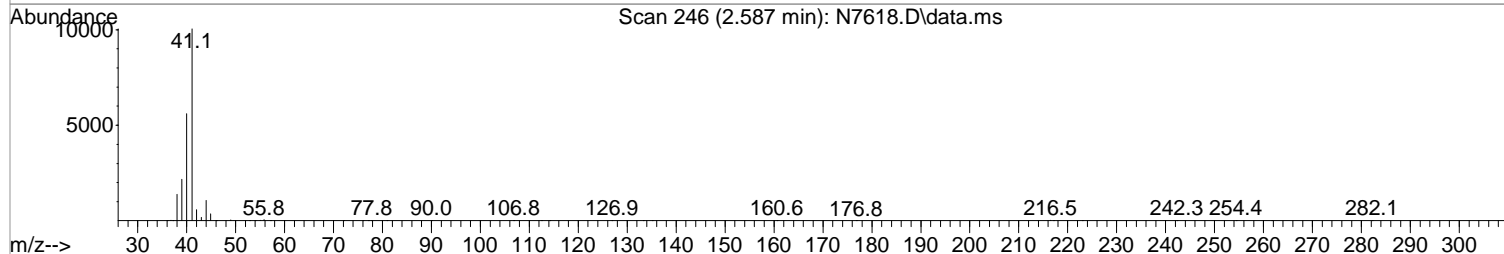
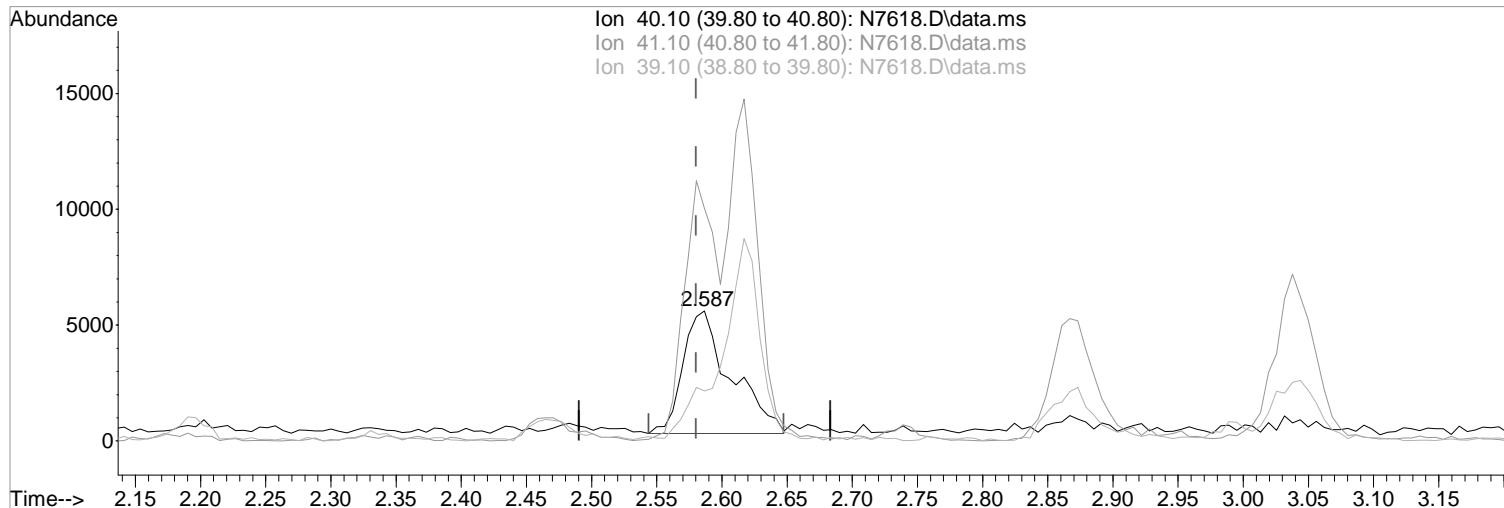
08/24/17

Ion	Exp%	Act%
40.10	100	100
41.10	187.50	178.94
39.10	41.20	38.55
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7618.D  
Acq On : 23 Aug 2017 12:29 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:33 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7618.D\data.ms

(19) Acetonitrile  
2.587min (+0.006) 34.07 ug/L  
response 13537

Manual Integration:

Before

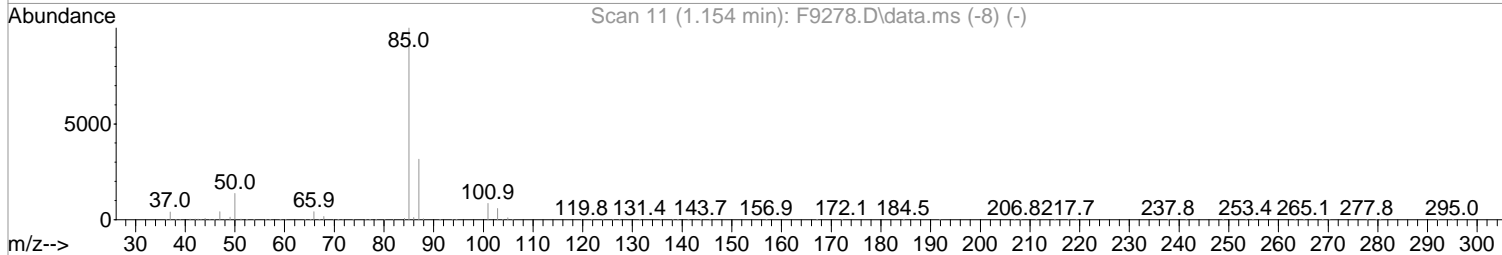
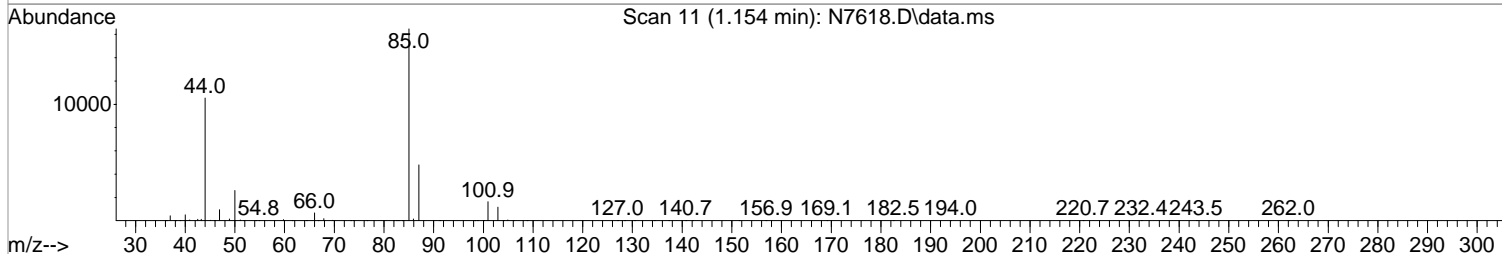
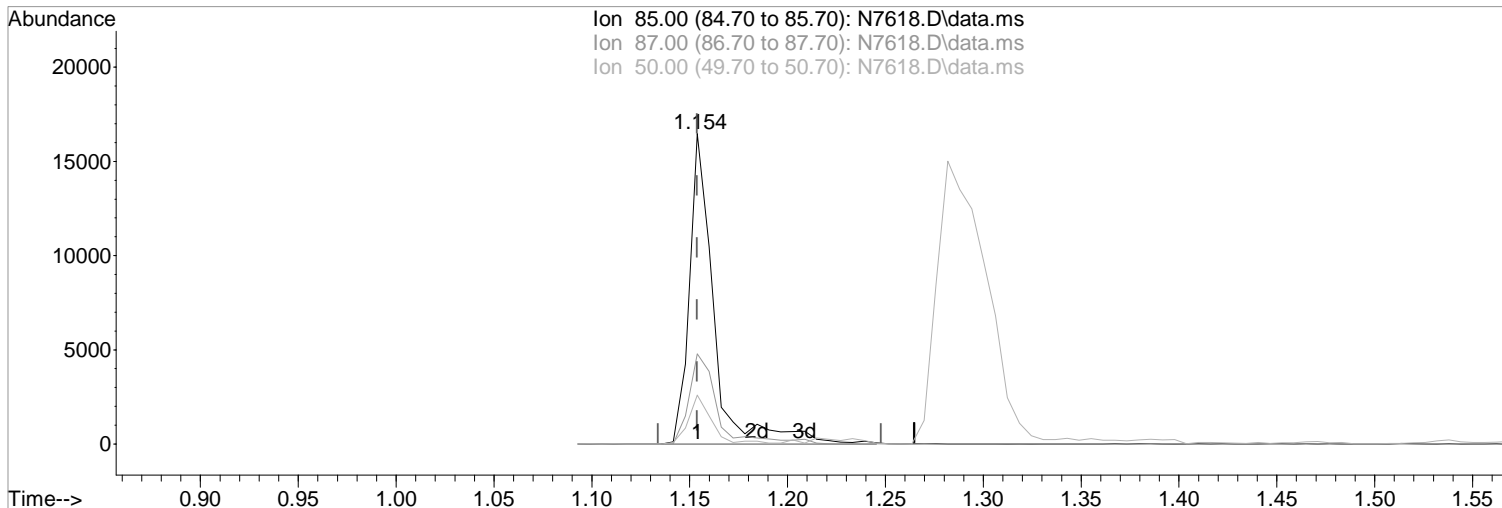
Ion	Exp%	Act%
40.10	100	100
41.10	187.50	178.94
39.10	41.20	38.55
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7618.D  
Acq On : 23 Aug 2017 12:29 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:33 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

1.154min (+0.000) 5.33 ug/L m  
response 14500

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	29.03
50.00	13.60	15.75
0.00	0.00	0.00

Manual Integration:

After

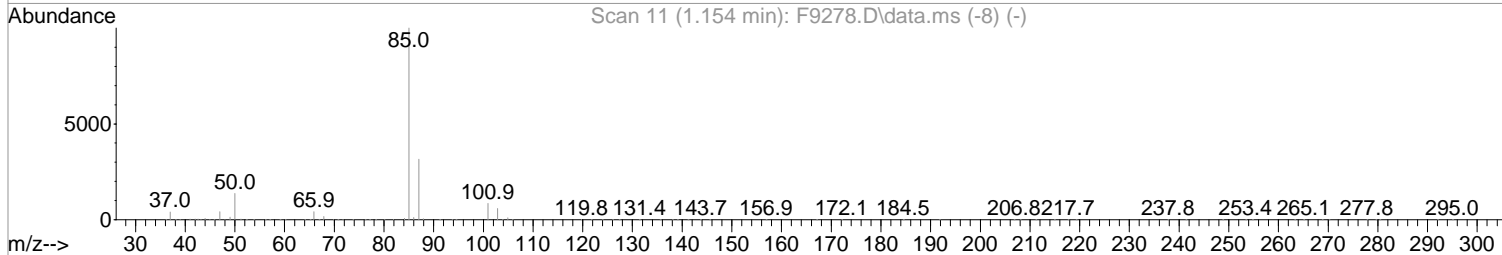
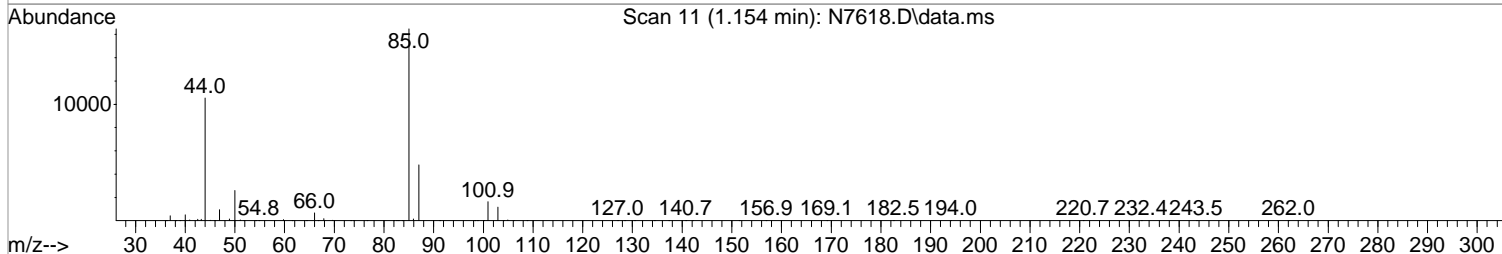
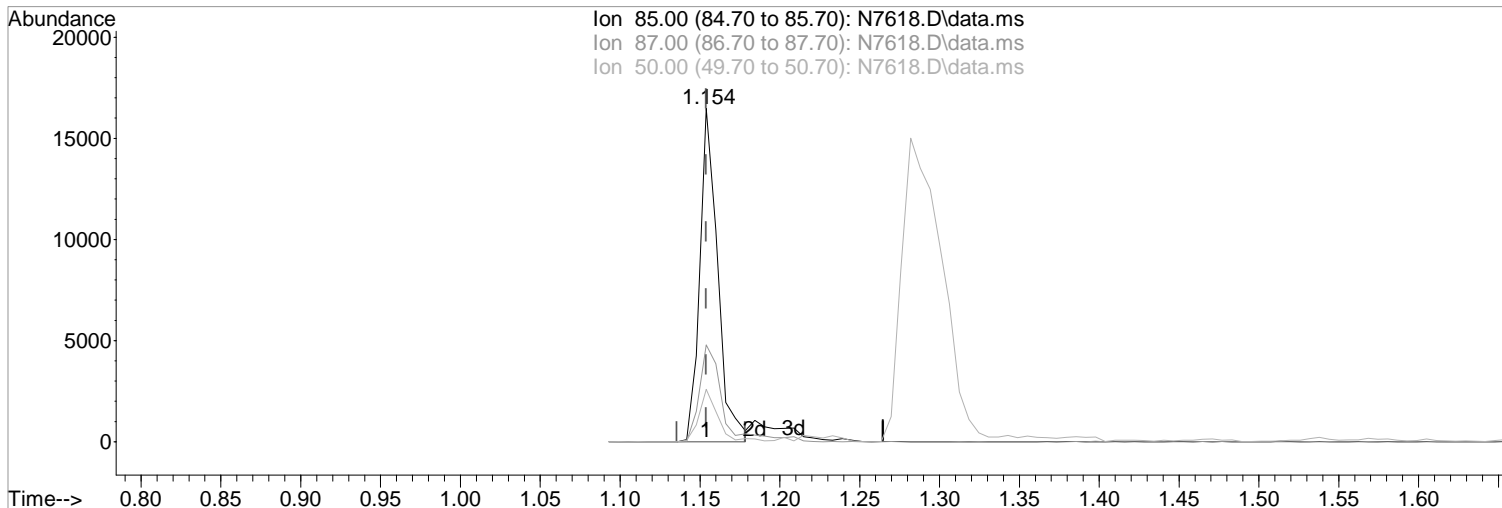
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7618.D  
Acq On : 23 Aug 2017 12:29 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:33 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

1.154min (+0.000) 4.70 ug/L

response 12794

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	29.03
50.00	13.60	15.75
0.00	0.00	0.00

Manual Integration:

Before

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7618.D  
 Acq On : 23 Aug 2017 12:29 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 14:08:20 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.391	168	271642	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	399326	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	351952	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	180719	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.245	113	28112	11.09	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	22.18%#
46) surr1,1,2-dichloroetha...	5.781	65	33715	11.38	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	22.76%#
64) SURR3,Toluene-d8	8.311	98	107138	10.90	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	21.80%#
69) SURR2,BFB	10.878	95	43125	11.31	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	22.62%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.154	85	14500m	5.33	ug/L	
3) Chloromethane	1.282	50	26242	5.23	ug/L	96
4) Vinyl Chloride	1.361	62	18764	5.20	ug/L	94
5) Bromomethane	1.587	94	11028	5.01	ug/L	95
6) Chloroethane	1.666	64	11705	5.38	ug/L	92
7) Freon 21	1.812	67	26314	5.25	ug/L	97
8) Trichlorofluoromethane	1.861	101	18192	5.07	ug/L	94
9) Diethyl Ether	2.093	59	14443	4.94	ug/L #	77
10) Freon 123a	2.099	67	16268	5.00	ug/L	95
11) Freon 123	2.154	83	16714	4.72	ug/L	93
12) Acrolein	2.196	56	22874	26.53	ug/L	97
13) 1,1-Dicethene	2.288	96	11007	4.51	ug/L #	87
14) Freon 113	2.288	101	11324	4.74	ug/L	95
15) Acetone	2.330	43	10702	4.45	ug/L	87
16) 2-Propanol	2.465	45	30284	75.08	ug/L	98
17) Iodomethane	2.416	142	13065	4.46	ug/L	96
18) Carbon Disulfide	2.477	76	31498	4.47	ug/L	97
19) Acetonitrile	2.587	40	11274m	28.37	ug/L	
20) Allyl Chloride	2.623	76	4808	3.73	ug/L #	1
21) Methyl Acetate	2.641	43	27737	3.67	ug/L	90
22) Methylene Chloride	2.739	84	12138	4.70	ug/L #	69
23) TBA	2.867	59	37202	65.85	ug/L	80
24) Acrylonitrile	2.995	53	49257	25.91	ug/L	97
25) Methyl-t-Butyl Ether	3.044	73	35845	4.24	ug/L	91
26) trans-1,2-Dichloroethene	3.032	96	12377	4.87	ug/L #	79
27) 1,1-Dicethane	3.531	63	25832	5.13	ug/L	96
28) Vinyl Acetate	3.617	86	2404	4.85	ug/L #	78
29) DIPE	3.653	45	65154	4.98	ug/L	89
30) 2-Chloro-1,3-Butadiene	3.653	53	25164	5.23	ug/L	93
31) ETBE	4.184	59	40101	3.98	ug/L	94
32) 2,2-Dichloropropane	4.367	77	11403	3.33	ug/L	98
33) cis-1,2-Dichloroethene	4.373	96	14097	4.94	ug/L #	67
34) 2-Butanone	4.428	43	13157	4.61	ug/L	78
35) Propionitrile	4.507	54	18271	23.37	ug/L	77
36) Bromochloromethane	4.769	130	9305	4.80	ug/L #	80
37) Methacrylonitrile	4.775	67	7070	4.51	ug/L #	48
38) Tetrahydrofuran	4.867	42	7985	4.46	ug/L	72
39) Chloroform	4.946	83	20262	4.81	ug/L	96
40) 1,1,1-Trichloroethane	5.257	97	15255	4.13	ug/L	93



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7618.D  
 Acq On : 23 Aug 2017 12:29 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 14:08:20 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	18860	5.34	ug/L	92
44) Carbontetrachloride	5.537	117	10810	3.47	ug/L	88
45) 1,1-Dichloropropene	5.543	75	16911	4.97	ug/L	95
47) Benzene	5.866	78	49862	4.76	ug/L	76
48) 1,2-Dichloroethane	5.903	62	20270	5.38	ug/L	93
49) Iso-Butyl Alcohol	5.891	43	18779	63.91	ug/L	98
50) TAME	6.110	73	29375	3.64	ug/L	87
51) n-Heptane	6.360	43	22595	4.87	ug/L	84
52) 1-Butanol	6.860	56	21078	131.80	ug/L	84
53) Trichloroethene	6.817	130	14277	5.09	ug/L	91
54) Methylcyclohexane	7.055	55	22351	5.12	ug/L #	75
55) 1,2-Diclpropane	7.098	63	15828	5.07	ug/L	94
56) Dibromomethane	7.244	93	8398	4.98	ug/L	87
57) 1,4-Dioxane	7.305	88	4499	89.31	ug/L	75
58) Methyl Methacrylate	7.330	69	10032	4.30	ug/L #	74
59) Bromodichloromethane	7.470	83	13523	4.33	ug/L	93
60) 2-Nitropropane	7.750	41	5163	4.81	ug/L	93
61) 2-Chloroethylvinyl Ether	7.878	63	5286	5.87	ug/L	90
62) cis-1,3-Dichloropropene	8.012	75	15681	3.77	ug/L	96
63) 4-Methyl-2-pentanone	8.220	43	22521	4.69	ug/L	97
65) Toluene	8.384	91	54941	5.00	ug/L	100
66) trans-1,3-Dichloropropene	8.652	75	11681	3.22	ug/L	97
67) Ethyl Methacrylate	8.799	69	15520	3.90	ug/L	80
68) 1,1,2-Trichloroethane	8.841	97	11872	4.67	ug/L #	81
71) Tetrachloroethene	8.976	164	10845	5.09	ug/L	97
72) 2-Hexanone	9.134	43	17219	4.74	ug/L	94
73) 1,3-Dichloropropane	9.012	76	21478	5.07	ug/L #	76
74) Dibromochloromethane	9.238	129	10111	3.70	ug/L	96
75) N-Butyl Acetate	9.293	43	28252	3.92	ug/L	97
76) 1,2-Dibromoethane	9.335	107	10668	4.21	ug/L	93
77) 3-Chlorobenzotrifluoride	9.847	180	19633	4.72	ug/L	93
78) Chlorobenzene	9.829	112	36889	4.95	ug/L	96
79) 4-Chlorobenzotrifluoride	9.902	180	17893	4.70	ug/L	91
80) 1,1,1,2-Tetrachloroethane	9.914	131	9404	3.55	ug/L	94
81) Ethylbenzene	9.951	106	18301	4.87	ug/L	95
82) (m+p)Xylene	10.061	106	46155	9.53	ug/L	90
83) o-Xylene	10.420	106	22364	4.76	ug/L	97
84) Styrene	10.433	104	36882	4.65	ug/L	96
85) Bromoform	10.585	173	5931	3.35	ug/L	94
86) 2-Chlorobenzotrifluoride	10.664	180	19139	4.70	ug/L	94
87) Isopropylbenzene	10.756	105	57559	4.84	ug/L	98
88) Cyclohexanone	10.817	55	72151	105.46	ug/L	97
89) trans-1,4-Dichloro-2-B...	11.060	53	4474	4.31	ug/L #	59
91) 1,1,2,2-Tetrachloroethane	11.012	83	16346	4.60	ug/L	90
92) Bromobenzene	11.000	156	15045	4.71	ug/L	92
93) 1,2,3-Trichloropropane	11.042	110	5263	4.60	ug/L #	82
94) n-Propylbenzene	11.109	91	67038	5.01	ug/L	97
95) 2-Chlorotoluene	11.170	91	41128	5.21	ug/L	99
96) 3-Chlorotoluene	11.225	91	41073	4.76	ug/L	97
97) 4-Chlorotoluene	11.268	91	45784	5.06	ug/L	97
98) 1,3,5-Trimethylbenzene	11.262	105	47275	4.97	ug/L	97
99) tert-Butylbenzene	11.536	119	42541	4.83	ug/L	98
100) 1,2,4-Trimethylbenzene	11.573	105	49142	4.91	ug/L	92
101) 3,4-Dichlorobenzotrifl...	11.634	214	14139	4.66	ug/L	97
102) sec-Butylbenzene	11.719	105	61439	4.96	ug/L	98
103) p-Isopropyltoluene	11.841	119	51275	4.79	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7618.D  
 Acq On : 23 Aug 2017 12:29 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

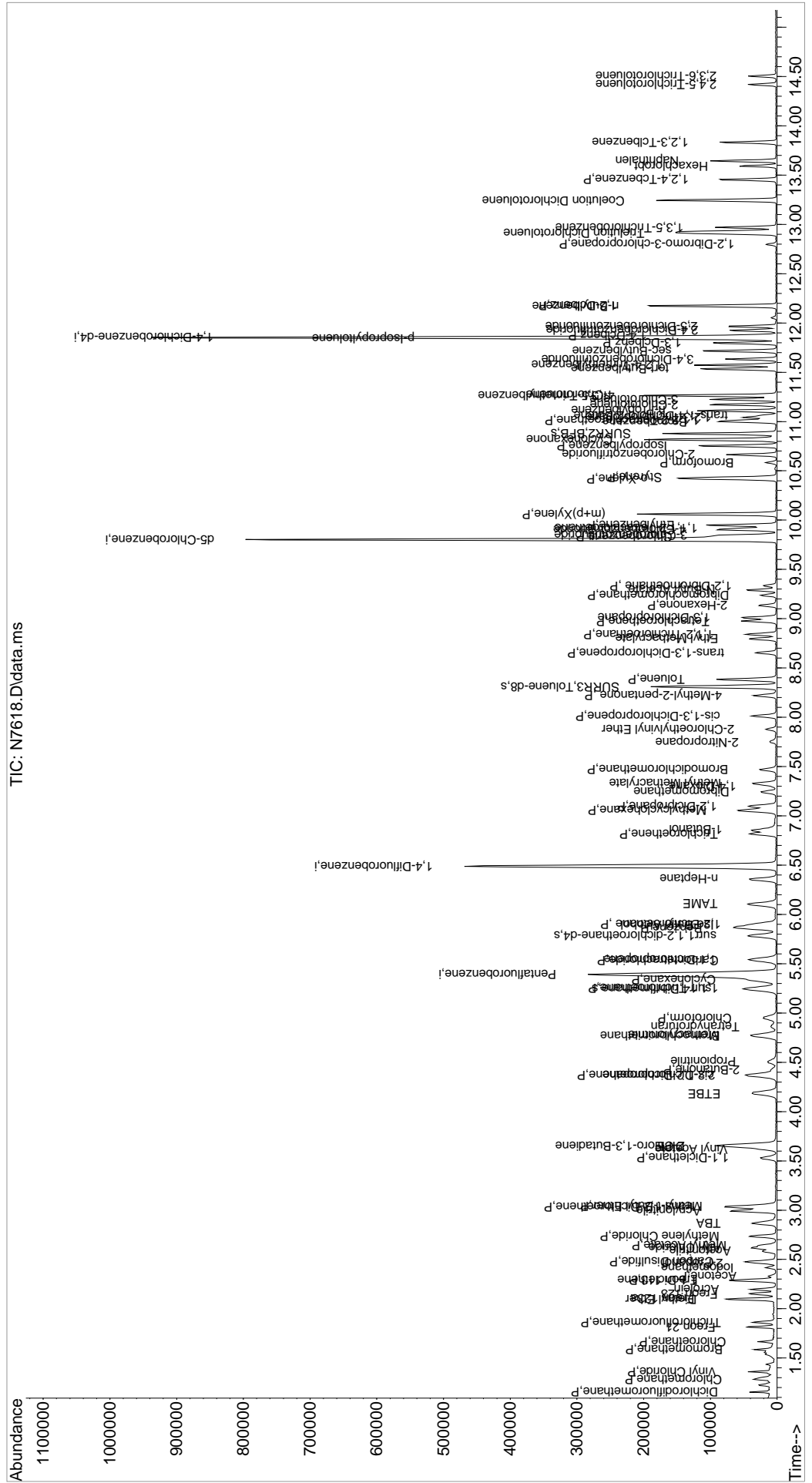
Quant Time: Aug 24 14:08:20 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	29486	4.94	ug/L	95
105) 1,4-Dclbenz	11.871	146	30126	4.90	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	13473	4.95	ug/L	94
107) 2,5-Dichlorobenzotrifl...	11.969	214	15497	5.02	ug/L	95
108) n-Butylbenzene	12.170	91	44687	4.90	ug/L	97
109) 1,2-Dclbenz	12.176	146	28883	4.79	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	2660	3.08	ug/L	92
111) Trielution Dichlorotol...	12.914	125	75429	13.90	ug/L	95
112) 1,3,5-Trichlorobenzene	12.969	180	21819	4.95	ug/L	96
113) Coelution Dichlorotoluene	13.243	125	55054	9.51	ug/L	99
114) 1,2,4-Tcbenzene	13.456	180	21001	5.14	ug/L	97
115) Hexachlorobt	13.590	225	8065	5.08	ug/L	96
116) Naphthalen	13.645	128	57309	4.79	ug/L	98
117) 1,2,3-Tclbenzene	13.834	180	20050	4.95	ug/L	95
118) 2,4,5-Trichlorotoluene	14.420	159	9069	3.55	ug/L	97
119) 2,3,6-Trichlorotoluene	14.505	159	7785	3.39	ug/L	90

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

Data Path : I:\ACQDATA\msvoa10\data\082317\  
 Data File : N7618.D  
 Acq On : 23 Aug 2017 12:29 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1  
 Inst : MSVOA10

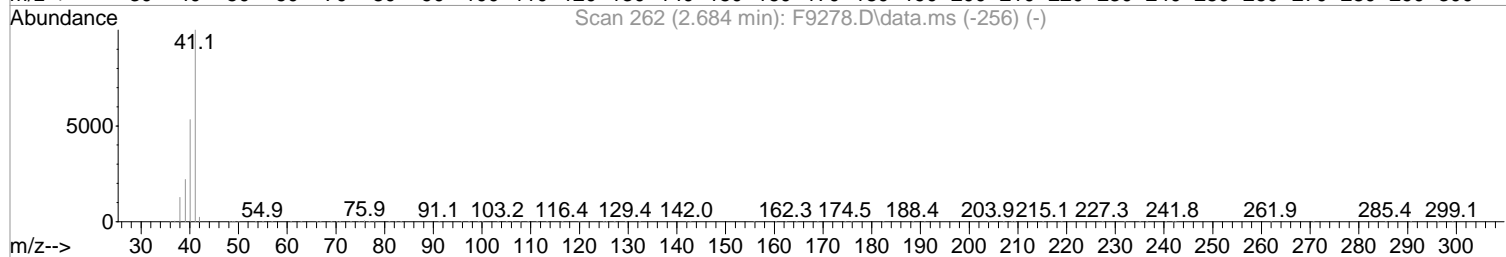
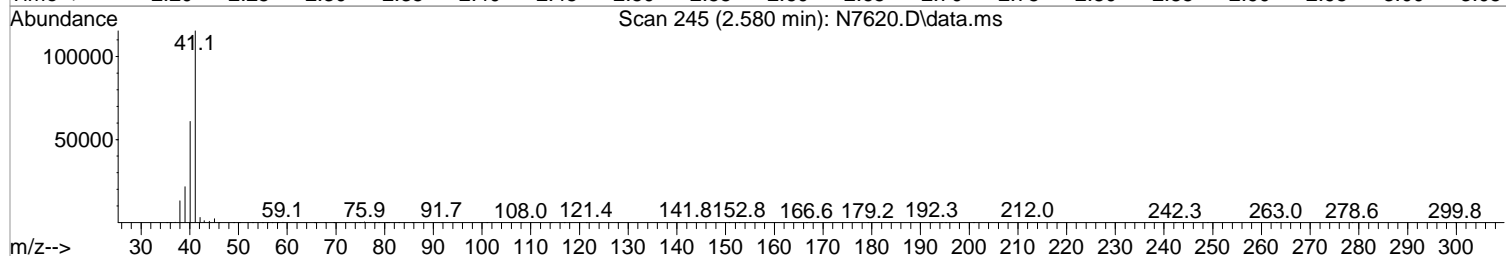
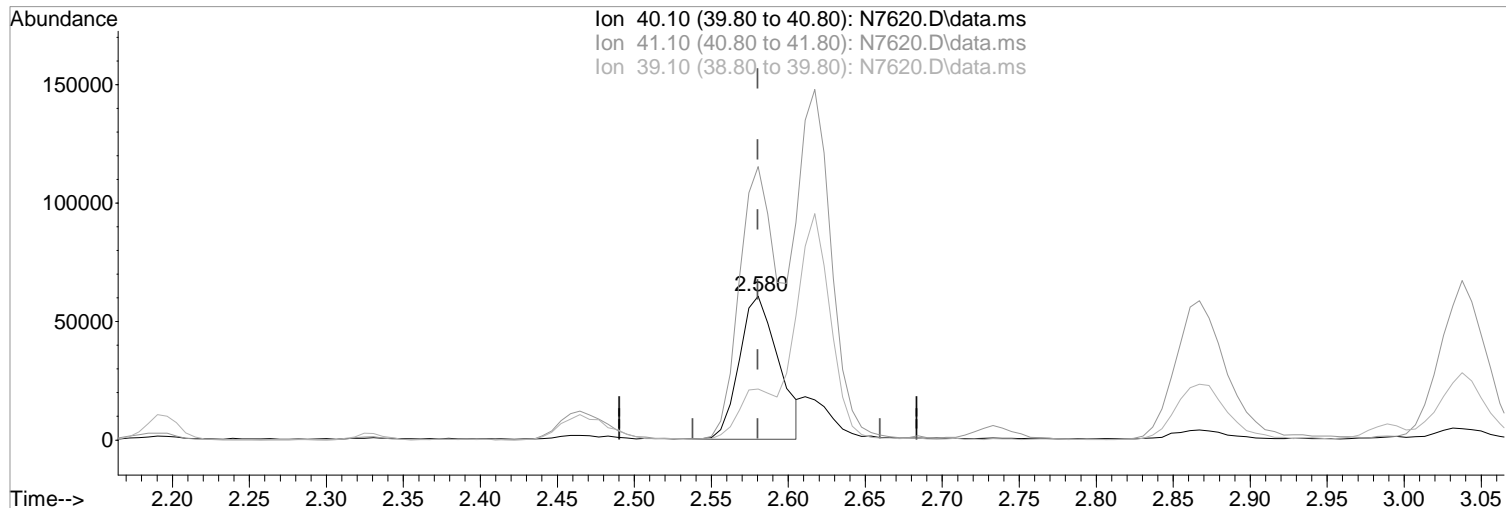
Quant Time: Aug 24 14:08:20 2017  
 Quant Method : I:\ACQDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7620.D  
Acq On : 23 Aug 2017 1:13 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:49 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7620.D\data.ms

(19) Acetonitrile

2.580min (+0.000) 273.04 ug/L m

response 107207

Ion	Exp%	Act%
40.10	100	100
41.10	187.50	189.82
39.10	41.20	35.39
0.00	0.00	0.00

Manual Integration:

After

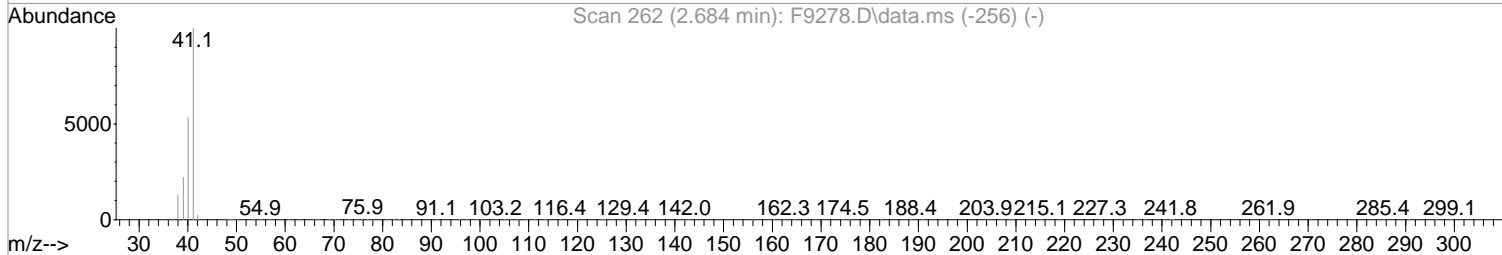
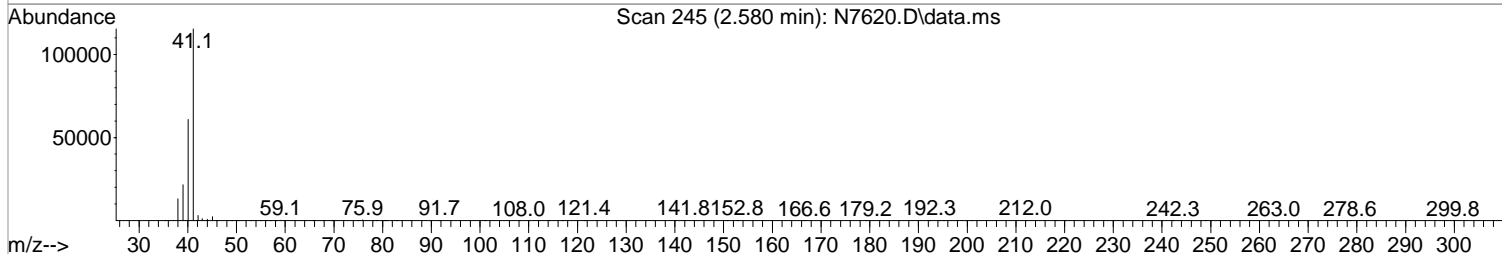
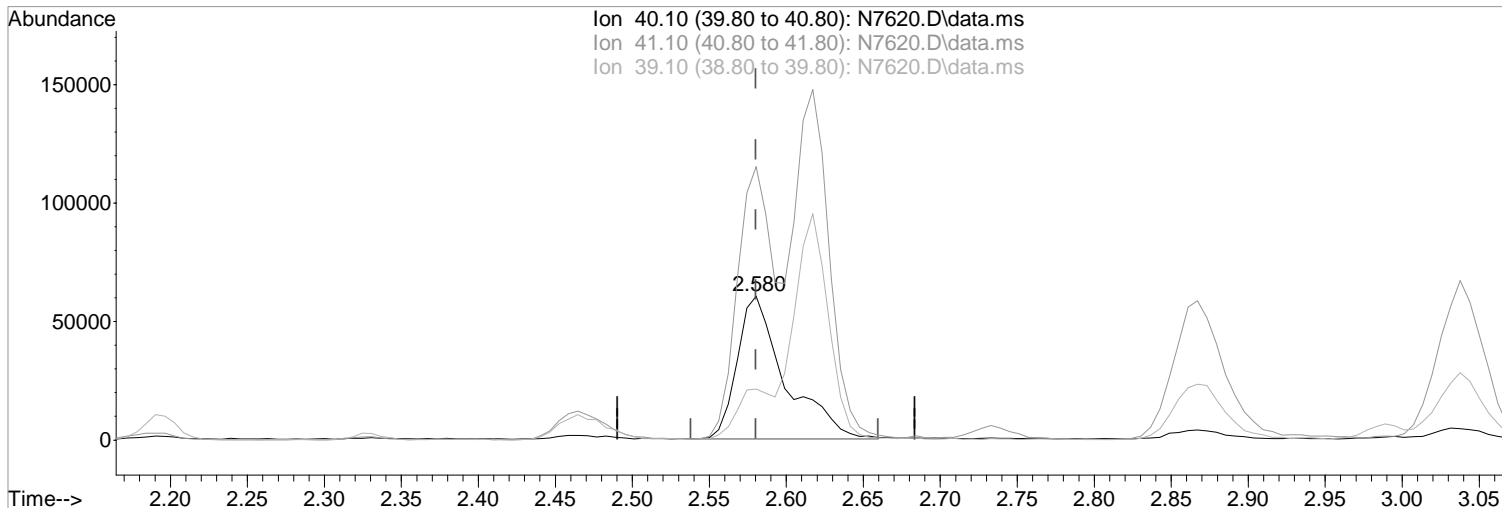
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7620.D  
Acq On : 23 Aug 2017 1:13 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:49 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7620.D\data.ms

(19) Acetonitrile  
2.580min (+0.000) 331.33 ug/L  
response 130093

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	187.50	189.82
39.10	41.20	35.39
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7620.D  
 Acq On : 23 Aug 2017 1:13 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 24 14:12:53 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.391	168	268423	50.00	ug/L	0.00	
41) 1,4-Difluorobenzene	6.488	114	400693	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.805	117	351734	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.853	152	187098	50.00	ug/L	0.00	
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.239	113	125809	49.47	ug/L	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery	=	98.94%		
46) surr1,1,2-dichloroetha...	5.781	65	151624	50.99	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	101.98%		
64) SURR3,Toluene-d8	8.311	98	470689	47.74	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	95.48%		
69) SURR2,BFB	10.878	95	187893	49.13	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.26%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.154	85	169599	63.03	ug/L		97
3) Chloromethane	1.282	50	275917	55.68	ug/L		97
4) Vinyl Chloride	1.361	62	201930	56.61	ug/L		94
5) Bromomethane	1.587	94	92215	42.36	ug/L		94
6) Chloroethane	1.666	64	114461	53.20	ug/L		96
7) Freon 21	1.812	67	228055	46.06	ug/L		100
8) Trichlorofluoromethane	1.861	101	182933	51.59	ug/L		98
9) Diethyl Ether	2.093	59	148471	51.38	ug/L		80
10) Freon 123a	2.099	67	141754	44.08	ug/L		99
11) Freon 123	2.154	83	153181	43.75	ug/L		94
12) Acrolein	2.196	56	234723	275.47	ug/L		98
13) 1,1-Diclcethene	2.282	96	113931	47.22	ug/L #		87
14) Freon 113	2.288	101	111480	47.21	ug/L		95
15) Acetone	2.331	43	95817	40.30	ug/L		99
16) 2-Propanol	2.465	45	356402	894.14	ug/L		98
17) Iodomethane	2.416	142	197168	68.10	ug/L		97
18) Carbon Disulfide	2.477	76	325480	46.69	ug/L		100
19) Acetonitrile	2.580	40	107207m	273.04	ug/L		
20) Allyl Chloride	2.617	76	48864	38.38	ug/L #		1
21) Methyl Acetate	2.641	43	286519	38.32	ug/L		90
22) Methylene Chloride	2.733	84	123808	48.52	ug/L #		68
23) TBA	2.867	59	446297	799.47	ug/L		83
24) Acrylonitrile	2.989	53	498231	265.23	ug/L		97
25) Methyl-t-Butyl Ether	3.038	73	375411	44.94	ug/L		86
26) trans-1,2-Dichloroethene	3.032	96	122540	48.82	ug/L #		78
27) 1,1-Diclcethane	3.532	63	261654	52.57	ug/L		95
28) Vinyl Acetate	3.617	86	26404	53.88	ug/L #		1
29) DIPE	3.653	45	660653	51.13	ug/L		93
30) 2-Chloro-1,3-Butadiene	3.653	53	259323	54.53	ug/L		83
31) ETBE	4.184	59	436197	43.84	ug/L		92
32) 2,2-Dichloropropane	4.361	77	127178	37.59	ug/L		97
33) cis-1,2-Dichloroethene	4.373	96	143562	50.93	ug/L #		76
34) 2-Butanone	4.415	43	140491	49.79	ug/L		88
35) Propionitrile	4.501	54	198859	257.44	ug/L		100
36) Bromochloromethane	4.769	130	92692	48.38	ug/L #		66
37) Methacrylonitrile	4.775	67	72487	46.79	ug/L #		34
38) Tetrahydrofuran	4.854	42	86309	48.76	ug/L #		68
39) Chloroform	4.952	83	207662	49.88	ug/L		96
40) 1,1,1-Trichloroethane	5.251	97	163914	44.95	ug/L		93

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7620.D  
 Acq On : 23 Aug 2017 1:13 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 24 14:12:53 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	159408	44.97	ug/L	88
44) Carbontetrachloride	5.537	117	130689	41.81	ug/L	97
45) 1,1-Dichloropropene	5.543	75	165628	48.51	ug/L	93
47) Benzene	5.860	78	501801	47.72	ug/L	72
48) 1,2-Dichloroethane	5.903	62	199908	52.91	ug/L	91
49) Iso-Butyl Alcohol	5.885	43	248855	844.06	ug/L	94
50) TAME	6.104	73	320866	39.68	ug/L	90
51) n-Heptane	6.354	43	235531	50.63	ug/L	84
52) 1-Butanol	6.854	56	324446	2021.88	ug/L	90
53) Trichloroethene	6.811	130	142663	50.68	ug/L	93
54) Methylcyclohexane	7.055	55	201071	45.89	ug/L #	72
55) 1,2-Diclpropane	7.098	63	162725	51.96	ug/L	96
56) Dibromomethane	7.238	93	84205	49.75	ug/L	97
57) 1,4-Dioxane	7.299	88	50071	990.54	ug/L	79
58) Methyl Methacrylate	7.330	69	110326	47.16	ug/L #	63
59) Bromodichloromethane	7.470	83	143216	45.75	ug/L	96
60) 2-Nitropropane	7.756	41	65404	60.72	ug/L	100
61) 2-Chloroethylvinyl Ether	7.878	63	59201	65.49	ug/L	90
62) cis-1,3-Dichloropropene	8.012	75	194602	46.65	ug/L	98
63) 4-Methyl-2-pentanone	8.220	43	242500	50.28	ug/L	93
65) Toluene	8.384	91	549189	49.79	ug/L	97
66) trans-1,3-Dichloropropene	8.652	75	159254	43.73	ug/L	99
67) Ethyl Methacrylate	8.793	69	186766	46.77	ug/L #	67
68) 1,1,2-Trichloroethane	8.841	97	121934	47.83	ug/L #	84
71) Tetrachloroethene	8.976	164	104282	48.93	ug/L	96
72) 2-Hexanone	9.134	43	181559	50.04	ug/L	96
73) 1,3-Dichloropropane	9.012	76	219992	51.91	ug/L #	79
74) Dibromochloromethane	9.238	129	126204	46.20	ug/L	99
75) N-Butyl Acetate	9.287	43	360218	50.07	ug/L	96
76) 1,2-Dibromoethane	9.335	107	127109	50.14	ug/L	97
77) 3-Chlorobenzotrifluoride	9.847	180	192126	46.24	ug/L	96
78) Chlorobenzene	9.829	112	367963	49.44	ug/L	98
79) 4-Chlorobenzotrifluoride	9.902	180	173078	45.51	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.914	131	120137	45.42	ug/L	99
81) Ethylbenzene	9.951	106	189022	50.33	ug/L	96
82) (m+p)Xylene	10.061	106	469176	96.93	ug/L	96
83) o-Xylene	10.420	106	233731	49.78	ug/L	94
84) Styrene	10.433	104	393287	49.58	ug/L	97
85) Bromoform	10.585	173	75951	42.86	ug/L	98
86) 2-Chlorobenzotrifluoride	10.664	180	191525	47.08	ug/L	96
87) Isopropylbenzene	10.756	105	596522	50.15	ug/L	99
88) Cyclohexanone	10.817	55	799055	1168.70	ug/L	96
89) trans-1,4-Dichloro-2-B...	11.061	53	47824	46.10	ug/L	80
91) 1,1,2,2-Tetrachloroethane	11.012	83	174792	47.51	ug/L	99
92) Bromobenzene	11.000	156	160241	48.45	ug/L	91
93) 1,2,3-Trichloropropane	11.042	110	53969	45.60	ug/L #	87
94) n-Propylbenzene	11.109	91	695008	50.18	ug/L	99
95) 2-Chlorotoluene	11.170	91	408110	49.90	ug/L	97
96) 3-Chlorotoluene	11.225	91	408230	45.70	ug/L	96
97) 4-Chlorotoluene	11.268	91	482949	51.59	ug/L	99
98) 1,3,5-Trimethylbenzene	11.262	105	490945	49.86	ug/L	99
99) tert-Butylbenzene	11.536	119	444514	48.78	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	512109	49.41	ug/L	93
101) 3,4-Dichlorobenzotrifl...	11.634	214	142442	45.38	ug/L	98
102) sec-Butylbenzene	11.719	105	639203	49.84	ug/L	97
103) p-Isopropyltoluene	11.841	119	551359	49.74	ug/L	97



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7620.D  
 Acq On : 23 Aug 2017 1:13 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 24 14:12:53 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	300598	48.62	ug/L	98
105) 1,4-Dclbenz	11.871	146	305120	47.98	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.926	214	132788	47.16	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.969	214	149388	46.70	ug/L	97
108) n-Butylbenzene	12.170	91	485719	51.41	ug/L	98
109) 1,2-Dclbenz	12.176	146	300851	48.19	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	37193	41.64	ug/L	97
111) Trielution Dichlorotol...	12.920	125	796460	141.75	ug/L	98
112) 1,3,5-Trichlorobenzene	12.969	180	218262	47.85	ug/L	99
113) Coelution Dichlorotoluene	13.243	125	593917	99.11	ug/L	98
114) 1,2,4-Tcbenzene	13.456	180	218212	51.59	ug/L	96
115) Hexachlorobt	13.591	225	82913	50.41	ug/L	98
116) Naphthalen	13.645	128	667169	53.81	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	217737	51.95	ug/L	99
118) 2,4,5-Trichlorotoluene	14.420	159	142453	53.85	ug/L	98
119) 2,3,6-Trichlorotoluene	14.505	159	128291	53.97	ug/L	96

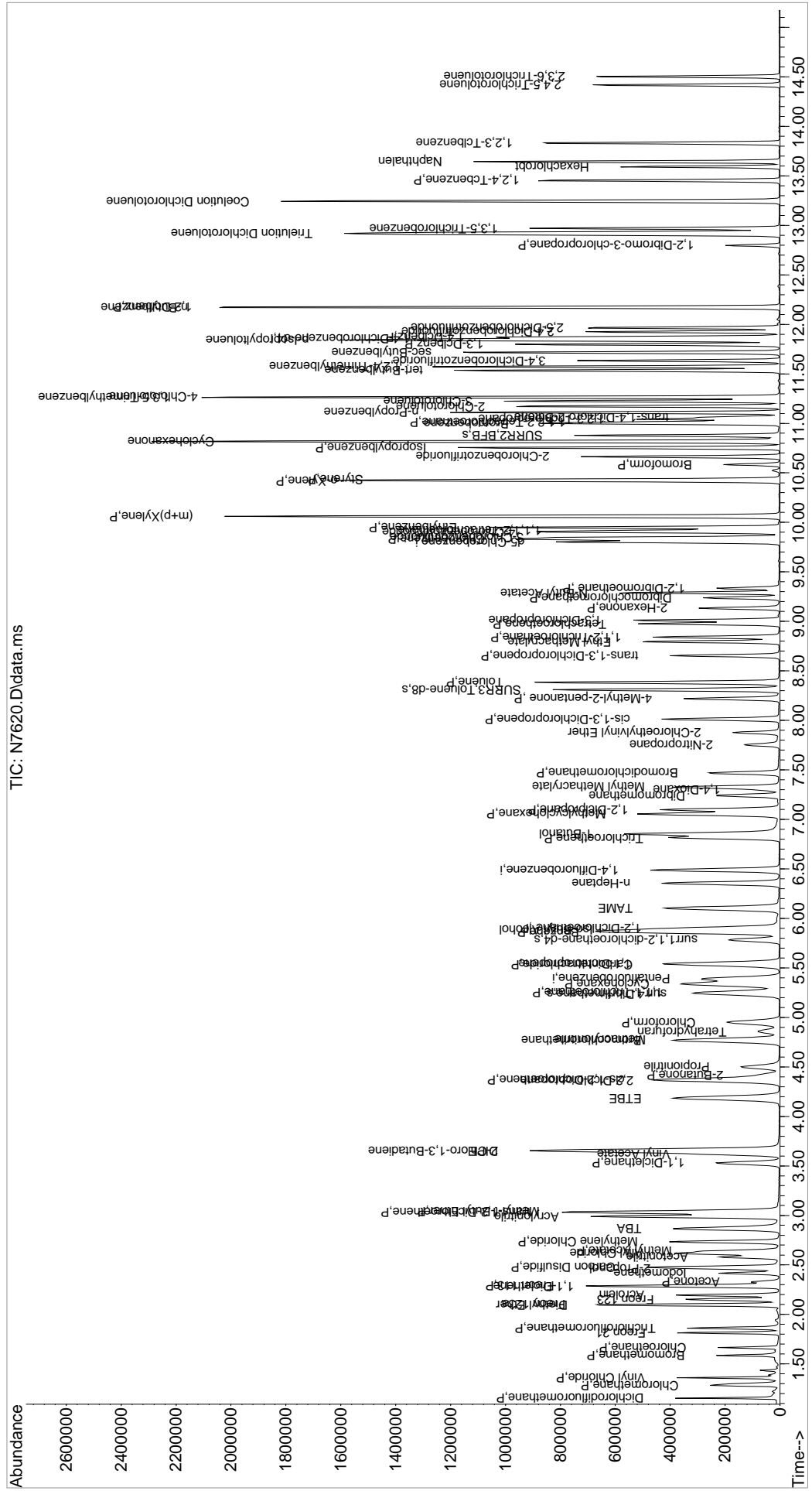
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\msvoa10\data\082317\  
 Data File : N7620.D  
 Acq On : 23 Aug 2017 1:13 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

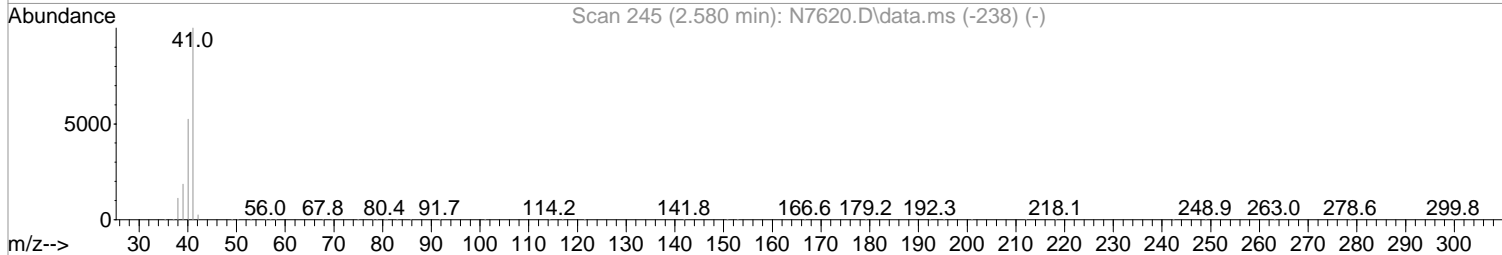
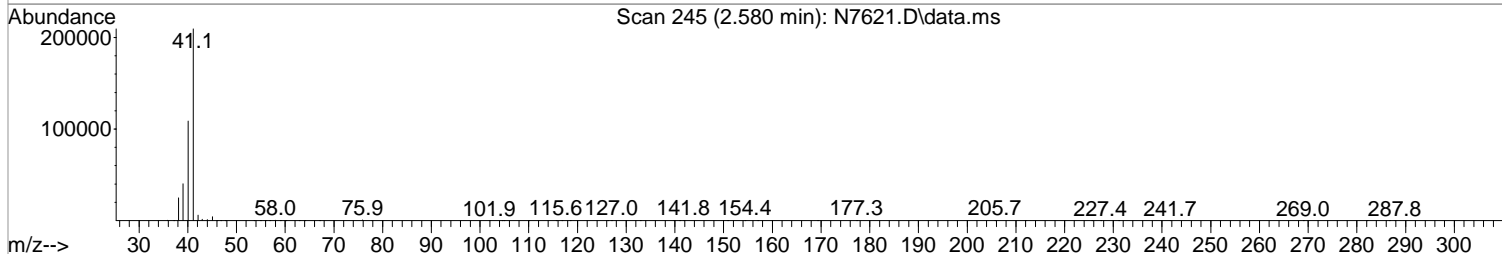
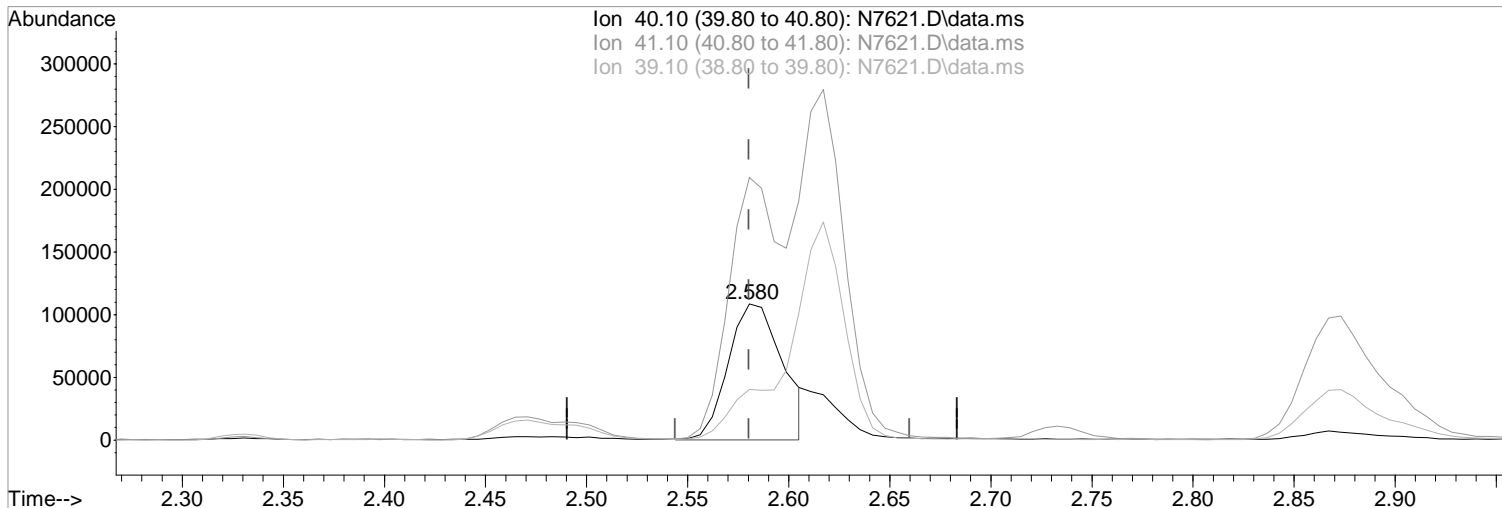
Quant Time: Aug 24 14:12:53 2017  
 Quant Method : I:\ACQDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7621.D  
Acq On : 23 Aug 2017 1:34 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:59 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(19) Acetonitrile  
2.580min (+0.000) 524.61 ug/L m  
response 201945

Manual Integration:

After

Poor integration.

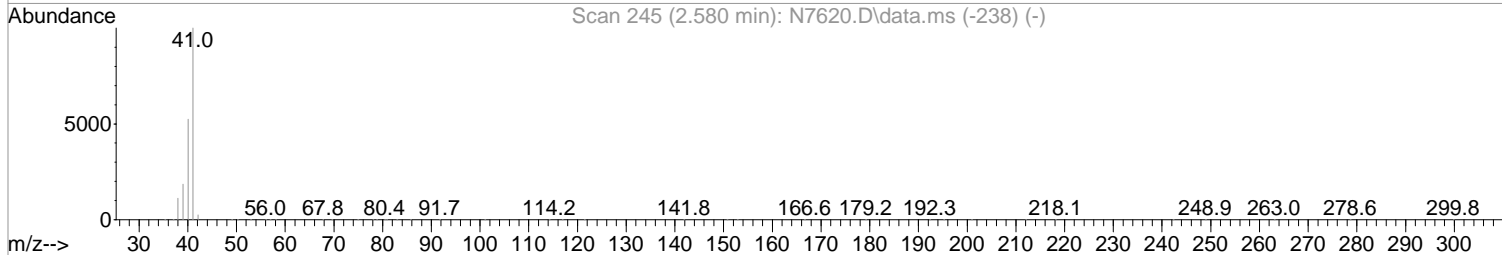
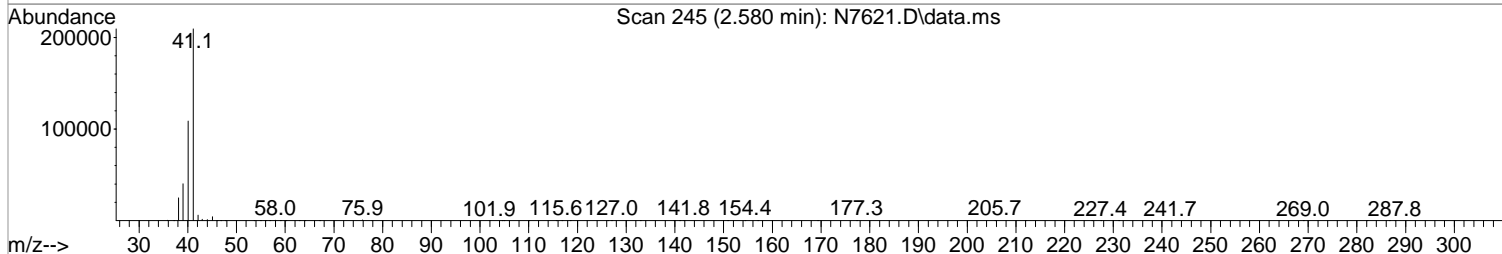
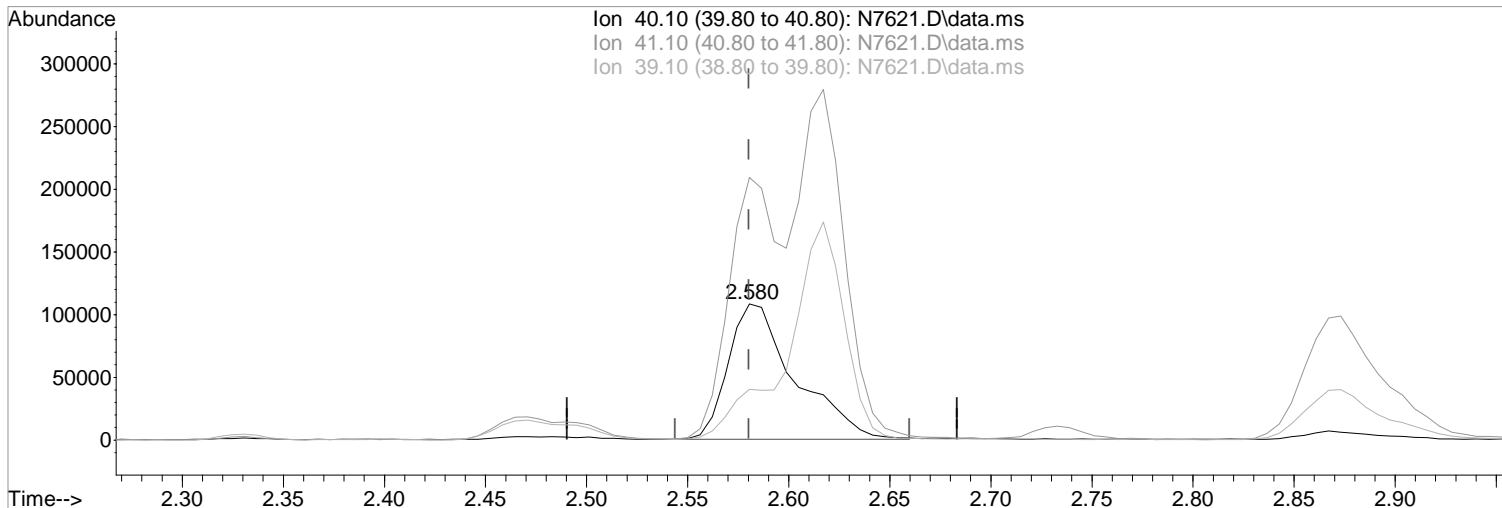
08/24/17

Ion	Exp%	Act%
40.10	100	100
41.10	187.50	192.84
39.10	41.20	37.18
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7621.D  
Acq On : 23 Aug 2017 1:34 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:56:59 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(19) Acetonitrile  
2.580min (+0.000) 645.87 ug/L  
response 248623

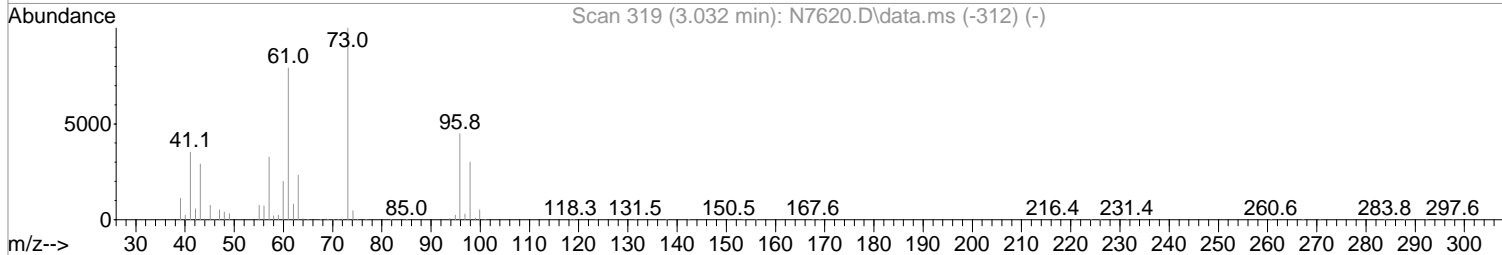
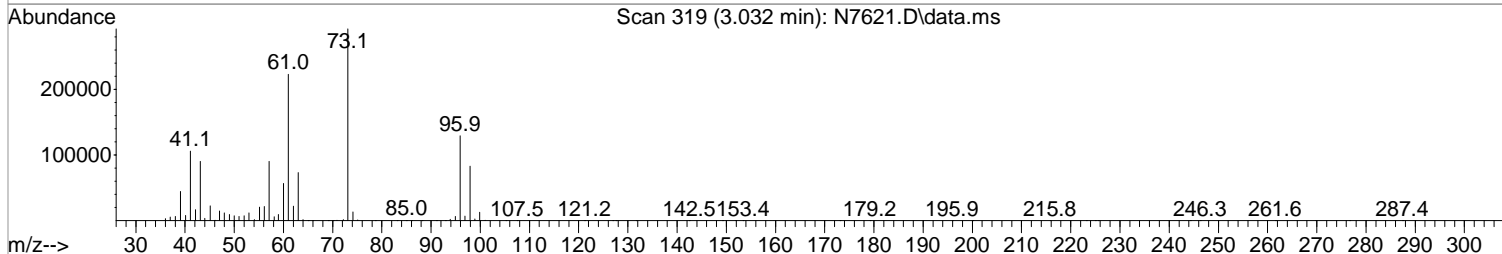
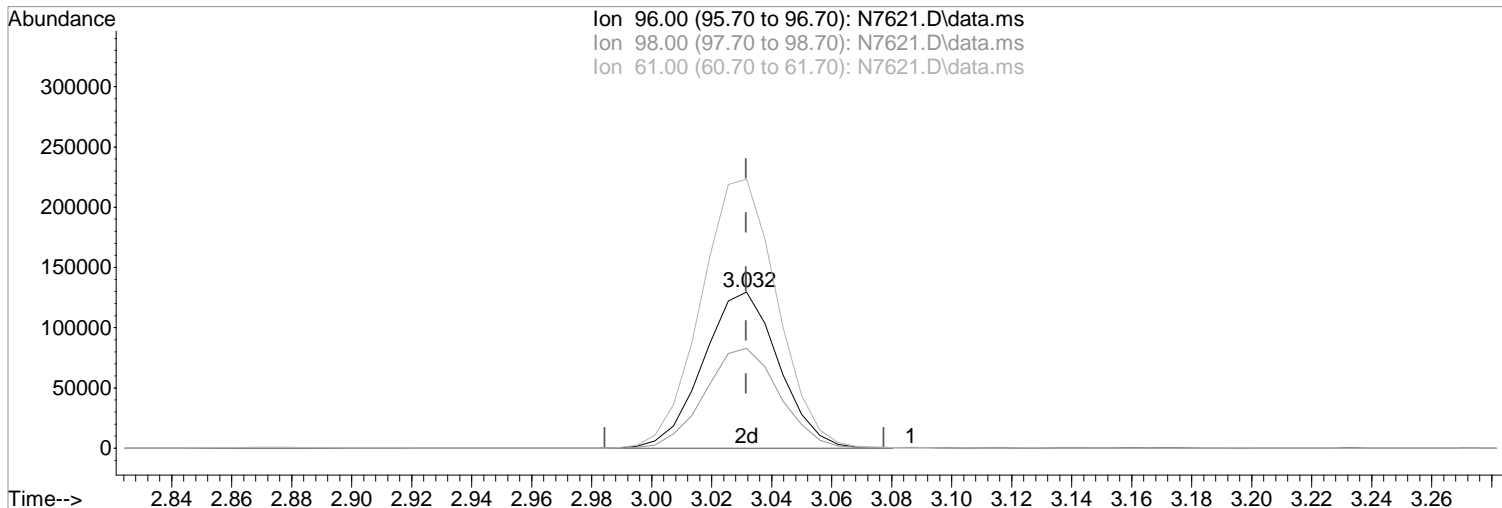
Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	187.50	192.84
39.10	41.20	37.18
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7621.D  
Acq On : 23 Aug 2017 1:34 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Aug 24 13:56:59 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(26) trans-1,2-Dichloroethene (P)

3.032min (+0.000) 92.38 ug/L m  
response 227324

Ion	Exp%	Act%
96.00	100	100
98.00	60.60	63.90
61.00	142.40	172.27#
0.00	0.00	0.00

Manual Integration:

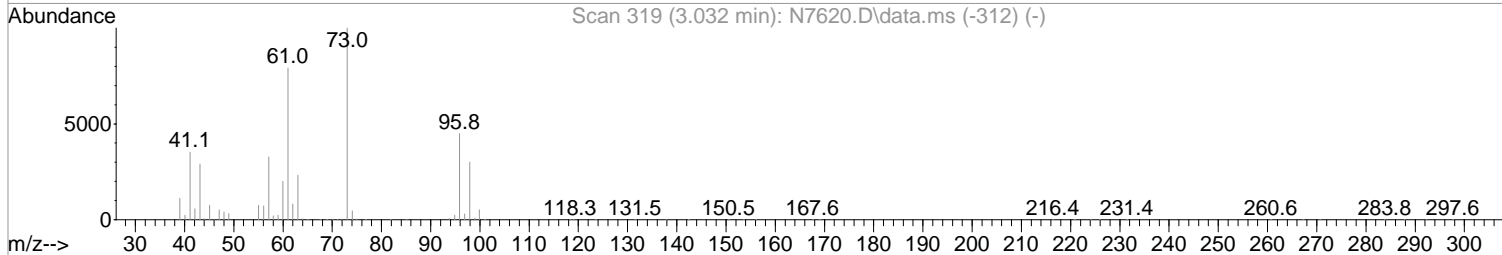
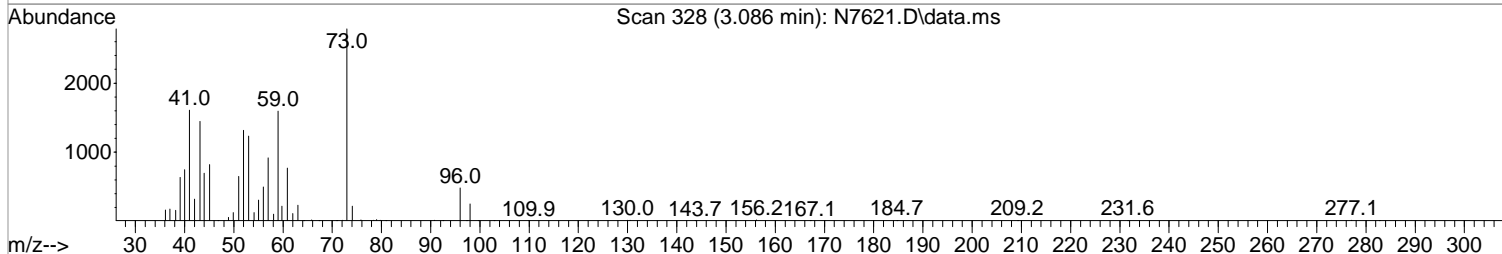
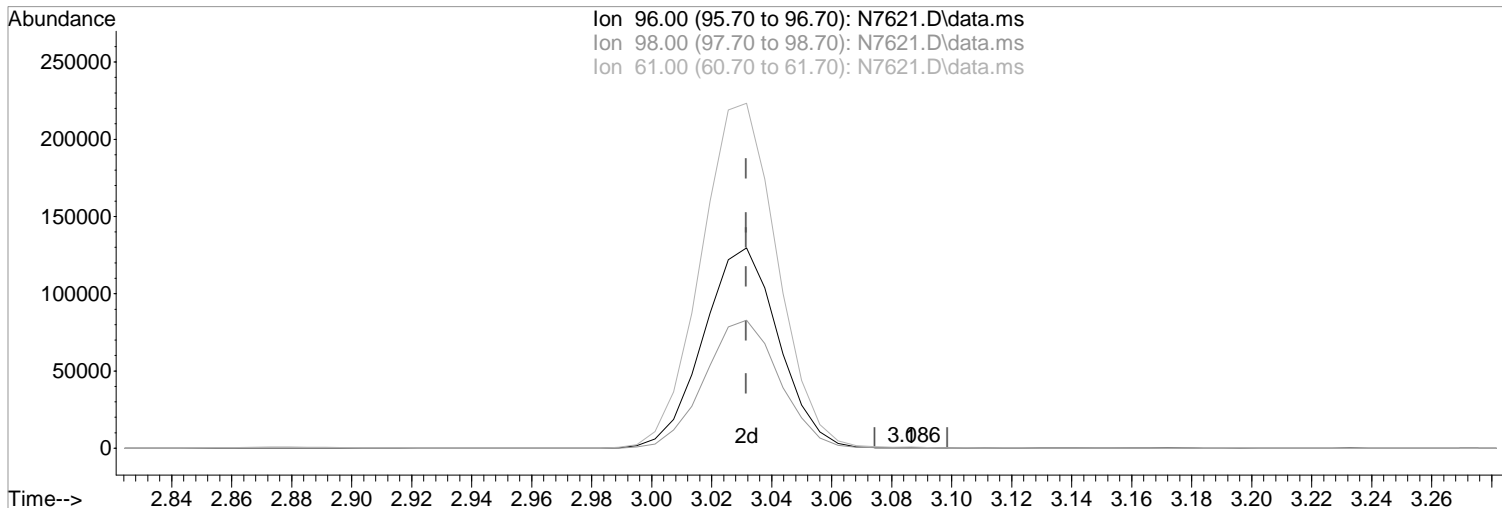
After

Peak not found.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7621.D  
Acq On : 23 Aug 2017 1:34 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Aug 24 13:56:59 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(26) trans-1,2-Dichloroethene (P)

3.086min (+0.055) 0.12 ug/L

response 300

Ion	Exp%	Act%
96.00	100	100
98.00	60.60	51.66
61.00	142.40	159.75
0.00	0.00	0.00

Manual Integration:

Before

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7621.D  
 Acq On : 23 Aug 2017 1:34 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 24 14:18:36 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	5.391	168	263161	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	391219	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	351105	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	191044	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
43) surr4,Dibrflmethane	5.239	113	238223	95.95	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	191.90%#	
46) surr1,1,2-dichloroetha...	5.781	65	288075	99.22	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	198.44%#	
64) SURR3,Toluene-d8	8.311	98	897796	93.26	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	186.52%#	
69) SURR2,BFB	10.878	95	365851	97.98	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	195.96%#	
<b>Target Compounds</b>						
						Qvalue
2) Dichlorodifluoromethane	1.154	85	298789	113.27	ug/L	97
3) Chloromethane	1.282	50	513081	105.62	ug/L	99
4) Vinyl Chloride	1.361	62	364723	104.29	ug/L	96
5) Bromomethane	1.581	94	137220	64.29	ug/L	99
6) Chloroethane	1.660	64	208539	98.86	ug/L	100
7) Freon 21	1.812	67	464433	95.67	ug/L	98
8) Trichlorofluoromethane	1.861	101	323898	93.18	ug/L	99
9) Diethyl Ether	2.093	59	287246	101.40	ug/L #	77
10) Freon 123a	2.099	67	284205	90.15	ug/L	100
11) Freon 123	2.154	83	309210	90.08	ug/L	99
12) Acrolein	2.196	56	441781	528.84	ug/L	99
13) 1,1-Diclcethene	2.282	96	205811	87.01	ug/L #	84
14) Freon 113	2.288	101	192967	83.35	ug/L	99
15) Acetone	2.331	43	187736	80.54	ug/L	98
16) 2-Propanol	2.465	45	713496	1825.80	ug/L	99
17) Iodomethane	2.416	142	378880	133.48	ug/L	97
18) Carbon Disulfide	2.477	76	609932	89.25	ug/L	98
19) Acetonitrile	2.580	40	201945m	524.61	ug/L	
20) Allyl Chloride	2.617	76	92931	74.46	ug/L #	1
21) Methyl Acetate	2.641	43	541133	73.83	ug/L	90
22) Methylene Chloride	2.733	84	232761	93.05	ug/L #	66
23) TBA	2.867	59	910322	1663.31	ug/L	86
24) Acrylonitrile	2.989	53	947381	514.42	ug/L	100
25) Methyl-t-Butyl Ether	3.038	73	733421	89.55	ug/L	86
26) trans-1,2-Dichloroethene	3.032	96	227324m	92.38	ug/L	
27) 1,1-Diclcethane	3.532	63	482768	98.94	ug/L	99
28) Vinyl Acetate	3.623	86	48527	101.01	ug/L #	1
29) DIPE	3.660	45	1252437	98.86	ug/L	89
30) 2-Chloro-1,3-Butadiene	3.653	53	475892	102.08	ug/L	84
31) ETBE	4.184	59	860646	88.24	ug/L	92
32) 2,2-Dichloropropane	4.367	77	248079	74.80	ug/L	94
33) cis-1,2-Dichloroethene	4.373	96	260286	94.18	ug/L #	75
34) 2-Butanone	4.415	43	268763	97.16	ug/L	90
35) Propionitrile	4.501	54	382753	505.41	ug/L	97
36) Bromochloromethane	4.769	130	177982	94.75	ug/L #	69
37) Methacrylonitrile	4.769	67	141274	93.01	ug/L #	43
38) Tetrahydrofuran	4.861	42	156260	90.05	ug/L	70
39) Chloroform	4.952	83	382883	93.82	ug/L	96
40) 1,1,1-Trichloroethane	5.251	97	305781	85.54	ug/L	93

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7621.D  
 Acq On : 23 Aug 2017 1:34 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 24 14:18:36 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	314232	90.80	ug/L	87
44) Carbontetrachloride	5.531	117	244407	80.09	ug/L	98
45) 1,1-Dichloropropene	5.543	75	296553	88.96	ug/L	97
47) Benzene	5.866	78	922998	89.91	ug/L	75
48) 1,2-Dichloroethane	5.903	62	382333	103.65	ug/L	91
49) Iso-Butyl Alcohol	5.891	43	515796	1791.84	ug/L	94
50) TAME	6.104	73	637979	80.80	ug/L	89
51) n-Heptane	6.354	43	406831	89.57	ug/L	86
52) 1-Butanol	6.860	56	692383	4419.28	ug/L	92
53) Trichloroethene	6.817	130	260248	94.69	ug/L	96
54) Methylcyclohexane	7.055	55	405794	94.86	ug/L #	73
55) 1,2-Diclpropane	7.098	63	306047	100.09	ug/L	99
56) Dibromomethane	7.238	93	160967	97.41	ug/L	99
57) 1,4-Dioxane	7.305	88	95050	1925.88	ug/L #	67
58) Methyl Methacrylate	7.330	69	212605	93.07	ug/L #	55
59) Bromodichloromethane	7.470	83	281049	91.95	ug/L	97
60) 2-Nitropropane	7.756	41	140094	133.21	ug/L	93
61) 2-Chloroethylvinyl Ether	7.878	63	114883	130.16	ug/L	93
62) cis-1,3-Dichloropropene	8.012	75	389380	95.61	ug/L	96
63) 4-Methyl-2-pentanone	8.220	43	468935	99.57	ug/L	91
65) Toluene	8.384	91	1004230	93.25	ug/L	99
66) trans-1,3-Dichloropropene	8.652	75	331721	93.30	ug/L	99
67) Ethyl Methacrylate	8.799	69	378181	97.00	ug/L #	68
68) 1,1,2-Trichloroethane	8.841	97	232549	93.44	ug/L #	86
71) Tetrachloroethene	8.976	164	184131	86.55	ug/L	93
72) 2-Hexanone	9.134	43	357092	98.60	ug/L	96
73) 1,3-Dichloropropane	9.012	76	415407	98.20	ug/L #	78
74) Dibromochloromethane	9.238	129	257921	94.58	ug/L	100
75) N-Butyl Acetate	9.286	43	717352	99.89	ug/L	97
76) 1,2-Dibromoethane	9.335	107	250443	98.96	ug/L	99
77) 3-Chlorobenzotrifluoride	9.847	180	372097	89.71	ug/L	97
78) Chlorobenzene	9.829	112	685061	92.21	ug/L	98
79) 4-Chlorobenzotrifluoride	9.902	180	333168	87.76	ug/L	93
80) 1,1,1,2-Tetrachloroethane	9.914	131	234618	88.87	ug/L	98
81) Ethylbenzene	9.951	106	342662	91.40	ug/L	99
82) (m+p)Xylene	10.061	106	867437	179.52	ug/L	97
83) o-Xylene	10.420	106	438867	93.64	ug/L	95
84) Styrene	10.433	104	752283	95.00	ug/L	96
85) Bromoform	10.585	173	161547	91.33	ug/L	99
86) 2-Chlorobenzotrifluoride	10.664	180	374872	92.31	ug/L	96
87) Isopropylbenzene	10.756	105	1078956	90.88	ug/L	99
88) Cyclohexanone	10.817	55	1584975	2322.34	ug/L	96
89) trans-1,4-Dichloro-2-B...	11.061	53	95725	92.45	ug/L	79
91) 1,1,2,2-Tetrachloroethane	11.012	83	339401	90.34	ug/L	97
92) Bromobenzene	11.000	156	304439	90.16	ug/L	93
93) 1,2,3-Trichloropropane	11.042	110	106989	88.53	ug/L	91
94) n-Propylbenzene	11.109	91	1257057	88.89	ug/L	99
95) 2-Chlorotoluene	11.176	91	752857	90.16	ug/L	94
96) 3-Chlorotoluene	11.225	91	804492	88.20	ug/L	96
97) 4-Chlorotoluene	11.268	91	902814	94.46	ug/L	99
98) 1,3,5-Trimethylbenzene	11.262	105	913502	90.86	ug/L	99
99) tert-Butylbenzene	11.536	119	817611	87.87	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	957001	90.42	ug/L	93
101) 3,4-Dichlorobenzotrifl...	11.634	214	284797	88.86	ug/L	99
102) sec-Butylbenzene	11.719	105	1176367	89.83	ug/L	98
103) p-Isopropyltoluene	11.841	119	1010882	89.31	ug/L	96

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7621.D  
 Acq On : 23 Aug 2017 1:34 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

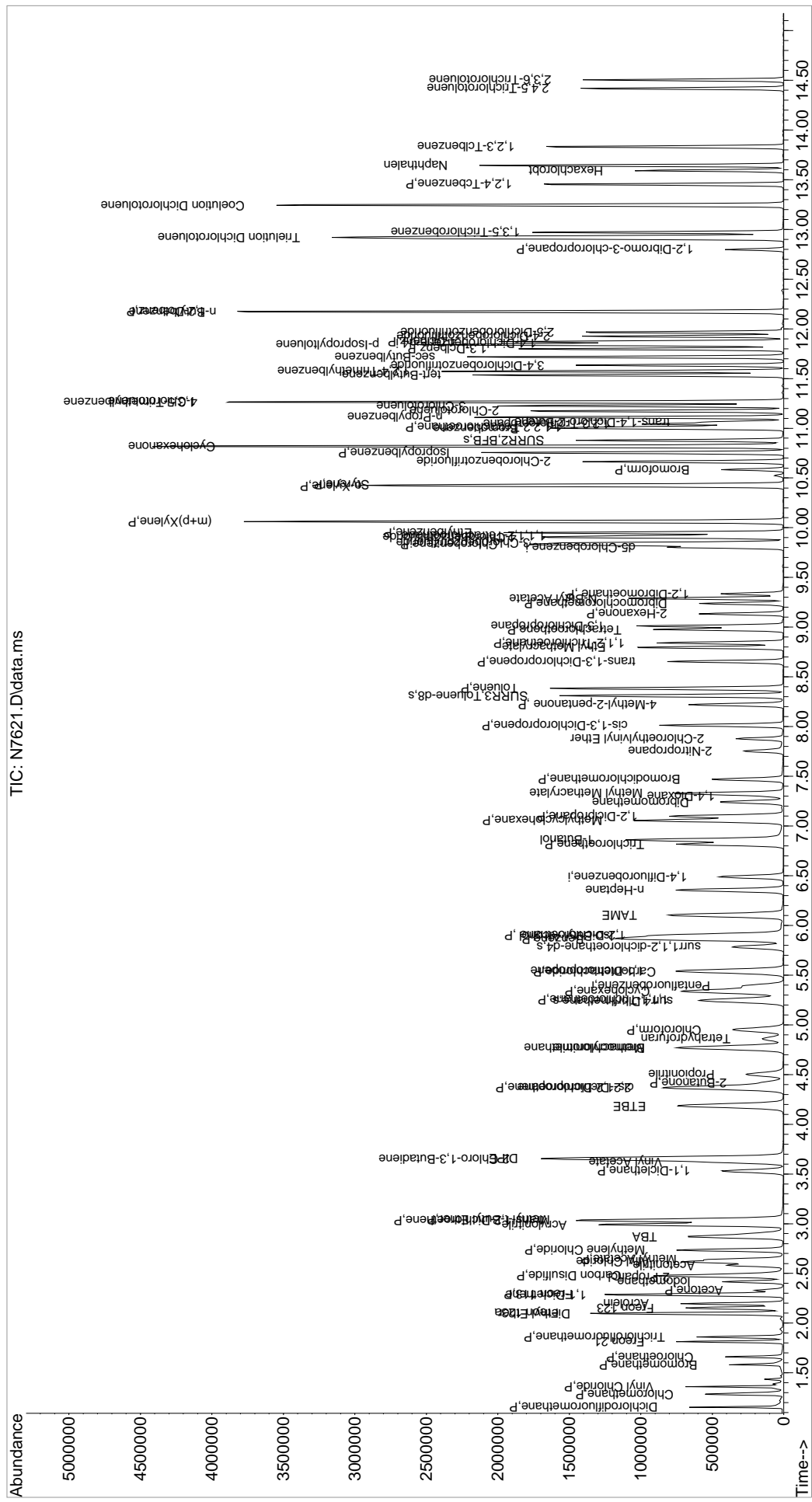
Quant Time: Aug 24 14:18:36 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	577889	91.53	ug/L	97
105) 1,4-Dclbenz	11.871	146	593128	91.35	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.926	214	256561	89.24	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.969	214	294682	90.22	ug/L	98
108) n-Butylbenzene	12.170	91	888444	92.08	ug/L	99
109) 1,2-Dclbenz	12.176	146	584026	91.62	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	81086	88.91	ug/L	97
111) Trielution Dichlorotol...	12.920	125	1583601	276.01	ug/L	98
112) 1,3,5-Trichlorobenzene	12.975	180	432995	92.96	ug/L	99
113) Coelution Dichlorotoluene	13.243	125	1157093	189.10	ug/L	98
114) 1,2,4-Tcbenzene	13.456	180	420406	97.35	ug/L	97
115) Hexachlorobt	13.591	225	151007	89.92	ug/L	97
116) Naphthalen	13.645	128	1302060	102.84	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	422609	98.75	ug/L	97
118) 2,4,5-Trichlorotoluene	14.420	159	293214	108.56	ug/L	98
119) 2,3,6-Trichlorotoluene	14.505	159	263336	108.50	ug/L	98

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

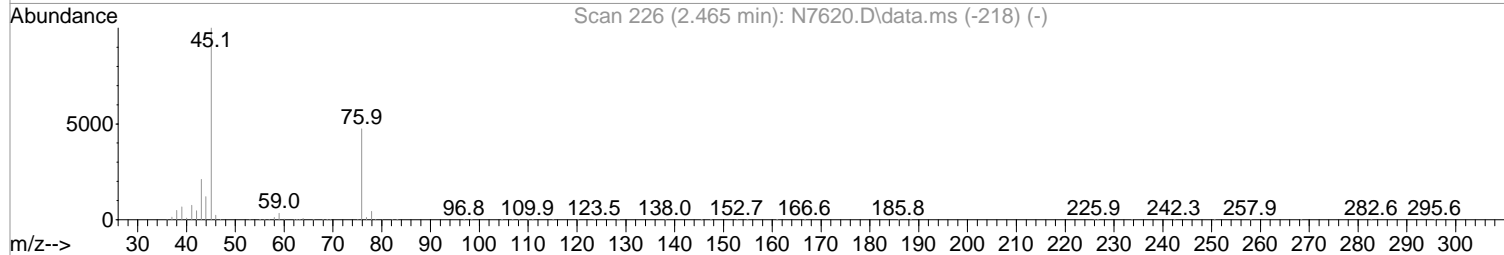
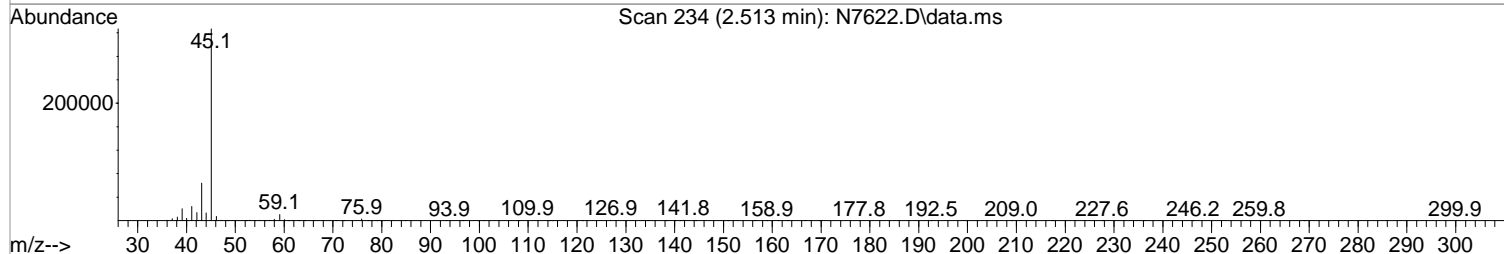
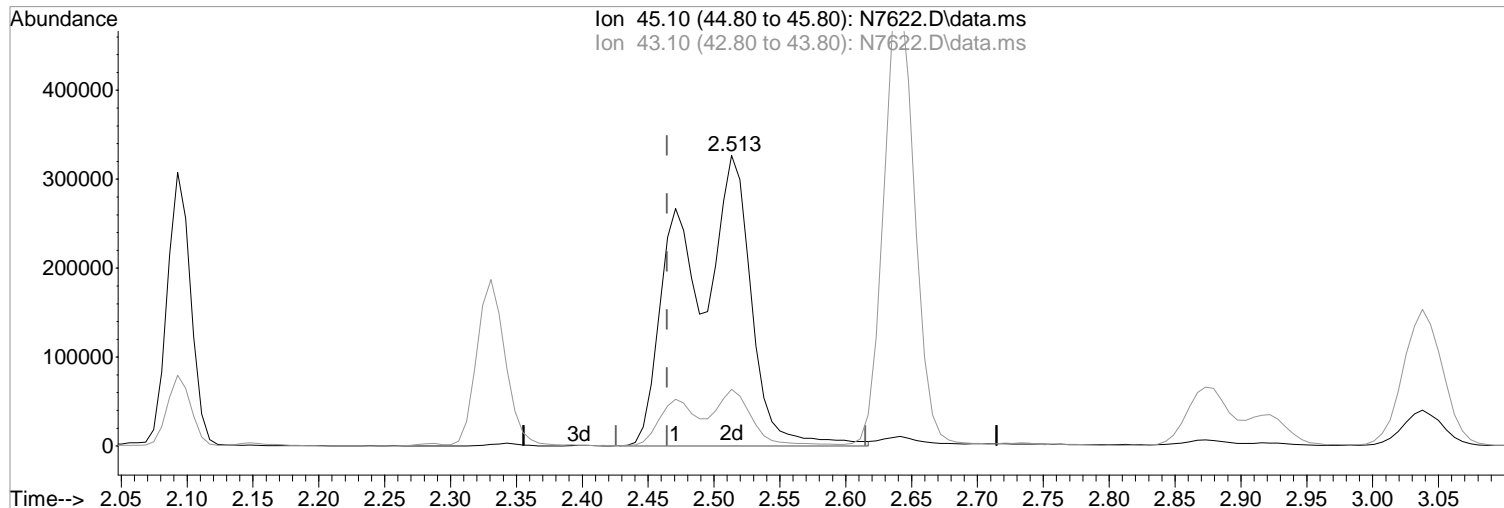


Data Path : I:\ACQDATA\msvoa10\data\082317\  
 Data File : N7621.D  
 Acq On : 23 Aug 2017 1:34 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1  
 Inst : MSVOA10  
 Quant Time: Aug 24 14:18:36 2017  
 Quant Method : I:\ACQDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7622.D  
Acq On : 23 Aug 2017 1:56 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Aug 24 14:23:03 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(16) 2-Propanol  
2.513min (+0.049) 2924.50 ug/L m  
response 1130702

Manual Integration:

After

Poor integration.

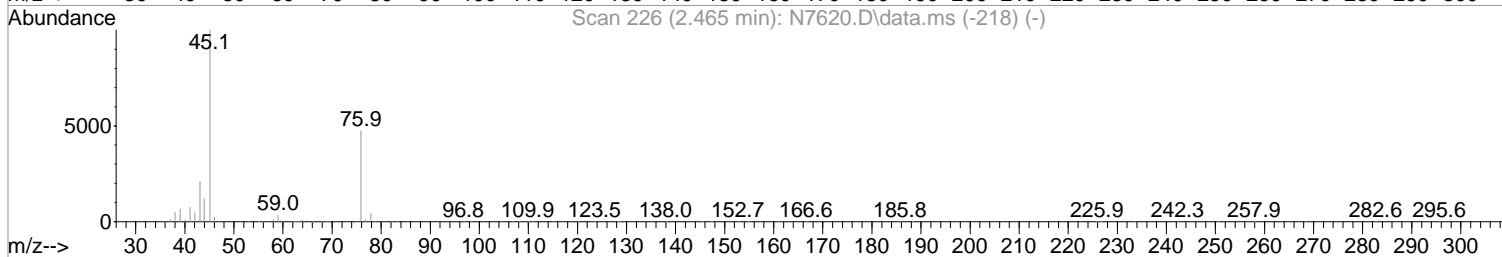
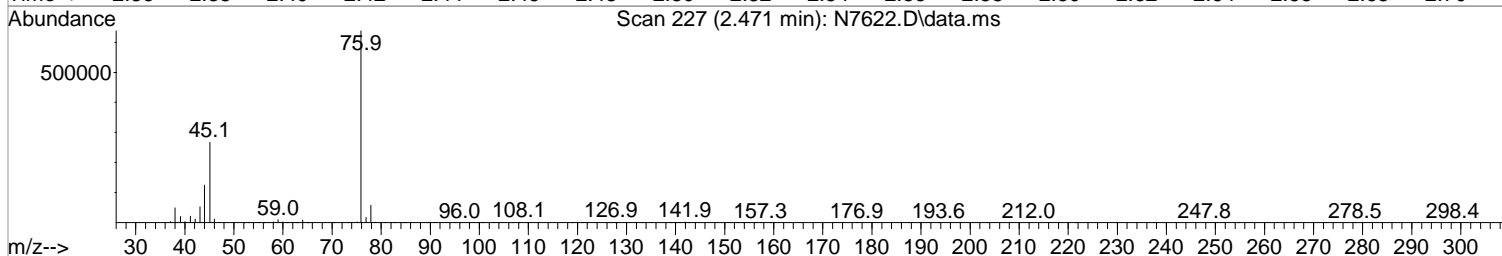
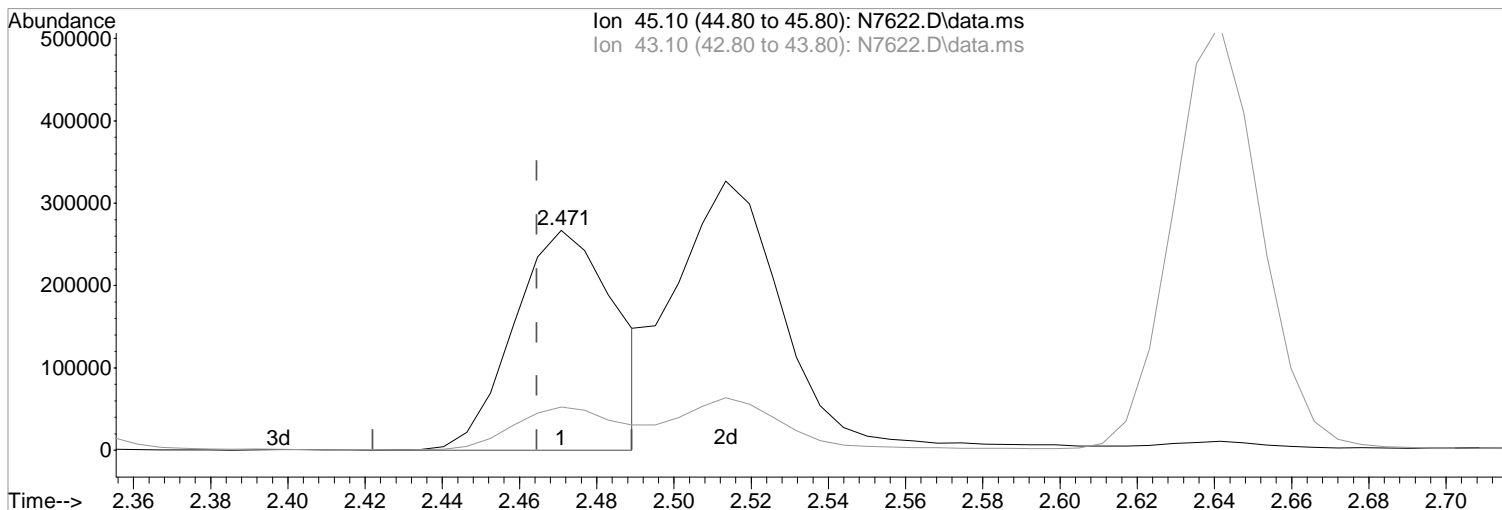
08/24/17

Ion	Exp%	Act%
45.10	100	100
43.10	20.30	19.47
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7622.D  
Acq On : 23 Aug 2017 1:56 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:57:11 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(16) 2-Propanol  
2.471min (+0.006) 1257.29 ug/L  
response 486106

Manual Integration:  
Before

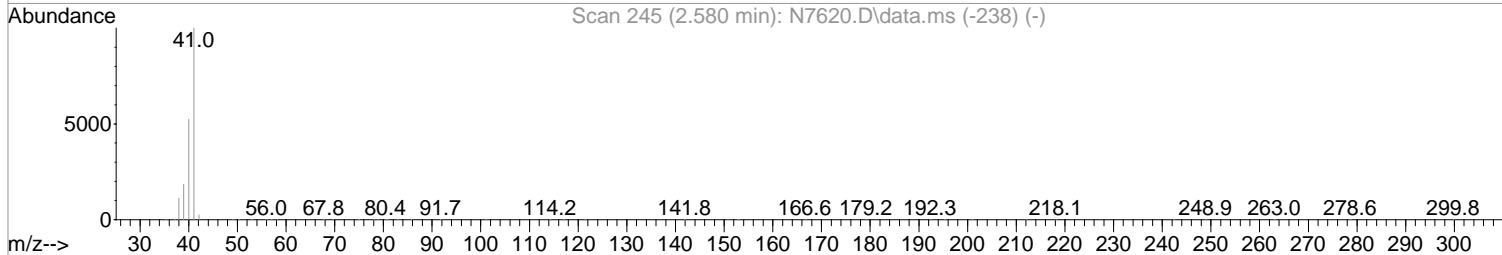
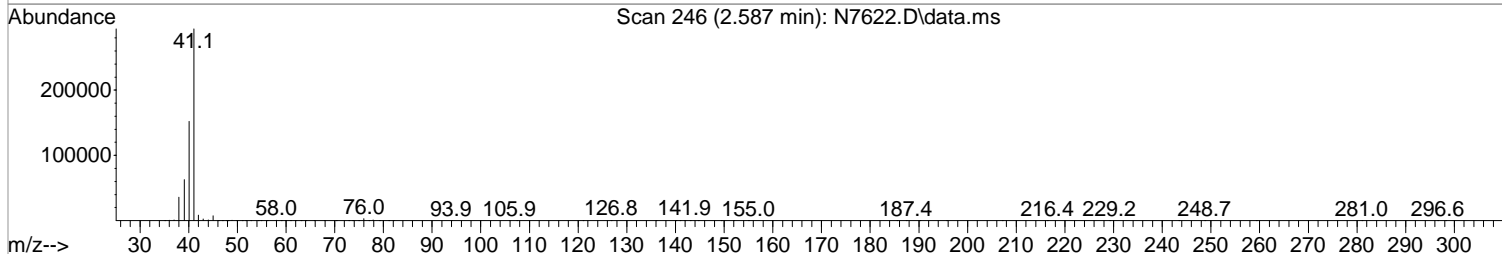
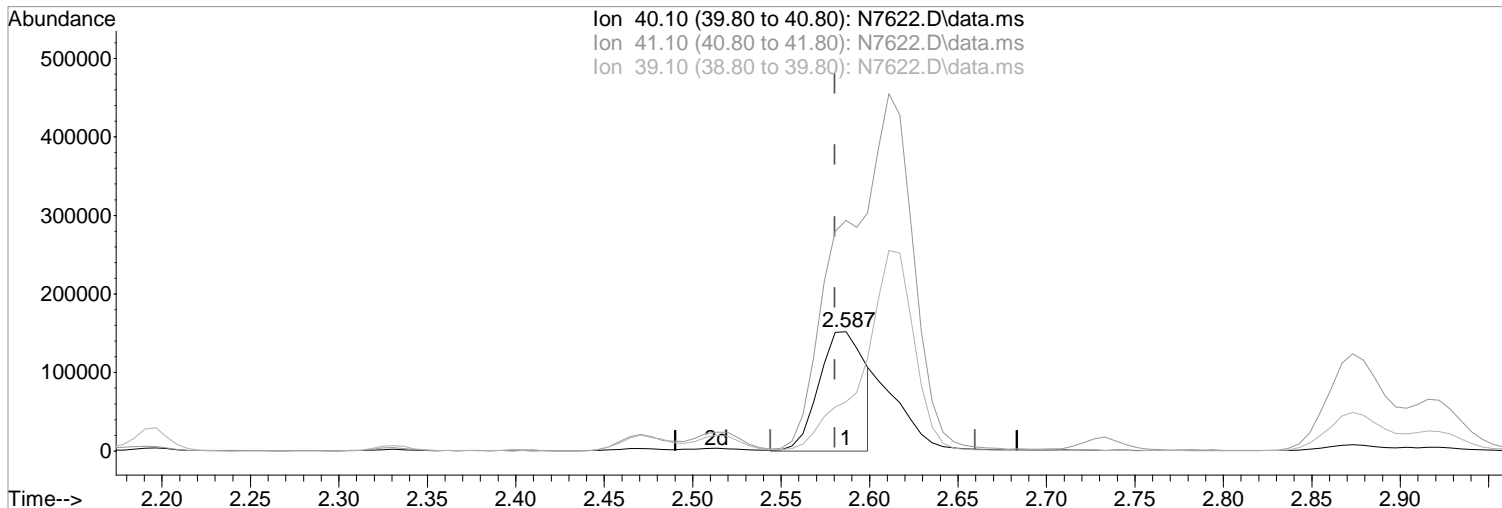
Ion	Exp%	Act%
45.10	100	100
43.10	20.30	19.64
0.00	0.00	0.00
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7622.D  
Acq On : 23 Aug 2017 1:56 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:57:11 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(19) Acetonitrile  
2.587min (+0.006) 715.01 ug/L m  
response 272315

Manual Integration:  
After  
Poor integration.

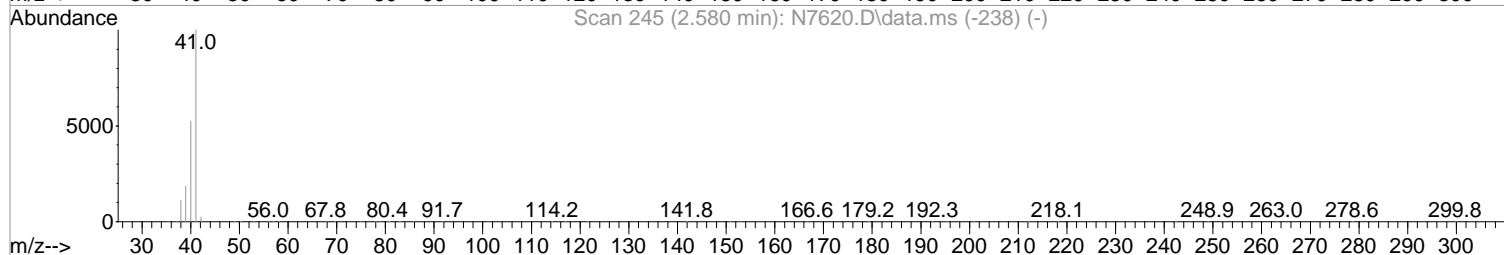
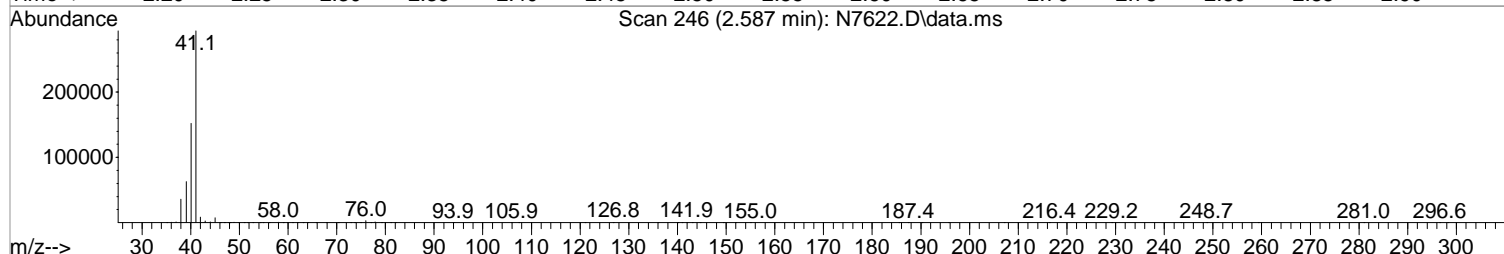
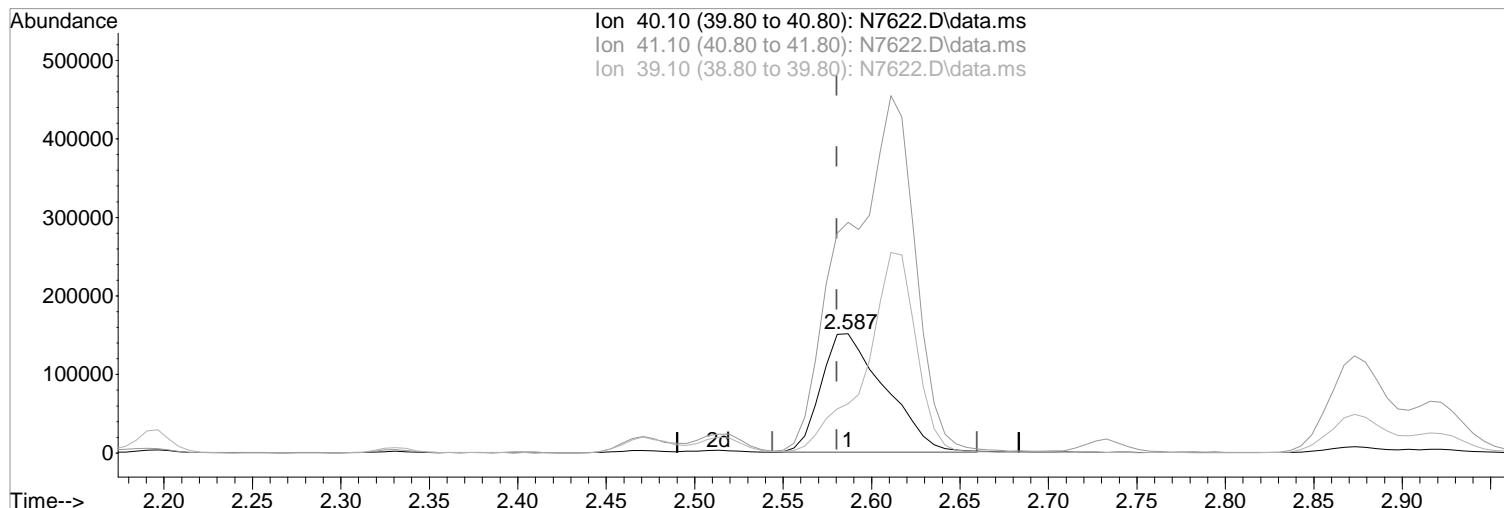
Ion	Exp%	Act%
40.10	100	100
41.10	187.50	193.43
39.10	41.20	41.39
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7622.D  
Acq On : 23 Aug 2017 1:56 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:57:11 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(19) Acetonitrile  
2.587min (+0.006) 996.99 ug/L  
response 379706

Manual Integration:  
Before

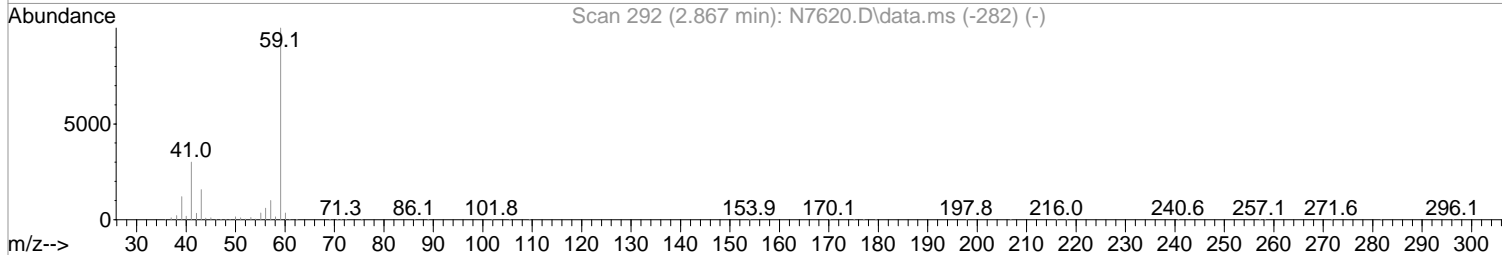
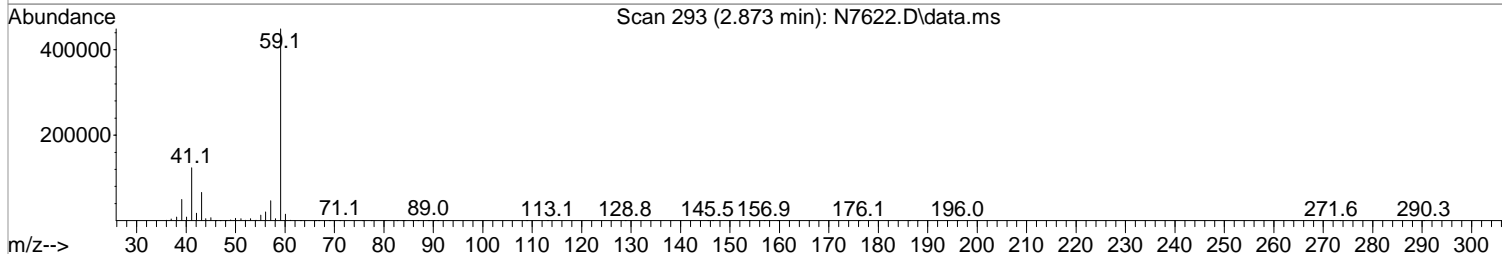
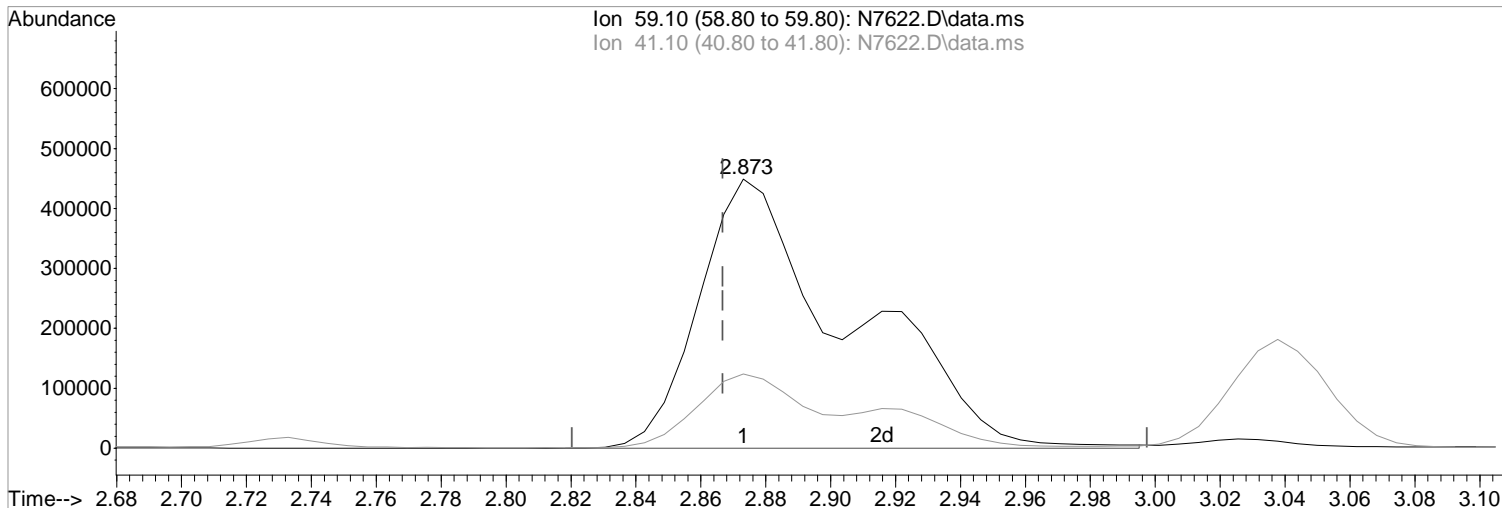
Ion	Exp%	Act%
40.10	100	100
41.10	187.50	193.43
39.10	41.20	41.39
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7622.D  
Acq On : 23 Aug 2017 1:56 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:57:11 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(23) TBA

2.873min (+0.006) 2694.19 ug/L m

response 1458845

Ion	Exp%	Act%
59.10	100	100
41.10	21.80	27.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

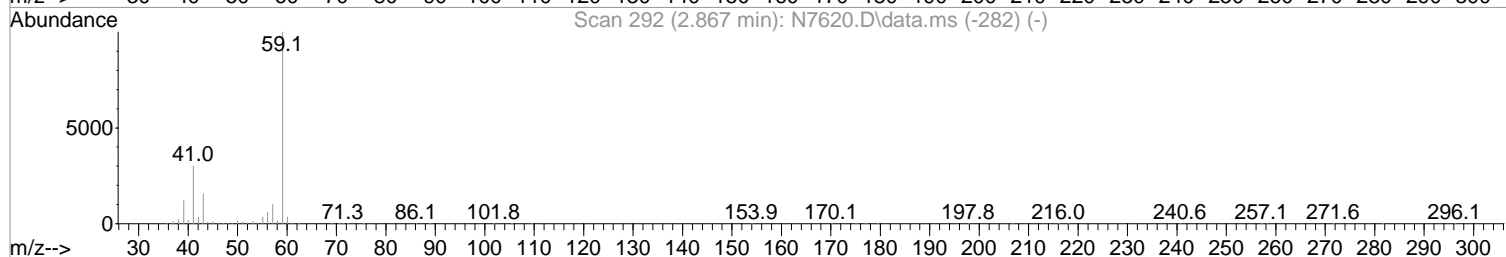
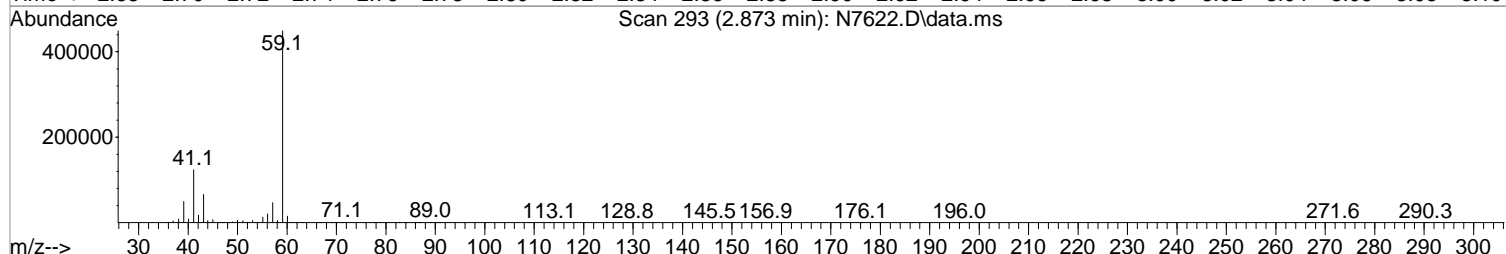
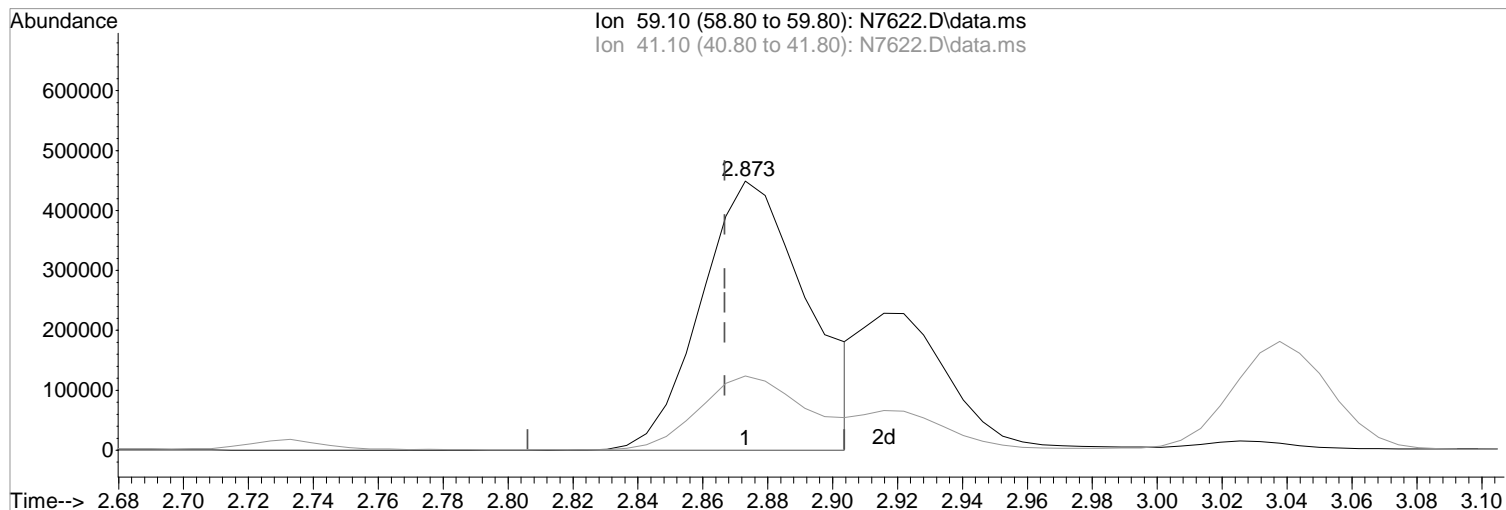
Poor integration.

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7622.D  
Acq On : 23 Aug 2017 1:56 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:57:11 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(23) TBA

2.873min (+0.006) 1883.55 ug/L

response 1019901

Ion	Exp%	Act%
59.10	100	100
41.10	21.80	27.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7622.D  
 Acq On : 23 Aug 2017 1:56 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 24 14:37:10 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.391	168	260364	50.00	ug/L	0.00	
41) 1,4-Difluorobenzene	6.488	114	384373	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.805	117	350301	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.853	152	194856	50.00	ug/L	0.00	
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.245	113	439315	180.10	ug/L	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery	=	360.20%#		
46) surr1,1,2-dichloroetha...	5.781	65	530985	186.15	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	372.30%#		
64) SURR3,Toluene-d8	8.311	98	1662476	175.76	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	351.52%#		
69) SURR2,BFB	10.878	95	689021	187.81	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	375.62%#		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.154	85	499418	191.36	ug/L		97
3) Chloromethane	1.282	50	810071	168.54	ug/L		100
4) Vinyl Chloride	1.361	62	600448	173.54	ug/L		95
5) Bromomethane	1.581	94	205608	97.37	ug/L		98
6) Chloroethane	1.654	64	340918	163.35	ug/L		99
7) Freon 21	1.812	67	751323	156.43	ug/L		100
8) Trichlorofluoromethane	1.855	101	543053	157.90	ug/L		98
9) Diethyl Ether	2.093	59	429993	153.42	ug/L #		79
10) Freon 123a	2.099	67	467118	149.76	ug/L		99
11) Freon 123	2.148	83	510589	150.35	ug/L		98
12) Acrolein	2.196	56	661739	800.66	ug/L		100
13) 1,1-Diclcethene	2.282	96	337138	144.06	ug/L #		88
14) Freon 113	2.288	101	330064	144.10	ug/L		97
15) Acetone	2.331	43	280756	121.74	ug/L		98
16) 2-Propanol	2.513	45	1130702m	2924.50	ug/L		
17) Iodomethane	2.416	142	594980	211.87	ug/L		96
18) Carbon Disulfide	2.477	76	988449	146.19	ug/L		99
19) Acetonitrile	2.587	40	272315m	715.01	ug/L		
20) Allyl Chloride	2.617	76	142408	115.33	ug/L #		1
21) Methyl Acetate	2.641	43	816297	112.57	ug/L		90
22) Methylene Chloride	2.733	84	355286	143.55	ug/L #		67
23) TBA	2.873	59	1458845m	2694.19	ug/L		
24) Acrylonitrile	2.989	53	1425176	782.18	ug/L		100
25) Methyl-t-Butyl Ether	3.038	73	1105806	136.47	ug/L		85
26) trans-1,2-Dichloroethene	3.026	96	360430	148.05	ug/L #		80
27) 1,1-Diclcethane	3.525	63	765499	158.57	ug/L		97
28) Vinyl Acetate	3.623	86	78118	164.35	ug/L #		9
29) DIPE	3.653	45	1918128	153.03	ug/L		92
30) 2-Chloro-1,3-Butadiene	3.653	53	760996	164.98	ug/L		85
31) ETBE	4.184	59	1347687	139.65	ug/L		91
32) 2,2-Dichloropropane	4.361	77	422412	128.73	ug/L		95
33) cis-1,2-Dichloroethene	4.367	96	407334	148.98	ug/L #		70
34) 2-Butanone	4.415	43	400553	146.36	ug/L		89
35) Propionitrile	4.501	54	588222	785.07	ug/L		94
36) Bromochloromethane	4.769	130	270585	145.59	ug/L #		66
37) Methacrylonitrile	4.769	67	212798	141.61	ug/L #		38
38) Tetrahydrofuran	4.861	42	237282	138.21	ug/L		73
39) Chloroform	4.952	83	596498	147.73	ug/L		95
40) 1,1,1-Trichloroethane	5.251	97	508278	143.71	ug/L		95



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7622.D  
 Acq On : 23 Aug 2017 1:56 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 24 14:37:10 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	525995	154.70	ug/L	84
44) Carbontetrachloride	5.531	117	425378	141.87	ug/L	97
45) 1,1-Dichloropropene	5.543	75	493765	150.76	ug/L	98
47) Benzene	5.860	78	1462242	144.97	ug/L	73
48) 1,2-Dichloroethane	5.903	62	579065	159.77	ug/L	91
49) Iso-Butyl Alcohol	5.915	43	830470	2936.37	ug/L	94
50) TAME	6.104	73	1006533	129.74	ug/L	89
51) n-Heptane	6.354	43	703553	157.65	ug/L	85
52) 1-Butanol	6.872	56	1141676	7416.78	ug/L	91
53) Trichloroethene	6.817	130	419020	155.18	ug/L	94
54) Methylcyclohexane	7.055	55	681248	162.08	ug/L #	71
55) 1,2-Diclpropane	7.098	63	473636	157.66	ug/L	97
56) Dibromomethane	7.238	93	244123	150.36	ug/L	97
57) 1,4-Dioxane	7.311	88	149621	3085.58	ug/L #	69
58) Methyl Methacrylate	7.330	69	332762	148.27	ug/L #	65
59) Bromodichloromethane	7.470	83	443573	147.70	ug/L	98
60) 2-Nitropropane	7.756	41	233697	226.17	ug/L	93
61) 2-Chloroethylvinyl Ether	7.878	63	178457	205.79	ug/L	91
62) cis-1,3-Dichloropropene	8.012	75	617804	154.40	ug/L	97
63) 4-Methyl-2-pentanone	8.220	43	713018	154.10	ug/L	92
65) Toluene	8.384	91	1627390	153.80	ug/L	99
66) trans-1,3-Dichloropropene	8.652	75	532336	152.40	ug/L	100
67) Ethyl Methacrylate	8.799	69	593351	154.89	ug/L #	74
68) 1,1,2-Trichloroethane	8.841	97	354557	145.00	ug/L #	88
71) Tetrachloroethene	8.976	164	313176	147.54	ug/L	95
72) 2-Hexanone	9.134	43	545481	150.96	ug/L	95
73) 1,3-Dichloropropane	9.012	76	636131	150.73	ug/L #	79
74) Dibromochloromethane	9.238	129	402412	147.91	ug/L	98
75) N-Butyl Acetate	9.293	43	1116180	155.79	ug/L	97
76) 1,2-Dibromoethane	9.335	107	386272	152.99	ug/L	97
77) 3-Chlorobenzotrifluoride	9.847	180	616125	148.88	ug/L	97
78) Chlorobenzene	9.829	112	1090172	147.07	ug/L	99
79) 4-Chlorobenzotrifluoride	9.902	180	553284	146.07	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.914	131	390246	148.15	ug/L	97
81) Ethylbenzene	9.951	106	575149	153.76	ug/L	97
82) (m+p)Xylene	10.061	106	1449672	300.71	ug/L	94
83) o-Xylene	10.420	106	722975	154.62	ug/L	92
84) Styrene	10.433	104	1224481	154.99	ug/L	97
85) Bromoform	10.585	173	268718	152.27	ug/L	94
86) 2-Chlorobenzotrifluoride	10.664	180	614694	151.72	ug/L	97
87) Isopropylbenzene	10.756	105	1847788	155.99	ug/L	99
88) Cyclohexanone	10.823	55	2405096	3532.09	ug/L	93
89) trans-1,4-Dichloro-2-B...	11.067	53	154348	149.40	ug/L	91
91) 1,1,2,2-Tetrachloroethane	11.018	83	539652	140.83	ug/L	97
92) Bromobenzene	11.000	156	489841	142.22	ug/L	95
93) 1,2,3-Trichloropropane	11.042	110	165483	134.25	ug/L	92
94) n-Propylbenzene	11.109	91	2157919	149.61	ug/L	99
95) 2-Chlorotoluene	11.176	91	1266519	148.70	ug/L	94
96) 3-Chlorotoluene	11.225	91	1351699	145.29	ug/L	97
97) 4-Chlorotoluene	11.268	91	1470257	150.81	ug/L	98
98) 1,3,5-Trimethylbenzene	11.262	105	1559333	152.06	ug/L	99
99) tert-Butylbenzene	11.536	119	1407131	148.28	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	1613944	149.50	ug/L	93
101) 3,4-Dichlorobenzotrifl...	11.634	214	472495	144.53	ug/L	99
102) sec-Butylbenzene	11.719	105	2043097	152.96	ug/L	97
103) p-Isopropyltoluene	11.841	119	1757396	152.22	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7622.D  
 Acq On : 23 Aug 2017 1:56 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 24 14:37:10 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

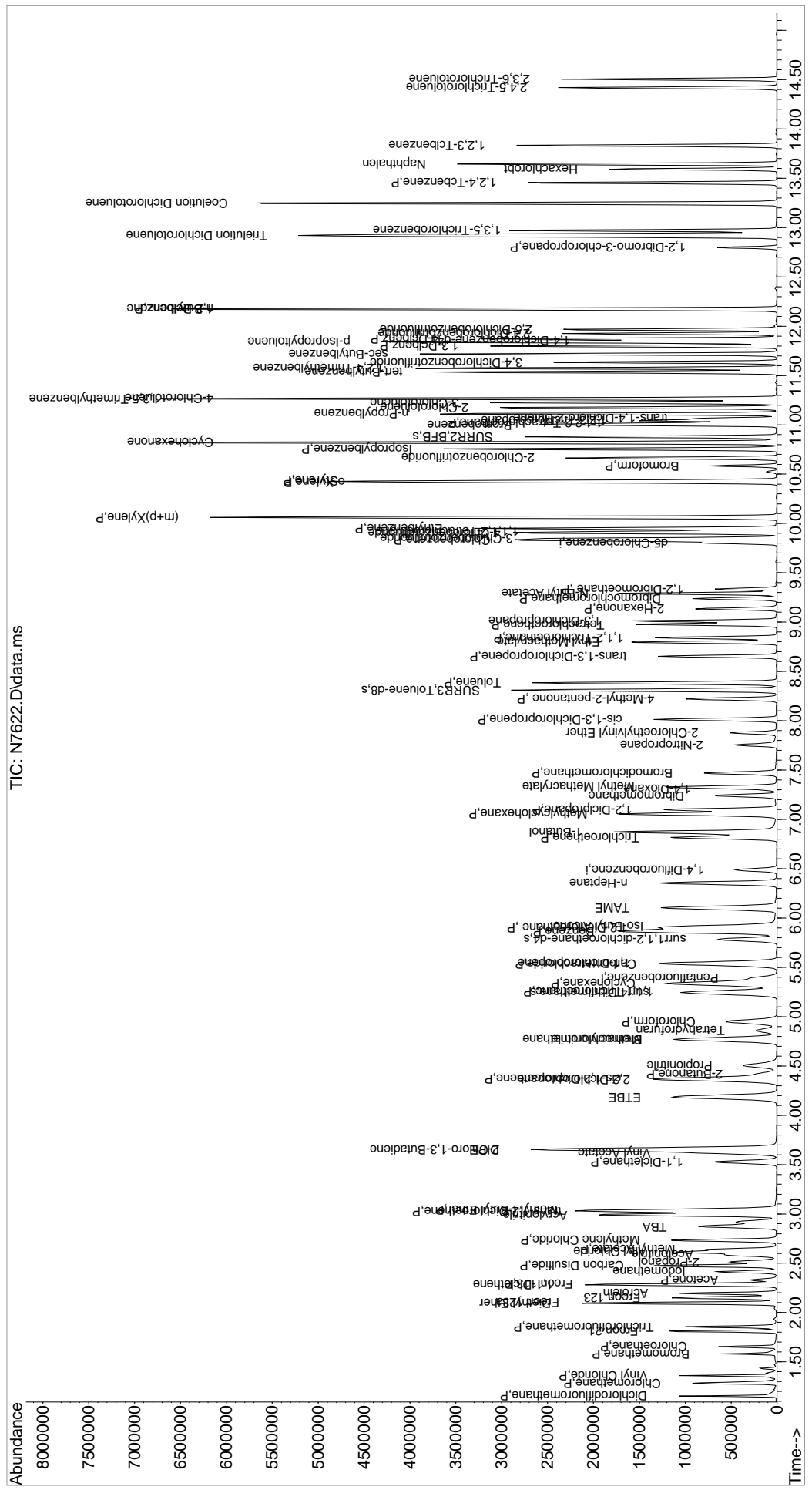
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	947716	147.17	ug/L	98
105) 1,4-Dclbenz	11.871	146	964524	145.64	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	427690	145.85	ug/L	100
107) 2,5-Dichlorobenzotrifl...	11.969	214	490062	147.11	ug/L	98
108) n-Butylbenzene	12.176	91	1564969	159.03	ug/L	97
109) 1,2-Dclbenz	12.176	146	939741	144.53	ug/L	100
110) 1,2-Dibromo-3-chloropr...	12.798	157	134419	144.50	ug/L	96
111) Trielution Dichlorotol...	12.920	125	2563715	438.10	ug/L	97
112) 1,3,5-Trichlorobenzene	12.975	180	705778	148.56	ug/L	99
113) Coelution Dichlorotoluene	13.249	125	1865223	298.87	ug/L	97
114) 1,2,4-Tcbenzene	13.456	180	684327	155.36	ug/L	98
115) Hexachlorobt	13.591	225	266842	155.78	ug/L	99
116) Naphthalen	13.645	128	2038074	157.82	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	682981	156.48	ug/L	98
118) 2,4,5-Trichlorotoluene	14.420	159	488839	177.44	ug/L	98
119) 2,3,6-Trichlorotoluene	14.505	159	438300	177.06	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\082317\  
Data File : N7622.D  
Acq On : 23 Aug 2017 1:56 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1  
Quant Time: Aug 24 14:37:10 2017  
Quant Method : I:\ACQDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration

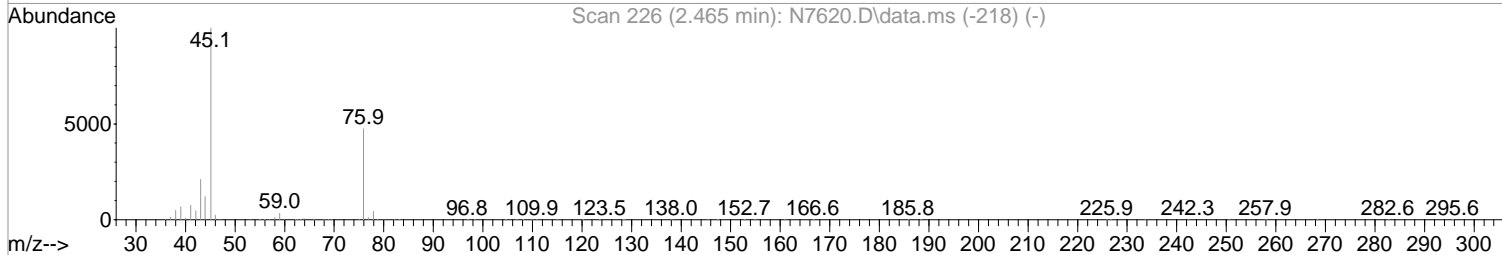
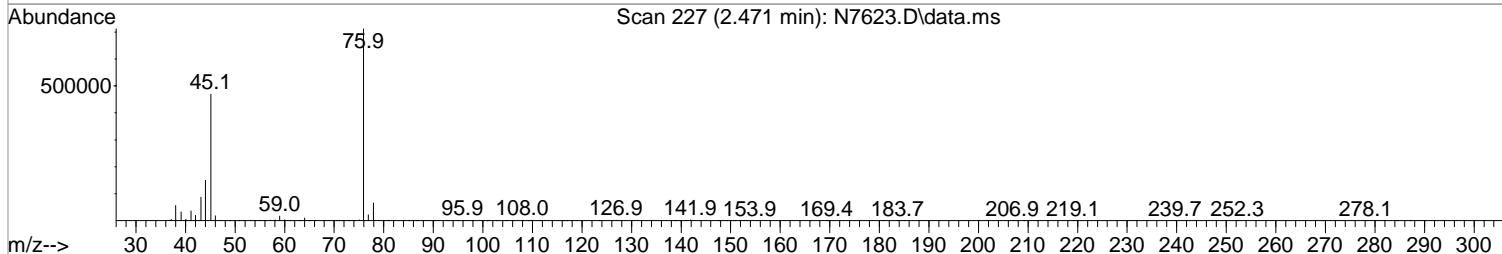
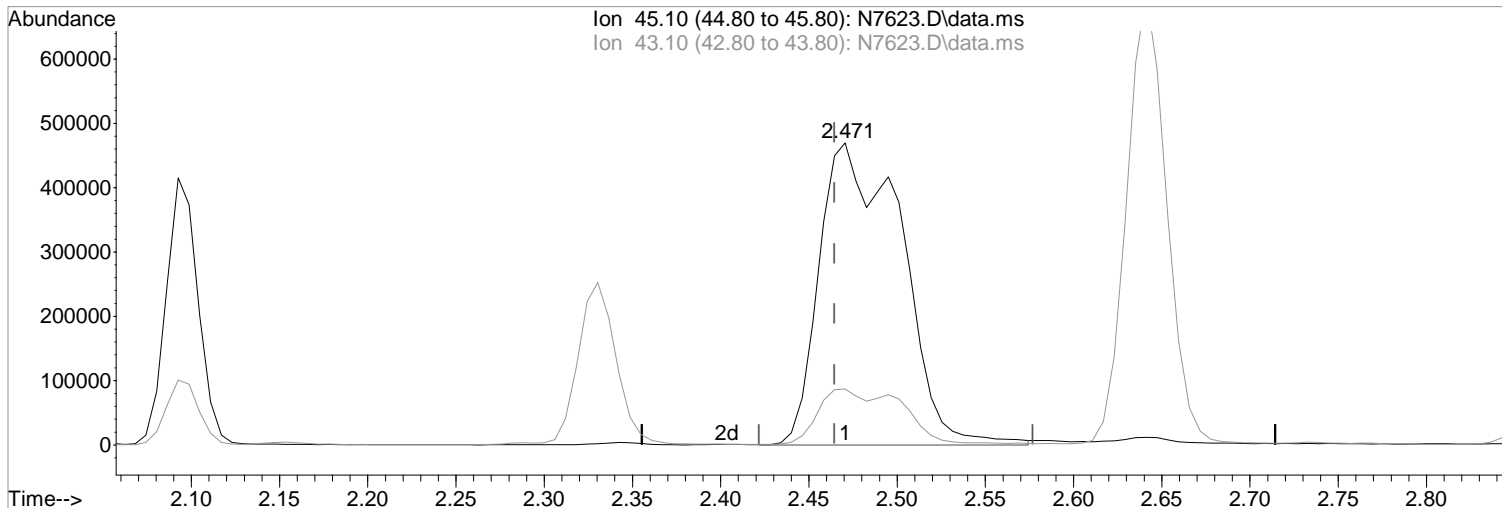
Inst : MSVOA10



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7623.D  
Acq On : 23 Aug 2017 2:18 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 14:26:04 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



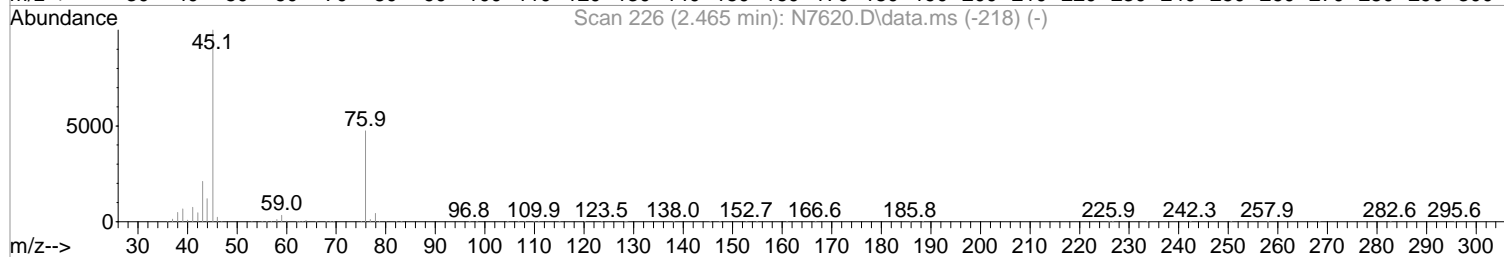
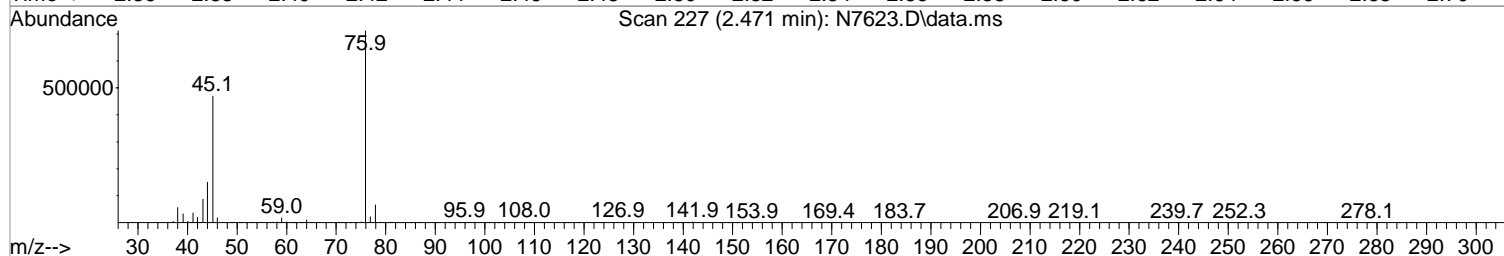
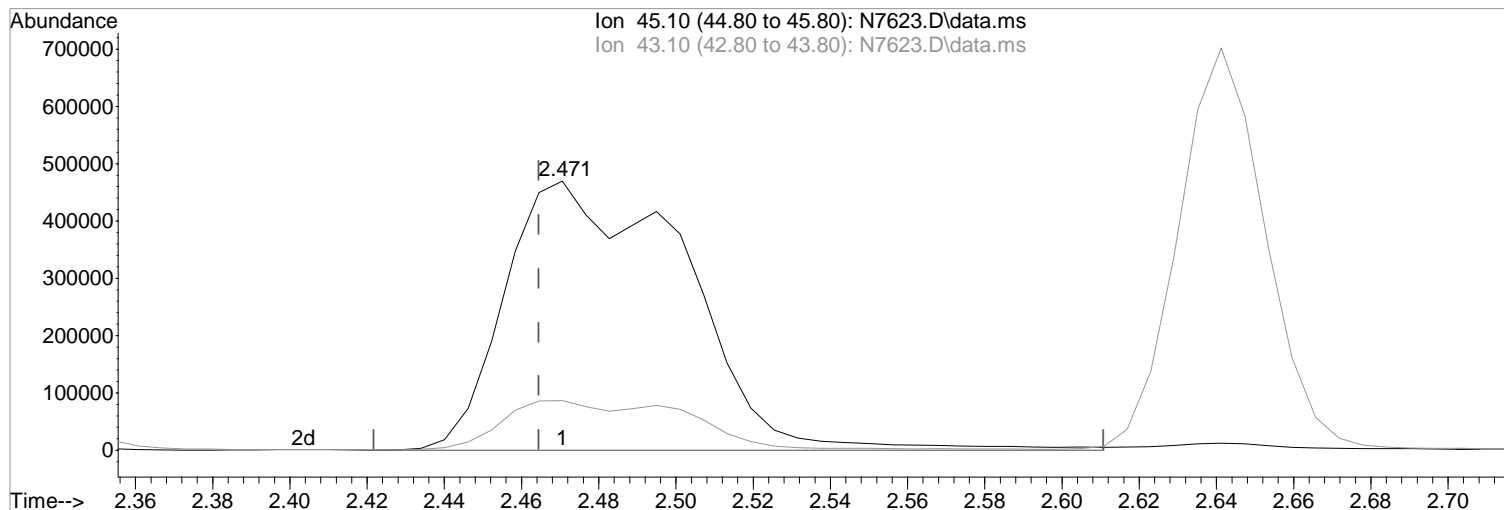
(16) 2-Propanol  
2.471min (+0.006) 3813.51 ug/L m  
response 1516933  
Ion Exp% Act%  
45.10 100 100  
43.10 20.30 18.48  
0.00 0.00 0.00  
0.00 0.00 0.00

Manual Integration:  
After  
Poor integration.  
08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7623.D  
Acq On : 23 Aug 2017 2:18 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:57:21 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



TIC: N7623.D\data.ms

(16) 2-Propanol  
2.471min (+0.006) 3839.35 ug/L  
response 1527212

Manual Integration:

Before

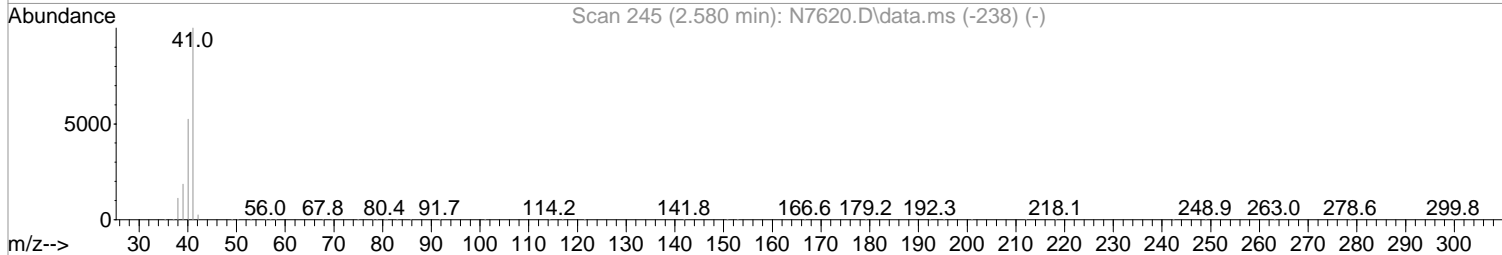
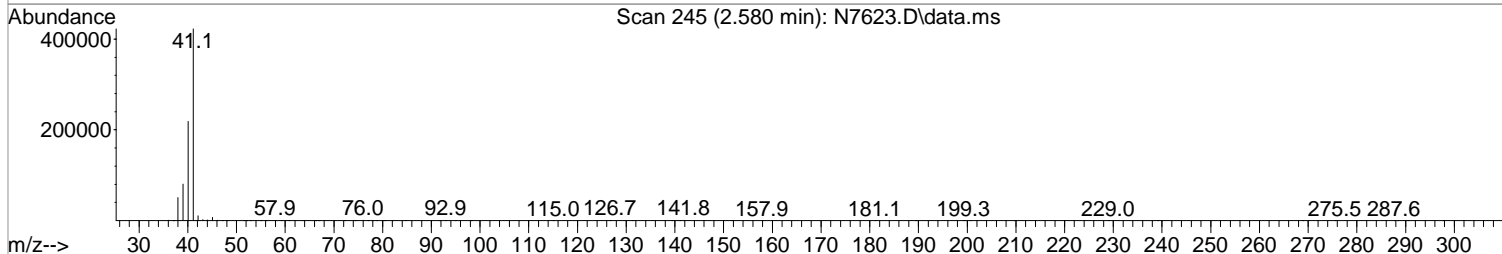
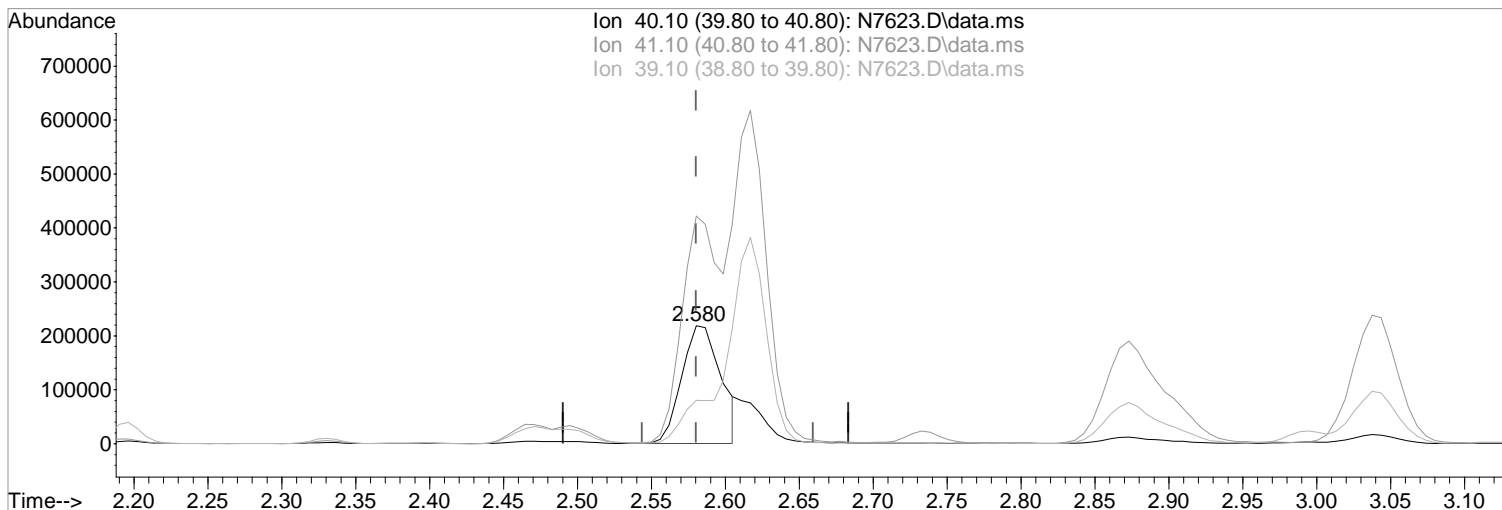
08/24/17

Ion	Exp%	Act%
45.10	100	100
43.10	20.30	18.48
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7623.D  
Acq On : 23 Aug 2017 2:18 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:57:21 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(19) Acetonitrile

2.580min (-0.000) 1031.35 ug/L m

response 404119

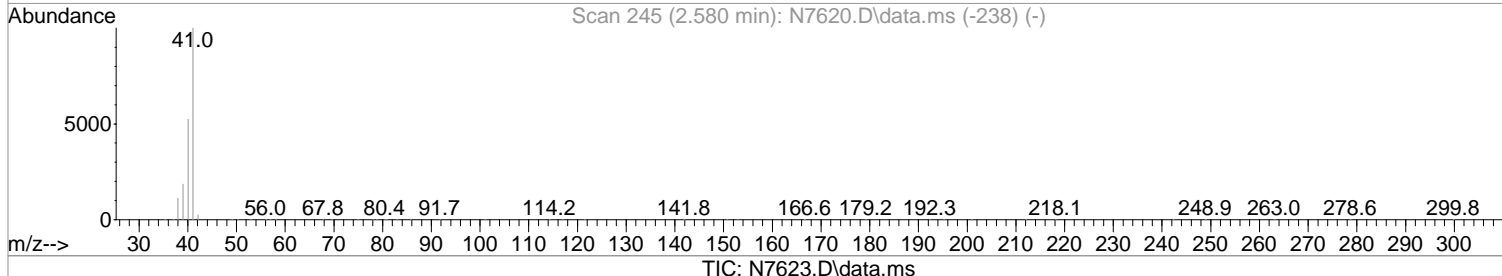
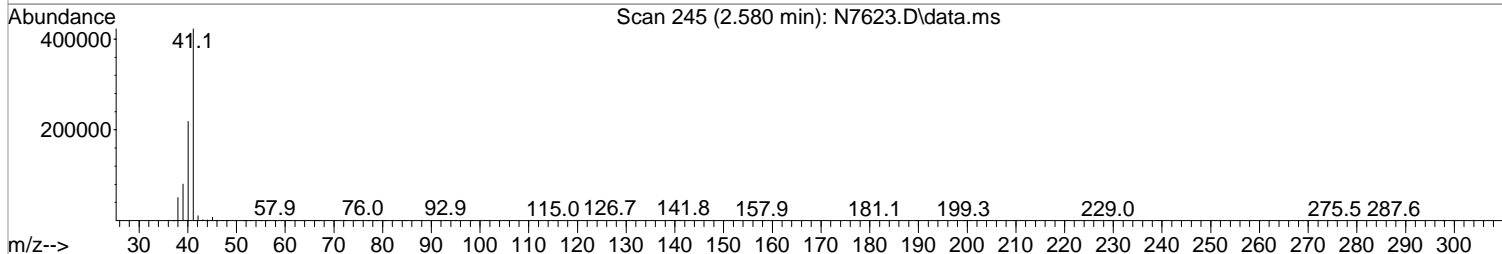
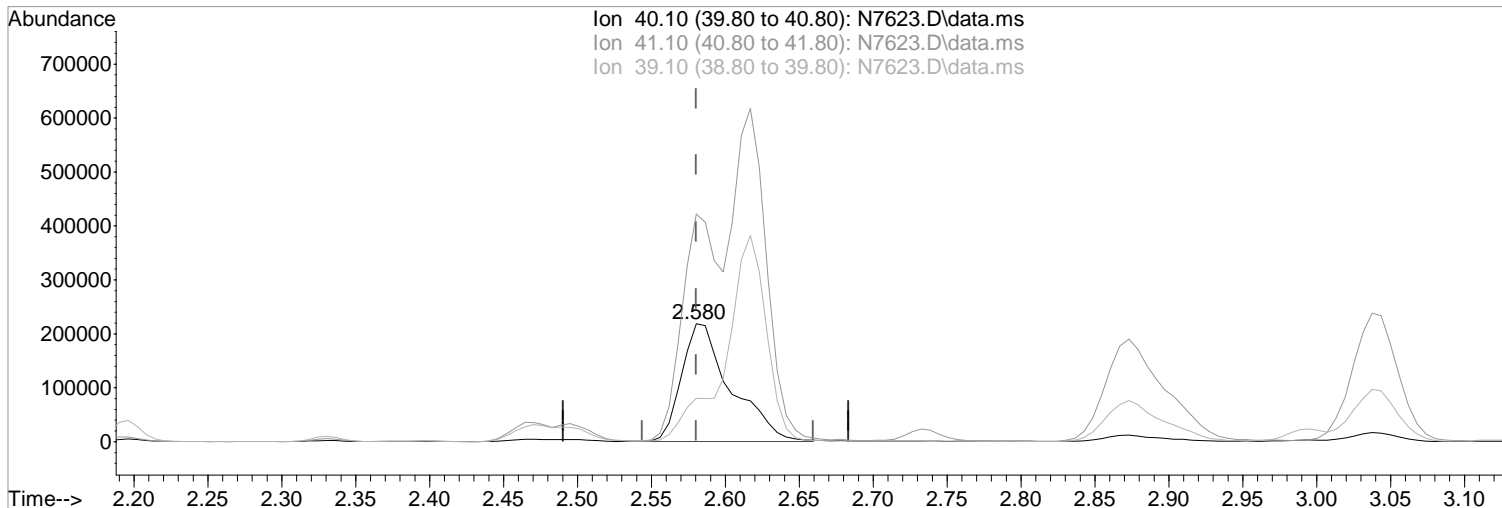
Ion	Exp%	Act%
40.10	100	100
41.10	187.50	193.27
39.10	41.20	36.83
0.00	0.00	0.00

Manual Integration:  
After  
Poor integration.  
08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
Data File : N7623.D  
Acq On : 23 Aug 2017 2:18 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Aug 24 13:57:21 2017  
Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
Quant Title : MS#10 - 8260B WATERS 10mL Purge  
QLast Update : Thu Aug 24 13:56:02 2017  
Response via : Initial Calibration



(19) Acetonitrile  
2.580min (-0.000) 1286.83 ug/L  
response 504223

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	187.50	193.27
39.10	41.20	36.83
0.00	0.00	0.00

08/24/17

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7623.D  
 Acq On : 23 Aug 2017 2:18 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 24 14:37:54 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	5.391	168	267871	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	396009	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	363503	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	196015	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
43) surr4,Dibrflmethane	5.244	113	123217	49.03	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	98.06%		
46) surr1,1,2-dichloroetha...	5.787	65	151670	51.61	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	103.22%		
64) SURR3,Toluene-d8	8.311	98	475312	48.78	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	97.56%		
69) SURR2,BFB	10.877	95	195733	51.79	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	103.58%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.154	85	676834	252.07	ug/L	98
3) Chloromethane	1.282	50	1095197	221.48	ug/L	100
4) Vinyl Chloride	1.361	62	811864	228.06	ug/L	95
5) Bromomethane	1.580	94	305842	140.78	ug/L	96
6) Chloroethane	1.660	64	464438	216.30	ug/L	99
7) Freon 21	1.812	67	1035079	209.47	ug/L	99
8) Trichlorofluoromethane	1.861	101	742587	209.87	ug/L	98
9) Diethyl Ether	2.093	59	588090	203.94	ug/L #	77
10) Freon 123a	2.099	67	636340	198.29	ug/L	98
11) Freon 123	2.154	83	707762	202.57	ug/L	97
12) Acrolein	2.196	56	884115	1039.74	ug/L	99
13) 1,1-Dicethene	2.288	96	468150	194.44	ug/L	92
14) Freon 113	2.288	101	452314	191.93	ug/L	100
15) Acetone	2.330	43	374161	157.70	ug/L	98
16) 2-Propanol	2.471	45	1516933m	3813.51	ug/L	
17) Iodomethane	2.416	142	831608	287.83	ug/L	97
18) Carbon Disulfide	2.477	76	1385320	199.15	ug/L	100
19) Acetonitrile	2.580	40	404119m	1031.35	ug/L	
20) Allyl Chloride	2.617	76	211464	166.45	ug/L #	1
21) Methyl Acetate	2.641	43	1095557	146.84	ug/L	90
22) Methylene Chloride	2.733	84	490241	192.53	ug/L #	68
23) TBA	2.873	59	1983511	3560.48	ug/L	90
24) Acrylonitrile	2.995	53	1890235	1008.34	ug/L	99
25) Methyl-t-Butyl Ether	3.038	73	1519459	182.27	ug/L	86
26) trans-1,2-Dichloroethene	3.031	96	498795	199.14	ug/L #	82
27) 1,1-Dicethane	3.531	63	1050907	211.59	ug/L	98
28) Vinyl Acetate	3.623	86	106772	218.34	ug/L #	3
29) DIPE	3.659	45	2630281	203.97	ug/L	91
30) 2-Chloro-1,3-Butadiene	3.653	53	1058193	222.99	ug/L	85
31) ETBE	4.184	59	1893653	190.73	ug/L	92
32) 2,2-Dichloropropane	4.367	77	610161	180.73	ug/L	95
33) cis-1,2-Dichloroethene	4.373	96	565692	201.09	ug/L #	74
34) 2-Butanone	4.421	43	529839	188.18	ug/L	91
35) Propionitrile	4.507	54	764246	991.42	ug/L	96
36) Bromochloromethane	4.769	130	374038	195.61	ug/L #	68
37) Methacrylonitrile	4.775	67	284212	183.83	ug/L #	40
38) Tetrahydrofuran	4.860	42	322018	182.31	ug/L	71
39) Chloroform	4.952	83	823693	198.28	ug/L	95
40) 1,1,1-Trichloroethane	5.250	97	706571	194.18	ug/L	94



Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7623.D  
 Acq On : 23 Aug 2017 2:18 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 24 14:37:54 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	716164	204.44	ug/L	85
44) Carbontetrachloride	5.537	117	602496	195.04	ug/L	98
45) 1,1-Dichloropropene	5.543	75	680740	201.74	ug/L	96
47) Benzene	5.866	78	1997770	192.24	ug/L	75
48) 1,2-Dichloroethane	5.903	62	793201	212.43	ug/L	91
49) Iso-Butyl Alcohol	5.897	43	1110759	3812.02	ug/L	95
50) TAME	6.104	73	1406716	176.00	ug/L	88
51) n-Heptane	6.354	43	947326	206.04	ug/L	86
52) 1-Butanol	6.866	56	1542518	9726.37	ug/L	92
53) Trichloroethene	6.817	130	575680	206.93	ug/L	95
54) Methylcyclohexane	7.055	55	929001	214.53	ug/L #	71
55) 1,2-Diclpropane	7.098	63	652141	210.70	ug/L	97
56) Dibromomethane	7.244	93	336346	201.08	ug/L	95
57) 1,4-Dioxane	7.305	88	191259	3828.37	ug/L #	71
58) Methyl Methacrylate	7.329	69	454407	196.52	ug/L #	62
59) Bromodichloromethane	7.470	83	618461	199.89	ug/L	98
60) 2-Nitropropane	7.756	41	341533	320.82	ug/L	94
61) 2-Chloroethylvinyl Ether	7.878	63	243611	272.66	ug/L	89
62) cis-1,3-Dichloropropene	8.012	75	858749	208.32	ug/L	97
63) 4-Methyl-2-pentanone	8.219	43	952915	199.90	ug/L	92
65) Toluene	8.384	91	2221802	203.81	ug/L	99
66) trans-1,3-Dichloropropene	8.652	75	751913	208.93	ug/L	99
67) Ethyl Methacrylate	8.799	69	810720	205.42	ug/L #	71
68) 1,1,2-Trichloroethane	8.841	97	486337	193.04	ug/L #	86
71) Tetrachloroethene	8.975	164	430697	195.54	ug/L	95
72) 2-Hexanone	9.134	43	732967	195.48	ug/L	95
73) 1,3-Dichloropropane	9.012	76	863413	197.15	ug/L #	78
74) Dibromochloromethane	9.238	129	568856	201.49	ug/L	99
75) N-Butyl Acetate	9.292	43	1525710	205.21	ug/L	98
76) 1,2-Dibromoethane	9.335	107	530245	202.38	ug/L	97
77) 3-Chlorobenzotrifluoride	9.853	180	855635	199.24	ug/L	97
78) Chlorobenzene	9.829	112	1508406	196.10	ug/L	99
79) 4-Chlorobenzotrifluoride	9.902	180	770988	196.16	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.914	131	549767	201.13	ug/L	98
81) Ethylbenzene	9.951	106	786709	202.68	ug/L	98
82) (m+p)Xylene	10.067	106	1977108	395.22	ug/L	92
83) o-Xylene	10.420	106	988956	203.82	ug/L	94
84) Styrene	10.432	104	1677346	204.60	ug/L	98
85) Bromoform	10.585	173	376267	205.47	ug/L	98
86) 2-Chlorobenzotrifluoride	10.664	180	856273	203.67	ug/L	96
87) Isopropylbenzene	10.756	105	2506445	203.91	ug/L	99
88) Cyclohexanone	10.823	55	3124409	4421.82	ug/L	96
89) trans-1,4-Dichloro-2-B...	11.066	53	208581	194.57	ug/L	92
91) 1,1,2,2-Tetrachloroethane	11.018	83	711477	184.58	ug/L	97
92) Bromobenzene	10.999	156	671174	193.72	ug/L	95
93) 1,2,3-Trichloropropane	11.042	110	218300	176.05	ug/L #	89
94) n-Propylbenzene	11.115	91	2890440	199.21	ug/L	96
95) 2-Chlorotoluene	11.176	91	1711471	199.75	ug/L	95
96) 3-Chlorotoluene	11.225	91	1811333	193.55	ug/L	97
97) 4-Chlorotoluene	11.268	91	1974485	201.34	ug/L	98
98) 1,3,5-Trimethylbenzene	11.262	105	2068042	200.47	ug/L	99
99) tert-Butylbenzene	11.536	119	1857875	194.62	ug/L	98
100) 1,2,4-Trimethylbenzene	11.572	105	2112755	194.55	ug/L	93
101) 3,4-Dichlorobenzotrifl...	11.640	214	637238	193.77	ug/L	99
102) sec-Butylbenzene	11.719	105	2660299	197.99	ug/L	97
103) p-Isopropyltoluene	11.841	119	2262858	194.84	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7623.D  
 Acq On : 23 Aug 2017 2:18 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA10  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

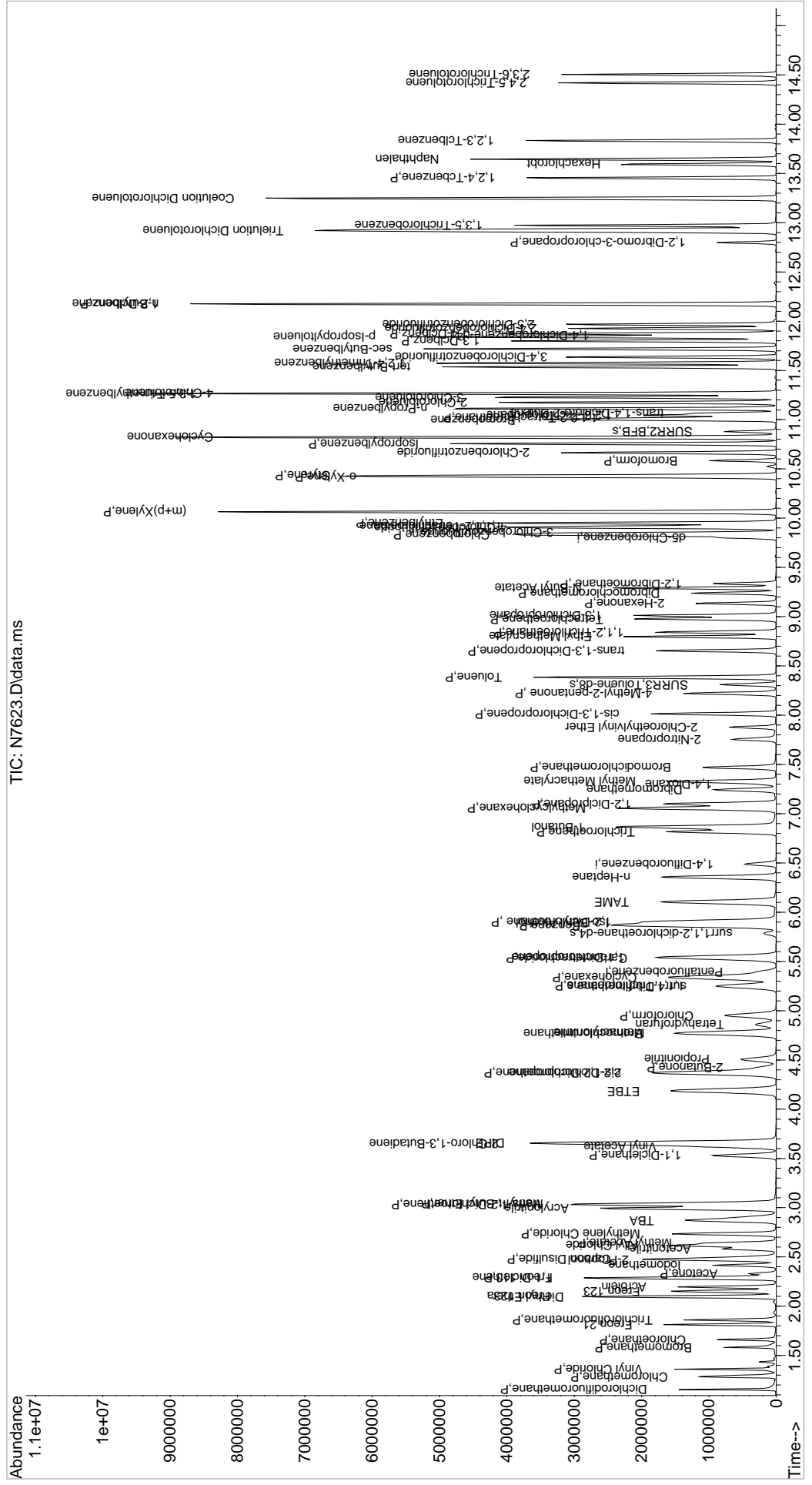
Quant Time: Aug 24 14:37:54 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	1235505	190.73	ug/L	98
105) 1,4-Dclbenz	11.871	146	1256891	188.67	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	586446	198.81	ug/L	100
107) 2,5-Dichlorobenzotrifl...	11.969	214	637574	190.26	ug/L	99
108) n-Butylbenzene	12.176	91	2009860	203.03	ug/L	97
109) 1,2-Dclbenz	12.176	146	1223514	187.06	ug/L	100
110) 1,2-Dibromo-3-chloropr...	12.798	157	180760	193.17	ug/L	97
111) Trielution Dichlorotol...	12.920	125	3402278	577.96	ug/L	97
112) 1,3,5-Trichlorobenzene	12.975	180	932500	195.12	ug/L	100
113) Coelution Dichlorotoluene	13.249	125	2473410	393.98	ug/L	98
114) 1,2,4-Tcbenzene	13.456	180	896326	202.28	ug/L	98
115) Hexachlorobt	13.596	225	348855	202.46	ug/L	100
116) Naphthalen	13.645	128	2647455	203.80	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	904524	206.01	ug/L	97
118) 2,4,5-Trichlorotoluene	14.419	159	655930	236.68	ug/L	97
119) 2,3,6-Trichlorotoluene	14.505	159	587716	236.01	ug/L	97

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

Data Path : I:\ACQUDATA\msvoa10\data\082317\  
 Data File : N7623.D  
 Acq On : 23 Aug 2017 2:18 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Aug 24 14:37:54 2017  
 Quant Method : I:\ACQUDATA\msvoa10\Methods\W082317.M  
 Quant Title : MS#10 - 8260B WATERS 10mL Purge  
 QLast Update : Thu Aug 24 13:56:02 2017  
 Response via : Initial Calibration



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Environneering, Inc. (Houston)  
Project: PDI Workplan Olean NY

Service Request: R1709205  
Calibration Date: 8/24/2017

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1700082  
Instrument ID: R-MS-06

Signal ID: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1700082-10	STD #1 - 0.5 PPB	I:\ACQUADATA\MSVOA6\DATA\082417\D7723.D	08/24/2017 09:44
09	RC1700082-09	STD #2 - 1.0 PPB	I:\ACQUADATA\MSVOA6\DATA\082417\D7724.D	08/24/2017 10:25
08	RC1700082-08	STD #3 - 2.0 PPB	I:\ACQUADATA\MSVOA6\DATA\082417\D7725.D	08/24/2017 10:53
07	RC1700082-07	STD #4 - 5.0 PPB	I:\ACQUADATA\MSVOA6\DATA\082417\D7726.D	08/24/2017 11:33
06	RC1700082-06	STD #5 - 20 PPB	I:\ACQUADATA\MSVOA6\DATA\082417\D7727.D	08/24/2017 12:00
05	RC1700082-05	STD #6 - 50 PPB	I:\ACQUADATA\MSVOA6\DATA\082417\D7728.D	08/24/2017 12:27
04	RC1700082-04	STD #7 - 100 PPB	I:\ACQUADATA\MSVOA6\DATA\082417\D7729.D	08/24/2017 13:07
03	RC1700082-03	STD #8 - 150 PPB	I:\ACQUADATA\MSVOA6\DATA\082417\D7730.D	08/24/2017 13:34
02	RC1700082-02	STD #9 - 200 PPB	I:\ACQUADATA\MSVOA6\DATA\082417\D7731.D	08/24/2017 14:08

Analyte

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.616	09	1.000	0.5665	08	2.000	0.6134	07	5.000	0.6011
06	20.000	0.5926	05	50.000	0.5881	04	100.000	0.6034	03	150.000	0.6027
02	200.000	0.5887									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4083	09	1.000	0.3035	08	2.000	0.3079	07	5.000	0.319
06	20.000	0.3262	05	50.000	0.3119	04	100.000	0.3218	03	150.000	0.3123
02	200.000	0.3073									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.6011	09	1.000	0.5808	08	2.000	0.6636	07	5.000	0.5687
06	20.000	0.6044	05	50.000	0.5767	04	100.000	0.6162	03	150.000	0.6589
02	200.000	0.6245									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.4352	08	2.000	0.3988	07	5.000	0.3758	06	20.000	0.4057
05	50.000	0.3835	04	100.000	0.3862	03	150.000	0.3776	02	200.000	0.3727

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3799	09	1.000	0.4339	08	2.000	0.3451	07	5.000	0.3729
06	20.000	0.3858	05	50.000	0.3501	04	100.000	0.3577	03	150.000	0.346
02	200.000	0.332									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	1.015	08	60.000	0.8919	07	70.000	0.9273	06	100.000	0.8613
04	125.000	0.9428	03	150.000	0.9808						

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY

**Service Request:** R1709205  
**Calibration Date:** 8/24/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1700082  
**Instrument ID:** R-MS-06

**Signal ID:** 1

**Analyte**

**Dibromofluoromethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	0.3721	08	60.000	0.363	07	70.000	0.3629	06	100.000	0.3408
04	125.000	0.3559	03	150.000	0.3569						

**Toluene-d8**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	1.109	08	60.000	1.077	07	70.000	1.04	06	100.000	0.9732
04	125.000	0.9457	03	150.000	0.9299						

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY

**Service Request:** R1709205  
**Calibration Date:** 8/24/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1700082  
**Instrument ID:** R-MS-06

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	2.5	20	0.597	0.200
Trichloroethene (TCE)	TRG	Average RF	% RSD	10.0	20	0.3242	0.200
Vinyl Chloride	TRG	Average RF	% RSD	5.6	20	0.6105	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.3	20	0.3919	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	8.4	20	0.367	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	6.0	20	0.9365	
Dibromofluoromethane	SURR	Average RF	% RSD	2.9	20	0.3586	
Toluene-d8	SURR	Average RF	% RSD	7.3	20	1.012	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Enviroengineering, Inc. (Houston)  
Project: PDI Workplan Olean NY

Service Request: R1709205  
Calibration Date: 8/23/2017

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1700080  
Instrument ID: R-MS-10

Signal ID: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1700080-01	0.5 PPB STD	I:\ACQUADATA\msvoa10\data\082317\N7615.D	08/23/2017 11:23
02	RC1700080-02	1.0 PPB STD	I:\ACQUADATA\msvoa10\data\082317\N7616.D	08/23/2017 11:45
03	RC1700080-03	2.0 PPB STD	I:\ACQUADATA\msvoa10\data\082317\N7617.D	08/23/2017 12:07
04	RC1700080-04	5.0 PPB STD	I:\ACQUADATA\msvoa10\data\082317\N7618.D	08/23/2017 12:29
05	RC1700080-05	50 PPB STD	I:\ACQUADATA\msvoa10\data\082317\N7620.D	08/23/2017 13:13
06	RC1700080-06	100 PPB STD	I:\ACQUADATA\msvoa10\data\082317\N7621.D	08/23/2017 13:34
07	RC1700080-07	150 PPB STD	I:\ACQUADATA\msvoa10\data\082317\N7622.D	08/23/2017 13:56
08	RC1700080-08	200 PPB STD	I:\ACQUADATA\msvoa10\data\082317\N7623.D	08/23/2017 14:18

Analyte

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3113	02	1.000	0.2893	03	2.000	0.3066	04	5.000	0.3081
05	50.000	0.2965	06	100.000	0.2622	07	150.000	0.298	08	200.000	0.2962

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2968	02	1.000	0.329	03	2.000	0.3413	04	5.000	0.3575
05	50.000	0.356	06	100.000	0.3326	07	150.000	0.3634	08	200.000	0.3634

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7008	02	1.000	0.6083	03	2.000	0.6448	04	5.000	0.6908
05	50.000	0.7523	06	100.000	0.693	07	150.000	0.7687	08	200.000	0.7577

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.531	02	1.000	0.4948	03	2.000	0.5183	04	5.000	0.519
05	50.000	0.5348	06	100.000	0.4945	07	150.000	0.5215	08	200.000	0.528

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4084	02	1.000	0.4777	03	2.000	0.4228	04	5.000	0.4556
05	50.000	0.4565	06	100.000	0.4319	07	150.000	0.4614	08	200.000	0.4655

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.54	05	50.000	0.4689	06	100.000	0.4676	07	200.000	0.4481

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.352	05	50.000	0.314	06	100.000	0.3045	07	200.000	0.2857

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.341	05	50.000	1.175	06	100.000	1.147	07	200.000	1.081

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY

**Service Request:** R1709205  
**Calibration Date:** 8/23/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1700080  
**Instrument ID:** R-MS-10

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	5.2	20	0.296	0.200
Trichloroethene (TCE)	TRG	Average RF	% RSD	6.7	20	0.3425	0.200
Vinyl Chloride	TRG	Average RF	% RSD	8.0	20	0.702	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	3.0	20	0.5177	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	5.3	20	0.4475	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	8.4	20	0.4812	
Dibromofluoromethane	SURR	Average RF	% RSD	8.9	20	0.314	
Toluene-d8	SURR	Average RF	% RSD	9.3	20	1.186	



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QA/QC Report

**Client:** Enviroengineering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY

**Service Request:** R1709205  
**Calibration Date:** 8/24/2017

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1700082  
**Instrument ID:** R-MS-06

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1700082-01	ICV	I:\ACQUDATA\MSVOA6\DATA\082417\D7735.D	08/24/2017 16:05

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	51.3	5.97E-1	6.124E-1	2.59	±30	Average RF
Trichloroethene (TCE)	50.0	50.5	3.242E-1	3.274E-1	0.976	±30	Average RF
Vinyl Chloride	50.0	57.6	6.105E-1	7.037E-1	15.25	±30	Average RF
cis-1,2-Dichloroethene	50.0	50.2	3.919E-1	3.935E-1	0.407	±30	Average RF
trans-1,2-Dichloroethene	50.0	46.8	3.67E-1	3.437E-1	-6.355	±30	Average RF
4-Bromofluorobenzene	50.0	54.2	9.365E-1	1.015E0	8.38	±30	Average RF
Dibromofluoromethane	50.0	52.0	3.586E-1	3.728E-1	3.95	±30	Average RF
Toluene-d8	50.0	55.1	1.012E0	1.115E0	10.16	±30	Average RF

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QA/QC Report

**Client:** Environeering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY

**Service Request:** R1709205  
**Calibration Date:** 8/23/2017

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1700080  
**Instrument ID:** R-MS-10

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1700080-09	50 PPB ICV	I:\ACQUADATA\msvoa10\data\082317\N7626.D	08/23/2017 15:24

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	46.5	2.96E-1	2.754E-1	-6.977	±30	Average RF
Trichloroethene (TCE)	50.0	47.1	3.425E-1	3.223E-1	-5.889	±30	Average RF
Vinyl Chloride	50.0	54.9	7.02E-1	7.715E-1	9.89	±30	Average RF
cis-1,2-Dichloroethene	50.0	45.8	5.177E-1	4.744E-1	-8.367	±30	Average RF
trans-1,2-Dichloroethene	50.0	44.3	4.475E-1	3.964E-1	-11.419	±30	Average RF
4-Bromofluorobenzene	50.0	47.6	4.812E-1	4.582E-1	-4.772	±30	Average RF
Dibromofluoromethane	50.0	49.0	3.14E-1	3.076E-1	-2.037	±30	Average RF
Toluene-d8	50.0	49.4	1.186E0	1.173E0	-1.131	±30	Average RF

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:** R1709205  
**Date Analyzed:** 10/02/17 09:50

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\MSVOA6\DATA\100217\D8549.D\

**Calibration Date:** 8/24/2017  
**Calibration ID:** RC1700082  
**Analysis Lot:** 564106  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	47.5	0.597	0.5673	-5.0	NA	±20	Average RF
Trichloroethene (TCE)	50.0	50.3	0.3242	0.3262	0.6	NA	±20	Average RF
Vinyl Chloride	50.0	50.2	0.6105	0.6132	0.4	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	55.3	0.3919	0.4331	10.5	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	54.3	0.367	0.3982	8.5	NA	±20	Average RF
4-Bromofluorobenzene	50.0	54.6	0.9365	1.0216	9.1	NA	±20	Average RF
Dibromofluoromethane	50.0	50.4	0.3586	0.3613	0.7	NA	±20	Average RF
Toluene-d8	50.0	55.3	1.0124	1.1203	10.7	NA	±20	Average RF

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:** R1709205  
**Date Analyzed:** 10/03/17 10:29

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\MSVOA6\DATA\100317\D8575.D\

**Calibration Date:** 8/24/2017  
**Calibration ID:** RC1700082  
**Analysis Lot:** 564264  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	44.6	0.597	0.5329	-10.7	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.7	0.3242	0.3353	3.4	NA	±20	Average RF
Vinyl Chloride	50.0	49.7	0.6105	0.6064	-0.7	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	56.5	0.3919	0.4427	13.0	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	52.2	0.367	0.3835	4.5	NA	±20	Average RF
4-Bromofluorobenzene	50.0	52.4	0.9365	0.9819	4.9	NA	±20	Average RF
Dibromofluoromethane	50.0	51.6	0.3586	0.3704	3.3	NA	±20	Average RF
Toluene-d8	50.0	56.7	1.0124	1.1487	13.5	NA	±20	Average RF

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:** R1709205  
**Date Analyzed:** 10/05/17 11:44

**Continuing Calibration Verification (CCV) Summary  
Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\msvoa10\data\100517\N8497.D\

**Calibration Date:** 8/23/2017  
**Calibration ID:** RC1700080  
**Analysis Lot:** 564633  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	49.8	0.296	0.295	-0.3	NA	±20	Average RF
Trichloroethene (TCE)	50.0	50.9	0.3425	0.3487	1.8	NA	±20	Average RF
Vinyl Chloride	50.0	49.1	0.702	0.6899	-1.7	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	46.8	0.5177	0.485	-6.3	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	47.1	0.4475	0.4212	-5.9	NA	±20	Average RF
4-Bromofluorobenzene	50.0	46.4	0.4812	0.4464	-7.2	NA	±20	Average RF
Dibromofluoromethane	50.0	52.2	0.314	0.3279	4.4	NA	±20	Average RF
Toluene-d8	50.0	48.6	1.1862	1.1538	-2.7	NA	±20	Average RF

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

**Analysis Lot:**564106  
**Instrument ID:**R-MS-06

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUADATA\MSVOA6\DATA\100217\D8548.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	09:09:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8549.D\	Continuing Calibration Verification	RQ1710068-02	10/2/2017	09:50:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8550.D\	Lab Control Sample	RQ1710068-03	10/2/2017	10:39:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8553.D\	Method Blank	RQ1710068-04	10/2/2017	12:27:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8554.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	14:04:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8555.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	14:36:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8556.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	15:01:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8557.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	15:33:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8559.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	16:24:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8561.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	17:16:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8562.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	17:41:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8563.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	18:07:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8564.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	18:33:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8565.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	18:58:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8566.D\	ZZZZZZZ	ZZZZZZZ	10/2/2017	19:24:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8567.D\	TRIP BLANK	R1709205-008	10/2/2017	19:49:00	
I:\ACQUADATA\MSVOA6\DATA\100217\D8568.D\	RU-22	R1709205-001	10/2/2017	20:15:00	
I:\ACQUADATA\MSVOA6\DATA\100317\D8574.D\	ZZZZZZZ	ZZZZZZZ	10/3/2017	09:29:00	
I:\ACQUADATA\MSVOA6\DATA\100317\D8580.D\	ZZZZZZZ	ZZZZZZZ	10/3/2017	13:26:00	
I:\ACQUADATA\MSVOA6\DATA\100317\D8582.D\	ZZZZZZZ	ZZZZZZZ	10/3/2017	14:22:00	
I:\ACQUADATA\MSVOA6\DATA\100317\D8583.D\	ZZZZZZZ	ZZZZZZZ	10/3/2017	14:48:00	
I:\ACQUADATA\MSVOA6\DATA\100317\D8589.D\	ZZZZZZZ	ZZZZZZZ	10/3/2017	17:21:00	
I:\ACQUADATA\MSVOA6\DATA\100317\D8590.D\	ZZZZZZZ	ZZZZZZZ	10/3/2017	17:47:00	

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

**Analysis Lot:**564106  
**Instrument ID:**R-MS-06

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUADATA\MSVOA6\DATA\100317\D8591.D\	ZZZZZZZ	ZZZZZZZ	10/3/2017	18:12:00	
I:\ACQUADATA\MSVOA6\DATA\100317\D8592.D\	ZZZZZZZ	ZZZZZZZ	10/3/2017	18:38:00	
I:\ACQUADATA\msvoa10\data\100517\N8496.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	11:07:00	
I:\ACQUADATA\msvoa10\data\100517\N8501.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	13:37:00	
I:\ACQUADATA\msvoa10\data\100517\N8503.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	14:34:00	
I:\ACQUADATA\msvoa10\data\100517\N8504.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	15:00:00	
I:\ACQUADATA\msvoa10\data\100517\N8505.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	15:21:00	
I:\ACQUADATA\msvoa10\data\100517\N8509.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	16:49:00	
I:\ACQUADATA\msvoa10\data\100517\N8510.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	17:10:00	
I:\ACQUADATA\msvoa10\data\100517\N8511.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	17:32:00	
I:\ACQUADATA\msvoa10\data\100517\N8512.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	17:54:00	
I:\ACQUADATA\msvoa10\data\100517\N8513.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	18:16:00	
I:\ACQUADATA\msvoa10\data\100517\N8514.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	18:38:00	
I:\ACQUADATA\msvoa10\data\100517\N8517.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	19:43:00	
I:\ACQUADATA\msvoa10\data\100517\N8518.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	20:05:00	
I:\ACQUADATA\msvoa10\data\100517\N8519.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	20:26:00	
I:\ACQUADATA\msvoa10\data\100517\N8520.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	20:48:00	
I:\ACQUADATA\msvoa10\data\100517\N8521.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	21:10:00	
I:\ACQUADATA\msvoa10\data\100517\N8522.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	21:32:00	
I:\ACQUADATA\msvoa10\data\100517\N8523.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	21:54:00	
I:\ACQUADATA\msvoa10\data\100517\N8524.D\	ZZZZZZZ	ZZZZZZZ	10/5/2017	22:15:00	

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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

**Analysis Lot:**564264  
**Instrument ID:**R-MS-06

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQU\DATA\MSVOA6\DATA\100317\D8575.D\	Continuing Calibration Verification	RQ1710098-02	10/3/2017	10:29:00	
I:\ACQU\DATA\MSVOA6\DATA\100317\D8576.D\	Lab Control Sample	RQ1710098-03	10/3/2017	11:17:00	
I:\ACQU\DATA\MSVOA6\DATA\100317\D8579.D\	Method Blank	RQ1710098-04	10/3/2017	13:00:00	
I:\ACQU\DATA\MSVOA6\DATA\100317\D8584.D\	RU-23	R1709205-002	10/3/2017	15:13:00	
I:\ACQU\DATA\MSVOA6\DATA\100317\D8585.D\	RU-24	R1709205-003	10/3/2017	15:39:00	
I:\ACQU\DATA\MSVOA6\DATA\100317\D8586.D\	RU-25	R1709205-004	10/3/2017	16:04:00	
I:\ACQU\DATA\MSVOA6\DATA\100317\D8587.D\	RU-26	R1709205-005	10/3/2017	16:30:00	
I:\ACQU\DATA\MSVOA6\DATA\100317\D8588.D\	RU-27	R1709205-006	10/3/2017	16:55:00	



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QA/QC Report

**Client:** Environneering, Inc. (Houston)  
**Project:** PDI Workplan Olean NY/219-006

**Service Request:**R1709205

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

**Analysis Lot:**564633  
**Instrument ID:**R-MS-10

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\msvoa10\data\100517 \N8497.D\	Continuing Calibration Verification	RQ1710528-02	10/5/2017	11:44:00	
I:\ACQUDATA\msvoa10\data\100517 \N8498.D\	Lab Control Sample	RQ1710528-03	10/5/2017	12:16:00	
I:\ACQUDATA\msvoa10\data\100517 \N8500.D\	Method Blank	RQ1710528-04	10/5/2017	13:15:00	
I:\ACQUDATA\msvoa10\data\100517 \N8508.D\	RU-22 DUP	R1709205-007	10/5/2017	16:27:00	



Analysis: 8260 Analyst: BA pH strips: 206712 Tune Method: W082417  
 Date: 10/2/17 Balance ID: --- ResCl strips: HF 63317L Run Method: ---  
 Instr: 6 50 mL Class A used for dilution FV Syringes: 18116 (new) LIMS Run#: 564106

Data Path: j:\acq\data\msvqa\InstID\Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
	BU							D8542		
	TWIS							48	Y	
	CCU							48	Y	
	LES							50	Y	
	BU							51	Y	
	MET BU							52	Y	
	MET BU							53	Y	
	P1309038-001	500	1/500mL	15844	II	1	62	54	Y	FOAMY
	-002							55	Y	BBB, INTERNAL
	-003							56	Y	INTERNAL &
	-002							57	Y	INTERNAL & COMPENS
	P1309206-009	1.0		1713	IV	1		58	Y	cls? Agt
	-001							58	Y	
	-002	5.0	10mL/500mL					60	Y	RPT 1/1
	-003	1.0						61	Y	
	-004							62	Y	
	-005							63	Y	
	-006							64	Y	
	-007							65	Y	
	-008							66	Y	
	P1309205-008	1.0		12933	IV	1		68	Y	
	-001							68	Y	
	5206-602	5.0	MS 10mL/500mL	12133	IV	1		69	Y	
	-002	5.0	MSD					70	Y	RPT 1/1 Run OK only
	BU							71	Y	
	BU							72	Y	

All samples = 5 mL + 1 uL combined IS/Surr. 5 mL purged 501 Surrogate 18413L  
 T/G Primary 500 : 184632 501 / 50mL T/G Secondary 500 : 183878 201  
 H/L Primary : 184116 501 / 50mL H/L Secondary : 184186 501  
 FR+ Primary : 183932 501 / 50mL FR+ Secondary 200 : 184600 501 / 50mL  
 Primary Reagents: (CCU) Secondary Reagents: (MS) (MS/MSD)

Analysis: 8260/624 Analyst: BA pH strips: 206717 Tune Method: W082417  
 Date: 16/3/17 Balance ID: \_\_\_\_\_ ResCl strips: HFO33176 Run Method: b  
 Instr: MS 6 50 mL Class A used for dilution FV Syringes: 181116 (100) LIMS Run#: 564264

Pos.	Sample	Dilin.	Dilin. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BUX									
2	TUNE							D8573		
1	COU							74	Y	
1	LES							35	Y	
1	BUX							76	Y	
2	MET BUX							77	Y	
3	MET BUX							78	Y	
4	21469039-003			15944	II	2	<2	79	Y	FOAMY
5	BUX							80	Y	
6	Q1709206-004			17173	IV	2	<2	81	Y	
7								82	Y	
8	9205-002							83	Y	
9				17993	IV	1		84	Y	
10								85	Y	
11								86	Y	
12								87	Y	
13	9204-001			17173	IV	1		88	Y	
14	9208-007			17173	IV	1		89	Y	
15								90	Y	
16								91	Y	
17								92	Y	
18								93	N	APPROX VALUE WENT BAD
19								94		
20								95		
21	9228-002			15586	II	1	7	96		
22				16102		1		97		(624)
23						1		98		
24						2		99		
25						2		100		
26	BUX							01		
27	BUX							02		
								03		

All samples = 5 mL + \_\_\_\_\_ uL combined IS/Surr. 5 mL purged  
 1st Secondary 200 184000 5u  
 16L Secondary 500 184180 5u  
 1/5 Secondary 183878 5u / 50um  
 EK Secondary 200 184210 5u  
 Secondary \_\_\_\_\_  
 Combined IS/Surr 250 184136  
 Surrogate \_\_\_\_\_  
 Internal Std \_\_\_\_\_  
 Reagents: \_\_\_\_\_  
 10.7u  
 42 / 42u  
 10.7u / 42u  
 (MS/MSD)  
 (MS)

Analysis: 8260/624 Analyst: BA pH strips: 806712 Tune Method: W082413  
 Date: 16/13/17 Balance ID: --- ResCl strips: HFD33176 Run Method: b  
 Instr: MS 6 50 mL Class A used for dilution FV Syringes: 181116 (1600) LIMS Run#: 564264

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BK							08573		
2	TOVE							74	Y	
1	CCU							35	Y	
1	LES							36	Y	
1	BK							32		
2	MET BK							38		
3	MET BK							39	Y	
4	PIE69239-003							80	Y	FOAMY
5	BK							81		
6	PIE09226-009							82		
7								83		
9								84		
9								85		
10								86		
11								87		
12								88		
13								89		
14								90		
15								91		
16								92		
17								93		
18								94		
19								95		
20								96		
21								97		
22								98		
23								99		
24								100		
25								106		
26								81		
27								82		
28								83		

500 Primary T/6a 184032 5ul / 50ml  
 Primary H6c 184442  
 Primary CP+ 183932  
 Primary  
 Primary  
 All samples = 5 mL + 1 ul combined IS/Surr. 5 mL purged  
 Secondary 200 184000 5ul  
 Secondary 500 184180 5ul  
 Secondary 5 183838 5ul  
 Secondary 200 184210 5ul  
 Combined IS/Surr 250: 184136  
 Surrogate  
 Internal Std  
 Reagents:  
 Runlog-MSV0A04 1/17/17

Analysis: 8260c  
 Date: 10/5/17  
 Instr: NS10  
 Analyst: F. Neesler  
 Balance ID: -  
 50 mL Class A used for dilution FV  
 pH strips: 223016  
 ResCl strips: -  
 Syringes: 77958 / 18112  
 Tune Method: W082317.M  
 Run Method: -  
 LIMS Run#: SW4633

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	Blk							N8494	Y	
2	Blk							95	Y	
3	TUBE							96	Y	
1	CVV							97	Y	
2	LS							98	Y	
3	MBLK							99	(N)	
4	MBLK							N8500	Y	
5	R1709175-001	5.0	10/5mL	14733	2	1	42	01	Y	
6	Blk							02	Y	
7	R1709265-009	1.0		8043	2	1	42	03	Y	
8	-006	1.0						04	Y	
9	-008	1.0						05	Y	
10	(-005)	5.0	15/5mL					06	(N)	Rpt 1/1
11	(-007)	2.5	20/5mL					07	(N)	Rpt 1/1
12	R1709205-007	1.0		17933	4	1	42	08	Y	
13	R1709208-003	1.0		17173	4	3	42	09	Y	
14	-004	1.0						10	Y	
15	-005	1.0						11	Y	
16	-006	1.0						12	Y	
17	-001	10.0	5/5mL					13	Y	
18	-002	10.0						14	Y	
19	Blk							15	Y	
20	Blk							16	Y	
21	R1709321-006	1.0		8532	2	1	42	17	Y	
22	-002	25.0	2/5mL					18	Y	
23	-003	5.0	10/5mL					19	Y	
24	-004	25.0	2/5mL					20	Y	
25	-005	10.0	5/5mL					21	Y	
26	-001	5.0	10/5mL					22	Y	
27	+001MS	5.0						23	Y	
28	-001MD	5.0						24	Y	
29	Blk							25	Y	

Data Path: j:\acq\data\msvoa4\instid\ (Date)  
 All samples = 5 mL + 5 mL combined IS/Surr. 5 mL purged  
 T/6 Primary 5.0 : 184537 - 5mL  
 H/L Primary : 184447 -  
 F/ Primary : 184539 -  
 O/C Primary : 184117 -  
 Primary  
 T/6 Secondary 5.0 : 184533 - 2x  
 H/L Secondary : 184186 -  
 O/C Secondary : 184288 -  
 Secondary  
 Combined IS/Surr Surrogate 5.0 : 184541  
 Internal Std 5.0 : 184540  
 Reagents:  
 Runlog-MSVOA4 1/17/17  
 O-970 Page 49

**ENI ENGINEERING, INC.**

**APPENDIX C**  
**Data Usability Summary**

# ENI ENGINEERING, INC.

## Data Usability Summary

ENI Engineering, Inc. ("ENI") personnel reviewed one data package from ALS Group USA, Corp., doing business as ALS Environmental ("ALS") for the analysis of water samples collected on September 27, 2017 at the Alcas/Cutco Cutlery Corporation facility in Olean, New York. All of the data packages are from the ALS laboratory in Rochester, New York. All analyses were performed by the ALS laboratory in Rochester, New York. At the time the laboratory data were generated for the project, the ALS Rochester laboratory was certified by the New York State Department of Health. A copy of the certificate for the applicable time period is included in Attachment 1 to this DUS.

### Intended Use of Data

The intended use of the data is to determine if the TCE exceedance found at well RU-1 is from an up gradient, off-site source. To accomplish the project objective, specific project tasks were outlined in the Pre-design Investigation Work Plan as approved by United States Environmental Protection Agency in consultation with New York State Department of Environmental Conservation and New York State Department of Health on February 6, 2017.

Analyses requested of the ALS Rochester laboratory for the groundwater included:

- Volatile Organic Compounds ("VOCs") in soil by method EPA 8260C

The following laboratory submittals and field data were examined:

- The reportable data,
- The case narrative, chain of custody, sample receipt form, and
- The field notes with respect to field instrument calibrations, filtering procedures, sampling procedures, and preservation procedures prior to shipping the samples to the laboratory.

The results of supporting quality control ("QC") analyses were summarized on the Laboratory Review Checklists ("LRCs"), Exception Reports ("ERs"), and in the case narratives, all of which were included in this review. The reportable data including the case narratives are included in the laboratory report (**Appendix B**).

### Introduction

Seven groundwater samples were analyzed for constituents of concern, and consisted of the following constituents:

- VOCs;
  - Tetrachloroethene
  - Trichloroethene
  - Vinyl chloride
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene



# ENI ENGINEERING, INC.

The table below lists the sample identifications cross-referenced to laboratory identifications.

## Cross-Referenced Field Sample Identifications and Laboratory Identifications

Field Sample Identification	Laboratory Identification	Laboratory Report Date
RU-22	R1709205-001	October 18, 2017
RU-23	R1709205-002	October 18, 2017
RU-24	R1709205-003	October 18, 2017
RU-25	R1709205-004	October 18, 2017
RU-26	R1709205-005	October 18, 2017
RU-27	R1709205-006	October 18, 2017
RU-22 DUP	R1709205-007	October 18, 2017
TRIP BLANK	R1709205-008	October 18, 2017

## Data Review / Validation Results

### Field Procedures

Samples were collected using documented SOPs.

### Preservation and Holding Times

Samples were evaluated for agreement with the chain-of-custody ("COC"). All samples for the project were received in the appropriate containers and in good condition with proper completion of the COC documentation. Sample receipt temperatures were within the acceptance criteria of less than 6°C. Samples were preserved in the field as specified in SW-846 Tables 2-40(A) and 2-40(B). Samples were prepared and analyzed within holding times specified in SW-846 Tables 2-40(A) and 2-40(B).

### Analytical Results

All analyses were performed consistent with the quality assurance program of ALS. The laboratory report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed in the laboratory report. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of the laboratory report. The laboratory report is included as Appendix B.

Results that are greater than the method detection limit and less than the reporting limit are considered estimated results and are noted with a 'J' qualifier. No qualifiers have been applied to sample results that have a detected amount in the associated method blank. Non-detected results are reported as less than the value of the method detection limit.

# ENI ENGINEERING, INC.

## Field Precision

One duplicate sample was taken in the field. One duplicate for sediment, and one duplicate for surface water. Sample IDs (Field ID and Laboratory ID) and their associated duplicates IDs are summarized in the table below.

**Summary of Sample IDs and associated Duplicate Sample IDs**

Field Sample		Field Duplicate Sample	
Sample ID	Sample Lab ID	Duplicate Sample ID	Duplicate Sample Lab ID
RU-22	R1709205-001	RU-22 DUP	R1709205-007

The relative percent difference for the aqueous sample range from 0.0% to 16.7%. No action limit is established in the QAPP for this project and therefore no action is required. The table below summarizes the field duplicate precision calculations for the soil samples. Analytes that are non-detect for both the sample and its associated duplicate are omitted from the table.

**Field Precision Evaluation - Field Duplicates RPD Calculation**

Sample ID / Duplicate Sample ID	Analyte	Units	Result	Duplicate Result	RPD (%)
RU-22 / RU-22 DUP	Trichloroethene	mg/L	0.018	0.018	0.0
RU-22 / RU-22 DUP	cis-1,2-Dichloroethene	mg/L	0.0026	0.0022	16.7

## Blanks

One trip blank was analyzed as part of this project. No constituents were detected in the trip blank above the reportable limit. Results are summarized in the table below.

**Blank Analytical Results**

Sample ID	Analyte	Units	Result
Trip Blank/ R1709205-008	Tetrachloroethene	mg/L	ND <0.001
Trip Blank/ R1709205-008	Trichloroethene	mg/L	ND <0.001
Trip Blank/ R1709205-008	Vinyl chloride	mg/L	ND <0.001
Trip Blank/ R1709205-008	cis-1,2-Dichloroethene	mg/L	ND <0.001
Trip Blank/ R1709205-008	trans-1,2-Dichloroethene	mg/L	ND <0.001

ND - The analyte was not detected above laboratory detection limits. Subscript indicates compound-specific MDL in mg/l.

Laboratory method blanks were within laboratory QC criteria for VOCs, and are documented in the QC Summary Forms section of the laboratory report. LCS results were within project objectives for groundwater samples.

# **ENI ENGINEERING, INC.**

## **Calibrations**

According to the laboratory report, initial calibration and continuing calibration data met method requirements for VOC analyses. Calibration data is documented in the QC Summary Forms and Raw Data sections of the laboratory report.

## **Internal Standard and Surrogate Recoveries**

Surrogate recoveries are reported for VOC analyses. Surrogate recoveries are included with each samples results and are flagged with a qualifier when outside the laboratories QC measurement quality standards. Surrogate recoveries were within project objectives for groundwater samples.

## **Laboratory Control Samples**

Laboratory Control Sample ("LCS") accuracy results were within laboratory QC criteria for VOCs, and are documented in the QC Summary Forms of the Laboratory Report. LCS results were within project objectives for groundwater samples.

## **Summary**

Groundwater data are considered usable for the purpose of determining if the TCE exceedance found at well RU-1 is from an up gradient, off-site source.

**ENI ENGINEERING, INC.**

**ATTACHMENT 1  
LABORATORY CERTIFICATE**

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2018  
Issued April 01, 2017  
Revised December 07, 2017

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

MR. CARLTON BEECHLER  
ALS ENVIRONMENTAL - ROCHESTER  
1565 JEFFERSON ROAD BUILDING 300, SUITE 360  
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards (2003) for the category  
ENVIRONMENTAL ANALYSES POTABLE WATER  
All approved analytes are listed below:*

**Bacteriology**

Coliform, Total / E. coli (Qualitative) SM 18-22 9223B (-97) (Colilert)

**Fuel Additives**

Methyl tert-butyl ether EPA 524.2  
Naphthalene EPA 524.2

**Metals I**

Arsenic, Total EPA 200.8 Rev. 5.4  
Barium, Total EPA 200.7 Rev. 4.4  
Cadmium, Total EPA 200.8 Rev. 5.4  
Chromium, Total EPA 200.7 Rev. 4.4  
Copper, Total EPA 200.7 Rev. 4.4  
Iron, Total EPA 200.7 Rev. 4.4  
Lead, Total EPA 200.8 Rev. 5.4  
Manganese, Total EPA 200.7 Rev. 4.4  
Mercury, Total EPA 245.1 Rev. 3.0  
Selenium, Total EPA 200.8 Rev. 5.4  
Silver, Total EPA 200.7 Rev. 4.4  
Zinc, Total EPA 200.7 Rev. 4.4

**Metals II**

Antimony, Total EPA 200.8 Rev. 5.4  
Beryllium, Total EPA 200.7 Rev. 4.4  
Molybdenum, Total EPA 200.8 Rev. 5.4  
Nickel, Total EPA 200.7 Rev. 4.4  
Thallium, Total EPA 200.8 Rev. 5.4  
Vanadium, Total EPA 200.7 Rev. 4.4

**Metals III**

Boron, Total EPA 200.7 Rev. 4.4  
Calcium, Total EPA 200.7 Rev. 4.4  
Magnesium, Total EPA 200.7 Rev. 4.4  
Potassium, Total EPA 200.7 Rev. 4.4  
Sodium, Total EPA 200.7 Rev. 4.4

**Miscellaneous**

1,4-Dioxane EPA 522  
Organic Carbon, Total SM 21-22 5310B (-00)  
Turbidity EPA 180.1 Rev. 2.0  
UV 254 SM 19-22 5910B (-00)

**Non-Metals**

Alkalinity SM 18-22 2320B (-97)  
Calcium Hardness SM 18-22 2340B (-97)

Serial No.: 56943

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**Non-Metals**

Chloride	EPA 300.0 Rev. 2.1
Color	SM 18-22 2120B (-01)
Corrosivity	SM 18-22 2330
Cyanide	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	EPA 365.1 Rev. 2.0
Silica, Dissolved	USGS I-2700-85
Solids, Total Dissolved	SM 18-22 2540C (-97)
Specific Conductance	EPA 120.1 Rev. 1982
Sulfate (as SO4)	EPA 300.0 Rev. 2.1

**Trihalomethanes**

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2

**Volatile Aromatics**

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2

**Volatile Aromatics**

2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2

**Serial No.: 56943**

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**ENVIRONMENTAL ANALYSES POTABLE WATER**  
All approved analytes are listed below:

**Volatile Halocarbons**

1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

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ENVIRONMENTAL ANALYSES NON POTABLE WATER  
All approved analytes are listed below:*

<b>Acrylates</b>		<b>Amines</b>	
Acrolein (Propenal)	EPA 8260C EPA 624	Pyridine	EPA 625 EPA 8270D
Acrylonitrile	EPA 8260C EPA 624	<b>Benzidines</b>	
Ethyl methacrylate	EPA 8260C	3,3'-Dichlorobenzidine	EPA 625 EPA 8270D
Methyl acrylonitrile	EPA 8260C	3,3'-Dimethylbenzidine	EPA 8270D
Methyl methacrylate	EPA 8260C	Benzidine	EPA 625 EPA 8270D
<b>Amines</b>		<b>Chlorinated Hydrocarbon Pesticides</b>	
1,2-Diphenylhydrazine	EPA 8270D	4,4'-DDD	EPA 8081B EPA 608
1,4-Phenylenediamine	EPA 8270D	4,4'-DDE	EPA 8081B EPA 608
1-Naphthylamine	EPA 8270D	4,4'-DDT	EPA 8081B EPA 608
2-Naphthylamine	EPA 8270D	Aldrin	EPA 8081B EPA 608
2-Nitroaniline	EPA 8270D	alpha-BHC	EPA 8081B EPA 608
3-Nitroaniline	EPA 8270D	alpha-Chlordane	EPA 8081B EPA 608
4-Chloroaniline	EPA 8270D	beta-BHC	EPA 8081B EPA 608
4-Nitroaniline	EPA 8270D	Chlordane Total	EPA 8081B EPA 608
5-Nitro-o-toluidine	EPA 8270D	Chlorobenzilate	EPA 8270D
Aniline	EPA 625 EPA 8270D		
Carbazole	EPA 625 EPA 8270D		
Diphenylamine	EPA 8270D		
Methapyrilene	EPA 8270D		
Pronamide	EPA 8270D		
Propionitrile	EPA 8260C		

Serial No.: 56593

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All approved analytes are listed below:*

**Chlorinated Hydrocarbon Pesticides**

delta-BHC	EPA 8081B EPA 608
Diallate	EPA 8270D
Dieldrin	EPA 8081B EPA 608
Endosulfan I	EPA 8081B EPA 608
Endosulfan II	EPA 8081B EPA 608
Endosulfan sulfate	EPA 8081B EPA 608
Endrin	EPA 8081B EPA 608
Endrin aldehyde	EPA 8081B EPA 608
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B EPA 608
Heptachlor epoxide	EPA 8081B EPA 608
Isodrin	EPA 8270D
Kepon	EPA 8081B
Lindane	EPA 8081B EPA 608
Methoxychlor	EPA 8081B

**Chlorinated Hydrocarbon Pesticides**

Methoxychlor	EPA 608
Mirex	EPA 8081B
PCNB	EPA 8270D
Toxaphene	EPA 8081B EPA 608

**Chlorinated Hydrocarbons**

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 625 EPA 8270D
2-Chloronaphthalene	EPA 625 EPA 8270D
Hexachlorobenzene	EPA 8081B EPA 625 EPA 8270D
Hexachlorobutadiene	EPA 625 EPA 8270D
Hexachlorocyclopentadiene	EPA 625 EPA 8270D
Hexachloroethane	EPA 625 EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

**Chlorophenoxy Acid Pesticides**

2,4,5-T	EPA 8151A
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WADSWORTH CENTER



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MR. CARLTON BEECHLER  
ALS ENVIRONMENTAL - ROCHESTER  
1565 JEFFERSON ROAD BUILDING 300, SUITE 360  
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER  
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**Chlorophenoxy Acid Pesticides**

2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8151A
	EPA 8270D
Pentachlorophenol	EPA 8151A

**Demand**

Biochemical Oxygen Demand	SM 5210B-01,-11
Carbonaceous BOD	SM 5210B-01,-11
Chemical Oxygen Demand	EPA 410.4 Rev. 2.0

**Dissolved Gases**

Acetylene	RSK-175
Ethane	RSK-175
Ethene (Ethylene)	RSK-175
Methane	RSK-175
Propane	RSK-175

**Fuel Oxygenates**

Di-isopropyl ether	EPA 8260C
	EPA 8015C
Ethanol	EPA 8015C
Methyl tert-butyl ether	EPA 8260C
	EPA 624
tert-amyl methyl ether (TAME)	EPA 8260C
tert-butyl alcohol	EPA 8260C

**Fuel Oxygenates**

tert-butyl ethyl ether (ETBE)	EPA 8260C
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**Haloethers**

2,2'-Oxybis(1-chloropropane)	EPA 625
	EPA 8270D
4-Bromophenylphenyl ether	EPA 625
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 625
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 625
	EPA 8270D
Bis(2-chloroethyl)ether	EPA 625
	EPA 8270D

**Low Level Polynuclear Aromatics**

Acenaphthene Low Level	EPA 8310
	EPA 610
	EPA 8270D
Acenaphthylene Low Level	EPA 8310
	EPA 610
	EPA 8270D
Anthracene Low Level	EPA 8310
	EPA 610
	EPA 8270D
Benzo(a)anthracene Low Level	EPA 8310
	EPA 610
	EPA 8270D

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**Low Level Polynuclear Aromatics**

Benzo(a)pyrene Low Level	EPA 8310 EPA 610 EPA 8270D
Benzo(b)fluoranthene Low Level	EPA 8310 EPA 610 EPA 8270D
Benzo(g,h,i)perylene Low Level	EPA 8310 EPA 610 EPA 8270D
Benzo(k)fluoranthene Low Level	EPA 8310 EPA 610 EPA 8270D
Chrysene Low Level	EPA 8310 EPA 610 EPA 8270D
Dibenzo(a,h)anthracene Low Level	EPA 8310 EPA 610 EPA 8270D
Fluoranthene Low Level	EPA 8310 EPA 610 EPA 8270D
Fluorene Low Level	EPA 8310 EPA 610 EPA 8270D
Indeno(1,2,3-cd)pyrene Low Level	EPA 8310 EPA 610

**Low Level Polynuclear Aromatics**

Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D
Naphthalene Low Level	EPA 8310 EPA 610 EPA 8270D
Phenanthrene Low Level	EPA 8310 EPA 610 EPA 8270D
Pyrene Low Level	EPA 8310 EPA 610 EPA 8270D

**Metals I**

Barium, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4
Calcium, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Chromium, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4

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**Metals I**

Copper, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Lead, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4
Magnesium, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Manganese, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4
Potassium, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Silver, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4

**Metals I**

Sodium, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Strontium, Total	EPA 200.7 Rev. 4.4 EPA 6010C

**Metals II**

Aluminum, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 200.8 Rev. 5.4
Antimony, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4
Arsenic, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4
Chromium VI	EPA 218.6 Rev. 3.3 EPA 7196A EPA 7199 SM 3500-Cr B-09,-11
Mercury, Low Level	EPA 1631E

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<b>Metals II</b>		<b>Metals III</b>	
Mercury, Total	EPA 245.1 Rev. 3.0 EPA 7470A	Platinum, Total	EPA 200.7 Rev. 4.4
Selenium, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A	Thallium, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A
Vanadium, Total	EPA 200.8 Rev. 5.4 EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A	Tin, Total	EPA 200.8 Rev. 5.4 EPA 200.7 Rev. 4.4 EPA 6010C
Zinc, Total	EPA 200.8 Rev. 5.4 EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4	Titanium, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A
<b>Metals III</b>		Uranium (Mass)	EPA 6020A
Cobalt, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4	<b>Mineral</b>	
Gold, Total	EPA 200.7 Rev. 4.4	Alkalinity	SM 2320B-97,-11
Molybdenum, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 6020A EPA 200.8 Rev. 5.4	Calcium Hardness	SM 2340B-97,-11
Palladium, Total	EPA 200.7 Rev. 4.4	Chloride	EPA 300.0 Rev. 2.1 EPA 9056A
		Fluoride, Total	EPA 300.0 Rev. 2.1 EPA 9056A
		Hardness, Total	SM 2340C-97,-11 SM 2340B-97,-11
		Sulfate (as SO4)	EPA 300.0 Rev. 2.1 EPA 9056A
		<b>Miscellaneous</b>	
		Boron, Total	EPA 200.7 Rev. 4.4 EPA 6010C
		Bromide	EPA 300.0 Rev. 2.1

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**Miscellaneous**

Bromide	EPA 9056A
Color	SM 2120B-01,-11
Corrosivity	SM 2330
Cyanide, Total	SM 4500-CN E-99,-11 EPA 335.4 Rev. 1.0 EPA 9012B
Formaldehyde	EPA 8315A
Oil and Grease Total Recoverable (HEM)	EPA 1664A
Organic Carbon, Total	SM 5310B-00,-11 SM 5310C-00,-11 EPA 9060A
Perchlorate	EPA 6850
Phenols	EPA 420.4 Rev. 1.0 EPA 9066
Silica, Dissolved	USGS I-2700-85
Specific Conductance	EPA 120.1 Rev. 1982
Sulfide (as S)	SM 4500-S2- F-00,-11 EPA 9034
Surfactant (MBAS)	SM 5540C-00,-11
Total Petroleum Hydrocarbons	EPA 1664A
Turbidity	EPA 180.1 Rev. 2.0

**Nitroaromatics and Isophorone**

2,4-Dinitrotoluene	EPA 625
	EPA 8270D
2,6-Dinitrotoluene	EPA 625
	EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D
Isophorone	EPA 625
	EPA 8270D
Nitrobenzene	EPA 625
	EPA 8270D

**Nitrosoamines**

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 625
	EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 625
	EPA 8270D
N-Nitrosodiphenylamine	EPA 625
	EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

**Nutrient**

Ammonia (as N)	EPA 350.1 Rev. 2.0
	ASTM D6919-09

**Nitroaromatics and Isophorone**

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D

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Nutrient		Phthalate Esters	
Kjeldahl Nitrogen, Total	EPA 351.2 Rev. 2.0	Bis(2-ethylhexyl) phthalate	EPA 625
Nitrate (as N)	EPA 353.2 Rev. 2.0		EPA 8270D
	EPA 300.0 Rev. 2.1	Diethyl phthalate	EPA 625
	EPA 9056A		EPA 8270D
Nitrate-Nitrite (as N)	EPA 353.2 Rev. 2.0	Dimethyl phthalate	EPA 625
Nitrite (as N)	EPA 353.2 Rev. 2.0		EPA 8270D
	EPA 300.0 Rev. 2.1	Di-n-butyl phthalate	EPA 625
	EPA 9056A		EPA 8270D
Orthophosphate (as P)	EPA 365.1 Rev. 2.0	Di-n-octyl phthalate	EPA 625
Phosphorus, Total	EPA 365.1 Rev. 2.0		EPA 8270D
<b>Organophosphate Pesticides</b>		<b>Polychlorinated Biphenyls</b>	
Atrazine	EPA 8270D	PCB-1016	EPA 8082A
Dimethoate	EPA 8270D		EPA 608
Disulfoton	EPA 8270D	PCB-1221	EPA 8082A
Parathion ethyl	EPA 8270D		EPA 608
Parathion methyl	EPA 8270D	PCB-1232	EPA 8082A
Phorate	EPA 8270D		EPA 608
Sulfotepp	EPA 8270D	PCB-1242	EPA 8082A
Thionazin	EPA 8270D		EPA 608
		PCB-1248	EPA 8082A
<b>Petroleum Hydrocarbons</b>			EPA 608
Diesel Range Organics	EPA 8015C	PCB-1254	EPA 8082A
			EPA 608
<b>Phthalate Esters</b>		PCB-1260	EPA 8082A
Benzyl butyl phthalate	EPA 625		EPA 608
	EPA 8270D		

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**Polychlorinated Biphenyls**

PCB-1262 EPA 8082A  
PCB-1268 EPA 8082A

**Polynuclear Aromatics**

2-Acetylaminofluorene EPA 8270D  
3-Methylcholanthrene EPA 8270D  
7,12-Dimethylbenzyl (a) anthracene EPA 8270D  
Acenaphthene EPA 625  
EPA 8270D  
Acenaphthylene EPA 625  
EPA 8270D  
Anthracene EPA 625  
EPA 8270D  
Benzo(a)anthracene EPA 625  
EPA 8270D  
Benzo(a)pyrene EPA 625  
EPA 8270D  
Benzo(b)fluoranthene EPA 625  
EPA 8270D  
Benzo(ghi)perylene EPA 625  
EPA 8270D  
Benzo(k)fluoranthene EPA 625  
EPA 8270D  
Chrysene EPA 625  
EPA 8270D  
Dibenzo(a,h)anthracene EPA 625

**Polynuclear Aromatics**

Dibenzo(a,h)anthracene EPA 8270D  
Fluoranthene EPA 625  
EPA 8270D  
Fluorene EPA 625  
EPA 8270D  
Indeno(1,2,3-cd)pyrene EPA 625  
EPA 8270D  
Naphthalene EPA 625  
EPA 8270D  
Phenanthrene EPA 625  
EPA 8270D  
Pyrene EPA 625  
EPA 8270D

**Priority Pollutant Phenols**

2,3,4,6 Tetrachlorophenol EPA 8270D  
2,4,5-Trichlorophenol EPA 625  
EPA 8270D  
2,4,6-Trichlorophenol EPA 625  
EPA 8270D  
2,4-Dichlorophenol EPA 625  
EPA 8270D  
2,4-Dimethylphenol EPA 625  
EPA 8270D  
2,4-Dinitrophenol EPA 625  
EPA 8270D

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**Priority Pollutant Phenols**

2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 625
	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 625
	EPA 8270D
2-Methylphenol	EPA 625
	EPA 8270D
2-Nitrophenol	EPA 625
	EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 625
	EPA 8270D
4-Methylphenol	EPA 625
	EPA 8270D
4-Nitrophenol	EPA 625
	EPA 8270D
Cresols, Total	EPA 8270D
Pentachlorophenol	EPA 625
	EPA 8270D
Phenol	EPA 625
	EPA 8270D

**Residue**

Settleable Solids	SM 2540 F-97,-11
Solids, Total	SM 2540 B-97,-11
Solids, Total Dissolved	SM 2540 C-97,-11

**Residue**

Solids, Total Suspended	SM 2540 D-97,-11
Solids, Volatile	SM 2540 E-97,-11

**Semi-Volatile Organics**

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 625
	EPA 8270D
alpha-Terpineol	EPA 625
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D
Methyl methanesulfonate	EPA 8270D
O,O,O-Triethyl phosphorothioate	EPA 8270D
p-Dimethylaminoazobenzene	EPA 8270D
Phenacetin	EPA 8270D

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**Semi-Volatile Organics**

Safrole EPA 8270D

**Volatile Aromatics**

1,2,4-Trichlorobenzene, Volatile EPA 8260C

1,2,4-Trimethylbenzene EPA 8260C

1,2-Dichlorobenzene EPA 8260C  
EPA 624

EPA 524.2

1,3,5-Trimethylbenzene EPA 8260C

1,3-Dichlorobenzene EPA 8260C  
EPA 624

1,4-Dichlorobenzene EPA 8260C

EPA 624

2-Chlorotoluene EPA 8260C

4-Chlorotoluene EPA 8260C

Benzene EPA 8260C  
EPA 624

EPA 524.2

Bromobenzene EPA 8260C

Chlorobenzene EPA 8260C  
EPA 624

EPA 524.2

Ethyl benzene EPA 8260C

EPA 624

Isopropylbenzene EPA 8260C

m/p-Xylenes EPA 8260C

**Volatile Aromatics**

m/p-Xylenes EPA 624

Naphthalene, Volatile EPA 8260C

EPA 624

n-Butylbenzene EPA 8260C

n-Propylbenzene EPA 8260C

o-Xylene EPA 8260C

EPA 624

p-Isopropyltoluene (P-Cymene) EPA 8260C

sec-Butylbenzene EPA 8260C

Styrene EPA 8260C

EPA 624

tert-Butylbenzene EPA 8260C

Toluene EPA 8260C

EPA 624

EPA 524.2

Total Xylenes EPA 8260C

EPA 624

**Volatile Chlorinated Organics**

Benzyl chloride EPA 8260C

**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane EPA 8260C

1,1,1-Trichloroethane EPA 8260C

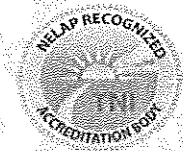
EPA 624

1,1,2,2-Tetrachloroethane EPA 8260C

EPA 624

**Serial No.: 56593**

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**NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER**



Expires 12:01 AM April 01, 2018  
Issued April 01, 2017  
Revised June 09, 2017

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**MR. CARLTON BEECHLER**  
**ALS ENVIRONMENTAL - ROCHESTER**  
**1565 JEFFERSON ROAD BUILDING 300, SUITE 360**  
**ROCHESTER, NY 14623**

NY Lab Id No: 10145

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category  
ENVIRONMENTAL ANALYSES NON POTABLE WATER  
All approved analytes are listed below:*

**Volatile Halocarbons**

1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
	EPA 624
1,1-Dichloroethane	EPA 8260C
	EPA 624
1,1-Dichloroethane	EPA 8260C
	EPA 624
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloro-1,1,2-Trifluoroethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
	EPA 624
	EPA 524.2
1,2-Dichloropropane	EPA 8260C
	EPA 624
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
	EPA 624
3-Chloropropene (Allyl chloride)	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
	EPA 624

**Volatile Halocarbons**

Bromoform	EPA 8260C
	EPA 624
Bromomethane	EPA 8260C
	EPA 624
Carbon tetrachloride	EPA 8260C
	EPA 624
Chloroethane	EPA 8260C
	EPA 624
Chloroform	EPA 8260C
	EPA 624
Chloromethane	EPA 8260C
	EPA 624
cis-1,2-Dichloroethene	EPA 8260C
	EPA 624
cis-1,3-Dichloropropene	EPA 8260C
	EPA 624
Dibromochloromethane	EPA 8260C
	EPA 624
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
	EPA 624
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C
Methylene chloride	EPA 8260C
	EPA 624

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**Volatile Halocarbons**

Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 8260C
	EPA 624
trans-1,2-Dichloroethene	EPA 8260C
	EPA 624
trans-1,3-Dichloropropene	EPA 8260C
	EPA 624
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C
	EPA 624
Trichlorofluoromethane	EPA 8260C
	EPA 624
Vinyl chloride	EPA 8260C
	EPA 624

**Volatiles Organics**

1,4-Dioxane	EPA 8260C
	EPA 8270D
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
	EPA 524.2
Acetone	EPA 8260C
	EPA 624
	EPA 524.2

**Volatiles Organics**

Acetonitrile	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethyl Acetate	EPA 8260C
	EPA 8015C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C
	EPA 8015C
Isopropanol	EPA 8260C
Methanol	EPA 8015C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8260C
	EPA 8270D
Tetrahydrofuran	EPA 524.2
Vinyl acetate	EPA 8260C

**Sample Preparation Methods**

EPA 5030C
EPA 200.2
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C

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**Sample Preparation Methods**

EPA 3535A  
SM 4500-CN G-99,-11

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**ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE**  
All approved analytes are listed below:

**Acrylates**

Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C
Ethyl methacrylate	EPA 8260C
Methyl acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

**Amines**

1,2-Diphenylhydrazine	EPA 8270D
1,4-Phenylenediamine	EPA 8270D
1-Naphthylamine	EPA 8270D
2-Naphthylamine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
5-Nitro-o-toluidine	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Diphenylamine	EPA 8270D
Methapyrilene	EPA 8270D
Pronamide	EPA 8270D

**Benzidines**

3,3'-Dichlorobenzidine	EPA 8270D
3,3'-Dimethylbenzidine	EPA 8270D
Benzidine	EPA 8270D

**Characteristic Testing**

Corrosivity	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1010A
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

**Chlorinated Hydrocarbon Pesticides**

2,4'-DDD (Mitotane)	EPA 8081B
4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
Chlorobenzilate	EPA 8270D
delta-BHC	EPA 8081B
Diallate	EPA 8270D
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B

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*All approved analytes are listed below:*

**Chlorinated Hydrocarbon Pesticides**

Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Isodrin	EPA 8270D
Kepon	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
Toxaphene	EPA 8081B

**Chlorinated Hydrocarbons**

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 8270D
1-Chloronaphthalene	EPA 8270D
2-Chloronaphthalene	EPA 8270D
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D
Hexachlorophene	EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

**Chlorophenoxy Acid Pesticides**

2,4,5-T	EPA 8151A
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**Chlorophenoxy Acid Pesticides**

2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8270D
Pentachlorophenol	EPA 8151A

**Haloethers**

2,2'-Oxybis(1-chloropropane)	EPA 8270D
4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D

**Low Level Polynuclear Aromatic Hydrocarbons**

Acenaphthene Low Level	EPA 8270D
Acenaphthylene Low Level	EPA 8270D
Anthracene Low Level	EPA 8270D
Benzo(a)anthracene Low Level	EPA 8270D
Benzo(a)pyrene Low Level	EPA 8270D
Benzo(b)fluoranthene Low Level	EPA 8270D
Benzo(g,h,i)perylene Low Level	EPA 8270D
Benzo(k)fluoranthene Low Level	EPA 8270D
Chrysene Low Level	EPA 8270D
Dibenzo(a,h)anthracene Low Level	EPA 8270D
Fluoranthene Low Level	EPA 8270D
Fluorene Low Level	EPA 8270D
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D

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**Low Level Polynuclear Aromatic Hydrocarbons**

Naphthalene Low Level	EPA 8270D
Phenanthrene Low Level	EPA 8270D
Pyrene Low Level	EPA 8270D

**Metals I**

Barium, Total	EPA 6010C EPA 6020A
Cadmium, Total	EPA 6010C EPA 6020A
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C EPA 6020A
Copper, Total	EPA 6010C EPA 6020A
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C EPA 6020A
Magnesium, Total	EPA 6010C
Manganese, Total	EPA 6010C EPA 6020A
Nickel, Total	EPA 6010C EPA 6020A
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C EPA 6020A
Sodium, Total	EPA 6010C

**Metals I**

Strontium, Total	EPA 6010C
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**Metals II**

Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C EPA 6020A
Arsenic, Total	EPA 6010C EPA 6020A
Beryllium, Total	EPA 6010C EPA 6020A
Chromium VI	EPA 7196A EPA 7199
Lithium, Total	EPA 6010C
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C EPA 6020A
Vanadium, Total	EPA 6010C EPA 6020A
Zinc, Total	EPA 6010C EPA 6020A

**Metals III**

Cobalt, Total	EPA 6010C EPA 6020A
Molybdenum, Total	EPA 6010C EPA 6020A
Silica, Dissolved	EPA 6010C

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**Metals III**

Thallium, Total	EPA 6010C
	EPA 6020A
Tin, Total	EPA 6010C
Titanium, Total	EPA 6010C

**Minerals**

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO4)	EPA 9056A

**Miscellaneous**

Boron, Total	EPA 6010C
Cyanide, Total	EPA 9012B
Organic Carbon, Total	Lloyd Kahn Method
Perchlorate	EPA 6850
Phenols	EPA 9066
Sulfide (as S)	EPA 9034

**Nitroaromatics and Isophorone**

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D
2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D
4-Dimethylaminoazobenzene	EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D

**Nitroaromatics and Isophorone**

Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D

**Nitrosoamines**

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

**Nutrients**

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A

**Organophosphate Pesticides**

Dimethoate	EPA 8270D
Disulfoton	EPA 8270D
Parathion ethyl	EPA 8270D
Parathion methyl	EPA 8270D
Phorate	EPA 8270D
Sulfotepp	EPA 8270D
Thionazin	EPA 8270D

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**Petroleum Hydrocarbons**

Diesel Range Organics EPA 8015C

**Phthalate Esters**

Benzyl butyl phthalate EPA 8270D  
Bis(2-ethylhexyl) phthalate EPA 8270D  
Diethyl phthalate EPA 8270D  
Dimethyl phthalate EPA 8270D  
Di-n-butyl phthalate EPA 8270D  
Di-n-octyl phthalate EPA 8270D

**Polychlorinated Biphenyls**

PCB-1016 EPA 8082A  
PCB-1221 EPA 8082A  
PCB-1232 EPA 8082A  
PCB-1242 EPA 8082A  
PCB-1248 EPA 8082A  
PCB-1254 EPA 8082A  
PCB-1260 EPA 8082A  
PCB-1262 EPA 8082A  
PCB-1268 EPA 8082A  
PCBs in Oil EPA 8082A

**Polynuclear Aromatic Hydrocarbons**

2-Acetylaminofluorene EPA 8270D  
3-Methylcholanthrene EPA 8270D  
7,12-Dimethylbenzyl (a) anthracene EPA 8270D  
Acenaphthene EPA 8270D

**Polynuclear Aromatic Hydrocarbons**

Acenaphthylene EPA 8270D  
Anthracene EPA 8270D  
Benzo(a)anthracene EPA 8270D  
Benzo(a)pyrene EPA 8270D  
Benzo(b)fluoranthene EPA 8270D  
Benzo(ghi)perylene EPA 8270D  
Benzo(k)fluoranthene EPA 8270D  
Chrysene EPA 8270D  
Dibenzo(a,h)anthracene EPA 8270D  
Fluoranthene EPA 8270D  
Fluorene EPA 8270D  
Indeno(1,2,3-cd)pyrene EPA 8270D  
Naphthalene EPA 8270D  
Phenanthrene EPA 8270D  
Pyrene EPA 8270D

**Priority Pollutant Phenols**

2,3,4,6-Tetrachlorophenol EPA 8270D  
2,4,5-Trichlorophenol EPA 8270D  
2,4,6-Trichlorophenol EPA 8270D  
2,4-Dichlorophenol EPA 8270D  
2,4-Dimethylphenol EPA 8270D  
2,4-Dinitrophenol EPA 8270D  
2,6-Dichlorophenol EPA 8270D  
2-Chlorophenol EPA 8270D  
2-Methyl-4,6-dinitrophenol EPA 8270D

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**Priority Pollutant Phenols**

2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

**Semi-Volatile Organics**

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 8270D
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D

**Semi-Volatile Organics**

Methyl methanesulfonate	EPA 8270D
O,O,O-Triethyl phosphorothioate	EPA 8270D
Phenacetin	EPA 8270D
Safrole	EPA 8270D

**Volatile Aromatics**

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C

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NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2018  
Issued April 01, 2017  
Revised June 09, 2017

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

MR. CARLTON BEECHLER  
ALS ENVIRONMENTAL - ROCHESTER  
1565 JEFFERSON ROAD BUILDING 300, SUITE 360  
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards (2003) for the category  
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
All approved analytes are listed below:*

**Volatile Aromatics**

Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C

**Volatile Chlorinated Organics**

Benzyl chloride	EPA 8260C
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**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
3-Chloropropene (Allyl chloride)	EPA 8260C

**Volatile Halocarbons**

Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C
cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C
Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C

**Volatile Organics**

1,4-Dioxane	EPA 8260C
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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE*

*All approved analytes are listed below:*

**Volatile Organics**

2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Acetonitrile	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethyl Acetate	EPA 8260C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C
Isopropanol	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8260C
	EPA 8270D
Propionitrile	EPA 8260C
tert-butyl alcohol	EPA 8260C
Vinyl acetate	EPA 8260C

**Sample Preparation Methods**

EPA 3580A
EPA 9030B
EPA 3050B
EPA 3060A
EPA 3541

**Sample Preparation Methods**

EPA 5035A-L
EPA 5035A-H

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**ROCHESTER, NY 14623**

**NY Lab Id No: 10145**

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**ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE**  
*All approved subcategories and/or analytes are listed below:*

**Miscellaneous**

Lead in Dust Wipes EPA 6010C

**Sample Preparation Methods**

EPA 3050B

**Serial No.: 55583**

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS*

*All approved analytes are listed below:*

**Miscellaneous**

Sulfur Dioxide 40 CFR 60 Method 8  
Sulfuric Acid 40 CFR 60 Method 8

**Purgeable Halocarbons**

Tetrachloroethene 40 CFR PART 60 1984 Method 18  
Trichloroethene 40 CFR PART 60 1984 Method 18

Serial No.: 55584

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